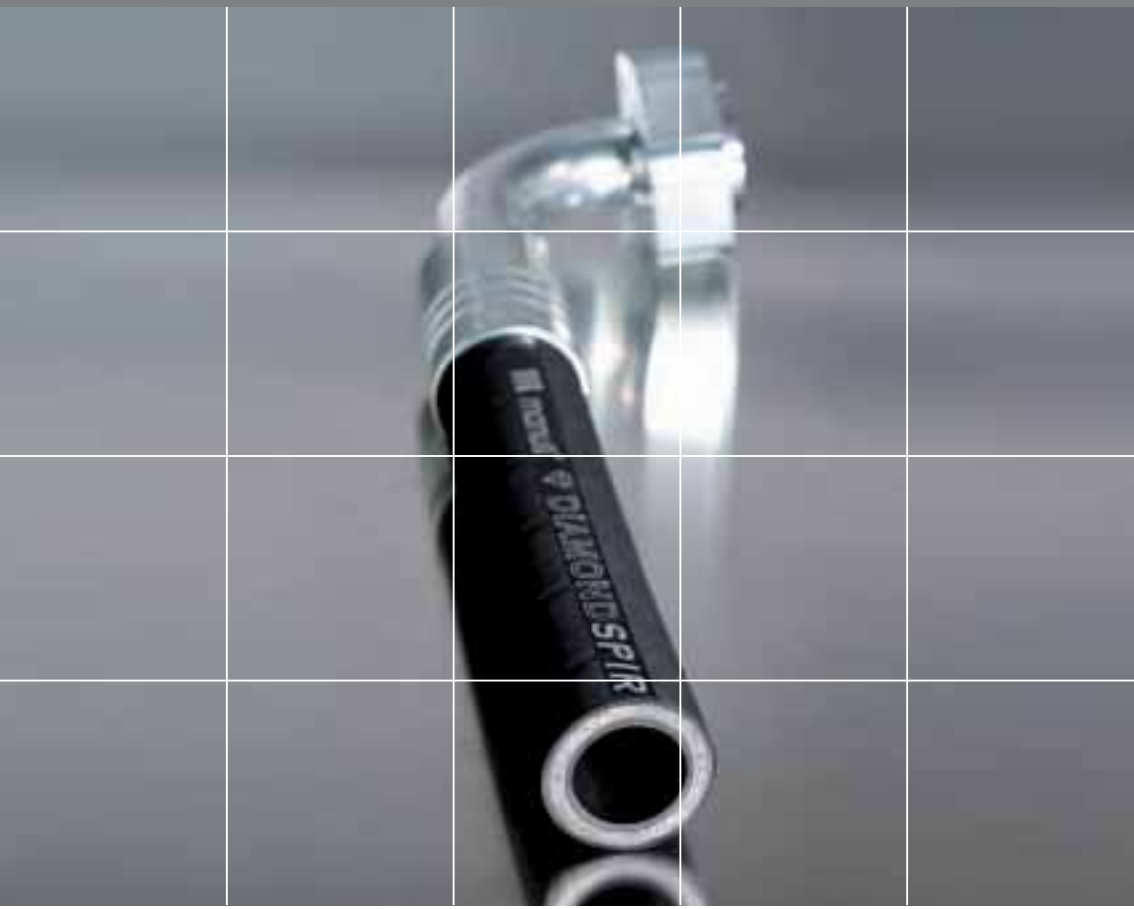
HOSES



Fluid connectors, solid solutions

S.C. FLUIDTECHNIK s.r.l.
Hidraulica & Pneumatica

manuli® HYDRAULICS

FLUIDTECHNIK S.R.L.0723 382 199

HOSES

INTRODUCTION

GB

The Hydraulic hose range is dedicated to hydraulic systems and equipment in many different sectors, such as construction machines, mining, industrial processes, agriculture, road construction equipment, drilling, forestry machines, material handling and lifting, road transportation, marine and off-shore, and many others.
High pressure hydraulics is a means to transmit, control and distribute energy and power using a pressurized liquid, most often oils or water based fluids as medium.
Manuli UNIVERSAL hose range meets the ISO, EN, SAE, JIS International Norms while the EXTREME hose range is designed to meet special performance and requirements in OEM severe applications. This second hose family includes also a relevant group of hoses dedicated to Special applications, products developed as a result of more than 75 years of experience in field.
The hose families follow traditional norms or the isobaric modern approach, which features a friendly methodology for users thanks to constant pressure levels for any size.

ES

La gama de mangueras hidráulicas se aplica en sistemas hidráulicos y equipos en diferentes sectores, como la máquina de construcción, minería, procesos industriales, agricultura, equipos de construcción de caminos, perforación, máquinas forestales, material de almacenamiento y elevación, transporte, marina y muchos otros.
La alta presión hidráulica es un medio para transmitir, controlar y distribuir energía, utilizando la presurización de un líquido, los más frecuentes son los aceites o fluidos con base de agua como medio.
La gama UNIVERSAL de Manuli respetan las Normas Internacionales ISO, EN, SAE, JIS, mientras que la gama de mangueras EXTREMA están diseñadas para aplicaciones de alto rendimiento y requisitos severos para aplicaciones en OEM. Esta segunda familia de mangueras también incluye un grupo de mangueras relevantes para aplicaciones Especiales, productos desarrollados como resultado de más de 75 años de experiencia.
Las familias de mangueras siguen las normas tradicionales o la directriz isobárica, que ofrece una fácil metodología para los usuarios gracias al nivel de presión constante para cada tamaño.

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D

Die Produktpalette der Hydraulikschläuche ist speziell für Hydrauliksysteme und -ausstattungen in den unterschiedlichsten Branchen, etwa wie Baumaschinen, Bergbau, Industrieverarbeitung, Landwirtschaft, Straßenbaugeräte, Bohrungen, Waldwirtschaftsmaschinen, Materialumschlag, Straßentransport, Marine und Off-Shore und viele mehr gedacht.
Hochdruckhydraulik ist ein Mittel zur Übertragung, Kontrolle und Verteilung von Energie und Leistung über eine unter Druck stehende, meistens öl- oder wasserbasierende Flüssigkeit.
Die UNIVERSAL-Schlauchpalette von Manuli entspricht den internationalen Normen ISO, EN, SAE, JIS, während die EXTREM-Schlauchpalette die speziellen Leistungen und Anforderungen in strengen OEM-Anwendungen erfüllt. Diese zweite Produktfamilie schließt auch eine bedeutende Gruppe von Schlauchtypen für spezielle Anwendungen ein, Produkte, die das Ergebnis von 75 Jahren Erfahrung in diesem Bereich sind.
Die Produktfamilien entsprechen herkömmlichen Normen oder aber die moderne isobare Herangehensweise, eine benutzerfreundliche Methode, dank einer konstanten Druckstufe bei allen Schlauchgrößen.

IT

La gamma di tubi idraulici Manuli è dedicata ai sistemi e ai macchinari idraulici in diversi settori, quali ad esempio costruzioni, miniera, processi industriali, agricoltura, lavori per costruzioni stradali, macchine per perforazioni, macchine deforestazione, movimentazione e sollevamento materiali, trasporto su strada, ambito navale e off-shore e molti altri.
L'alta pressione idraulica permette di trasmettere, controllare e distribuire energia e potenza attraverso l'uso di un liquido, molto spesso oli o fluidi a base d'acqua.
I tubi Manuli della gamma UNIVERSAL rispondono alle norme ISO, EN, SAE, JIS e altre Norme Internazionali mentre la gamma di tubi EXTREME è progettata per rispondere a particolari performance e requisiti nelle applicazioni OEM. Questa seconda famiglia di tubi include anche un rilevante insieme di tubi dedicati alla Applicazioni Speciali e sono il risultato di più di 75 anni di esperienza diretta sul campo.
Ogni famiglia di tubo risponde alle norme tradizionali o al moderno approccio isobarico, basato su un metodologia più semplice per l'utilizzatore finale grazie a costanti livelli di pressione indipendentemente dal diametro del tubo.

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HOSES

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RANGE		HOSE	HOSE STRUCTURE	NORM	KEY PERFORMANCE	PAGE
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		TRACTOR® / 2K	Wire braided	EN 857, ISO 11237-2SC, SAE J157-100R16S	Standard hydraulic applications	32
		LYTE-FLEX®	Wire braided	SAE J517-100R16, ISO 11237-R16	High flexibility	34
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		COVER	Wire braided	SAE J517-100 R5	General purpose hose	38
		SPIRTEX	Textile, Helix wire	SAE J517-100 R4	High quality suction hose	40
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		ROCKMASTER/2ST	Wire braided	EN 853, ISO 1436-2SN, SAE J517-100R2AT	Abrasion, weather and heat resistance	58
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HOSES

INDEX

RANGE		HOSE	HOSE STRUCTURE	MANULI® DESIGN EXCEEDS NORM	KEY PERFORMANCE	PAGE
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		SHIELDMASTER/2000	Wire braided	Isobaric line, special multilayer cover	Outstanding abrasion resistance	94
		SHIELDMASTER/4000	Wire braided and spiralled	Isobaric line, special multilayer cover	Outstanding abrasion resistance	96
		SHIELDMASTER/5000	Wire braided and spiralled	Isobaric line, special multilayer cover	Outstanding abrasion resistance	98
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HOSES

Universal traditional



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GOLDENSPIR®/4SP

EN 856 4SP



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H10009006*	6	-04	1/4"	14,7	0,58	17,6	0,69	485	7030	2400	34800	100	3,94	600	0,40	MF+M00910-04
H10009010*	10	-06	3/8"	17,6	0,69	21,1	0,83	450	6520	2000	29005	110	4,33	760	0,51	MF+M00910-06
H10009012*	12	-08	1/2"	20,3	0,80	24,3	0,96	420	6090	1750	25380	120	4,72	900	0,60	MF+M00910-08
H10009016*	16	-10	5/8"	23,7	0,93	27,9	1,10	380	5510	1600	23200	140	5,51	1120	0,75	MF+M00910-10
H10009019*	19	-12	3/4"	28,2	1,11	31,9	1,26	380	5510	1600	23200	170	6,69	1490	1,00	MF+M00920-12
H10009025*	25	-16	1"	35,0	1,38	39,0	1,54	320	4640	1400	20300	340	13,39	1950	1,31	MF+M00920-16

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Approved at 1.000.000 impulse cycles ■ Over standard pressure resistance ■ bio biological and mineral oils compatibility

Aprobada hasta 1.000.000 de ciclos de impulso ■ Resistencia de presión superior a estandar ■ bio compatible con aceites minerales y biologicos

1.000.000 geprüfte Impulszyklen ■ Über dem Standard liegende Druckbeständigkeit ■ bio Beständigkeit gegen Bio- und Mineralöle

Approvato a 1.000.000 di cicli ■ Elevata resistenza a pressioni superiori agli standard ■ bio compatibilità con oli biologici e minerali

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GOLDENSPIR®/4SP

TECHNICAL INFO

GB

MAIN APPLICATIONS
Very high pressure power lines
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water
REMARK: Halogen-Free hose line

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Four high tensile steel spirals
COVER: Environment resistant synthetic rubber
APPLICABLE SPECS.: EN 856 4SP - ISO 3862 4SP
TYPE APPROVALS: ABS, BV, DNV, GL, GOST R, KRS, LR, MSHA

BWB: Approval available upon request

ES

PRINCIPALES APLICACIONES
Líneas de muy alta presión
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y aceite basado en éster sintético (hasta +212°F / +100°C), glicoles y poliglicoles, aceite mineral en emulsión acuosa, agua
COMENTARIO: gama de mangueras "Halogen-Free"

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Cuatro espirales de acero de alta resistencia
CUBIERTA: Caucho sintético resistente al ambiente
ESPECIFICACIONES APLICABLES: EN 856 4SP
ISO 3862 4SP
APROBACIONES: ABS, BV, DNV, GL, GOST R, KRS, LR, MSHA

BWB: Aprobaciones disponible bajo pedido

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Hochdruck
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Wasser, Glykol Mineralöl/Wasseremulsion, Synthetisches Ester Öl (bis +212°F / +100°C)
WICHTIG: hydraulikschläuche "Halogen-Free"

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Vier hochzugfeste Stahldrahteinlagen
DECKE: Synthetisches Gummi mit hoher Temperatur-, Ozon und Abriebbeständigkeit
ANGEWANDTE NORM: EN 856 4SP - ISO 3862 4SP
ZULASSUNGEN: ABS, BV, DNV, GL, GOST R, KRS, LR, MSHA

BWB: Zulassungen auf Anfrage

IT

PRINCIPALI APPLICAZIONI
Linee ad altissima pressione
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e oli a base di esteri sintetici, (fino a +212°F / +100°C), glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua
ATTENZIONE: gamma di tubi "Halogen-Free"

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Quattro spirali di acciaio ad alto carico
COPERTURA: Gomma sintetica resistente agli agenti atmosferici
SPECIFICHE: EN 856 4SP - ISO 3862 4SP
OMOLOGAZIONI: ABS, BV, DNV, GL, GOST R, KRS, LR, MSHA

BWB: Omologazione disponibile su richiesta

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GOLDENSPIR®/4SH

EN 856 4SH



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H10040019*	19	-12	3/4"	28,2	1,11	31,9	1,26	420	6090	1750	25380	210	8,27	1520	1,02	IP+M01500-12
H10040025*	25	-16	1"	35,1	1,38	38,1	1,50	385	5580	1750	25380	220	8,66	2070	1,39	IP+M01500-16
H10040032*	31	-20	1.1/4"	42,2	1,66	45,0	1,77	350	5070	1400	20300	420	16,54	2450	1,65	IP+M01500-20
H10040040*	38	-24	1.1/2"	49,1	1,93	53,1	2,09	300	4350	1250	18120	560	22,05	3200	2,15	IP+M01500-24
H10040051*	51	-32	2"	63,5	2,50	67,5	2,66	250	3620	1000	14500	700	27,56	4500	3,02	IP+M01500-32

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Approved at 1.000.000 flexing impulse cycles ■ Over standard pressure resistance ■ bio biological and mineral oils compatibility

Aprobada hasta 1.000.000 de ciclos de impulso flexibles ■ Resistencia de presión superior a estandar ■ bio compatible con aceites minerales y biologicos

Geprüft mit 1.000.000 Flex Impulszyklen ■ Über dem Standard liegende Druckbeständigkeit ■ bio Beständigkeit gegen Bio- und Mineralöle

Approvato a 1.000.000 di cicli in condizioni rotanti ■ Elevata resistenza a pressioni superiori agli standard ■ bio compatibilità con oli biologici e minerali

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GOLDENSPIR®/4SH

TECHNICAL INFO

GB

MAIN APPLICATIONS
Very high pressure power lines
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water

INSERT: MF2000® - INTERLOCK PLUS TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Four high tensile steel spirals
COVER: Environment resistant synthetic rubber
APPLICABLE SPECS.: EN 856 4SH - ISO 3862 4SH
TYPE APPROVALS: ABS, BV, DNV, GL, GOST-R, KRS, LR, MSHA

BWB: Approval available upon request

ES

PRINCIPALES APLICACIONES
Líneas de muy alta presión
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y aceite basado en éster sintético (hasta +212°F / +100°C), glicoles y poliglicoles, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO INTERLOCK PLUS
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Cuatro espirales de acero de alta resistencia
CUBIERTA: Caucho sintético resistente al ambiente
ESPECIFICACIONES APLICABLES: EN 856 4SH
ISO 3862 4SH
APROBACIONES: ABS, BV, DNV, GL, GOST-R, KRS, LR, MSHA

BWB: Aprobaciones disponible bajo pedido

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Hochdruck
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Wasser, Glykol Mineralöl/Wasseremulsion, Synthetisches Ester Öl (bis +212°F / +100°C)

NIPPEL: MF2000® - INTERLOCK PLUS
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Vier hochzugfeste Stahldrahteinlagen
DECKE: Synthetisches Gummi mit hoher Temperatur-, Ozon und Abriebbeständigkeit
ANGEWANDTE NORM: EN 856 4SH - ISO 3862 4SH
ZULASSUNGEN: ABS, BV, DNV, GL, GOST-R, KRS, LR, MSHA

BWB: Zulassungen auf Anfrage

IT

PRINCIPALI APPLICAZIONI
Linee ad altissima pressione
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e oli a base di esteri sintetici, (fino a +212°F / +100°C), glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO INTERLOCK PLUS
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Quattro spirali di acciaio ad alto carico
COPERTURA: Gomma sintetica resistente agli agenti atmosferici
SPECIFICHE: EN 856 4SH - ISO 3862 4SH
OMOLOGAZIONI: ABS, BV, DNV, GL, GOST-R, KRS, LR, MSHA

BWB: Omologazione disponibile su richiesta

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manuli® HYDRAULICS

FLUIDTECHNIK S.R.L.0723 382 199

TRACTOR®/1T

EN 853 1SN



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H02004005*	5	-03	3/16"	9,5	0,37	11,5	0,45	250	3620	1000	14500	89	3,50	185	0,12	MF+M03400-03
H02004A06*	6	-04	1/4"	11,2	0,44	13,2	0,52	225	3260	900	13050	100	3,94	220	0,15	MF+M03400-04
H02004008*	8	-05	5/16"	12,8	0,50	14,8	0,58	215	3110	850	12320	114	4,49	270	0,18	MF+M03400-05
H02004010*	10	-06	3/8"	15,1	0,59	17,1	0,67	180	2610	720	10440	127	5,00	340	0,23	MF+M03400-06
H02004012*	12	-08	1/2"	18,1	0,71	20,1	0,79	160	2320	640	9280	178	7,01	400	0,27	MF+M03400-08
H01006016*	16	-10	5/8"	21,3	0,84	23,3	0,92	130	1880	520	7540	200	7,87	490	0,33	MF+M03400-10
H01006019*	19	-12	3/4"	25,3	1,00	27,3	1,07	105	1520	420	6090	240	9,45	610	0,41	MF+M03400-12
H01006025*	25	-16	1"	33,1	1,30	35,1	1,38	88	1270	350	5070	300	11,81	920	0,62	MF+M03400-16
H01006032*	31	-20	1.1/4"	40,6	1,60	43,3	1,70	63	910	250	3620	419	16,50	1260	0,85	MF+M03400-20
H01006040*	38	-24	1.1/2"	47,0	1,85	49,7	1,96	50	720	200	2900	500	19,69	1470	0,99	MF+M03400-24
H01006051*	51	-32	2"	60,4	2,38	63,1	2,48	40	580	160	2320	630	24,80	2040	1,37	MF+M03400-32
H01006060*	60	-38	2.3/8"	68,8	2,71	71,5	2,81	50	720	200	2900	650	25,59	2210	1,49	MF+M03400-38

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

EN/DIN rated working pressure ■ Smooth cover FRAS approved (DN 5÷12)

Presión de trabajo acorde a Norma EN/DIN ■ Cubierta lisa con aprobación FRAS (DN 5÷12)

EN/DIN Betriebsdruck ■ Glatte Decke FRAS zugelassen (DN 5÷12)

Pressioni di esercizio a norma EN/DIN ■ Copertura liscia approvata FRAS (DN 5÷12)

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GB

MAIN APPLICATIONS
Low-medium pressure lines, return lines
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +250°F +121°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water
REMARK: Halogen-Free hose line

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: One high tensile steel braid
COVER: Environment resistant synthetic rubber
APPLICABLE SPECS.: EN 853 1SN - SAE 100 R1AT - ISO 1436 1SN/R1AT
TYPE APPROVALS: ABS, BV (DN 5÷51), DNV, FRAS (DN 5÷12), GL (DN 5÷51), GOST-R, KRS, LR

BWB: Approval available upon request

ES

PRINCIPALES APLICACIONES
Líneas de baja y media presión, líneas de retorno
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +250°F +121°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceites con base en éster sintético, aceite en emulsión acuosa, agua
COMENTARIO: gama de mangueras "Halogen-Free"

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Una trenza de acero de alta resistencia
CUBIERTA: Caucho sintético resistente a la intemperie
ESPECIFICACIONES APLICABLES: EN 853 1SN - SAE 100 R1AT - ISO 1436 1SN/R1AT
APROBACIONES: ABS, BV (DN 5÷51), DNV, FRAS (DN 5÷12), GL (DN 5÷51), GOST-R, KRS, LR

BWB: Aprobaciones disponible bajo pedido

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D

HAUPT-ANWENDUNGSGEBIET
Nieder-und Mitteldruckkreisläufe, Rücklauf
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
+250°F +121°C
EMPFOHLENE MEDIEN
Mineralöl, Wasser, Öl auf Polyglykolbasis, Synthetik-Esterbasis Wasser-/Ölemulsionen Rapsöl
WICHTIG: hydraulikschläuche "Halogen-Free"

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Ein hochzugfestes Stahldrahtgeflecht
DECKE: Umweltverträgliches synthetisches Gummi
ANGEWANDTE NORM: EN 853 1SN - SAE 100 R1AT - ISO 1436 1SN/R1AT
ZULASSUNGEN: ABS, BV (DN 5÷51), DNV, FRAS (DN 5÷12), GL (DN 5÷51), GOST-R, KRS, LR

BWB: Zulassungen auf Anfrage

IT

PRINCIPALI APPLICAZIONI
Linee a bassa-media pressione, linee di ritorno
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +250°F +121°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua
ATTENZIONE: gamma di tubi "Halogen-Free"

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Una treccia di acciaio ad alto carico
COPERTURA: Gomma sintetica resistente agli agenti atmosferici
SPECIFICHE: EN 853 1SN - SAE 100 R1AT - ISO 1436 1SN/R1AT
OMOLOGAZIONI: ABS, BV (DN 5÷51), DNV, FRAS (DN 5÷12), GL (DN 5÷51), GOST-R, KRS, LR

BWB: Omologazione disponibile su richiesta

FLUIDTECHNIK S.R.L.0723 382 199

TRACTOR®/2T

EN 853 2SN



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01027005*	5	-03	3/16"	11,3	0,44	13,3	0,52	415	6010	1650	23920	89	3,50	315	0,21	MF+M03400-03
H01027006*	6	-04	1/4"	12,7	0,50	14,7	0,58	400	5800	1600	23200	100	3,94	370	0,25	MF+M03400-04
H01027008*	8	-05	5/16"	14,3	0,56	16,3	0,64	350	5070	1400	20300	114	4,49	410	0,28	MF+M03400-05
H01027010*	10	-06	3/8"	16,7	0,66	18,7	0,74	330	4780	1320	19140	127	5,00	530	0,36	MF+M03400-06
H01027012*	12	-08	1/2"	19,8	0,78	21,8	0,86	275	3980	1100	15950	178	7,01	620	0,42	MF+M03400-08
H01027016*	16	-10	5/8"	23,0	0,91	25,0	0,98	250	3620	1000	14500	200	7,87	720	0,48	MF+M03400-10
H01027019*	19	-12	3/4"	27,0	1,06	29,0	1,14	215	3110	860	12470	240	9,45	940	0,63	MF+M03400-12
H01027025*	25	-16	1"	34,8	1,37	36,8	1,45	165	2390	660	9570	300	11,81	1290	0,87	MF+M03400-16
H01027032*	31	-20	1.1/4"	44,3	1,74	47,0	1,85	125	1810	500	7250	419	16,50	1910	1,28	MF+M03400-20
H01027040*	38	-24	1.1/2"	50,7	2,00	53,4	2,10	90	1300	360	5220	500	19,69	2250	1,51	MF+M03400-24
H01027051*	51	-32	2"	63,5	2,50	66,2	2,61	80	1160	320	4640	630	24,80	2900	1,95	MF+M03400-32
H01027060*	60	-38	2.3/8"	68,8	2,71	71,5	2,81	90	1300	360	5220	650	25,59	2700	1,81	MF+M03400-38

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

EN/DIN rated working pressure ■ Wide range of type approvals available

Presión de trabajo acordea la norma EN/DIN ■ Amplia gama de aprobaciones y normas

EN/DIN Betriebsdruck ■ Weites Spektrum von Zulassungen verfügbar

Pressioni di esercizio a norma EN/DIN ■ Ampia gamma di omologazioni disponibile

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GB

MAIN APPLICATIONS
Medium-high pressure lines
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +250°F +121°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water
REMARK: Halogen-Free hose line

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two high tensile steel braids
COVER: Environment resistant synthetic rubber
APPLICABLE SPECS.: EN 853 2SN - SAE 100 R2AT - ISO 1436 2SN/R2AT
TYPE APPROVALS: ABS, BV (DN 5÷51), DNV, GL, GOST-R, KRS, LR

BWB: Approval available upon request

ES

PRINCIPALES APLICACIONES
Líneas de media y alta presión
TEMPERATURA CONTÍNUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +250°F +121°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceites con base en éster sintético, aceite en emulsión acuosa, agua
COMENTARIO: gama de mangueras "Halogen-Free"

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Dos trenzas de acero de alta resistencia
CUBIERTA: Caucho sintético resistente a la intemperie
ESPECIFICACIONES APLICABLES: EN 853 2SN - SAE 100 R2AT - ISO 1436 2SN/R2AT
APROBACIONES: ABS, BV (DN 5÷51), DNV, GL, GOST-R, KRS, LR

BWB: Aprobaciones disponible bajo pedido

FLUIDTECHNIK S.R.L 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Mittlere Hochdruck-Reihe
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
+250°F +121°C
EMPFOHLENE MEDIEN
Mineralöl, Wasser, Öl auf Polyglykolbasis, Synthetik-Esterbasis Wasser-/Ölemulsionen, Rapsöl
WICHTIG: hydraulikschläuche "Halogen-Free"

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Zwei hochzugfeste Stahldrahtgeflechte
DECKE: Umweltverträgliches synthetisches Gummi
ANGEWANDTE NORM: EN 853 2SN - SAE 100 R2AT - ISO 1436 2SN/R2AT
ZULASSUNGEN: ABS, BV (DN 5÷51), DNV, GL, GOST-R, KRS, LR

BWB: Zulassungen auf Anfrage

IT

PRINCIPALI APPLICAZIONI
Linee a media-alta pressione
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +250°F +121°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua
ATTENZIONE: gamma di tubi "Halogen-Free"

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Due trecce di acciaio ad alto carico
COPERTURA: Gomma sintetica resistente agli agenti atmosferici
SPECIFICHE: EN 853 2SN - SAE 100 R2AT - ISO 1436 2SN/R2AT
OMOLOGAZIONI: ABS, BV (DN 5÷51), DNV, GL, GOST-R, KRS, LR

BWB: Omologazione disponibile su richiesta

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TRACTOR®/1K

EN 857 1SC



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01013006*	6	-04	1/4"	10,2	0,40	12,0	0,47	225	3260	1050	15220	50	1,97	185	0,12	MF+M00830-04
H01013008*	8	-05	5/16"	11,5	0,45	13,6	0,54	215	3110	1000	14500	55	2,17	215	0,14	MF+M00830-05
H01013010*	10	-06	3/8"	13,6	0,54	15,5	0,61	180	2610	850	12320	60	2,36	265	0,18	MF+M00820-06
H01013012*	12	-08	1/2"	17,1	0,67	18,9	0,74	160	2320	660	9570	70	2,76	335	0,23	MF+M00820-08
H01013016*	16	-10	5/8"	20,6	0,81	22,4	0,88	130	1880	620	8990	90	3,54	445	0,30	MF+M00820-10
H01013019*	19	-12	3/4"	23,9	0,94	25,9	1,02	105	1520	480	6960	100	3,94	540	0,36	MF+M00820-12
H01013025*	25	-16	1"	31,3	1,23	33,3	1,31	88	1270	400	5800	160	6,30	770	0,52	MF+M00820-16
H01013031*	31	-20	1.1/4"	38,4	1,51	40,9	1,61	63	910	400	5800	210	8,27	1080	0,73	MF+M00820-20
H01013038*	38	-24	1.1/2"	45,0	1,77	47,5	1,87	50	720	200	2900	300	11,81	1220	0,82	MF+M00820-24
H01013051*	51	-32	2"	58,0	2,28	60,5	2,38	40	580	160	2320	400	15,75	1630	1,10	MF+M00820-32
H01013063*	63	-40	2.1/2"	70,5	2,78	73,0	2,87	50	720	200	2900	760	29,92	2090	1,40	MF+M03400-40
H01013076*	76	-48	3"	85,0	3,35	87,7	3,45	35	500	140	2030	900	35,43	2780	1,87	MF+M03400-48

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

High flexibility and excellent bend radius ■ Low weight ■ Range extension to DN 76 ■ Large size 63÷76 MSHA approved ■ Vacuum resistance with SAE 100 R4 performance approved on sizes up to DN 31

Alta flexibilidad y excelente radio de curvatura ■ Bajo peso ■ Tamaños hasta DN 76 ■ Aprobación MSHA DN 63÷76 ■ Resistencia al vacio (SAE 100 R4) aprobada para los tamaños hasta DN 31

Hohe Flexibilität, äußerst geringer Biegeradius ■ Sehr geringes Gewicht ■ Erweiterung bis zur Nennweite DN 76 ■ Nennweiten DN 63÷76 mit MSHA Zulassung ■ Vacuumbestandig mit SAE 100 R4 bis DN 31

Elevata flessibilità e raggio di curvatura ridotto ■ Peso contenuto ■ Estensione di gamma fino a DN 76 ■ Omologazione MSHA (DN 63÷76) ■ Resistenza al vuoto con performance SAE 100 R4 approvata fino a DN 31

For hydraulic lift applications according to EN 81-2 specification: DN 19: WP = 50 bar - DN 25: WP = 50 bar - DN 31: WP = 50 bar The ref. spec. EN 81-2 is identified in the standard hose branding for these specific applications.

Para aplicaciones de elevadores hidráulicos con la especificación EN 81-2: DN 19: WP = 50 bar - DN 25: WP = 50 bar - DN 31: WP = 50 bar La referencia específica EN 81-2 está identificada en el marcaje de la manguera para estas aplicaciones específicas.

Für hydraulische Anwendungen im Bereich Lastheben nach den Normen EN 81-2: DN 19: WP = 50 bar - DN 25: WP = 50 bar - DN 31: WP = 50 bar Diese Anwendungsmöglichkeit ist identifiziert durch die zusätzliche Markierung des Schlauches EN81-2.

Per applicazioni idrauliche ascensoristiche in accordo con la specifica EN 81-2: DN 19: WP = 50 bar - DN 25: WP = 50 bar - DN 31: WP = 50 bar La specifica di riferimento EN81-2 è identificata nella marcatura standard del tubo per queste specifiche applicazioni.

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GB

MAIN APPLICATIONS
Low-medium pressure lines with installation constraints, pilot lines, return lines (suction lines DN ≤31)
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +250°F +121°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water
REMARK: Halogen-Free hose line

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: One high tensile steel braid
COVER: Environment resistant synthetic rubber
APPLICABLE SPECS.: EN 857 1SC and ISO 11237 1SC
TYPE APPROVALS: ABS, GL, GOST-R, LR, MSHA, Elevators EN 81-2

ES

PRINCIPALES APLICACIONES
Líneas de baja y media presión en espacios reducidos, líneas piloto, líneas de retorno (líneas de succión DN ≤31)
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +250°F +121°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceites con base en éster sintético, aceite en emulsión acuosa, agua
COMENTARIO: gama de mangueras "Halogen-Free"

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Una trenza de acero de alta resistencia
CUBIERTA: Caucho sintético resistente a la intemperie
ESPECIFICACIONES APLICABLES: EN 857 1SC y ISO 11237 1SC
APROBACIONES: ABS, GL, GOST-R, LR, MSHA, Elevators EN 81-2

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Mitteldruck-Reihe mit Installationsproblemen, Vorsteuer-Schläuche (Rücklaufleitungen DN ≤31)
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
+250°F +121°C
EMPFOHLENE MEDIEN
Mineralöl, Wasser, Öl auf Polyglykolbasis, Synthetik-Esterbasis Wasser-/Ölemulsionen, Rapsöl
WICHTIG: hydraulikschläuche "Halogen-Free"

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Ein hochzugfestes Stahldrahtgeflecht
DECKE: Umweltverträgliches synthetisches Gummi
ANGEWANDTE NORM: EN 857 1SC und ISO 11237 1SC
ZULASSUNGEN: ABS, GL, GOST-R, LR, MSHA, Elevators EN 81-2

IT

PRINCIPALI APPLICAZIONI
Linee a medio-bassa pressione con difficoltà di installazione, linee pilotaggio, linee di ritorno (linee di aspirazione DN ≤31)
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +250°F +121°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua
ATTENZIONE: gamma di tubi "Halogen-Free"

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Una treccia di acciaio ad alto carico
COPERTURA: Gomma sintetica resistente agli agenti atmosferici
SPECIFICHE: EN 857 1SC e ISO 11237 1SC
OMOLOGAZIONI: ABS, GL, GOST-R, LR, MSHA, Elevators EN 81-2

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TRACTOR®/2K

EN 857 2SC



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01025006*	6	-04	1/4"	11,3	0,44	13,1	0,52	400	5800	1850	26830	45	1,77	280	0,19	MF+M03400-04
H01025008*	8	-05	5/16"	12,9	0,51	14,7	0,58	350	5070	1700	24650	55	2,17	330	0,22	MF+M03400-05
H01025010*	10	-06	3/8"	15,0	0,59	16,8	0,66	330	4780	1500	21750	65	2,56	395	0,27	MF+M03400-06
H01025012*	12	-08	1/2"	18,5	0,73	20,3	0,80	275	3980	1220	17690	80	3,15	510	0,34	MF+M03400-08
H01025016*	16	-10	5/8"	21,8	0,86	23,6	0,93	250	3620	1050	15220	90	3,54	630	0,42	MF+M03400-10
H01025019*	19	-12	3/4"	25,6	1,01	27,6	1,09	215	3110	920	13340	120	4,72	800	0,54	MF+M03400-12
H01025025*	25	-16	1"	33,0	1,30	35,2	1,39	165	2390	720	10440	160	6,30	1130	0,76	MF+M03400-16
H01025031*	31	-20	1.1/4"	41,1	1,62	43,6	1,72	125	1810	560	8120	250	9,84	1570	1,06	MF+M03400-20
H01025038*	38	-24	1.1/2"	47,7	1,88	50,7	2,00	100	1450	400	5800	300	11,81	1900	1,28	MF+M03400-24
H01025051*	51	-32	2"	60,4	2,38	63,4	2,50	90	1300	360	5220	400	15,75	2460	1,65	MF+M03400-32
H01025063*	63	-40	2.1/2"	73,0	2,87	76,0	2,99	70	1010	300	4350	760	29,92	2980	2,00	MF+M03400-40
H01025076*	76	-48	3"	87,8	3,46	90,5	3,56	45	650	180	2610	900	35,43	3250	2,18	MF+M03400-48

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

High flexibility and excellent bend radius ■ Low weight ■ Range extension to DN 76 ■ Vacuum reistance with SAE 100 R4 performance approved on sizes up to DN 76

Alta flexibilidad y excelente radio de curvatura ■ Bajo peso ■ Tamaños hasta DN 76 ■ Resistencia al vacio (SAE 100 R4) aprobada para los tamaños hasta DN 76

Hohe Flexibilität, äußerst geringer Biegeradius ■ Sehr geringes Gewicht ■ Hi-Tech Herstellungsprozess ■ Erweiterung bis zur Nennweite DN 76 ■ Vacuumbestandig mit SAE 100 R4 bis DN 76

Elevata flessibilità e raggio di curvatura ridotto ■ Peso contenuto ■ Estensione di gamma fino a DN 76 ■ Resistenza al vuoto con performance SAE 100 R4 approvata fino a DN 76

For hydraulic lift applications according to EN 81-2 specification: DN 31: WP = 50 bar - DN 38: WP = 50 bar - DN 51: WP = 45 bar These ratings are identified with additional embossed branding on the hose references.

Para aplicaciones de elevadores hidráulicos con la especificación EN 81-2: DN 31: WP = 50 bar - DN 38: WP = 50 bar - DN 51: WP = 45 bar Estos ratios están identificados con el marcaje en relieve en las referencias de las mangueras.

Für hydraulische Anwendungen im Bereich Lastheben nach den Normen EN 81-2: DN 31: WP = 50 bar - DN 38: WP = 50 bar - DN 51: WP = 45 bar Diese Anwendungsmöglichkeit ist identifiziert durch die zusätzliche Markierung des Schlauches EN81-2.

Per applicazioni idrauliche ascensoristiche in accordo con la specifica EN 81-2: DN 31: WP = 50 bar - DN 38: WP = 50 bar - DN 51: WP = 45 bar Questi valori di pressione di esercizio sono identificati con una marcatura aggiuntiva in basso rilievo sul tubo.

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GB

MAIN APPLICATIONS
Medium-high pressure lines with installation constraints, return lines and suction lines
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +250°F +121°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water
REMARK: Halogen-Free hose line

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two high tensile steel braids
COVER: Environment resistant synthetic rubber
APPLICABLE SPECS.: EN 857 2SC, ISO 11237 2SC, SAE 100 R16S
TYPE APPROVALS: ABS, DNV, GL (DN 6÷51), GOST-R, LR, Elevators EN 8-12

BWB: Approval available upon request

ES

PRINCIPALES APLICACIONES
Líneas de media y alta presión en espacios reducidos, líneas de retorno y de succión
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +250°F +121°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceites con base en éster sintético, aceite en emulsión acuosa, agua
COMENTARIO: gama de mangueras "Halogen-Free"

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Dos trenzas de acero de alta resistencia
CUBIERTA: Caucho sintético resistente a la intemperie
ESPECIFICACIONES APLICABLES: EN 857 2SC, ISO 11237 2SC, SAE 100 R16S
APROBACIONES: ABS, DNV, GL (DN 6÷51), GOST-R, LR, Elevators EN 8-12

BWB: Aprobaciones disponible bajo pedido

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D

HAUPT-ANWENDUNGSGEBIET
Nieder-und und Mitteldruck-Kreisläufe mit Installationsproblemen
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
+250°F +121°C
EMPFOHLENE MEDIEN
Mineralöl, Wasser, Öl aufPolyglykolbasis, Synthetik-Esterbasis Wasser-/Ölemulsionen, Rapsöl
WICHTIG: hydraulikschläuche "Halogen-Free"

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Zwei hochzugfeste Stahldrahtgeflechte
DECKE: Umweltverträgliches synthetisches Gummi
ANGEWANDTE NORM: EN 857 2SC, ISO 11237 2SC, SAE 100 R16S
ZULASSUNGEN: ABS, DNV, GL (DN 6÷51), GOST-R, LR, Elevators EN 8-12

BWB: Zulassungen auf Anfrage

IT

PRINCIPALI APPLICAZIONI
Linee a media-alta pressione con difficoltà di installazione, linee di aspirazione e ritorno
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +250°F +121°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua
ATTENZIONE: gamma di tubi "Halogen-Free"

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Due trecce di acciaio ad alto carico
COPERTURA: Gomma sintetica resistente agli agenti atmosferici
SPECIFICHE: EN 857 2SC, ISO 11237 2SC, SAE 100 R16S
OMOLOGAZIONI: ABS, DNV, GL (DN 6÷51), GOST-R, LR, Elevators EN 8-12

BWB: Omologazione disponibile su richiesta

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LYTE-FLEX®

COMPACT WIRE BRAID



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01084006*	6	-04	1/4"	11,6	0,46	13,2	0,52	350	5070	1400	20300	50	1,97	265	0,18	MF+M03400-04
H01084008*	8	-05	5/16"	12,9	0,51	14,5	0,57	297	4300	1190	17250	55	2,17	290	0,19	MF+M03400-05
H01084010*	10	-06	3/8"	15,4	0,61	17,0	0,67	280	4060	1120	16240	63	2,48	385	0,26	MF+M03400-06
H01084012*	12	-08	1/2"	18,5	0,73	20,3	0,80	245	3550	980	14210	88	3,46	465	0,31	MF+M03400-08
H01084016*	16	-10	5/8"	22,2	0,87	24,0	0,94	210	3040	840	12180	100	3,94	630	0,42	MF+M03400-10
H01084019*	19	-12	3/4"	25,6	1,01	27,7	1,09	210	3040	840	12180	120	4,72	790	0,53	MF+M03400-12
H01084025*	25	-16	1"	32,3	1,27	34,6	1,36	140	2030	560	8120	150	5,91	1090	0,73	MF+M03400-16

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Intermediate pressure rating between 1SC & 2SC ■ Lightness and flexibility

Presion en medio de 1SC y 2SC ■ Bajo peso y flexibilidad

Druckstufe Zwischen 1SC und 2SC ■ Sehr geringes Gewicht

Pressione intermedia tra 1SC e 2SC ■ Peso contenuto e ottima flessibilità

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MAIN APPLICATIONS
Medium pressure lines with installation constraints
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +250°F +121°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycols and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water
REMARK: Halogen-Free hose line

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two high tensile steel braids
COVER: Environment resistant synthetic rubber
APPLICABLE SPECS.: DN 16, 19 SAE 100 R17
ISO 11237 R17
TYPE APPROVALS: GOST-R, LR

ES

PRINCIPALES APLICACIONES
Líneas de media presión en espacios reducidos
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +250°F +121°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceites con base en éster sintético, aceite en emulsión acuosa, agua
COMENTARIO: gama de mangueras "Halogen-Free"

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético resistente al aceite
REFUERZO: Dos refuerzos trenzados de acero de alta resistencia
CUBIERTA: Caucho sintético resistente a la intemperie
ESPECIFICACIONES APLICABLES: DN 16, 19 SAE 100 R17
ISO 11237 R17
APROBACIONES: GOST-R, LR

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Mitteldruck-Kreisläufe mit Installationsproblemen
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
+250°F +121°C
EMPFOHLENE MEDIEN
Mineralöl, Wasser, Öl auf Polyglykolbasis, Synthetik-Esterbasis Wasser-/Ölemulsionen, Rapsöl
WICHTIG: hydraulikschläuche "Halogen-Free"

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Zwei hochzugfesteStahldrahtgeflechte
DECKE: Umweltverträgliches synthetisches Gummi
ANGEWANDTE NORM: DN 16, 19 SAE 100 R17
ISO 11237 R17
ZULASSUNGEN: GOST-R, LR

IT

PRINCIPALI APPLICAZIONI
Linee a media pressione con difficoltà di installazione
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +250°F +121°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua
ATTENZIONE: gamma di tubi "Halogen-Free"

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Due trecce di acciaio ad alto carico
COPERTURA: Gomma sintetica resistente agli agenti atmosferici
SPECIFICHE: DN 16, 19 SAE 100 R17 - ISO 11237 R17
OMOLOGAZIONI: GOST-R, LR

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HARVESTER®/17

SAE 100 R17



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01056006*	6	-04	1/4"	10,2	0,40	12,0	0,47	210	3040	840	12180	50	1,97	185	0,12	MF+M00830-04
H01056008*	8	-05	5/16"	11,5	0,45	13,6	0,54	210	3040	840	12180	55	2,17	215	0,14	MF+M00830-05
H01056A10*	10	-06	3/8"	14,4	0,57	16,2	0,64	210	3040	840	12180	65	2,56	305	0,20	MF+M03400-06
H01056A12*	12	-08	1/2"	17,9	0,70	19,7	0,78	210	3040	840	12180	90	3,54	420	0,28	MF+M03400-08

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Isobaric pressure rating ■ Compact hose structures for installations in narrow spaces

Gama de presión isobárica ■ Estructura compacta de mangueras para espacios reducidos

Isobarische Druckreihe ■ Kompakte Struktur – optimal für die Installation auf engem Raum und an schwer zugänglichen Stellen geeignet.

Pressioni di esercizio isobariche ■ Struttura compatta adatta per installazioni in spazi ristretti

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GB

MAIN APPLICATIONS
Medium pressure lines with installation constraints
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +250°F +121°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycols and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water
REMARK: Halogen-Free hose line

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: One high tensile steel braid
COVER: Environment resistant synthetic rubber
APPLICABLE SPECS.: SAE 100 R17 - ISO 11237 R17
TYPE APPROVALS: GOST-R, LR

ES

PRINCIPALES APLICACIONES
Líneas de media presión en espacios reducidos
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +250°F +121°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceites con base en éster sintético, aceite en emulsión acuosa, agua
COMENTARIO: gama de mangueras "Halogen-Free"

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético resistente al aceite
REFUERZO: Un refuerzo trenzado de acero de alta resistencia
CUBIERTA: Caucho sintético resistente a la intemperie
ESPECIFICACIONES APLICABLES: SAE 100 R17 - ISO 11237 R17
APROBACIONES: GOST-R, LR

FLUIDTECHNIK S.R.L 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Mitteldruck-Kreisläufe mit Installationsproblemen
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
+250°F +121°C
EMPFOHLENE MEDIEN
Mineralöl, Wasser, Öl auf Polyglykolbasis, Synthetik-Esterbasis, Rapsöl Wasser-/Ölemulsionen
WICHTIG: hydraulikschläuche "Halogen-Free"

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Ein hochzugfeste Stahldrahtgeflechte
DECKE: Umweltverträgliches synthetisches Gummi
ANGEWANDTE NORM: SAE 100 R17 - ISO 11237 R17
ZULASSUNGEN: GOST-R, LR

IT

PRINCIPALI APPLICAZIONI
Linee a media pressione con difficoltà di installazione
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +250°F +121°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua
ATTENZIONE: gamma di tubi "Halogen-Free"

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Una treccia di acciaio ad alto carico
COPERTURA: Gomma sintetica resistente agli agenti atmosferici
SPECIFICHE: SAE 100 R17 - ISO 11237 R17
OMOLOGAZIONI: GOST-R, LR

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COVER

SAE 100 R5



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H05002005*	5	-04	3/16"	-	-	13,2	0,52	210	3040	840	12180	75	2,95	220	0,15	MF+M00310-03
H05002006*	6	-05	1/4"	-	-	14,8	0,58	210	3040	840	12180	85	3,35	260	0,17	MF+M00310-04
H05002008*	8	-06	5/16"	-	-	17,1	0,67	157	2270	630	9130	100	3,94	305	0,20	MF+M00310-05
H05002010*	10	-08	13/32"	-	-	19,4	0,76	140	2030	560	8120	115	4,53	365	0,25	MF+M00310-06
H05002012*	12	-10	1/2"	-	-	23,3	0,92	122	1760	490	7100	140	5,51	495	0,33	MF+M00310-08
H05002016*	16	-12	5/8"	-	-	27,3	1,07	105	1520	420	6090	165	6,50	650	0,44	MF+M00310-10
H05002022*	22	-16	7/8"	-	-	31,2	1,23	56	810	224	3240	185	7,28	600	0,40	*
H05002028*	28	-20	1.1/8"	-	-	38,0	1,50	43	620	175	2530	229	9,02	780	0,52	*
H05002035*	35	-24	1.3/8"	-	-	44,3	1,74	35	500	140	2030	265	10,43	1010	0,68	*
H05002046*	46	-32	1.13/16"	-	-	56,1	2,21	24	340	98	1420	335	13,19	1400	0,94	*

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

General purpose hose ■ Wear resistant cover

Manguera de aplicacion general ■ Cubierta resistente al desgaste

Allzweckschlauch ■ verschleißfeste Decke

Tubo per molteplici applicazioni ■ Copertura resistente all'usura

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GB

MAIN APPLICATIONS
Low-medium pressure lines, general purpose applications
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +250°F +121°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water, diesel fuel (up to 200°F / 93°C)
REMARK: Halogen-Free hose line

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: One high tensile steel braid
COVER: One textile braid
APPLICABLE SPECS.: SAE 100 R5
TYPE APPROVALS: GOST-R

ES

PRINCIPALES APLICACIONES
Líneas de baja y media presión, aplicaciones generales
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +250°F +121°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceites con base en éster sintético, aceite en emulsión acuosa, agua, aceite diesel (hasta 200°F / 93°C)
COMENTARIO: gama de mangueras "Halogen-Free"

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Un refuerzo trenzado de acero de alta resistencia
CUBIERTA: Un refuerzo textil
ESPECIFICACIONES APLICABLES: SAE 100 R5
APROBACIONES: GOST-R

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Nieder-, und Mitteldruck-Kreisläufe Allzweckschlauch
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
+250°F +121°C
EMPFOHLENE MEDIEN
Mineralöl, Wasser, Öl auf Polyglykolbasis, Synthetik-Esterbasis, Rapsöl, Wasser/Ölemulsionen, Diesel (bis 200°F / 93°C)
WICHTIG: hydraulikschläuche "Halogen-Free"

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Ein hochzugfestes Stahldrahtgeflecht
DECKE: Ein Textilgeflecht eingebettet insynthetisches Gummi
ANGEWANDTE NORM: SAE 100 R5
ZULASSUNGEN: GOST-R

IT

PRINCIPALI APPLICAZIONI
Linee a bassa-media pressione, applicazione in molteplici impieghi
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +250°F +121°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua, diesel fuel (fino a 200°F / 93°C)
ATTENZIONE: gamma di tubi "Halogen-Free"

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Una treccia di acciaio ad alto carico
COPERTURA: Una treccia tessile
SPECIFICHE: SAE 100 R5
OMOLOGAZIONI: GOST-R

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SPIRTEX/K

SAE 100 R4



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H30005016*	16	-10	5/8"	-	-	26,0	1,02	21	300	64	920	96	3,78	590	0,40	MF+M00310-10
H30005019*	19	-12	3/4"	-	-	29,0	1,14	21	300	84	1210	125	4,92	550	0,37	MF+M00310-12
H30005025*	25	-16	1"	-	-	35,0	1,38	17	240	70	1010	150	5,91	680	0,46	MF+M00920-16
H30005031*	31	-20	1.1/4"	-	-	42,0	1,65	14	200	56	810	200	7,87	840	0,56	MF+M00920-20
H30005038*	38	-24	1.1/2"	-	-	48,5	1,91	10	140	42	600	254	10,00	1024	0,69	MF+M00910-24
H30005051*	51	-32	2"	-	-	61,5	2,42	7	100	28	400	300	11,81	1420	0,95	MF+M00910-32
H30005063*	63	-40	2.1/2"	-	-	76,0	2,99	4	50	17	240	355	13,98	2150	1,44	MF+M03400-40
H30005076*	76	-48	3"	-	-	88,0	3,46	4	50	16	230	457	17,99	2850	1,92	MF+M03400-48
H30005090*	89	-56	3.1/2"	-	-	103,0	4,06	3	40	12	170	530	20,87	3450	2,32	*
H30005102*	102	-64	4"	-	-	115,0	4,53	2	20	10	140	610	24,02	3900	2,62	*

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Resistance to vacuum ■ New compact SAE 100 R4 architecture

Resistencia al vacío ■ Nueva estructura compacta acorde a Norma SAE 100 R4

Vakuumbeständig ■ Neue kompakte Ausführung nach SAE 100 R4

Resistenza al vuoto ■ Nuova architettura compatta a norma SAE 100 R4

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GB

MAIN APPLICATIONS
Suction lines, return lines
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two textile reinforcements with steel helical body wire
COVER: Environment resistant synthetic rubber
APPLICABLE SPECS.: SAE 100 R4
TYPE APPROVALS: GOST-R

ES

PRINCIPALES APLICACIONES
Líneas de succión, líneas de retorno
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceites con base en éster sintético, aceite en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Dos refuerzos textiles con cuerpo de acero helicoidal
CUBIERTA: Caucho sintético resistente a la intemperie
ESPECIFICACIONES APLICABLES: SAE 100 R4
APROBACIONES: GOST-R

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D

HAUPT-ANWENDUNGSGEBIET
Saugschlauch Rücklaufleitung
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
EMPFOHLENE MEDIEN
Mineralöl, Wasser, Öl auf Polyglykolbasis, Synthetik-Esterbasis, Rapsöl Wasser-/Ölemulsionen

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Zwei hochzugfeste Textileinlagen mit einer Federstahlspirale
DECKE: Umweltverträgliches synthetisches Gummi
ANGEWANDTE NORM: SAE 100 R4
ZULASSUNGEN: GOST-R

IT

PRINCIPALI APPLICAZIONI
Linee di aspirazione, linee di ritorno
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Due rinforzi tessili ad alto carico con filo acciaio in configurazione a spirale
COPERTURA: Gomma sintetica resistente agli agenti atmosferici
SPECIFICHE: SAE 100 R4
OMOLOGAZIONI: GOST-R

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MULTITEX

SAE 100 R6 EN 854 R6/1TE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H09067005*	5	-03	3/16"	-	-	11,0	0,43	35	500	140	2030	35	1,38	90	0,06	MF+M00820-03
H09067006*	6	-04	1/4"	-	-	12,6	0,50	30	430	120	1740	45	1,77	115	0,08	MF+M00830-04
H09067008*	8	-05	5/16"	-	-	14,1	0,56	30	430	120	1740	65	2,56	140	0,09	MF+M00830-05
H09067010*	10	-06	3/8"	-	-	15,8	0,62	30	430	120	1740	75	2,95	160	0,11	MF+M00820-06
H09067012*	12	-08	1/2"	-	-	19,4	0,76	30	430	120	1740	90	3,54	210	0,14	MF+M00820-08
H09067016*	16	-10	5/8"	-	-	23,0	0,91	30	430	120	1740	115	4,53	290	0,19	MF+M00820-10
H09067019*	19	-12	3/4"	-	-	26,0	1,02	30	430	120	1740	140	5,51	325	0,22	MF+M00820-12
H09067025*	25	-16	1"	-	-	32,0	1,26	30	430	120	1740	150	5,91	400	0,27	MF+M00820-16

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

High flexibility ■ Wide range of fluid compatibility ■ MF2000® Multifit type couplability ■ Push-On hose with MF2000® Push-Lock insert type without ferrule

Alta flexibilidad ■ Amplia gama de compatibilidad de aceite mineraly biológico ■ Tipo de conexiones MF2000® Multifit ■ Manguera Push-On con espiga tipo Push-Lock MF2000® sin férula

Hohe flexibilität ■ Weites Spektrum an Medienbeständigkeit ■ Einbindung mit MF2000® Multifit

Ottima flessibilità ■ Ampia compatibilità con vari tipi di fluidi ■ Compatibile con raccordi MF2000® tipo Multifit

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Working Pressure with Push-Lock fittings: DN 5, 6, 8, 10, 12, 16, 19: WP = 17 bar - DN 25: WP = 12 bar

Presión de trabajo con racores Push-Lock: DN 5, 6, 8, 10, 12, 16, 19: 17 bar - DN 25: 12 bar

Betriebsdruck mit Push-Lock Anschluss: DN 5, 6, 8, 10, 12, 16, 19: 17 bar - DN 25: 12 bar

Pressione di esercizio con fittings Push-Lock: DN 5, 6, 8, 10, 12, 16, 19: 17 bar - DN 25: 12 bar

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GB

MAIN APPLICATIONS
Low pressure lines, return lines, drain lines
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +257°F -40°C / +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: One high resistance textile braid
COVER: Environment resistant synthetic rubber
APPLICABLE SPECS.: SAE 100 R6 - EN 854 R6/1TE ISO 4079 R6/1TE
TYPE APPROVALS: GOST-R

ES

PRINCIPALES APLICACIONES
Líneas de baja presión, líneas de retorno, líneas de drenaje
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +257°F -40°C / +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceites con base en éster sintético, aceite en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Un refuerzo textil de alta resistencia
CUBIERTA: Caucho sintético resistente a la intemperie
ESPECIFICACIONES APLICABLES: SAE 100 R6 EN 854 R6/1TE - ISO 4079 R6/1TE
APROBACIONES: GOST-R

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Niederdruck Kreisläufe Rücklaufleitungen, Drainageleitung Steckschlauch Anwendungen
DAUERBETRIEB
-40°F / +257°F -40°C / +125°C
EMPFOHLENE MEDIEN
Mineralöl, Wasser, Öl auf Polyglykolbasis, Synthetik-Esterbasis, Rapsöl, Wasser/Ölemulsionen

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Ein Textilgeflecht
DECKE: Umweltverträgliches synthetisches Gummi
ANGEWANDTE NORM: SAE 100 R6 - EN 854 R6/1TE ISO 4079 R6/1TE
ZULASSUNGEN: GOST-R

IT

PRINCIPALI APPLICAZIONI
Linee a bassa pressione, linee di ritorno, linee di drenaggio
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +257°F -40°C / +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Una treccia tessile ad alta resistenza
COPERTURA: Gomma sintetica resistente agli agenti atmosferici
SPECIFICHE: SAE 100 R6 - EN 854 R6/1TE ISO 4079 R6/1TE
OMOLOGAZIONI: GOST-R

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ASTRO/2

EN 854 2TE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H09045006*	6	-04	1/4"	-	-	13,0	0,51	75	1080	300	4350	40	1,57	125	0,08	MF+M00830-04
H09045008*	8	-05	5/16"	-	-	14,6	0,57	68	980	272	3940	50	1,97	150	0,10	MF+M00830-05
H09045010*	10	-06	3/8"	-	-	16,1	0,63	63	910	252	3650	60	2,36	180	0,12	MF+M00820-06
H09045012*	12	-08	1/2"	-	-	19,2	0,76	58	840	232	3360	70	2,76	220	0,15	MF+M00820-08
H09045016*	16	-10	5/8"	-	-	23,6	0,93	50	720	200	2900	90	3,54	290	0,19	MF+M00820-10
H09045019*	19	-12	3/4"	-	-	26,5	1,04	45	650	180	2610	110	4,33	360	0,24	MF+M00820-12
H09045025*	25	-16	1"	-	-	33,4	1,31	40	580	160	2320	130	5,12	440	0,30	MF+M00820-16
H09045032*	31	-20	1.1/4"	-	-	41,5	1,63	35	500	140	2030	140	5,51	650	0,44	MF+M00820-20

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Wide range of fluid compatibility

Amplia gama de compatibilidad con varios tipos de fluidos

Weites Spektrum an Medienbeständigkeit

Ampia compatibilità con vari tipi di fluido

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GB

MAIN APPLICATIONS
Low pressure lines, return lines
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +257°F -40°C / +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: One high resistance textile braid
COVER: Environment resistant synthetic rubber
APPLICABLE SPECS.: EN 854 2TE - ISO 4079 2TE
TYPE APPROVALS: GL

ES

PRINCIPALES APLICACIONES
Líneas de baja presión, líneas de retorno
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +257°F -40°C / +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceites con base en éster sintético, aceite en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Una trenza textil de alta resistencia
CUBIERTA: Caucho sintético resistente a la intemperie
ESPECIFICACIONES APLICABLES: EN 854 2TE
ISO 4079 2TE
APROBACIONES: GL

FLUIDTECHNIK S.R.L 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Niederdruck-Reihe Rücklaufleitungen
DAUERBETRIEB
-40°F / +257°F -40°C / +125°C
EMPFOHLENE MEDIEN
Mineralöl, Wasser, Öl auf Polyglykolbasis, Synthetik-Esterbasis, Wasser/Ölemulsionen Rapsöl

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Ein Textilgeflecht
DECKE: Umweltverträgliches synthetisches Gummi
ANGEWANDTE NORM: EN 854 2TE - ISO 4079 2TE
ZULASSUNGEN: GL

IT

PRINCIPALI APPLICAZIONI
Linee a bassa pressione, linee di ritorno
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +257°F -40°C / +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Una treccia tessile ad alta resistenza
COPERTURA: Gomma sintetica resistente agli agenti atmosferici
SPECIFICHE: EN 854 2TE - ISO 4079 2TE
OMOLOGAZIONI: GL

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ASTRO/3

EN 854 3TE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H09046006*	6	-04	1/4″	-	-	14,2	0,56	145	2100	580	8410	45	1,77	150	0,10	MF+M00310-04
H09046008*	8	-05	5/16″	-	-	16,6	0,65	130	1880	520	7540	55	2,17	210	0,14	MF+M00310-05
H09046010*	10	-06	3/8″	-	-	18,2	0,72	110	1590	440	6380	70	2,76	230	0,15	MF+M00310-06
H09046012*	12	-08	1/2″	-	-	21,5	0,85	93	1340	372	5390	85	3,35	290	0,19	MF+M00310-08
H09046016*	16	-10	5/8″	-	-	25,6	1,01	80	1160	320	4640	105	4,13	395	0,27	MF+M00310-10
H09046019*	19	-12	3/4″	-	-	28,8	1,13	70	1010	280	4060	130	5,12	455	0,31	MF+M00310-12
H09046025*	25	-16	1″	-	-	35,4	1,39	55	790	220	3190	150	5,91	580	0,39	MF+M00310-16
H09046032*	31	-20	1.1/4″	-	-	42,5	1,67	45	650	180	2610	190	7,48	740	0,50	MF+M00310-20
H09046040*	38	-24	1.1/2″	-	-	49,4	1,94	40	580	160	2320	240	9,45	920	0,62	MF+M00910-24
H09046051*	51	-32	2″	-	-	62,2	2,45	33	470	132	1910	300	11,81	1140	0,77	MF+M00910-32

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Wide range of fluid compatibility

Amplia gama de compatibilidad con varios tipos de fluidos

Weites Spektrum an Medienbeständigkeit

Ampia compatibilità con vari tipi di fluido

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MAIN APPLICATIONS
Low-medium pressure lines, return lines
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +257°F -40°C / +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two high resistance textile braids
COVER: Environment resistant synthetic rubber
APPLICABLE SPECS.: EN 854 3TE - ISO 4079 3TE
TYPE APPROVALS: GL

BWB: Approval available upon request

ES

PRINCIPALES APLICACIONES
Líneas de baja y media presión, líneas de retorno
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +257°F -40°C / +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceites con base en éster sintético, aceite en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Dos trenzas textiles de alta resistencia
CUBIERTA: Caucho sintético resistente a la intemperie
ESPECIFICACIONES APLICABLES: EN 854 3TE
ISO 4079 3TE
APROBACIONES: GL

BWB: Aprobaciones disponible bajo pedido

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Nieder und Mitteldruck-Kreisläufe Rücklaufleitung
DAUERBETRIEB
-40°F / +257°F -40°C / +125°C
EMPFOHLENE MEDIEN
Mineralöl, Wasser, Öl auf Polyglykolbasis, Synthetik-Esterbasis, Wasser/Ölemulsionen Rapsöl

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Zwei Textilgeflechte
DECKE: Umweltverträgliches synthetisches Gummi
ANGEWANDTE NORM: EN 854 3TE - ISO 4079 3TE
ZULASSUNGEN: GL

BWB: Zulassungen auf Anfrage

IT

PRINCIPALI APPLICAZIONI
Linee a bassa-media pressione, linee di ritorno
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +257°F -40°C / +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Due trecce tessili ad alta resistenza
COPERTURA: Gomma sintetica resistente agli agenti atmosferici
SPECIFICHE: EN 854 3TE - ISO 4079 3TE
OMOLOGAZIONI: GL

BWB: Omologazione disponibile su richiesta

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HYDROPLAST

EN 855 R7



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H30010005*	5	-03	3/16"	-	-	10,2	0,40	210	3040	840	12180	35	1,38	80	0,05	MF+M00820-03
H30010006*	6	-04	1/4"	-	-	12,0	0,47	192	2780	770	11160	50	1,97	95	0,06	MF+M00830-04
H30010008*	8	-05	5/16"	-	-	14,3	0,56	187	2710	750	10870	55	2,17	135	0,09	MF+M00830-05
H30010010*	10	-06	3/8"	-	-	16,3	0,64	175	2530	700	10150	75	2,95	165	0,11	MF+M00820-06
H30010012*	12	-08	1/2"	-	-	20,3	0,80	140	2030	560	8120	95	3,74	225	0,15	MF+M00820-08

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

High flexibility ■ Tight bend radius ■ Excellent abrasion resistance

Gran flexibilidad ■ Reducido radio de curvatura ■ Excelente resistencia a la abrasión

Äußerst flexibel ■ Enger Biegeradius ■ Exzellente Abriebbeständigkeit

Ottima flessibilità ■ Raggio di curvatura ridotto ■ Elevata resistenza all'abrasione

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MAIN APPLICATIONS
Medium pressure hydraulic applications, hoisting, hydraulic transmission
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
+212°F +100°C for oil,
+149°F +65°C for air, water and water based fluids
RECOMMENDED FLUIDS
Mineral and biological oils, ASTM 1, ASTM 3, polyglycol based oils, water, water oil emulsions

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant thermoplastic Elastomer
REINFORCEMENT: Two polyester braids
COVER: Thermoplastic elastomer with high ozone and abrasion resistance
APPLICABLE SPECS.: EN 855 R7, SAE 100R7
TYPE APPROVALS: GOST-R

ES

PRINCIPALES APLICACIONES
Líneas de media presión hidráulica, montacargos y transmisión hidráulica
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
+212°F +100°C para aceite,
+149°F +65°C para aire, agua y liquídos con base de agua
FLUIDOS RECOMENDADOS
Aceite mineral y biologico, ASTM 1, ASTM 3, polyglicol en base de aceite, agua, aceite en emulsion acuosa

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Elastomero termoplastico, resistente al aceite
REFUERZO: Dos trenzas de poliester
CUBIERTA: Elastomero termoplástico resistente al ozono ya la abrasión
ESPECIFICACIONES APLICABLES: EN 855 R7, SAE 100R7
APROBACIONES: GOST-R

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Mittlere Hochdruck-Kreisläufe, Winden, Hydraulikgetriebe, Gabelstapler
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
+212°F +100°C für Öl,
+149°F +65°C für Luft, Wasser und Flüssigkeiten auf Wasserbasis
EMPFOHLENE MEDIEN
Mineralöl, Bioöl, ASTM 1, ASTM 3, Öl auf Polyglykolbasis, Wasser, Wasser/Ölemulsion

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges Thermoplastik Elastomer
DRUCKTRÄGER: Zwei Polyester Geflechte
DECKE: Thermoplastik Elastomer mit hoher Ozonund Abriebbeständigkeit
ANGEWANDTE NORM: EN 855 R7, SAE 100R7
ZULASSUNGEN: GOST-R

IT

PRINCIPALI APPLICAZIONI
Applicazioni idrauliche a medie pressioni, sollevamento, trasmissioni idrauliche
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
+212°F +100°C per oli,
+149°F +65°C per aria, acqua e oli in emulsione acquosa
FLUIDI RACCOMANDATI
Oli minerali e biologici, ASTM1, ASTM3, oli a base di poliglicoli, acqua, oli in emulsione acquosa

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Elastomero termoplastico resistente agli oli
RINFORZO: Due trecce di poliestere
COPERTURA: Elastomero termoplastico con elevata resistenza all'ozono e all'abrasione
SPECIFICHE: EN 855 R7, SAE 100R7
OMOLOGAZIONI: GOST-R

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HYDROTWIN

EN 855 R7



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H30011005*	5	-03	3/16"	-	-	10,2	0,40	210	3040	840	12180	35	1,38	160	0,11	MF+M00820-03
H30011006*	6	-04	1/4"	-	-	12,0	0,47	192	2780	770	11170	50	1,97	190	0,13	MF+M00830-04
H30011008*	8	-05	5/16"	-	-	14,3	0,56	187	2710	750	10870	55	2,17	270	0,18	MF+M00830-05
H30011010*	10	-06	3/8"	-	-	16,3	0,64	175	2530	700	10150	75	2,95	330	0,22	MF+M00820-06
H30011012*	12	-08	1/2"	-	-	20,3	0,80	140	2030	560	8120	95	3,74	450	0,30	MF+M00820-08

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

High flexibility ■ Tight bend radius ■ Excellent abrasion resistance ■ Twin version

Gran flexibilidad ■ Reducido radio de curvatura ■ Excelente resistencia a la abrasión ■ Versión gemela

Hohe Flexibilität ■ Enger Biegeradius ■ Exzellente Abriebbeständigkeit ■ Doppelschlauch Ausführung

Ottima flessibilità ■ Raggio di curvatura ridotto ■ Elevata resistenza all'abrasione ■ Versione binata

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MAIN APPLICATIONS
Medium pressure hydraulic applications, hoisting, hydraulic transmission
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
+212°F +100°C for oil,
+149°F +65°C for air, water and water based fluids
RECOMMENDED FLUIDS
Mineral and biological oils, ASTM 1, ASTM 3, polyglycol based oils, water, water oil emulsions

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant thermoplastic elastomer
REINFORCEMENT: Two polyester braids
COVER: Thermoplastic elastomer with high ozone and abrasion resistance
APPLICABLE SPECS.: EN 855 R7, SAE 100R7
TYPE APPROVALS: GOST-R

ES

PRINCIPALES APLICACIONES
Líneas de median presión hidráulica, montacargas y transmisión hidráulica
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
+212°F +100°C para aceite,
+149°F +65°C para aire, agua y liquídos con base de agua
FLUIDOS RECOMENDADOS
Aceite mineral y biologico, ASTM 1, ASTM 3, polyglicol en base de aceite, agua, aceite en emulsion acuosa

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Elastomero termoplastico, resistente al aceite
REFUERZO: Dos trenzas de poliester
CUBIERTA: Elastomero termoplástico resistente al ozono y a la abrasión
ESPECIFICACIONES APLICABLES: EN 855 R7, SAE 100R7
APROBACIONES: GOST-R

FLUIDTECHNIK S.R.L 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Mittlere Hochdruck-Kreisläufe, Winden, Hydraulikgetriebe, Gabelstapler
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
+212°F +100°C für Öl,
+149°F +65°C für Luft, Wasser und Flüssigkeiten auf Wasserbasis
EMPFOHLENE MEDIEN
Mineralöl, Bioöl, ASTM 1, ASTM 3, Öl auf Polyglykolbasis, Wasser, Wasser/Ölemulsion

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges Thermoplastik Elastomer
DRUCKTRÄGER: Zwei Polyester Geflechte
DECKE: Thermoplastik Elastomer mit hoher Ozon und Abriebbeständigkeit
ANGEWANDTE NORM: EN 855 R7, SAE 100R7
ZULASSUNGEN: GOST-R

IT

PRINCIPALI APPLICAZIONI
Applicazioni idrauliche a medie pressioni, sollevamento, trasmissioni idrauliche
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
+212°F +100°C per oli,
+149°F +65°C per aria, acqua e oli in emulsione acquosa
FLUIDI RACCOMANDATI
Oli minerali e biologici, ASTM1, ASTM3, oli a base di poliglicoli, acqua, oli in emulsione acquosa

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Elastomero termoplastico resistente agli oli
RINFORZO: Due trecce di poliestere
COPERTURA: Elastomero termoplastico con elevata resistenza all'ozono e all'abrasione
SPECIFICHE: EN 855 R7, SAE 100R7
OMOLOGAZIONI: GOST-R

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HOSES

Extreme traditional



Fluid connectors, solid solutions
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ROCKMASTER®/1SN

ABRASION, WEATHER & HEAT RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01007006*	6	-04	1/4"	11,0	0,43	13,0	0,51	225	3260	1000	14500	100	3,94	215	0,14	MF+M03400-04
H01007008*	8	-05	5/16"	12,6	0,50	14,6	0,57	215	3110	950	13770	114	4,49	260	0,17	MF+M03400-05
H01007010*	10	-06	3/8"	15,0	0,59	17,0	0,67	180	2610	800	11600	127	5,00	320	0,22	MF+M03400-06
H01007012*	12	-08	1/2"	18,1	0,71	20,1	0,79	160	2320	680	9860	178	7,01	400	0,27	MF+M03400-08
H01007016*	16	-10	5/8"	21,3	0,84	23,3	0,92	130	1880	600	8700	200	7,87	480	0,32	MF+M03400-10
H01007019*	19	-12	3/4"	25,3	1,00	27,3	1,07	105	1520	500	7250	240	9,45	600	0,40	MF+M03400-12
H01007025*	25	-16	1"	33,1	1,30	35,1	1,38	90	1300	360	5220	300	11,81	910	0,61	MF+M03400-16
H01007032*	31	-20	1.1/4"	40,6	1,60	43,3	1,70	65	940	260	3770	419	16,50	1240	0,83	MF+M03400-20
H01007040*	38	-24	1.1/2"	47,0	1,85	49,7	1,96	50	720	260	3770	500	19,69	1450	0,97	MF+M03400-24
H01007051*	51	-32	2"	60,4	2,38	63,1	2,48	40	580	250	3620	630	24,80	2050	1,38	MF+ M03400-32
H01007060*	60	-38	2.3/8"	68,8	2,71	71,5	2,81	50	720	200	2900	650	25,59	2190	1,47	MF+M03400-38

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Superior abrasion resistance ■ High ozone and weather resistance ■ Flame resistance to a wide range of spec. ■ Antistatic and antitoxic cover

Superior resistencia a la abrasión ■ Alta resistencia al ozono y a la intemperie ■ Resistencia a la llama en una amplia gama de especificaciones ■ Cubierta antiestática y atóxica

Überragende Abriebbeständigkeit ■ Hohe Ozon und- Wetterbeständigkeit ■ Flammbeständig nach vielen Normen ■ Antistatisch und antitoxische Decke

Estrema resistenza all'abrasione ■ Elevata resistenza all'ozono e agli agenti atmosferici ■ Resistenza alla propagazione di fiamma in accordo a molteplici norme ■ Copertura antistatica e atossica

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MAIN APPLICATIONS
Low-medium pressure lines, return lines, in heavy duty environmental conditions, specific installations with severe abrasion conditions, marine applications, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: One high tensile steel braid
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: Exceed EN 853 1SN - SAE 100 R1AT - ISO 1436 1SN/R1AT
TYPE APPROVALS: BV, DNV, DNV MED (DN 5÷16), FRAS, GOST-R, LOBA, MSHA

ES

PRINCIPALES APLICACIONES
Líneas de baja y media presión, líneas de retorno, en condiciones ambientales de trabajo pesado, instalaciones especificas con condiciones de abrasión severa, aplicaciones marinas, en minas subterráneas y minas a cielo abierto
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceite basado en éster sintético, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético resistente al aceite
REFUERZO: Un refuerzo trenzado de acero de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Excede EN 853 1SN - SAE 100 R1AT - ISO 1436 1SN/R1AT
APROBACIONES: BV, DNV, DNV MED (DN 5÷16), FRAS, GOST-R, LOBA, MSHA

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HAUPT-ANWENDUNGSGEBIET
Niedriger und mittlerer Druckbereich, Rücklaufleitung, Installationen mit hohem Abrieb, Schiffbau, Bergbau und Tagebau
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Rapsöl, Glykol, Öl auf Polyglykolbasis, Synthetik-Esterbasis, Wasser/Ölemulsion, Wasser

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Ein hochzugfestes Stahldrahtgeflecht
DECKE: Synthetisches Gummi mit hoher Ozon-, Wetter- und Temperaturbeständigkeit
ANGEWANDTE NORM: Übertrifft EN 853 1SN - SAE 100 R1AT - ISO 1436 1SN/R1AT
ZULASSUNGEN: BV, DNV, DNV MED (DN 5÷16), FRAS, GOST-R, LOBA, MSHA

IT

PRINCIPALI APPLICAZIONI
Linee a medio-bassa pressione, linee di ritorno, applicazioni in severe condizioni ambientali e di abrasione, applicazioni marine, miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Una treccia di acciaio ad alto carico
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore
SPECIFICHE: Eccede EN 853 1SN - SAE 100 R1AT - ISO 1436 1SN/R1AT
OMOLOGAZIONI: BV, DNV, DNV MED (DN 5÷16), FRAS, GOST-R, LOBA, MSHA

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ROCKMASTER®/2SN

ABRASION, WEATHER & HEAT RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01038006*	6	-04	1/4"	12,7	0,50	14,7	0,58	400	5800	1750	25380	50	1,97	365	0,25	MF+M03400-04
H01038008*	8	-05	5/16"	14,3	0,56	16,3	0,64	350	5070	1480	21460	60	2,36	405	0,27	MF+M03400-05
H01038010*	10	-06	3/8"	16,7	0,66	18,7	0,74	350	5070	1400	20300	70	2,76	530	0,36	MF+M03400-06
H01038012*	12	-08	1/2"	19,8	0,78	21,8	0,86	350	5070	1400	20300	89	3,50	650	0,44	MF+M03400-08
H01038016*	16	-10	5/8"	23,0	0,91	25,0	0,98	250	3620	1020	14790	100	3,94	720	0,48	MF+M03400-10
H01038019*	19	-12	3/4"	27,0	1,06	29,0	1,14	215	3110	900	13050	130	5,12	930	0,62	MF+M03400-12
H01038025*	25	-16	1"	34,8	1,37	36,8	1,45	175	2530	670	9710	160	6,30	1290	0,87	MF+M03400-16
H01038032*	31	-20	1.1/4"	44,3	1,74	47,0	1,85	140	2030	600	8700	419	16,50	1930	1,30	MF+M03400-20
H01038040*	38	-24	1.1/2"	50,7	2,00	53,4	2,10	100	1450	500	7250	500	19,69	2230	1,50	MF+M03400-24
H01038051*	51	-32	2"	63,5	2,50	66,2	2,61	90	1300	420	6090	630	24,80	2880	1,94	MF+M03400-32
H01038060*	60	-38	2.3/8"	68,8	2,71	71,5	2,81	90	1300	360	5220	650	25,59	2670	1,79	MF+M03400-38

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Superior abrasion resistance ■ High ozone and weather resistance ■ Flame resistance to a wide range of spec. ■ Antistatic and antitoxic cover ■ Over standard pressure resistance

Superior resistencia a la abrasión ■ Alta resistencia al ozono y a la intemperie ■ Resistencia a la llama en una amplia gama de especificaciones ■ Cubierta antiestática y atóxica ■ Resistencia a la presión superior a lo indicado en la Norma

Überragende Abriebbeständigkeit ■ Hohe Ozon- und Wetterbeständigkeit ■ Flammbeständig nach vielen Normen ■ Antistatische und antitoxische Decke ■ Druckbeständigkeit über EN-Norm

Estrema resistenza all'abrasione ■ Elevata resistenza all'ozono e agli agenti atmosferici ■ Resistenza alla propagazione di fiamma in accordo a molteplici norme ■ Copertura antistastica e atossica ■ Resistenza a pressioni elevate

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MAIN APPLICATIONS
Medium-high pressure lines in heavy duty environmental conditions, specific installations with severe abrasion conditions, marine applications, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two high tensile steel braids
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: Exceed EN 853 2SN - SAE 100 R2AT - ISO 1436 2SN/R2AT
TYPE APPROVALS: BV, DNV, DNV MED (DN 5÷16), FRAS, GOST-R, LOBA, MSHA, RINA (DN 38÷51), Ⓑ (DN 6÷60), DGMS

ES

PRINCIPALES APLICACIONES
Líneas de media y alta presión en condiciones ambientales de trabajo pesado, instalaciones especificas con condiciones de abrasión severa, aplicaciones marinas, minas subterráneas y minas a cielo abierto
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceite basado en éster sintético, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético resistente al aceite
REFUERZO: Dos trenzas de acero de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Excede EN 853 2SN - SAE 100 R2AT - ISO 1436 2SN/R2AT
APROBACIONES: BV, DNV, DNV MED (DN 5÷16), FRAS, GOST-R, LOBA, MSHA, RINA (DN 38÷51), Ⓑ (DN 6÷60), DGMS

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Mittlerer Hochdruckbereich mit eingeschränkten Installationsmöglichkeiten bei schwersten Einsatzbedingungen, Installationen mit hohem Abrieb, Schiffbau, Bergbau und Tagebau
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Rapsöl, Glykol, Öl auf Polyglykolbasis, Synthetik-Esterbasis, Wasser/Ölemulsion, Wasser

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Zwei hochzugfeste Stahldrahtgeflechte
DECKE: Synthetisches Gummi mit hoher Ozon-, Wetter- und Temperaturbeständigkeit
ANGEWANDTE NORM: Übertrifft EN 853 2SN - SAE 100 R2AT - ISO 1436 2SN/R2AT
ZULASSUNGEN: BV, DNV, DNV MED (DN 5÷16), FRAS, GOST-R, LOBA, MSHA, RINA (DN 38÷51), Ⓑ (DN 6÷60), DGMS

IT

PRINCIPALI APPLICAZIONI
Linee a medio-alta pressione in severe condizioni ambientali, applicazioni specifiche in severe condizioni di abrasione, applicazioni marine, miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Due trecce di acciaio ad alto carico
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore
SPECIFICHE: Eccede EN 853 2SN -SAE 100 R2AT - ISO 1436 2SN/R2AT
OMOLOGAZIONI: BV, DNV, DNV MED (DN 5÷16), FRAS, GOST-R, LOBA, MSHA, RINA (DN 38÷51), Ⓑ (DN 6÷60), DGMS

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ROCKMASTER®/2ST

ABRASION, WEATHER & HEAT RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01035005*	5	-03	3/16"	11,3	0,44	15,6	0,61	415	6010	2000	29000	89	3,50	385	0,26	MF+M00910-03
H01035006*	6	-04	1/4"	12,7	0,50	17,2	0,68	400	5800	1750	25380	100	3,94	450	0,30	MF+M00910-04
H01035008*	8	-05	5/16"	14,3	0,56	18,9	0,74	350	5070	1480	21460	114	4,49	500	0,34	MF+M00910-05
H01035010*	10	-06	3/8"	16,7	0,66	21,3	0,84	350	5070	1400	20300	127	5,00	640	0,43	MF+M00910-06
H01035012*	12	-08	1/2"	19,8	0,78	24,5	0,96	350	5070	1400	20300	178	7,01	790	0,53	MF+M00910-08
H01035016*	16	-10	5/8"	23,0	0,91	27,7	1,09	250	3620	1020	14790	200	7,87	870	0,58	MF+M00910-10
H01035019*	19	-12	3/4"	27,0	1,06	31,6	1,24	215	3110	900	13050	240	9,45	1100	0,74	MF+M00920-12
H01035025*	25	-16	1"	34,8	1,37	39,5	1,56	175	2530	670	9710	300	11,81	1510	1,01	MF+M00920-16
H01035032*	31	-20	1.1/4"	44,3	1,74	50,6	1,99	140	2030	600	8700	419	16,50	2310	1,55	MF+M00920-20
H01035040*	38	-24	1.1/2"	50,7	2,00	57,0	2,24	100	1450	500	7250	500	19,69	2650	1,78	MF+M00910-24
H01035051*	51	-32	2"	63,5	2,50	69,8	2,75	90	1300	420	6090	630	24,80	3410	2,29	MF+M00910-32

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Superior abrasion resistance ■ High ozone and weather resistance ■ Flame resistance to a wide range of spec. ■ Antistatic and antitoxic cover ■ Over standard pressure resistance

Superior resistencia a la abrasión ■ Alta resistencia al ozono y a la intemperie ■ Resistencia a la llama en una amplia gama de especificaciones ■ Cubierta antiestática y atóxica ■ Resistencia a la presión superior a lo indicado en la Norma

Überragende Abriebbeständigkeit ■ Hohe Ozon- und Wetterbeständigkeit ■ Flammbeständig nach vielen Normen ■ Antistatische und antitoxische Decke ■ Druckbeständigkeit über EN-Norm

Estrema resistenza all'abrasione ■ Elevata resistenza all'ozono e agli agenti atmosferici ■ Resistenza alla propagazione di fiamma in accordo a molteplici norme ■ Copertura antistastica e atossica ■ Resistenza a pressioni superiori elevate

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MAIN APPLICATIONS
Medium-high pressure lines in heavy duty environmental conditions, specific installations with severe abrasion conditions, marine applications, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two high tensile steel braids
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: Exceed EN 853 2ST - SAE 100 R2A - ISO 1436 2ST/R2A
TYPE APPROVALS: BV, GOST-R, LOBA, LR, (B) (DN 6÷51), MSHA, FRAS

ES

PRINCIPALES APLICACIONES
Líneas de media y alta presión en condiciones ambientales de trabajo pesado, instalaciones especificas con condiciones de abrasión severa, aplicaciones marinas, minas subterráneas y minas a cielo abierto
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceite basado en éster sintético, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético resistente al aceite
REFUERZO: Dos trenzas de acero de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Excede EN 853 2ST - SAE 100 R2A - ISO 1436 2ST/R2A
APROBACIONES: BV, FRAS, GOST-R, LOBA, LR, (B) (DN 6÷51), MSHA, FRAS

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D

HAUPT-ANWENDUNGSGEBIET
Mittlerer Hochdruckbereich, Rücklaufleitung, Installationen mit hohem Abrieb, Schiffbau, Bergbau und Tagebau
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Rapsöl, Glykol, Öl auf Polyglykolbasis, Synthetik-Esterbasis, Wasser/Ölemulsion, Wasser

NIPPEL: MF2000® - MULTIFIT
SEELE: Zwei hochzugfeste Stahldrahtgeflechte
DRUCKTRÄGER: Ölbeständiges synthetisches Gummi
DECKE: Synthetisches Gummi mit hoher Ozon-, Wetter- und Temperaturbeständigkeit
ANGEWANDTE NORM: Übertrifft EN 853 2ST - SAE 100 R2A - ISO 1436 2ST/R2A
ZULASSUNGEN: BV, GOST-R, LOBA, LR, (B) (DN 6÷51), MSHA, FRAS

IT

PRINCIPALI APPLICAZIONI
Linee a medio-alta pressione in severe condizioni ambientali, applicazioni specifiche in severe condizioni di abrasione, applicazioni marine, miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli
RINFORZO: Due trecce di acciaio ad alto carico
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore
SPECIFICHE: Eccede EN 853 2ST - SAE 100 R2A - ISO 1436 2ST/R2A
OMOLOGAZIONI: BV, GOST-R, LOBA, LR, (B) (DN 6÷51), MSHA, FRAS

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ROCKMASTER®/2PLUS

ABRASION, WEATHER & HEAT RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01101006*	6	-04	1/4"	11,3	0,44	13,1	0,52	450	6520	1800	26100	45	1,77	275	0,18	MF+M03400-04
H01101010*	10	-06	3/8"	16,7	0,66	18,5	0,73	400	5800	1600	23200	127	5,00	520	0,35	MF+M00910-06
H01101012*	12	-08	1/2"	20,1	0,79	22,1	0,87	362	5250	1450	21030	150	5,91	700	0,47	MF+M00910-08
H01101016*	16	-10	5/8"	23,2	0,91	25,2	0,99	340	4930	1360	19720	200	7,87	860	0,58	MF+M00910-10
H01101019*	19	-12	3/4"	27,1	1,07	29,3	1,15	310	4490	1240	17980	230	9,06	1060	0,71	MF+M00920-12
H01101025*	25	-16	1"	35,1	1,38	37,8	1,49	240	3480	960	13920	300	11,81	1570	1,06	MF+M00920-16
H01101032*	31	-20	1.1/4"	44,5	1,75	47,2	1,86	175	2530	700	10150	380	14,96	2120	1,42	MF+M00920-20
H01101038*	38	-24	1.1/2"	51,0	2,01	53,7	2,11	146	2110	584	8460	450	17,72	2460	1,65	MF+M00910-24
H01101051*	51	-32	2"	62,8	2,47	65,5	2,58	130	1880	530	7680	600	23,62	3090	2,08	MF+M00910-32
H01101076*	76	-48	3"	87,8	3,46	91,4	3,60	70	1010	280	4060	500	19,69	4030	2,71	MF+M03400-48 skive solution

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Superior abrasion resistance ■ High ozone and weather resistance ■ Flame resistance to a wide range of spec. ■ Antistatic and antitoxic cover ■ Superior pressure rating ■ Skive fittings solution

Superior resistencia a la abrasión ■ Alta resistencia al ozono y a la intemperie ■ Resistencia a la llama en una amplia gama de especificaciones ■ Cubierta antiestática y atóxica ■ Resistencia a la presión superior a lo indicado en la Norma ■ Conexiones para mangueras que requieren pelarse

Überragende Abrieb-, und Temperaturbeständigkeit Hohe Ozon- und Wetterbeständigkeit ■ Flammbeständig nach vielen Normen ■ Antistatische und antitoxische Decke ■ Höherer Druckleistungsbereich ■ Einbindungslösung mit Schälfassung

Estrema resistenza all'abrasione ■ Elevata resistenza all'ozono e agli agenti atmosferici ■ Resistenza alla propagazione di fiamma in accordo a molteplici norme ■ Copertura antistatica e atossica ■ Ottime pressioni d'esercizio ■ Soluzione di raccordi con asportazione copertura

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MAIN APPLICATIONS
High pressure lines with installation constraints in heavy duty environmental conditions, specific installations with severe abrasion conditions, marine applications, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two high tensile steel braids
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: MANULI® Design:
Exceed ISO 1436-2SN, EN 853-2SN, SAE J517 type 100 R2 AT. Performance BCS 174, ISO 6805 type 4
TYPE APPROVALS: BV, DNV, GOST-R, LR, MSHA, FRAS, MA, LOBA

ES

PRINCIPALES APLICACIONES
Líneas de alta presión en condiciones ambientales de trabajo pesado, instalaciones especificas con condiciones de abrasión severa, aplicaciones marinas, minas subterráneas y minas a cielo abierto
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceite basado en éster sintético, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético resistente al aceite
REFUERZO: Dos refuerzos trenzados de acero de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Diseño MANULI®:
Excede ISO 1436-2SN, EN 853-2SN, SAE J517 tipo 100 R2 AT. Performance BCS 174, ISO 6805 type 4
APROBACIONES: BV, DNV, GOST-R, LR, MSHA, FRAS, MA, LOBA

FLUIDTECHNIK S.R.L. 0723 382 199

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HAUPT-ANWENDUNGSGEBIET
Hochdruckbereich mit eingeschränkten Installationsmöglichkeiten bei schwersten Einsatzbedingungen, Installationen mit hohem Abrieb, Schiffbau, Bergbau und Tagebau
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Rapsöl, Glykol, Öl auf Polyglykolbasis, Synthetik-Esterbasis, Wasser/Ölemulsion, Wasser

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Zwei hochzugfeste Stahldrahtgeflechte
DECKE: Synthetisches Gummi mit hoher Ozon-, Wetter- und Temperaturbeständigkeit
ANGEWANDTE NORM: MANULI® Design:
Übertrifft ISO 1436-2SN, EN 853-2SN, SAE J517 Typ 100 R2 AT. Performance BCS 174, ISO 6805 Typ 4
ZULASSUNGEN: BV, DNV, GOST-R, LR, MSHA, FRAS, MA, LOBA

IT

PRINCIPALI APPLICAZIONI
Linee ad alta pressione con difficoltà di installazione in severe condizioni ambientali, applicazioni specifiche in severe condizioni di abrasione, applicazioni marine, miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Due trecce di acciaio ad alto carico
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore
SPECIFICHE: MANULI® Design:
Eccede ISO 1436-2SN, EN 853-2SN, SAE J517 tipo 100 R2 AT. Performance BCS 174, ISO 6805 tipo 4
OMOLOGAZIONI: BV, DNV, GOST-R, LR, MSHA, FRAS, MA, LOBA

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ROCKMASTER®/1SC

ABRASION, WEATHER & HEAT RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01108006*	6	-04	1/4"	10,2	0,40	12,0	0,47	260	3770	1050	15220	50	1,97	180	0,12	MF+M00120-04
H01108008*	8	-05	5/16"	11,5	0,45	13,6	0,54	250	3620	1000	14500	55	2,17	210	0,14	MF+M00120-05
H01108010*	10	-06	3/8"	13,6	0,54	15,5	0,61	225	3260	900	13050	60	2,36	255	0,17	MF+M00120-06
H01108012*	12	-08	1/2"	17,3	0,68	19,1	0,75	190	2750	760	11020	70	2,76	355	0,24	MF+M00820-08
H01108016*	16	-10	5/8"	20,6	0,81	22,4	0,88	150	2170	600	8700	90	3,54	430	0,29	MF+M00820-10
H01108019*	19	-12	3/4"	23,9	0,94	25,9	1,02	150	2170	600	8700	100	3,94	520	0,35	MF+M00820-12
H01108025*	25	-16	1"	31,3	1,23	33,1	1,30	110	1590	440	6380	160	6,30	730	0,49	MF+M00820-16
H01108031*	31	-20	1.1/4"	38,4	1,51	40,9	1,61	75	1080	300	4350	210	8,27	1040	0,70	MF+M00820-20
H01108038*	38	-24	1.1/2"	45,0	1,77	47,5	1,87	50	720	200	2900	300	11,81	1170	0,79	MF+M00820-24
H01108051*	51	-32	2"	58,0	2,28	60,5	2,38	50	720	200	2900	400	15,75	1560	1,05	MF+M00820-32

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

New compact one wire braid hose line ■ High temperature resistance for the most severe service and OEM applications ■ Working pressure exceeds 1SC standards ■ Superior protection with ROCKMASTER® cover compound ■ High ozone and weather resistance ■ Flame resistance to a wide range of spec. ■ Antistatic and antitoxic cover ■ Vacuum resistance with SAE 100 R4 performance approved on sizes up to DN 31

Nueva manguera compacta de una trenza de alambre ■ Resistencia a altas temperaturas, trabajo pesado y aplicaciones requeridas por fabricantes de equipo original (OEM) ■ La presión de trabajo excede los estándares 1SC ■ El compuesto de la cubierta de la ROCKMASTER® ofrece protección superior ■ Alta resistencia al ozono y a la intemperie ■ Resistencia a la llama en una amplia gama de especificaciones ■ Cubierta antiestática y atóxica ■ Resistencia al vacio (SAE 100 R4) aprobada para los tamaños hasta DN 31

Neuer, kompakter 1-Draht Schlauch ■ Hohe Temperaturbeständigkeit erfüllt auch schwere Einsatzbedingungen und OEM Anforderungen ■ Betriebsdruck übertrifft EN 857 1SC Standards um höheren Anforderungen gerecht zu werden ■ Bestmöglicher Schutz durch Rockmaster® Außengummi ■ Hohe Ozon- und Wetterbeständigkeit ■ Flammbeständig nach vielen Normen ■ Antistatische und antitoxische Decke ■ Unterdruckbeständigkeit gemäß SAE 100 R4 geprüft und und freigegeben für Nennweiten bis DN31

Gamma di tubi compatti a una treccia ■ Resistenza elevata alle alte temperature per le applicazioni OEM più severe ■ Pressione d'esercizio superiore alla norma EN 857 1SC ■ Ottima protezione grazie alla copertura Rockmaster® ■ Elevata resistenza all'ozono e agli agenti atmosferici ■ Resistenza alla propagazione di fiamma in accordo a molteplici norme ■ Copertura antistastica e atossica ■ Resistenza al vuoto in accordo a SAE 100 R4, approvata fino al DN 31

manuli® HYDRAULICS
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MAIN APPLICATIONS
Low-medium pressure lines with installation constraints in heavy duty environmental conditions, specific installations with severe abrasion conditions, marine applications, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +250°F -40°C / +121°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: One high tensile steel braid
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: Exceed EN 857 1SC - ISO 11237 1SC
TYPE APPROVALS: LR, GOST-R, MSHA, FRAS, LOBA

ES

PRINCIPALES APLICACIONES
Líneas de baja y media presión, líneas de retorno, en condiciones ambientales de trabajo pesado, instalaciones especificas con condiciones de abrasión severa, aplicaciones marinas, en minas subterráneas y minas a cielo abierto
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +250°F -40°C / +121°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceite basado en éster sintético, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético resistente al aceite
REFUERZO: Un refuerzo trenzado de acero de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Exceed EN 857 1SC - ISO 11237 1SC
APROBACIONES: LR, GOST-R, MSHA, FRAS, LOBA

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Niedriger und mittlerer Druckbereich mit eingeschränkten Installationsmöglichkeiten bei schwersten Einsatzbedingungen, Installationen mit hohem Abrieb, Schiffbau, Bergbau und Tagebau
DAUERBETRIEB
-40°F / +250°F -40°C / +121°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Rapsöl, Glykol, Öl auf Polyglykolbasis, Synthetik-Esterbasis, Wasser/Ölemulsion, Wasser

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Ein hochzugfestes Stahldrahtgeflecht
DECKE: Synthetisches Gummi mit hoher Ozon-, Wetter- und Temperaturbeständigkeit
ANGEWANDTE NORM: Übertrifft EN 857 1SC - ISO 11237-1 1SC
ZULASSUNGEN: LR, GOST-R, MSHA, FRAS, LOBA

IT

PRINCIPALI APPLICAZIONI
Linee a medio-bassa pressione in severe condizioni ambientali, applicazioni specifiche in severe condizioni di abrasione, applicazioni marine, miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +250°F -40°C / +121°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Una treccia di acciaio ad alto carico
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore
SPECIFICHE: Eccede EN 857 1SC - ISO 11237-1 1SC
OMOLOGAZIONI: LR, GOST-R, MSHA, FRAS, LOBA

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ROCKMASTER®/2SC

ABRASION, WEATHER & HEAT RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01030005*	5	-03	3/16"	9,7	0,38	11,5	0,45	420	6090	2000	29000	40	1,57	220	0,15	MF+M03400-03
H01030006*	6	-04	1/4"	11,3	0,44	13,1	0,52	400	5800	1850	26830	45	1,77	275	0,18	MF+M03400-04
H01030008*	8	-05	5/16"	12,9	0,51	14,7	0,58	350	5070	1700	24650	55	2,17	325	0,22	MF+M03400-05
H01030010*	10	-06	3/8"	15,0	0,59	16,8	0,66	330	4780	1500	21750	65	2,56	390	0,26	MF+M03400-06
H01030012*	12	-08	1/2"	18,5	0,73	20,3	0,80	275	3980	1220	17690	80	3,15	500	0,34	MF+M03400-08
H01030016*	16	-10	5/8"	21,8	0,86	23,6	0,93	250	3620	1050	15220	90	3,54	620	0,42	MF+M03400-10
H01030019*	19	-12	3/4"	25,6	1,01	27,6	1,09	245	3550	980	14210	120	4,72	790	0,53	MF+M03400-12
H01030025*	25	-16	1"	33,0	1,30	35,2	1,39	210	3040	840	12180	150	5,91	1180	0,79	MF +M03400-16
H01030031*	31	-20	1.1/4"	41,1	1,62	43,6	1,72	140	2030	560	8120	250	9,84	1550	1,04	MF+M03400-20
H01030038*	38	-24	1.1/2"	47,7	1,88	50,7	2,00	100	1450	400	5800	300	11,81	1830	1,23	MF+M03400-24
H01030051*	51	-32	2"	60,4	2,38	63,4	2,50	90	1300	360	5220	400	15,75	2430	1,63	MF+M03400-32
H01030063*	63	-40	2.1/2"	73,0	2,87	76,0	2,99	70	1010	300	4350	760	29,92	2900	1,95	MFvM03400-40
H01030076*	76	-48	3"	87,8	3,46	90,5	3,56	45	650	180	2610	900	35,43	3120	2,10	MF+M03400-48

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Superior abrasion resistance ■ High ozone and weather resistance ■ Flame resistance to a wide range of spec. ■ Antistatic and antitoxic cover ■ Working pressure improvement ■ Range extension to DN 76 ■ Vacuum resistance with SAE 100 R4 performance approved on sizes up to DN 76

Superior resistencia a la abrasión ■ Alta resistencia al ozono y a la intemperie ■ Resistencia a la llama en una amplia gama de especificaciones ■ Cubierta antiestática y atóxica ■ Resistencia de presión superior a lo indicado a la norma ■ Tamaños hasta DN 76 ■ Resistencia al vacio (SAE 100 R4) aprobada para los tamaños hasta DN 76

Überragende Abriebbeständigkeit. Hohe Ozon- und Wetterbeständigkeit ■ Flammbeständig nach vielen Normen ■ Antistatische und antitoxische Decke ■ Verbesserung des Betriebsdruckes ■ Bis zur Nennweite DN 76 ■ Vakuumbestandig (SAE 100 R4) bis DN 76

Estrema resistenza all'abrasione ■ Elevata resistenza all'ozono e agli agenti atmosferici ■ Resistenza alla propagazione di fiamma in accordo a molteplici norme ■ Copertura antistastica e atossica ■ Pressioni d'esercizio migliorate ■ Estensione di gamma fino a DN 76 ■ Resistenza al vuoto (SAE 100 R4) fino a DN 76

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MAIN APPLICATIONS
Medium-high pressure lines with installation constraints in heavy duty environmental conditions, specific installations with severe abrasion conditions, marine applications, underground and open pit mining, return and suction lines
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two high tensile steel braids
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: Exceed EN 857 2SC - ISO 11237-1 2SC, SAE 100 R 16S; in addition: DN 25 SAE 100 R17, ISO 11237-1 R17
TYPE APPROVALS: GOST-R, LOBA (DN 5÷25), LR, MSHA, RINA (DN 6÷31), Ⓑ (DN 5÷76), MA, FRAS

ES

PRINCIPALES APLICACIONES
Líneas de presión de media y alta en espacios reducidos en condiciones ambientales de trabajo pesado, instalaciones especificas con condiciones de abrasión severa, aplicaciones marinas, minas subterráneas y minas a cielo abierto, líneas de retorno y de succión
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceite basado en éster sintético, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético resistente al aceite
REFUERZO: Dos refuerzos trenzados de acero de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor.
ESPECIFICACIONES APLICABLES: Excede EN 857 2SC - ISO 11237-1 2SC, SAE 100 R 16S; adicionalmente aplica para: DN 25 SAE 100 R17, ISO 11237-1 R17
APROBACIONES: GOST-R, LOBA (DN 5÷25), LR, MSHA, RINA (DN 6÷31), Ⓑ (DN 5÷76), MA , FRAS

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D

HAUPT-ANWENDUNGSGEBIET
Mittlerer Hochdruckbereich mit eingeschränkten Installationsmöglichkeiten bei schwersten Einsatzbedingungen, Installationen mit hohem Abrieb, Schiffbau, Bergbau und Tagebau
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Rapsöl, Glykol, Öl auf Polyglykolbasis, Synthetik- Esterbasis, Wasser/Ölemulsion, Wasser

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Zwei hochzugfeste Stahldrahtgeflechte
DECKE: Synthetisches Gummi mit hoher Ozon-, Wetter- und Temperaturbeständigkeit
ANGEWANDTE NORM: Übertrifft EN 857 2SC - ISO 11237-1 2SC, SAE 100 R 16S; und dazu: DN 25 SAE 100 R17, ISO 11237-1 R17
ZULASSUNGEN: GOST-R, LOBA, LR, MSHA, RINA (DN 6÷31), Ⓑ (DN 5÷76), MA, FRAS

IT

PRINCIPALI APPLICAZIONI
Linee a medio-alta pressione con difficoltà di installazione in severe condizioni ambientali, applicazioni specifiche in severe condizioni di abrasione, applicazioni marine, miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Due trecce di acciaio ad alto carico
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore
SPECIFICHE: Eccede EN 857 2SC - ISO 11237-1 2SC, SAE 100 R 16S; inoltre: DN 25 SAE 100 R17, ISO 11237-1 R17
OMOLOGAZIONI: GOST-R, LOBA, LR, MSHA, RINA (DN 6÷31), Ⓑ (DN 5÷76), MA , FRAS

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ROCKMASTER®/4SP

ABRASION, WEATHER & HEAT RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H10008006*	6	-04	1/4"	14,7	0,58	17,6	0,69	485	7030	2400	34800	125	4,92	590	0,40	MF+M00910-04
H10008010*	10	-06	3/8"	17,6	0,69	21,0	0,83	450	6520	2000	29000	125	4,92	740	0,50	MF+M00910-06
H10008012*	12	-08	1/2"	20,3	0,80	24,2	0,96	420	6090	1750	25380	175	6,89	880	0,59	MF+M00910-08
H10008016*	16	-10	5/8"	23,8	0,94	27,6	1,09	380	5510	1600	23200	200	7,87	1080	0,73	MF+M00910-10
H10008019*	19	-12	3/4"	28,2	1,11	31,7	1,25	380	5510	1600	23200	240	9,45	1450	0,97	MF+M00920-12
H10008025*	25	-16	1"	35,0	1,38	39,0	1,54	320	4640	1400	20300	340	13,39	1880	1,26	MF+M00920-16
H10008032*	31	-20	1.1/4"	46,1	1,81	49,7	1,96	210	3040	1250	18120	460	18,11	2990	2,01	MF+M00920-20
H10008038*	38	-24	1.1/2"	52,4	2,06	56,1	2,21	185	2680	1000	14500	560	22,05	3500	2,35	MF+M00910-24
H10008051*	51	-32	2"	65,4	2,57	69,0	2,72	175	2530	1000	14500	660	25,98	5010	3,37	MF+M00910-32

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Approved at 1.000.000 impulse cycles ■ Superior abrasion resistance ■ High ozone and weather resistance ■ Flame resistance to a wide range of spec. ■ Antistatic and antitoxic cover ■ Upgraded temperature resistance ■ Bio biological and mineral oils compatibility

Aprobada hasta 1.000.000 de ciclos de impulso ■ Mejora de la resistencia a la temperatura ■ Superior resistencia a la abrasión ■ Alta resistencia al ozono y a la intemperie ■ Resistencia a la llama en una amplia gama de especificaciones ■ Cubierta antiestática y atóxica ■ Bio compatible con aceites minerales y biológicos

Geprüft mit 1.000.000 Impulszyklen ■ Überragende Abriebfastigkeit-Hohe Ozon- und Wetterbeständigkeit ■ Flammbeständig nach vielen Normen ■ Antistatische und antitoxische Decke ■ Bio Beständigkeit gegen Bio- und Mineralöle

Approvato a 1.000.000 di cicli ■ Estrema resistenza all'abrasione ■ Elevata resistenza all'ozono e agli agenti atmosferici ■ Resistenza alla propagazione di fiamma in accordo a molteplici norme ■ Copertura antistatica e atossica ■ Migliorata resistenza alle escursioni termiche ■ Bio compatibilità con oli biologici e minerali

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MAIN APPLICATIONS
Very high pressure power lines in heavy duty environmental conditions, specific installations with severe abrasion conditions, marine applications, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +250°F -40°C / +121°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Four high tensile steel spirals
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: Exceed EN 856 4SP - ISO 3862 4SP
DN16&19: Thin cover style, exceeding performace EN 856 4SP and ISO 3862 4SP
TYPE APPROVALS: DNV, DNV (MED), FRAS, GOST-R, LOBA, MSHA, RINA (DN 6÷16), Ⓑ, MA

⚠ **If service temperature is lower than 100°C ROCKMASTER/4SP can be used with reduced Min. Bend Radius (see Goldenspir/4SP)**

FLUIDTECHNIK S.R.L. 0723 382 199

ES

PRINCIPALES APLICACIONES
Líneas de presión muy alta en condiciones ambientales de trabajo pesado, instalaciones específicas con condiciones de abrasión severa, aplicaciones marinas, subterráneas y minas a cielo abierto
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +250°F -40°C / +121°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y basado en éster sintético (hasta +212°F / +100°C), glicoles y poliglicoles, aceite basado en éster sintético, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Cuatro refuerzos de acero en espiral de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Excede EN 856 4SP – ISO 3862 4SP
DN16&19: El estilo de cubierta delgada, excede las características de EN 856 4SP y ISO 3862 4SP.
APROBACIONES: DNV, DNV (MED), FRAS, GOST-R, LOBA, MSHA, RINA (DN 6÷16), Ⓑ, MA

⚠ **Si la temperatura de servicio es menor de 100° ROCKMASTER/4SP puede ser usada con menor radio de curvatura (ver Goldenspir/4SP).**

D

HAUPT-ANWENDUNGSGEBIET
Hochdruckbereich mit eingeschränkten Installationsmöglichkeiten bei schwersten Einsatzbedingungen, Installationen mit hohem Abrieb, Schiffbau, Bergbau und Tagebau
DAUERBETRIEB
-40°F / +250°F -40°C / +121°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Rapsöl, Glykol, Öl auf Polyglykolbasis, Synthetik-Esterbasis (bis +212°F / +100°C) Wasser/Ölemulsion, Wasser

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Vier hochzugfeste Stahldrahtspiralen
DECKE: Synthetisches Gummi mit hoher Ozon-, Wetter- und Temperaturbeständigkeit
ANGEWANDTE NORM: Übertrifft EN 856 4SP - ISO 3862 4SP
DN16&19: Übersteigt Anforderungen EN 856 4SP - ISO 3862 4SP DN16&19: Dünner Ummantelungstyp, übersteigt Anforderungen EN 856 4SP und ISO 3862 4SP
ZULASSUNGEN: DNV, DNV (MED), FRAS, GOST-R, LOBA, MSHA, RINA (DN 6÷16), Ⓑ, MA

⚠ **Bleibt die Betriebstemperatur unter 100°C kann ROCKMASTER/4SP mit reduziertem Mindestbiegeradius (siehe Goldenspir/4SP) eingesetzt werden.**

IT

PRINCIPALI APPLICAZIONI
Linee ad alta pressione in severe condizioni ambientali, applicazioni specifiche in severe condizioni di abrasione, applicazioni marine, miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +250°F -40°C / +121°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e oli a base di esteri sintetici (fino a +212°F / +100°C), glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Quattro spirali di acciaio ad alto carico
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore
SPECIFICHE: Eccede EN 856 4SP - ISO 3862 4SP
DN16&19: Copertura sottile, eccede performace EN 856 4SP e ISO 3862 4SP
OMOLOGAZIONI: DNV, DNV (MED), FRAS, GOST-R, LOBA, MSHA, RINA (DN 6÷16), Ⓑ, MA

⚠ **Se la temperature di esercizio è minore di 100°C, ROCKMASTER/4SP può essere utilizzato con raggio di curvatura ridotto (vedi Goldenspir/4SP)**

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ROCKMASTER®/4SH

ABRASION, WEATHER & HEAT RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H10044016*	16	-10	5/8"	25,5	1,00	28,5	1,12	450	6520	1850	26830	180	7,09	1290	0,87	IP+M01500-10
H10044019*	19	-12	3/4"	28,2	1,11	31,9	1,26	420	6090	1750	25380	210	8,27	1500	1,01	IP+M01500-12
H10044025*	25	-16	1"	35,1	1,38	38,1	1,50	385	5580	1750	25380	220	8,66	2040	1,37	IP+M01500-16
H10044032*	31	-20	1.1/4"	42,2	1,66	45,0	1,77	350	5070	1400	20300	420	16,54	2410	1,62	IP+M01500-20
H10044038*	38	-24	1.1/2"	49,1	1,93	53,1	2,09	300	4350	1250	18120	560	22,05	3170	2,13	IP+M01500-24
H10044051*	51	-32	2"	63,5	2,50	67,5	2,66	250	3620	1000	14500	700	27,56	4460	3,00	IP+M01500-32

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Approved at 1.000.000 flexing impulse cycles ■ Superior abrasion resistance ■ High ozone and weather resistance ■ Flame resistance to a wide range of spec. ■ Antistatic and antitoxic cover ■ Upgraded temperature resistance ■ Bio biological and mineral oils compatibility

Aprobada hasta 1.000.000 de ciclos de impulso flexibles ■ Mejora de la resistencia a la temperatura ■ Superior resistencia a la abrasión ■ Alta resistencia al ozono y a la intemperie ■ Resistencia a la llama en una amplia gama de especificaciones ■ Cubierta antiestática y atóxica ■ Bio compatible con aceites minerales y biológicos

Geprüft mit 1.000.000 Flex Impulszyklen ■ Höhere Temperaturbeständigkeit ■ Überragende Abriebbeständigkeit-Hohe Ozon- und Wetterbeständigkeit ■ Flammbeständig nach vielen Normen ■ Antistatische und antitoxische Decke ■ Bio Beständigkeit gegen Bio- und Mineralöle

Approvato a 1.000.000 di cicli in condizioni rotanti ■ Estrema resistenza all'abrasione ■ Elevata resistenza all'ozono e agli agenti atmosferici ■ Resistenza alla propagazione di fiamma in accordo a molteplici norme ■ Copertura antistatica e atossica ■ Migliorata resistenza alle escursioni termiche ■ Bio compatibilità con oli biologici e minerali

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MAIN APPLICATIONS
Very high pressure power lines in heavy duty environmental conditions, specific installations with severe abrasion conditions, marine applications, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +250°F -40°C / +121°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water

INSERT: MF2000® - INTERLOCK PLUS TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Four high tensile steel spirals
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: Exceed EN 856 4SH -ISO 3862 4SH
TYPE APPROVALS: DNV, DNV (MED), FRAS, GOST-R, LOBA (DN 19÷51), LR, MSHA, (B) (DN 16÷51), RINA, MA, DGMS

ES

PRINCIPALES APLICACIONES
Líneas de alta presión en condiciones ambientales de trabajo pesado, instalaciones específicas con condiciones de abrasión severa, aplicaciones marinas, minas subterráneas y minas a cielo abierto
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +250°F -40°C / +121°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y basado en éster sintético (hasta +212°F / +100°C), glicoles y poliglicoles, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO INTERLOCK PLUS
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Cuatro refuerzos de acero en espiral de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Excede EN 856 4SH - ISO 3862 4SH
APROBACIONES: DNV, DNV (MED), FRAS, GOST-R, LOBA (DN 19÷51), LR, MSHA, (B) (DN 16÷51), RINA, MA, DGMS

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Sehr hoher Druckbereich mit eingeschränkten Installationsmöglichkeiten bei schwersten Einsatzbedingungen, Installationen mit hohem Abrieb, Schiffbau, Bergbau und Tagebau
DAUERBETRIEB
-40°F / +250°F -40°C / +121°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Rapsöl, Glykol, Öl auf Polyglykolbasis, Synthetik-Esterbasis bis +212°F / +100°C
Wasser/Ölemulsion, Wasser

NIPPEL: MF2000® - INTERLOCK PLUS
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Vier hochzugfeste Stahldrahtspiralen
DECKE: Synthetisches Gummi mit hoher Ozon-, Wetter- und Temperaturbeständigkeit
ANGEWANDTE NORM: Übertrifft EN 856 4SH - ISO 3862 4SH
ZULASSUNGEN: DNV, DNV (MED), FRAS, GOST-R, LOBA (DN 19÷51), LR, MSHA, (B) (DN 16÷51), RINA, MA, DGMS

IT

PRINCIPALI APPLICAZIONI
Linee ad alta pressione in severe condizioni ambientali, applicazioni specifiche in severe condizioni di abrasione, applicazioni marine, miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +250°F -40°C / +121°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e oli a base di esteri sintetici (fino a +212°F / +100°C), glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO INTERLOCK PLUS
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Quattro spirali di acciaio ad alto carico
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore
SPECIFICHE: Eccede EN 856 4SH -ISO 3862 4SH
OMOLOGAZIONI: DNV, DNV (MED), FRAS, GOST-R, LOBA (DN 19÷51), LR, MSHA, (B) (DN 16÷51), RINA, MA, DGMS

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FLUIDTECHNIK S.R.L.0723 382 199

ROCKMASTER®/12

ABRASION, WEATHER & HEAT RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H10031010*	10	-06	3/8"	17,3	0,68	20,0	0,79	280	4060	1600	23200	100	3,94	620	0,42	MF+M00910-06
H10031012*	12	-08	1/2"	20,4	0,80	23,5	0,93	280	4060	1350	19580	125	4,92	760	0,51	MF+M00910-08
H10031016*	16	-10	5/8"	24,4	0,96	27,1	1,07	280	4060	1300	18850	140	5,51	990	0,67	MF+M00910-10
H10031019*	19	-12	3/4"	27,4	1,08	30,4	1,20	280	4060	1300	18850	150	5,91	1160	0,78	MF+M00920-12
H10031025*	25	-16	1"	35,0	1,38	37,6	1,48	280	4060	1150	16670	225	8,86	1740	1,17	MF+M00920-16
H10031A32*	31	-20	1.1/4"	43,1	1,70	45,9	1,81	210	3040	1000	14500	250	9,84	2280	1,53	MF+M00920-20
H10031040*	38	-24	1.1/2"	50,0	1,97	53,3	2,10	175	2530	1000	14500	500	19,69	3130	2,10	MF+M00910-24
H10031051*	51	-32	2"	63,6	2,50	66,7	2,63	175	2530	800	11600	630	24,80	4440	2,98	MF+M00910-32

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Approved at 1.000.000 impulse cycles ■ Superior abrasion resistance ■ High ozone and weather resistance ■ Flame resistance to a wide range of spec. ■ Antistatic and antitoxic cover ■ bio biological and mineral oils compatibility

Aprobada hasta 1.000.000 de ciclos de impulso ■ Superior resistencia a la abrasión ■ Alta resistencia al ozono y a la intemperie ■ Resistencia a la llama en una amplia gama de especificaciones ■ Cubierta antiestática y atóxica ■ bio compatible con aceites minerales y biológicos

Geprüft mit 1.000.000 Impulszyklen ■ Überragende Abriebbeständigkeit ■ Hohe Ozon- und Wetterbeständigkeit ■ Flammbeständig nach vielen Normen ■ Antistatische und antitoxische Decke ■ bio Beständigkeit gegen Bio- und Mineralöle

Approvato a 1.000.000 di cicli ■ Estrema resistenza all'abrasione ■ Elevata resistenza all'ozono e agli agenti atmosferici ■ Resistenza alla propagazione di fiamma in accordo a molteplici norme ■ Copertura antistatica e atossica ■ bio compatibilità con oli biologici e minerali

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FLUIDTECHNIK S.R.L.0723 382 199

GB

MAIN APPLICATIONS
High pressure power lines in heavy duty environmental conditions, specific installations with severe abrasion conditions, marine applications, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +250°F -40°C / +121°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Four high tensile steel spirals
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: Exceed EN 856 R12 - SAE 100 R12 - ISO 3862 R12
TYPE APPROVALS: ABS, BV, BV (MED), FRAS, GOST-R, LR, MSHA, MA, LOBA

ES

PRINCIPALES APLICACIONES
Líneas de presión de trabajo pesado, transmisiones hidrostáticas, en condiciones ambientales de trabajo pesado, instalaciones específicas con condiciones de abrasión severa, aplicaciones marinas, minas subterráneas y minas a cielo abierto
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +250°F -40°C / +121°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y aceite basado en éster sintético (hasta +212°F / +100°C), glicoles y poliglicoles, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Cuatro refuerzos de acero en espiral de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Excede EN 856 R12 - SAE 100 R12 - ISO 3862 R12
APROBACIONES: ABS, BV, BV (MED), FRAS, GOST-R, LR, MSHA, MA, LOBA

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Hoher Druckbereich mit eingeschränkten Installationsmöglichkeiten bei schwersten Einsatzbedingungen, Installationen mit hohem Abrieb, Schiffbau, Bergbau und Tagebau
DAUERBETRIEB
-40°F / +250°F -40°C / +121°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Rapsöl, Glykol, Öl auf Polyglykolbasis, Synthetik-Esterbasis bis +212°F / +100°C Wasser/Ölemulsion, Wasser

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Vier hochzugfeste Stahldrahtspiralen
DECKE: Synthetisches Gummi mit hoher Ozon-, Wetter- und Temperaturbeständigkeit
ANGEWANDTE NORM: Übertrifft EN 856 R12 - SAE 100 R12 - ISO 3862 R12
ZULASSUNGEN: ABS, BV, BV (MED), FRAS, GOST-R, LR, MSHA, MA, LOBA

IT

PRINCIPALI APPLICAZIONI
Linee ad alta pressione in severe condizioni ambientali, applicazioni specifiche in severe condizioni di abrasione, applicazioni marine, miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +250°F -40°C / +121°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e oli a base di esteri sintetici (fino a +212°F / +100°C), glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Quattro spirali di acciaio ad alto carico
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore
SPECIFICHE: Eccede EN 856 R12 - SAE 100 R12 - ISO 3862 R12
OMOLOGAZIONI: ABS, BV, BV (MED), FRAS, GOST-R, LR, MSHA, MA, LOBA

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FLUIDTECHNIK S.R.L.0723 382 199

ROCKMASTER®/13

ABRASION, WEATHER & HEAT RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H10035A06*	6	-04	1/4"	14,6	0,57	17,6	0,69	690	10000	3250	47130	120	4,72	660	0,44	*
H10035A10*	10	-06	3/8"	17,4	0,69	20,4	0,80	690	10000	2900	42060	150	5,91	830	0,56	*
H10035A12*	12	-08	1/2"	21,5	0,85	24,5	0,96	620	8990	2500	36250	200	7,87	1140	0,77	*
H10035019*	19	-12	3/4"	29,0	1,14	31,8	1,25	350	5070	1950	28280	240	9,45	1630	1,10	IP+M01500-12
H10035025*	25	-16	1"	36,0	1,42	39,2	1,54	350	5070	1650	23930	300	11,81	2190	1,47	IP+M01500-16
NEW H10035032*	31	-20	1.1/4"	47,0	1,85	50,0	1,97	350	5070	1500	21750	420	16,54	3600	2,42	IP+M01600-20
H10035040*	38	-24	1.1/2"	54,6	2,15	57,5	2,26	350	5070	1600	23200	500	19,69	4700	3,16	IP+M01600-24
H10035051*	51	-32	2"	68,4	2,69	72,0	2,83	350	5070	1500	21750	630	24,80	6800	4,57	IP+M01800-32

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Approved at 1.000.000 flexing impulse cycles ■ Superior abrasion resistance ■ High ozone and weather resistance ■ Flame resistance to a wide range of spec. ■ Antistatic and antitoxic cover ■ bio biological and mineral oils compatibility

Aprobada hasta 1.000.000 de ciclos de impulso flexibles ■ Superior resistencia a la abrasión ■ Alta resistencia al ozono y a la intemperie ■ Resistencia a la llama en una amplia gama de especificaciones ■ Cubierta antiestática y atóxica ■ bio compatible con aceites minerales y biológicos

Geprüft mit 1.000.000 Impulszyklen ■ Überragende Abriebbeständigkeit ■ Hohe Ozon- und Wetterbeständigkeit ■ Flammbeständig nach vielen Normen ■ Antistatische und antitoxische Decke ■ bio Beständigkeit gegen Bio- und Mineralöle

Approvato a 1.000.000 di cicli ■ Estrema resistenza all'abrasione ■ Elevata resistenza all'ozono e agli agenti atmosferici ■ Resistenza alla propagazione di fiamma in accordo a molteplici norme ■ Copertura antistatica e atossica ■ bio compatibilità con oli biologici e minerali

manuli® HYDRAULICS
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FLUIDTECHNIK S.R.L.0723 382 199

GB

MAIN APPLICATIONS
Heavy duty power lines, hydrostatic transmissions, in heavy duty environmental conditions, specific installa-tions with severe abrasion conditions, marine applications, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +250°F -40°C / +121°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water

INSERT: MF2000® - INTERLOCK PLUS TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Four high tensile steel spirals (DN 6÷25). Six high tensile steel spirals (DN 31÷51)
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: Exceed EN 856 R13 - SAE 100 R13 - ISO 3862 R13
TYPE APPROVALS: ABS (DN 19÷51), BV (DN 19÷51), BV MED (DN 19÷51), FRAS, GOST-R, LOBA, RINA (DN 38÷51), Ⓑ (DN 19÷51), MSHA

ES

PRINCIPALES APLICACIONES
Líneas de presión de trabajo pesado, transmisiones hidrostáticas, en condiciones ambientales de trabajo pesado, instalaciones específicas con condiciones de abrasión severa, aplicaciones marinas, minas subterráneas y minas a cielo abierto
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +250°F -40°C / +121°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y aceite basado en éster sintético (hasta +212°F / +100°C), glicoles y poliglicoles, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO INTERLOCK PLUS
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Cuatro refuerzos de acero en espiral de alta resistencia (DN 6÷25). Seis refuerzos de acero en espiral de alta resistencia (DN 31÷51)
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Excede EN 856 R13 - SAE 100 R13 - ISO 3862 R13
APROBACIONES: ABS (DN 19÷51), BV (DN 19÷51), BV MED (DN 19÷51), FRAS, GOST-R, LOBA, RINA (DN 38÷51), Ⓑ (DN 19÷51), MSHA

FLUIDTECHNIK S.R.L. 0723 382 199

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HAUPT-ANWENDUNGSGEBIET
Hochdruck Kreisläufe, Hydrostatische Getriebe mit hoher Belastung, Installationen mit Abriebproblemen, Schiffbau, Bergbau und Tagebau
DAUERBETRIEB
-40°F / +250°F -40°C / +121°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Rapsöl, Glykol, Öl auf Polyglykolbasis, Synthetik-Esterbasis bis +212°F / +100°C
Wasser/Ölemulsion, Wasser

NIPPEL: MF2000® - INTERLOCK PLUS
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Vier hochzugfeste Stahldrahtspiralen (DN 6÷25).
Sechs hochzugfeste Stahldrahtspiralen (DN 31÷51)
DECKE: Synthetisches Gummi mit hoher Ozon-, Wetter-und Temperaturbeständigkeit
ANGEWANDTE NORM: Übertrifft EN 856 R13 - SAE 100 R13 - ISO 3862 R13
ZULASSUNGEN: ABS (DN 19÷51), BV (DN 19÷51), BV MED (DN 19÷51), FRAS, GOST-R, LOBA, RINA (DN 38÷51), Ⓑ (DN 19÷51), MSHA

IT

PRINCIPALI APPLICAZIONI
Ideale per applicazioni severe, trasmissioni idrostatiche, per applicazioni in severe condizioni ambientali, applicazioni specifiche in severe condizioni di abrasione, applicazioni marine, miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +250°F -40°C / +121°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e oli a base di esteri sintetici (fino a +212°F / +100°C), glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO INTERLOCK PLUS
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Quattro spirali di acciaio ad alto carico (DN 6÷25). Sei spirali di acciaio ad alto carico (DN 31÷51)
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore
SPECIFICHE: Eccede EN 856 R13 - SAE 100 R13 - ISO 3862 R13
OMOLOGAZIONI: ABS (DN 19÷51), BV (DN 19÷51), BV MED (DN 19÷51), FRAS, GOST-R, LOBA, RINA (DN 38÷51), Ⓑ (DN 19÷51), MSHA

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FLUIDTECHNIK S.R.L.0723 382 199

ROCKMASTER®/15

ABRASION, WEATHER & HEAT RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H10049019*	19	-12	3/4"	28,2	1,11	31,0	1,22	420	6090	1750	25380	265	10,43	1440	0,97	IP+M01500-12
H10049025*	25	-16	1"	35,1	1,38	38,1	1,50	420	6090	1750	25380	267	10,51	2040	1,37	IP+M01500-16
H10049A32*	31	-20	1.1/4"	46,3	1,82	49,5	1,95	420	6090	1680	24360	267	10,51	3660	2,46	IP+M01600-20
H10049040*	38	-24	1.1/2"	54,6	2,15	57,5	2,26	420	6090	1680	24360	315	12,40	4700	3,16	IP+M01600-24

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Approved at 1.000.000 flexing impulse cycles ■ Superior abrasion resistance ■ High ozone and weather resistance ■ Flame resistance to a wide range of spec. ■ Antistatic and antitoxic cover ■ bio biological and mineral oils compatibility

Aprobada hasta 1.000.000 de ciclos de impulso flexibles ■ Superior resistencia a la abrasión ■ Alta resistencia al ozono y a la intemperie ■ Resistencia a la llama en una amplia gama de especificaciones ■ Cubierta antiestática y atóxica ■ bio compatible con aceites minerales y biológicos

Geprüft mit 1.000.000 Flex Impulszyklen ■ Überragende Abriebbeständigkeit ■ Hohe Ozon- und Wetterbeständigkeit ■ Flammbeständig nach vielen Normen ■ Antistatische und antitoxische Decke ■ bio Beständigkeit gegen Bio- und Mineralöle

Approvato a 1.000.000 di cicli in condizioni rotanti ■ Estrema resistenza all'abrasione ■ Elevata resistenza all'ozono e agli agenti atmosferici ■ Resistenza alla propagazione di fiamma in accordo a molteplici norme ■ Copertura antistatica e atossica ■ bio compatibilità con oli biologici e minerali

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GB

MAIN APPLICATIONS
Heavy duty power lines, hydrostatic transmissions, in heavy duty environmental conditions, specific installations with severe abrasion conditions, marine applications, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +250°F -40°C / +121°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water

INSERT: MF2000® - INTERLOCK PLUS TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Four high tensile steel spirals (DN 19÷25). Six high tensile steel spirals (DN 31÷38)
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: Exceed SAE 100 R15 - ISO 3862 R15
TYPE APPROVALS: ABS, BV, BV (MED), DNV, FRAS, GL, GOST-R, LOBA, LR, MSHA, (B), MA

ES

PRINCIPALES APLICACIONES
Líneas de presión de trabajo pesado, transmisiones hidrostáticas, en condiciones ambientales de trabajo pesado, instalaciones específicas con condiciones de abrasión severa, aplicaciones marinas, minas subterráneas y minas a cielo abierto
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +250°F -40°C / +121°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y aceite basado en éster sintético (hasta +212°F / +100°C), glicoles y poliglicoles, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO INTERLOCK PLUS
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Cuatro refuerzos de acero en espiral de alta resistencia (DN 19÷25). Seis refuerzos de acero en espiral de alta resistencia(DN 31÷38)
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Excede SAE 100 R15 - ISO 3862 R15
APROBACIONES: ABS, BV, BV (MED), DNV, FRAS, GL, GOST-R, LOBA, LR, MSHA, (B), MA

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Hochdruck Kreisläufe, Hydrostatische Getriebe mit hoher Belastung, Installationen mit Abriebproblemen, Schiffbau, Bergbau und Tagebau
DAUERBETRIEB
-40°F / +250°F -40°C / +121°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Rapsöl, Glykol, Öl auf Polyglykolbasis, Synthetik-Esterbasis bis +212°F / +100°C
Wasser/Ölemulsion, Wasser

NIPPEL: MF2000® - INTERLOCK PLUS
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Vier hochzugfeste Stahldrahtspiralen (DN 19÷25).
Sechs hochzugfeste Stahldrahtspiralen (DN 31÷38)
DECKE: Synthetisches Gummi mit hoher Ozon-, Wetter- und Temperaturbeständigkeit
ANGEWANDTE NORM: Übertrifft SAE 100 R15 - ISO 3862 R15
ZULASSUNGEN: ABS, BV, BV (MED), DNV, FRAS, GL, GOST-R, LOBA, LR, MSHA, (B), MA

IT

PRINCIPALI APPLICAZIONI
Ideale per applicazioni severe, trasmissioni idrostatiche, per applicazioni in severe condizioni ambientali, applicazioni specifiche in severe condizioni di abrasione, applicazioni marine, miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +250°F -40°C / +121°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e oli a base di esteri sintetici (fino a +212°F / +100°C), glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO INTERLOCK PLUS
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Quattro spirali di acciaio ad alto carico (DN 19÷25).
Sei spirali di acciaio ad alto carico (DN 31÷38)
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore
SPECIFICHE: Eccede SAE 100 R15 - ISO 3862 R15
OMOLOGAZIONI: ABS, BV, BV (MED), DNV, FRAS, GL, GOST-R, LOBA, LR, MSHA, (B), MA

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FLUIDTECHNIK S.R.L.0723 382 199

EQUATOR™/1

EXTREME TEMPERATURE - BLACK VERSION



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01058006*	6	-04	1/4"	11,0	0,43	13,4	0,53	225	3260	1000	14500	100	3,94	240	0,16	MF+M00120-04
H01058008*	8	-05	5/16"	12,6	0,50	15,0	0,59	215	3110	900	13050	114	4,49	280	0,19	MF+M00120-05
H01058010*	10	-06	3/8"	15,0	0,59	17,3	0,68	180	2610	800	11600	127	5,00	335	0,23	MF+M00120-06
H01058012*	12	-08	1/2"	18,1	0,71	20,5	0,81	160	2320	680	9860	178	7,01	430	0,29	MF+M00120-08
H01058016*	16	-10	5/8"	21,3	0,84	23,5	0,93	130	1880	600	8700	200	7,87	500	0,34	MF+M00120-10
H01058019*	19	-12	3/4"	25,2	0,99	27,7	1,09	105	1520	500	7250	240	9,45	640	0,43	MF+M00120-12
H01058025*	25	16	1"	33,1	1,30	35,8	1,41	88	1270	360	5220	300	11,81	970	0,65	MF+M00120-16
H01058031*	31	-20	1.1/4"	40,6	1,60	43,5	1,71	65	940	345	5000	420	16,54	1300	0,87	MF+M00110-20
H01058038*	38	-24	1.1/2"	46,9	1,85	50,0	1,97	50	720	290	4200	500	19,69	1540	1,03	MF+M00110-24
H01058051*	51	-32	2"	60,4	2,38	63,1	2,48	40	580	250	3620	630	24,80	2100	1,41	MF+M00110-32
H01058063*	63	-40	2.1/2"	72,0	2,83	74,6	2,94	35	500	140	2030	600	23,62	2400	1,61	MF+M03400-40

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

EQUATOR™/1

EXTREME TEMPERATURE - BLUE VERSION



FLUIDTECHNIK S.R.L. 0723 382 199

PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01059006*	6	-04	1/4"	11,0	0,43	13,4	0,53	225	3260	1000	14500	100	3,94	240	0,16	MF+M00120-04
H01059008*	8	-05	5/16"	12,6	0,50	15,0	0,59	215	3110	900	13050	114	4,49	285	0,19	MF+M00120-05
H01059010*	10	-06	3/8"	15,0	0,59	17,3	0,68	180	2610	800	11600	127	5,00	340	0,23	MF+M00120-06
H01059012*	12	-08	1/2"	18,1	0,71	20,5	0,81	160	2320	680	9860	178	7,01	435	0,29	MF+M00120-08
H01059016*	16	-10	5/8"	21,3	0,84	23,5	0,93	130	1880	600	8700	200	7,87	510	0,34	MF+M00120-10
H01059019*	19	-12	3/4"	25,2	0,99	27,7	1,09	105	1520	500	7250	240	9,45	640	0,43	MF+M00120-12
H01059025*	25	16	1"	33,1	1,30	35,8	1,41	88	1270	360	5220	300	11,81	980	0,66	MF+M00120-16
H01059032*	31	-20	1.1/4"	40,6	1,60	43,5	1,71	65	940	345	5000	420	16,54	1300	0,87	MF+M00110-20
H01059038*	38	-24	1.1/2"	46,9	1,85	50,0	1,97	50	720	290	4200	500	19,69	1540	1,03	MF+M00110-24
H01059051*	51	-32	2"	60,4	2,38	63,1	2,48	40	580	250	3620	630	24,80	2100	1,41	MF+M00110-32
H01059063*	63	-40	2.1/2"	72,0	2,83	74,6	2,94	35	500	140	2030	600	23,62	2400	1,61	MF+M03400-40

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Wide range temperature resistance ■ EN/DIN pressure rating ■ Outstanding ozone resistance ■ Superior weather and UV resistance

Amplia gama de resistencia a la temperatura ■ Presión de trabajo acorde a Norma EN/DIN ■ Gran resistencia al ozono ■ Superior resistencia a la intemperie y rayos UV

Hohe Temperaturbeständigkeit ■ EN/DIN Druckstufen ■ Hervorragende Ozon-, Wetter- und UVBeständigkeit

Resistenza ad ampia escursione termica ■ Pressioni di esercizio a norma EN/DIN ■ Eccellente resistenza all'ozono ■ Estrema resistenza agli UV ed agli agenti atmosferici

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GB

MAIN APPLICATIONS
Low-medium pressure lines in extreme temperature conditions (foundries, com-pressors, hydraulics within engine compartments, etc.)
CONTINUOUS SERVICE TEMPERATURE RANGE
-67°F / +275°F -55°C / +135°C
MAX OPERATING TEMPERATURE
(Intermittent service) +300°F +150°C
RECOMMENDED FLUIDS
Mineral oils, glycols and polyglycols, transmission fluids, air with oil vapours, mineral oils in aqueous emulsion (up to +212°F / +100°C)

⚠ **Compressed air applications require cover pin-pricking and additional safety devices.**
⚠ **Equator hoses are not designed and not approved for "air brake" applications on railway and/or mobile equipment**

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: One high tensile steel braid
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: Exceed EN 853 1SN - SAE 100 R1AT - ISO 1436-1 1SN/R1AT
TYPE APPROVALS: ABS, BV, BV MED (DN 6÷31), DNV, GL, GOST-R, LR, MSHA

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Niederer Mitteldruck für extreme Temperaturen (Gießereien, Kompressoren, Hydraulik in Maschinen-Bau, etc)
DAUERBETRIEB
-67°F / +275°F -55°C / +135°C
MAX. BETRIEBSTEMPERATUR
+300°F +150°C
EMPFOHLENE MEDIEN
Mineralöl, Glykol und Polyglykol, Wasser/Mineralölemulsion (bis +212°F / +100°C), Luft/Öldampf, Getriebeöl

⚠ **Das Betreiben unter Druckluft erfordert eine geprickte Decke und entsprechendes Sicherheitszubehör**
⚠ **Schläuche Equator sind nicht für "Luftbremsanwendungen" in der Eisenbahn- und/oder mobilen Ausstattung geeignet und genehmigt**

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Ein hochzugfestes Stahldrahtgeflecht
DECKE: Synthetisches Gummi mit hoher Hitze-, Ozon – und Wetterbeständigkeit
ANGEWANDTE NORM: Übertrifft EN 853 1SN - SAE 100 R1AT - ISO 1436-1 1SN/R1AT
ZULASSUNGEN: ABS, BV, BV MED (DN 6÷31), DNV, GL, GOST-R, LR, MSHA

ES

PRINCIPALES APLICACIONES
Líneas de baja a media presión en extremas condiciones de temperatura (fundición, compresores, componentes hidráulicos dentro de motores, etc.)
TEMPERATURA CONTINUA DE SERVICIO
-67°F / +275°F -55°C / +135°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +300°F +150°C
FLUIDOS RECOMENDADOS
Aceite mineral, glicoles y poliglicoles, aire con vapores de aceite, aceite mineral en emulsión acuosa (hasta +212°F / +100°C)

⚠ **Para aplicaciones con aire comprimido se requiere que la cubierta esté perforada y un dispositivo de seguridad**
⚠ **Las mangueras Equator no está diseñada ni aprobadas para aplicaciones de "freno neumático" en trenes y/o equipos móviles**

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Un refuerzo trenzado de acero de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Excede EN 853 1SN - SAE 100 R1AT - ISO 1436-1 1SN/R1AT
APROBACIONES: ABS, BV, BV MED (DN 6÷31), DNV, GL, GOST-R, LR, MSHA

IT

PRINCIPALI APPLICAZIONI
Linee di medio-alta pressione in applicazioni con condizioni di temperatura estreme (fonderie, compressori, linee idrauliche in vano motore, ecc.)
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-67°F / +275°F -55°C / +135°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +300°F +150°C
FLUIDI RACCOMANDATI
oli minerali, glicoli e poliglicoli, oli di trasmissione, aria con vapori d'olio, oli minerali in emulsione acquosa (fino a +212°F / +100°C)

⚠ **Le applicazioni per aria compressa richiedono copertura forata e sistemi di sicurezza aggiuntivi**
⚠ **I tubi Equator non sono progettati e non sono approvati per le applicazioni "air brake" su equipaggiamenti a rotaia e/o mobili**

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Una treccia di acciaio ad alto carico
COPERTURA: Gomma sintetica ad alta resistenza all'ozono, agli agenti atmosferici e al calore.
SPECIFICHE: Eccede EN 853 1SN - SAE 100 R1AT - ISO 1436-1 1SN/R1AT
OMOLOGAZIONI: ABS, BV, BV MED (DN 6÷31), DNV, GL, GOST-R, LR, MSHA

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EQUATOR™/2

EXTREME TEMPERATURE - BLACK VERSION



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01060006*	6	-04	1/4"	12,7	0,50	14,9	0,59	400	5800	1725	25010	100	3,94	390	0,26	MF+M00910-04
H01060008*	8	-05	5/16"	14,3	0,56	16,5	0,65	350	5070	1480	21460	114	4,49	435	0,29	MF+M00910-05
H01060010*	10	-06	3/8"	16,7	0,66	19,0	0,75	330	4780	1400	20300	127	5,00	530	0,36	MF+M00910-06
H01060012*	12	-08	1/2"	19,8	0,78	22,0	0,87	275	3980	1200	17400	178	7,01	640	0,43	MF+M00910-08
H01060016*	16	-10	5/8"	23,0	0,91	25,2	0,99	250	3620	1020	14790	200	7,87	760	0,51	MF+M00910-10
H01060019*	19	-12	3/4"	27,0	1,06	29,0	1,14	215	3110	900	13050	240	9,45	940	0,63	MF+M00910-12
H01060025*	25	-16	1"	34,8	1,37	37,0	1,46	175	2530	700	10150	300	11,81	1350	0,91	MF+M00920-16
H01060032*	31	-20	1.1/4"	44,3	1,74	47,0	1,85	150	2170	600	8700	420	16,54	2010	1,35	MF+M00920-20
H01060040*	38	-24	1.1/2"	50,7	2,00	53,4	2,10	100	1450	410	5940	500	19,69	2250	1,51	MF+M00910-24
H01060051*	51	-32	2"	63,5	2,50	66,2	2,61	90	1300	370	5360	630	24,80	3080	2,07	MF+M00910-32

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

EQUATOR™/2

EXTREME TEMPERATURE - BLUE VERSION



FLUIDTECHNIK S.R.L. 0723 382 199

PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01061006*	6	-04	1/4"	12,7	0,50	14,9	0,59	400	5800	1725	25010	100	3,94	395	0,27	MF+M00910-04
H01061008*	8	-05	5/16"	14,3	0,56	16,5	0,65	350	5070	1480	21460	114	4,49	435	0,29	MF+M00910-05
H01061010*	10	-06	3/8"	16,7	0,66	19,0	0,75	330	4780	1400	20300	127	5,00	530	0,36	MF+M00910-06
H01061012*	12	-08	1/2"	19,8	0,78	22,0	0,87	275	3980	1200	17400	178	7,01	640	0,43	MF+M00910-08
H01061016*	6	-10	5/8"	23,0	0,91	25,2	0,99	250	3620	1020	14790	200	7,87	760	0,51	MF+M00910-10
H01061019*	19	-12	3/4"	27,0	1,06	29,0	1,14	215	3110	900	13050	240	9,45	940	0,63	MF+M00920-12
H01061025*	25	-16	1"	34,8	1,37	37,0	1,46	175	2530	700	10150	300	11,81	1350	0,91	MF+M00920-16
H01061032*	31	-20	1.1/4"	44,3	1,74	47,0	1,85	150	2170	600	8700	420	16,54	2010	1,35	MF+M00920-20
H01061040*	38	-24	1.1/2"	50,7	2,00	53,4	2,10	100	1450	410	5940	500	19,69	2250	1,51	MF+M00910-24
H01061051*	51	-32	2"	63,5	2,50	66,2	2,61	90	1300	370	5360	630	24,80	3080	2,07	MF+M00910-32

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Wide range temperature resistance ■ EN/DIN pressure rating ■ Outstanding ozone resistance ■ Superior weather and UV resistance

Amplia gama de resistencia a la temperatura ■ Presión de trabajo acorde a Norma EN/DIN ■ Gran resistencia al ozono ■ Superior resistencia a la intemperie y rayos UV

Hohe Temperaturbeständigkeit ■ EN/DIN Druckstufen ■ Hervorragende Ozon-, Wetter- und UVBeständigkeit ■ Hervorragende UV- und Wetterbeständigkeit

Resistenza ad ampia escursione termica ■ Pressioni di esercizio a norma EN/DIN ■ Eccellente resistenza all'ozono ■ Estrema resistenza agli UV ed agli agenti atmosferici

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GB

MAIN APPLICATIONS
Medium-high pressure lines in extreme temperature conditions (foundries, compressors, hydraulics within engine compartments, etc.)
CONTINUOUS SERVICE TEMPERATURE RANGE
-67°F / +275°F -55°C / +135°C
MAX OPERATING TEMPERATURE
(Intermittent service) +300°F +150°C
RECOMMENDED FLUIDS
Mineral oils, glycols and polyglycols, transmission fluids, air with oil vapours, mineral oils in aqueous emulsion (up to +212°F / +100°C)

⚠ **Compressed air applications require cover pin-pricking and additional safety devices**
⚠ **Equator hoses are not designed and not approved for "air brake" applications on railway and/or mobile equipment**

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two high tensile steel braids
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: Exceed EN 853 2SN - SAE 100 R2AT - ISO 1436-1 2SN/R2AT
TYPE APPROVALS: ABS, BV, BV (MED), DNV, GL, GOST-R, LR, MSHA

ES

PRINCIPALES APLICACIONES
Líneas de mediana a alta presión en extremas condiciones de temperatura (fundición, compresores, componentes hidráulicos dentro de motores, etc.)
TEMPERATURA CONTINUA DE SERVICIO
-67°F / +275°F -55°C / +135°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +300°F +150°C
FLUIDOS RECOMENDADOS
Aceite mineral, glicoles y poliglicoles, aire con vapores de aceite, aceite mineral en emulsión acuosa (hasta +212°F / +100°C)

⚠ **Para aplicaciones con aire comprimido se requiere que la cubierta esté perforada y un dispositivo de seguridad**
⚠ **Las mangueras Equator no está diseñada ni aprobadas para aplicaciones de "freno neumático" en trenes y/o equipos móviles**

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Dos refuerzos trenzados de acero de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Excede EN 853 2SN - SAE 100 R2AT - ISO 1436-1 2SN/R2AT
APROBACIONES: ABS, BV, BV (MED), DNV, GL, GOST-R, LR, MSHA

FLUIDTECHNIK S.R.L. 0723 382 199

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HAUPT-ANWENDUNGSGEBIET
Niederer Mitteldruck für extreme Temperaturen (Gießereien, Kompressoren, Hydraulik in Maschinen-Bau, etc.)
DAUERBETRIEB
-67°F / +275°F -55°C / +135°C
MAX. BETRIEBSTEMPERATUR
+300°F +150°C
EMPFOHLENE MEDIEN
Mineralöl, Glykol und Polyglykol, Wasser/Mineralölemulsion (bis +212°F / +100°C), Luft/Öldampf, Getriebeöl

⚠ **Das Betreiben unter Druckluft erfordert eine geprickte Decke und entsprechendes Sicherheitszubehör**
⚠ **Schläuche Equator sind nicht für "Luftbremsanwendungen" in der Eisenbahn- und/oder mobilen Ausstattung geeignet und zugelassen**

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Zwei hochzugfeste Stahldrahtgeflechte
DECKE: Synthetisches Gummi mit hoher Hitze-, Ozon – und Wetterbeständigkeit
ANGEWANDTE NORM: Übertrifft EN 853 2SN - SAE 100 R2AT - ISO 1436-1 2SN/R2AT
ZULASSUNGEN: ABS, BV, BV (MED), DNV, GL, GOST-R, LR, MSHA

IT

PRINCIPALI APPLICAZIONI
Linee di medio-alta pressione in applicazioni con condizioni di temperatura estreme (fonderie, compressori, linee idrauliche in vano motore, ecc.)
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-67°F / +275°F -55°C / +135°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +300°F +150°C
FLUIDI RACCOMANDATI
Oli minerali, glicoli e poliglicoli, oli di trasmissione, aria con vapori d'olio, oli minerali in emulsione acquosa (fino a +212°F / +100°C)

⚠ **Le applicazioni per aria compressa richiedono copertura forata e sistemi di sicurezza aggiuntivi**
⚠ **I tubi Equator non sono progettati e non sono approvati per le applicazioni "air brake" su equipaggiamenti a rotaia e/o mobili**

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Due trecce di acciaio ad alto carico
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore.
SPECIFICHE: Eccede EN 853 2SN - SAE 100 R2AT - ISO 1436-1 2SN/R2AT
OMOLOGAZIONI: ABS, BV, BV (MED), DNV, GL, GOST-R, LR, MSHA

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NOZONE®/2K

OUTSTANDING OZONE RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01039006*	6	-04	1/4"	11,3	0,44	13,1	0,52	400	5800	1850	26830	45	1,77	280	0,19	MF+M03400-04
H01039008*	8	-05	5/16"	12,9	0,51	14,7	0,58	350	5070	1700	24650	55	2,17	330	0,22	MF+M03400-05
H01039010*	10	-06	3/8"	15,0	0,59	16,8	0,66	330	4780	1500	21750	65	2,56	395	0,27	MF+M03400-06
H01039012*	12	-08	1/2"	18,5	0,73	20,3	0,80	275	3980	1220	17690	80	3,15	510	0,34	MF+M03400-08
H01039016*	16	-10	5/8"	21,8	0,86	23,6	0,93	250	3620	1050	15220	90	3,54	600	0,40	MF+M03400-10
H01039019*	19	-12	3/4"	25,6	1,01	27,6	1,09	215	3110	920	13340	120	4,72	800	0,54	MF+M03400-12

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Outstanding ozone resistance ■ Superior weather and UV resistance ■ High temperature resistance

Gran resistencia al ozono ■ Superior resistencia a la intemperie y a los rayos UV ■ Resistencia a las altas temperaturas

Hervorragende Temperatur-, Ozon-, UV- und Wetterbeständigkeit ■ Hohe Temperaturbeständigkeit

Eccellente resistenza all'ozono ■ Estrema resistenza agli UV ed agli agenti atmosferici ■ Resistenza alle elevate temperature

FLUIDTECHNIK S.R.L. 0723 382 199

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GB

MAIN APPLICATIONS
Medium-high pressure lines with installation constraints and extreme environmental conditions
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +250°F -40°C / +121°C
MAX OPERATING TEMPERATURE
(Intermittent service) +275°F +135°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two high tensile steel braids
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: Exceed EN 857 2SC and ISO 11237 2SC
TYPE APPROVALS: GOST-R, MSHA

ES

PRINCIPALES APLICACIONES
Líneas de media a alta presión en espacios reducidos y extremas condiciones ambientales
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +250°F -40°C / +121°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +275°F +135°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceites vegetales y aceites basados en éster sintético (hasta +212°F / +100°C), glicoles y poliglicoles, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Dos trenzas de acero de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Excede EN 857 2SC y ISO 11237 2SC
APROBACIONES: GOST-R, MSHA

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Mittlerer Hochdruckbereich mit Installationsproblemen und extremen Umweltbedingungen
DAUERBETRIEB
-40°F / +250°F -40°C / +121°C
MAX. BETRIEBSTEMPERATUR
+275°F +135°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Öl auf Polyglykolbasis, Wasser/Ölemulsion, Synthetik-Esterbasis, Wasser

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Zwei hochzugfeste Stahldrahtgeflechte
DECKE: Synthetisches Gummi mit hoher Temperatur- und Wetterbeständigkeit
ANGEWANDTE NORM: Ubertrifft EN 857 2SC und ISO 11237 2SC
ZULASSUNGEN: GOST-R, MSHA

IT

PRINCIPALI APPLICAZIONI
Linee a media-alta pressione con difficoltà di installazione e condizioni ambientali estreme
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +250°F -40°C / +121°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +275°F +135°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e oli a base di esteri sintetici (fino a +212°F / +100°C), glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Due trecce di acciaio ad alto carico
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e alle elevate temperature
SPECIFICHE: Eccede EN 857 2SC e ISO 11237 2SC
OMOLOGAZIONI: GOST-R, MSHA

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HOSES

Extreme isobaric



Fluid connectors, solid solutions
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GOLDENISO®/21 ANTIWEAR

OUTSTANDING ABRASION RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01125006*	6	-04	1/4"	10,2	0,40	12,0	0,47	210	3040	840	12180	50	1,97	180	0,12	MF+M00830-04
H01125008*	8	-05	5/16"	11,5	0,45	13,6	0,54	210	3040	840	12180	55	2,17	210	0,14	MF+M00830-05
H01125010*	10	-06	3/8"	14,4	0,57	16,2	0,64	210	3040	840	12180	65	2,56	300	0,20	MF+M03400-06
H01125012*	12	-08	1/2"	17,9	0,70	19,7	0,78	210	3040	840	12180	90	3,54	415	0,28	MF+M03400-08
H01125016*	16	-10	5/8"	22,2	0,87	24,0	0,94	210	3040	840	12180	100	3,94	620	0,42	MF+M03400-10
H01125019*	19	-12	3/4"	25,6	1,01	27,7	1,09	210	3040	840	12180	120	4,72	780	0,52	MF+M03400-12
H01125025*	25	-16	1"	33,0	1,30	35,2	1,39	210	3040	840	12180	150	5,91	1120	0,75	MF+M03400-16

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Extreme abrasion resistance ■ Approved at 200.000 impulse cycles, 133% WP at T=100°C (ISO 18752 grade A) ■ Very low bend radius to suit restricted space installations ■ High robust and compact hose structure compared to rated pressure ■ High environmental agents resistance ■ Vacuum resistance accordingly to SAE 100R4 requirements

Gran resistencia a la abrasión ■ Aprobada hasta 200.000 de ciclos de impulso flexibles, 133% WP a T=100°C (ISO 18752 grado A) ■ Reducido radio de curvatura ■ Estructura muy robusta y compacta de mangueras respecto a la presión ■ Alta resistencia a los agentes medioambientales ■ Resistencia al vacio (SAE 100 R4) aprobada

Extreme Abriebbeständigkeit ■ Mit 200.000 Impulszyklen zugelassen, 133% Betriebsdruck bei T=100°C (ISO 18752 A) ■ Sehr geringer Biegeradius für Installationen in beengtem Raum ■ Hochrobuste und kompakte Schlauchstruktur im Verhältnis zum zugelassenen Druck ■ Hohe Beständigkeit gegen Umwelteinflüsse ■ Unterdruckbeständigkeit gemäß Vorschriften SAE 100R4

Estrema resistenza all'abrasione ■ Approvato a 200.000 cicli,133% della pressione di esercizio a T=100°C (ISO 18752 grado A) ■ Raggio di curvatura molto ridotto per adattarsi ad installazioni in spazi ristretti ■ Struttura altamente robusta e compatta rispetto alla pressione ■ Elevata resistenza agli agenti ambientali ■ Resistenza al vuoto secondo le specifiche SAE100R4

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GOLDENISO®/21 ANTIWEAR

TECHNICAL INFO

GB

MAIN APPLICATIONS
Medium and high pressure hydraulic lines with installation constraints, pilot lines, return, drain and suctions lines
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion and water

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Synthetic rubber
REINFORCEMENT: One wire braid (DN 6÷12)
Two wire braids (DN 16÷25)
COVER: High abrasion resistant synthetic rubber
APPLICABLE SPECS.: ISO 18752 grade A, SAE J517 type 100 R17, ISO 11237-R17
TYPE APPROVALS: MSHA, GOST-R

ES

PRINCIPALES APLICACIONES
Líneas hidráulicas de media y alta presión con espacio reducido, líneas de pilotaje, retorno, drenaje y aspiración
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal, aceites con base en éster sintético (hasta +212°F / +100°C), aceites basados en glicoles y poliglicoles, aceite en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético
REFUERZO: Un refuerzo trenzado de alta resistencia (DN 6÷12)
Dos refuerzos trenzados de alta resistencia (DN 16÷25)
CUBIERTA: Caucho sintético con alta resistencia a la abrasión
ESPECIFICACIONES APLICABLES: ISO 18752 grado A, SAE J517 tipo 100 R17, ISO 11237-R17
APROBACIONES: MSHA, GOST-R

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D

ANWENDUNGSBEREICH
Mittel- und Hochdruckhydraulikleitungen in beengtem Raum, Steuerleitungen, Rücklauf-, Ablauf- und Ansaugleitungen
KONTINUIERLICHER BETRIEBSTEMPERATURBEREICH
-40°F / +212°F -40°C / +100°C
EMPFOHLENE FLÜSSIGKEITEN
Mineralöle, pflanzliche und synthetische esterbasierende Öle (bis +100°C), Glykole und Polyglykole, Mineralöle in wässriger Emulsion und Wasser

NIPPEL: MF2000® - MULTIFIT
SCHLAUCH: Synthetikgummi
DRUCKTRÄGER: Ein hochzugfestes Stahldrahtgeflecht (DN 6÷12)
Zwei hochzugfeste Stahldrahtgeflechte (DN 16÷25)
DECKE: Hoch-abriebbeständiges Synthetikgummi
ANGEWANDTE NORMEN: ISO 18752 Grad A, SAE J517 Typ 100 R17, ISO 11237-R17
ZULASSUNGEN: MSHA, GOST-R

IT

PRINCIPALI APPLICAZIONI
Linee idrauliche a media e alta pressione con vincoli di installazione, linee pilota, linee di ritorno, scarico e aspirazione
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali, oli a base di esteri sintetici (fino a +212°F / +100°C), glicoli e poliglicoli, oli in emulsione acquosa ed acqua

INSERTO: MF2000® - TIPO MULTIFIT
TUBE: Gomma sintetica
RINFORZO: Una treccia di acciaio ad alto carico (DN 6÷12)
Due treccie di acciaio ad alto carico (DN 16÷25)
COPERTURA: Gomma sintetica ad alta resistenza all'abrasione
SPECIFICHE: ISO 18752 grade A, SAE J517 type 100 R17, ISO 11237-R17
OMOLOGAZIONI: MSHA, GOST-R

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GOLDENISO®/28 ANTIWEAR

OUTSTANDING ABRASION RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01126006*	6	-04	1/4"	11,6	0,46	13,2	0,52	280	4060	1120	16240	50	1,97	260	0,17	MF+M03400-04
H01126008*	8	-05	5/16"	12,9	0,51	14,5	0,57	280	4060	1120	16240	55	2,17	280	0,19	MF+M03400-05
H01126010*	10	-06	3/8"	15,4	0,61	17,0	0,67	280	4060	1120	16240	63	2,48	380	0,26	MF+M03400-06
H01126012*	12	-08	1/2"	18,5	0,73	20,3	0,80	280	4060	1120	16240	80	3,15	495	0,33	MF+M03400-08
H01126016*	16	-10	5/8"	22,7	0,89	24,7	0,97	280	4060	1120	16240	90	3,54	730	0,49	MF+M03400-10
H01126019*	19	-12	3/4"	27,1	1,07	29,3	1,15	280	4060	1120	16240	120	4,72	1060	0,71	MF+M03400-12

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Extreme abrasion resistance ■ Approved at 200.000 impulse cycles, 133% WP at T=100°C (ISO 18752 grade A) ■ Very low bend radius to suit restricted space installations ■ High robust and compact hose structure compared to rated pressure ■ High environmental agents resistance ■ Vacuum resistance accordingly to SAE 100R4 requirements

Gran resistencia a la abrasión ■ Aprobada hasta 200.000 de ciclos de impulso flexibles, 133% WP a T=100°C (ISO 18752 grado A) ■ Reducido radio de curvatura ■ Estructura muy robusta y compacta de mangueras respecto a la presión ■ Alta resistencia a los agentes medioambientales ■ Resistencia al vacio (SAE 100 R4) aprobada

Extreme Abriebbeständigkeit ■ Mit 200.000 Impulszyklen zugelassen, 133% Betriebsdruck bei T=100°C (ISO 18752 A) ■ Sehr kleiner Biegeradius für Installationen in beengtem Raum ■ Hochrobuste und kompakte Schlauchstruktur im Verhältnis zum angegebenen Druck ■ Hohe Beständigkeit gegen Umwelteinflüsse ■ Unterdruckbeständigkeit gemäß Vorschriften SAE 100R4

Estrema resistenza all'abrasione ■ Approvato a 200.000 cicli, 133% della pressione di esercizio a T=100°C (ISO 18752 grado A) ■ Raggio di curvatura molto ridotto per adattarsi ad installazioni in spazi ristretti ■ Struttura altamente robusta e compatta rispetto alla pressione ■ Elevata resistenza agli agenti ambientali ■ Resistenza al vuoto secondo le specifiche SAE100R4

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GOLDENISO®/28 ANTIWEAR

TECHNICAL INFO

GB

MAIN APPLICATIONS
Medium and high pressure hydraulic lines with installation constraints, pilot lines, return, drain and suctions lines
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion and water

INSERT: MF2000® - MULTIFIT
TUBE: Synthetic rubber
REINFORCEMENT: Two wire braids
COVER: High abrasion resistant synthetic rubber
APPLICABLE SPECS.: ISO 18752 grade A, SAE J517 type 100 R19
TYPE APPROVALS: MSHA, GOST-R

ES

PRINCIPALES APLICACIONES
Líneas hidráulicas de media y alta presión con espacio reducido, líneas de pilotaje, retorno, drenaje y aspiración
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal, aceites con base en éster sintético (hasta +212°F / +100°C), aceites basados en glicoles y poliglicoles, aceite en emulsión acuosa, agua

TUBO: Caucho sintético
REFUERZO: Dos refuerzos trenzados de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia a la abrasión
APPLICABLE SPECS.: ISO 18752 grade A SAE J517 tipo 100 R19
APROBACIONES: MSHA, GOST-R

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D

ANWENDUNGSBEREICH
Mittel- und Hochdruckhydraulikleitungen in beengtem Raum, Steuerleitungen, Rücklauf-, Ablauf- und Ansaugleitungen
KONTINUIERLICHER BETRIEBSTEMPERATURBEREICH
-40°F / +212°F -40°C / +100°C
EMPFOHLENE FLÜSSIGKEITEN
Mineralöle, pflanzliche und synthetische esterbasierende Öle (bis +212°F / +100°C), Glykole und Polyglykole, Mineralöle in wässriger Emulsion und Wasser

NIPPEL: MF2000® - MULTIFIT
SCHLAUCH: Synthetikgummi
DRUCKTRÄGER: Zwei hochzugfeste Stahldrahtgeflechte
DECKE: Hoch-abriebbeständiges Synthetikgummi
ANGEWANDTE NORMEN: ISO 18752 Grad A, SAE J517 Typ 100 R19
ZULASSUNGEN: MSHA, GOST-R

IT

PRINCIPALI APPLICAZIONI
Linee idrauliche a media e alta pressione con vincoli di installazione, linee pilota,linee di ritorno, scarico e aspirazione
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali, oli a base di esteri sintetici (fino a +212°F / +100°C), glicoli e poliglicoli, oli in emulsione acquosa ed acqua

INSERTO: MF2000® - TIPO MULTIFIT
TUBE: Gomma sintetica
RINFORZO: Due treccie di acciaio ad alto carico
COPERTURA: Gomma sintetica ad alta resistenza all'abrasione
SPECIFICHE: ISO 18752 grade A, SAE J517 type 100 R19,
OMOLOGAZIONI: MSHA, GOST-R

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GOLDENISO®/45 LONGLIFE

HIGH FATIGUE RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H10089016*	16	-10	5/8"	25,5	1,00	28,5	1,12	460	6670	1840	26680	250	9,84	1290	0,87	IP+M01500-10
H10089019*	19	-12	3/4"	28,4	1,12	32,0	1,26	460	6670	1840	26680	280	11,02	1530	1,03	IP+M01500-12
H10089025*	25	-16	1"	35,4	1,39	38,1	1,50	460	6670	1840	26680	340	13,39	2150	1,44	IP+M01500-16
H10089031*	31	-20	1.1/4"	46,3	1,82	49,5	1,95	450	6520	1800	26100	420	16,54	3790	2,55	IP+M01800-20

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Over standard pressure rating ■ Approved with two severe fatigue qualification programs: 2 millions flexing impulse cycles (ISO 6802, T=100°C, test pressure=120% WP) - 1 million flexing impulse cycles (ISO 6802, T=120°C, test pessure=133% WP for DN 16, 19, 25; 120% WP for DN 31) ■ High performance Nitrile tube compound for the best chemical compatibility with a wide range of hydraulics oils ■ Superior abrasion resistance ■ High ozone and weather resistance ■ Flame retardant and antistatic properties of the cover ■ Wide compatibility with hydraulics fluids, mineral and biodegradable oils ■ Low bend radius and high flexibility ■ New Interlock-Plus easy mounting system

Resistencia a la presión superior a lo indicado en la Norma ■ Aprobado por dos programas severos de cualificación: 2 millones de ciclos flexibles de impulsos (ISO 6802, T=100°C, Presión=120% WP) – 1 millón de ciclos flexibles de impulsos (ISO 6802, T=120°C, Presión=133% WP para DN 16, 19, 25; 120% WP para DN 31) ■ Altas Prestaciones ■ Tubo interno de Nitrilo para una major compatibilidad con la gama de aceites hidráulicos ■ Superior resistencia a la abrasion ■ Alta resistencia al ozono y a la intemperie ■ Cubierta con retardante a llama y electricidad antiestática ■ Amplia compatibilidad con los fluidos hidráulicos, mineral y aceite biodegradable ■ Reducido radio de curvature y alta flexibilidad ■ Nuevo Interlock-Plus para fácil montaje

Druckbeständigkeit über Norm ■ Zwei äußerst strenge Dauerfestigkeitsprüfungen bestanden: 2 Mio. Biegeimpulszyklen (ISO 6802, T=100°C, Testdruck=120% WP) - 1 Million Biegeimpulszyklen (ISO 6802, T=120°C, Testdruck=133% Betriebsdruck für DN 16, 19, 25; 120% Betriebsdruck für DN 31) ■ Hochleistungsfähige Nitrilmischung für beste chemische Kompatibilität mit einer großen Bandbreite von Hydraulikölen ■ Hervorragende Abriebbeständigkeit ■ Hohe Ozon- und Wetterbeständigkeit ■ Flammhemmende und antistatische Eigenschaften der Decke ■ Hohe Kompatibilität mit Hydraulikflüssigkeiten, Mineralölen und biologisch abbaubaren Ölen ■ Kleiner Biegeradius und hohe Flexibilität ■ Neues Interlock-Plus Armaturensystem für vereinfachte Montage

Resistenza a pressioni superiori agli standard ■ Approvato secondo 2 severi programmi di qualificazione a fatica: 2 milioni di cicli in codizioni rotanti (ISO 6802, T=100°C, pressione di prova = 120% pressione di esercizio); 1 milione di cicli in condizioni rotanti (ISO 6802, T=120°C, pressione di prova = 133% della pressionme di esercizio per DN16, 19,25; 120% della pressione di esercizio per DN31) ■ sottostrato nitrilico altamente performante per la miglior compatibilità chimica con un'ampia gamma di oli idraulici ■ estrema resistenza all'abrasione ■ Elevata resistenza all'ozono ed alle condizioni ambientali ■ Copertura resistente alla propagazione di fiamma e antistatica ■ ampia compatibilità con fluidi idraulici, oli minerali e biodegradabili ■ Ridotto raggio di curvatura e alta flessibilità ■ Nuovo facile sistema di assemblaggio Interlock-Plus

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GOLDENISO®/45 LONGLIFE

TECHNICAL INFO

GB

MAIN APPLICATIONS
Heavy duty pressure lines, hydrostatic transmissions, heavy duty earth moving equipment, hydraulic presses, drilling applications, injection moulding machines, specific installations with severe abrasion conditions and/or heavy duty environmental conditions, marine applications, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +250°F -40°C / +121°C
MAX OPERATING TEMPERATURE
+257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils, glycols and polyglycols, mineral oils in aqueous emulsion, water

INSERT: MF2000® INTERLOCK-PLUS TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Four high tensile steel wire spirals (DN 16÷25)
Six high tensile steel wire spirals (DN 31)
COVER: Synthetic rubber with high ozone, abrasion and weather resistance
APPLICABLE SPECS.: Manuli special design exceeds, SAE J517 type100R15, ISO 3862 R15, ISO 18752-D extension
TYPE APPROVALS: MSHA, GOST-R

ES

PRINCIPALES APLICACIONES
Para líneas de muy alta presión, transmisión hidrostática, equipos de movimiento de tierra, aplicaciones de perforación, máquinas de inyectar, instalaciones específicas con condiciones severas de abrasión y/o condiciones medioambientales, aplicaciones marinas y minería
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +250°F -40°C / +121°C
MÁXIMA TEMPERATURA DE OPERACIÓN
+257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal, aceites con base en éster sintético, aceites basados en glicoles y poliglicoles, aceite en emulsión acuosa, agua

ESPIGA: MF2000® INTERLOCK-PLUS TYPE
TUBO: Caucho sintético resistente al aceite
REFUERZO: Cuatro mallas de acero reforzado (DN 16÷25)
Seis mallas de acero reforzado (DN 31)
CUBIERTA: Caucho sisntético resistente al ozono, abrasión y ambiente
ESPECIFICACIONES APLICABLES: Diseño MANULI®, que excede SAE J517 tipo100R15, ISO 3862 R15, ISO 18752-D extensión
APROBACIONES: MSHA, GOST-R

FLUIDTECHNIK S.R.L 0723 382 199

D

ANWENDUNGSBEREICH
Hochleistungs-Druckleitungen, hydrostatische Antriebe, Baumaschinen, Hydraulikpressen, Bohrgeräte, Spritzgussmaschinen, spezifische Installationen mit hohen Abriebbedingungen und/oder schwerwiegenden Umweltbedingungen, maritime Anwendungen, unterirdischer und überirdischer Bergbau
KONTINUIERLICHER BETRIEBSTEMPERATURBEREICH
-40°F / +250°F -40°C / +121°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE FLÜSSIGKEITEN
Mineralöle, pflanzliche und synthetische esterbasierende Öle, Mineralöle in wässriger Emulsion, Wasser

EINSATZ: MF2000® INTERLOCK-PLUS
SCHLAUCH: Ölbeständiges Synthetikgummi
DRUCKTRÄGER: Vier hochzugfeste Stahldrahtgeflechte (DN 16÷25)
Sechs hochzugfeste Stahldrahtgeflechte (DN 31)
DECKE: Synthetikgummi mit hoher Ozon-, Abrieb- und Wetterbeständigkeit
ANGEWANDTE NORMEN: Das Spezialdesign Manuli übertrifft die Vorschriften SAE J517 Typ100r15, ISO 3862 R15, ISO 18752-D extension
GENEHMIGUNGEN: MSHA, GOST-R

IT

PRINCIPALI APPLICAZIONI
Applicazioni severe in linee di pressione, trasmissioni idrostatiche, applicazioni severe in equipaggiamenti movimento terra, presse idrauliche, applicazioni di perforazione, presse idrauliche per lo stampaggio, specifiche installazioni con severe condizioni di abrasione e/o severe copndizioni ambientali, applicazioni marine, miniere sotterranee ed a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +250°F -40°C / +121°C
PICCO DI TEMPERATURA MASSIMA
+257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e oli sintetici a base di esteri, glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua

INSERTO: MF2000® INTERLOCK-PLUS TYPE
TUBE: Gomma sintetica resistente agli oli
RINFORZO: Quattro trecce di acciaio ad alto carico (DN 16÷25)
Sei treccie di acciaio ad alto carico (DN 31)
COPERTURA: Gomma sintetica con elevata resistenza all'ozono, all'abrasione ed agli agenti atmosferici
SPECIFICHE: Progetto speciale Manuli con performance superiori a SAE J517 type100R15, ISO 3862 R15, ISO 18752-D extension
OMOLOGAZIONI: MSHA, GOST-R

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FLUIDTECHNIK S.R.L.0723 382 199

TWINPOWER®/4000

EASY INSTALLATION FOR OEMs



PART. REF.	HOSE SIZE	R.O.D.	O.D.	MAX W.P.	BURST PRESSURE	MIN. BEND RADIUS	WEIGHT	FITTING

	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01119010*	10	-06	3/8"	15,4	0,61	18,0	0,71	280	4060	1120	16240	65	2,56	830	0,56	MF+M00120-06
H01119012*	12	-08	1/2"	18,5	0,73	21,5	0,85	280	4060	1120	16240	80	3,15	1100	0,74	MF+M00120-08

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Compact hose structure and reduced bend radius ■ Isobaric rating exceeding international specifications ■ Smooth hose cover ensuring user friendly installation inside the booms ■ Unique hose assembly solution for pressure and discharge line on the same body valve ■ Reduced installation time compared to two separated assembly hose solutions ■ Reduced risk of abrasion of the line inside the booms due to twin hose alignment ■ Elimination of clamps to connect the two hose lines, with consequent easyness of insertion ■ Warehouse/logistic optimization with reduced codes in stock

Estructura compacta de mangueras y reducido radio de curvatura ■ Excede la tasa Isobárica de la especificación Internacional ■ Cubierta lisa que asegura una fácil instalación en el interior del mástil ■ Única solución para presión y descarga en el mismo cuerpo de la válvula ■ Se reduce el tiempo de la instalación comparado con la solución de dos mangueras separadas ■ Se reduce el riesgo de abrasion de las líneas del mástil debido a la alineación de la manguera gemela ■ Eliminación de abrazaderas para conectar las dos mangueras, con consecuente comodidad de inserción ■ Optimización del stock/almacén con códigos reducidos en stock

Kompakte Schlauchstruktur und reduzierter Biegeradius ■ Isobarer Druckwert über die internationalen Spezifikationen hinaus ■ Weiche Schlauchdecke für benutzerfreundliche Installation in den Auslegern ■ Einzigartige Lösung für Druck- und Ablassleitung am gleichen Ventilkörper ■ Reduzierte Installationszeit im Vergleich zu zwei getrennten Leitungslösungen ■ Reduzierte Abriebgefahr der Leitung im Ausleger durch zwei nebeneinander verlaufende Schläuche ■ Kein Bedarf an Klemmen, um die Schlauchleitungen zu verbinden mit folglich einfacher Einsetzbarkeit ■ Lager-/Logistikoptimierung durch reduzierte Teilevielfalt

Struttura compatta e ridotto raggio di curvatura ■ Pressioni di esercizio isobariche eccedenti gli standard internazionali ■ Copertura liscia che garantisce facilità installazioni all'interno di bracci telescopici ■ Unico assemblaggio per linea di pressione e di scarico sullo stesso corpo valvola ■ Ridotti tempi di installazione confrontati con soluzioni a 2 tubi separati ■ Ridotto rischio di abrasione nei bracci telescopici dovuta all'allineamento del tubo accoppiato ■ Eliminazione delle fascette per la connessione delle dua linee di tubo, con conseguente facilità di installazione ■ Ottimizzazione logistica e di magazzino con riduzione dei codici a stock

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GB

MAIN APPLICATIONS
Hose range dedicated to aerial lifts, platforms, forklift trucks and telescopic booms applications
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +248°F +120°C
RECOMMENDED FLUIDS
Mineral, vegetable and synthetic ester based oils, glycols and polyglycols, mineral oils in aqueous emulsion, water
REMARK!
Twinned hose line width: DN 10: 36,0 mm (1,42")
DN 12: 43,5 mm (1,71")

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Synthetic rubber
REINFORCEMENT: Two high tensile steel wire braids.
COVER: Synthetic rubber with high ozone, abrasion and weather resistance
APPLICABLE SPECS.: DN 10: ISO 11237 R16, SAE J517 type100R16, DN 12: ISO 11237 2SC, EN 857 2SC, SAE J517 type 100R16S
TYPE APPROVALS: GOST-R

ES

PRINCIPALES APLICACIONES
Gama de manguera dedicada a elevadores, plataformas, carretillas elevadoras y mástiles telescópicos
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +248°F +120°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal, aceites con base en éster sintético, aceites basados en glicoles y poliglicoles, aceite en emulsión acuosa, agua
COMENTARIO!
La anchura de la manguera gemela: DN 10: 36,0 mm (1,42")
DN 12: 43,5 mm (1,71")

ESPIGA: MF2000® - MULTIFIT TYPE
TUBO: Caucho sintético
REFUERZO: Dos trenzas de acero de alta Resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, a la abrasion y a la intemperie
ESPECIFICACIONES APLICABLES: DN 10: ISO 11237 R16, SAE J517 tipo 100R16, DN 12: ISO 11237 2SC, EN 857 2SC, SAE J517 tipo 100R16S
APROBACIONES: GOST-R

FLUIDTECHNIK S.R.L 0723 382 199

D

ANWENDUNGSBEREICH
Produktpalette für Hebebühnen, Gabelstapler und Teleskopbühnen
KONTINUIERLICHER BETRIEBSTEMPERATURBEREICH
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
(unregelmäßiger Einsatz) +248°F +120°C
EMPFOHLENE FLÜSSIGKEITEN
Mineralöle, pflanzliche und synthetische esterbasierende Öle, Glykole und Polyglykole, Mineralöle in wässriger Emulsion, Wasser
WICHTIG!
Breite des gepaarten Schlauches: DN 10: 36,0 mm (1,42")
DN 12: 43,5 mm (1,71")

EINSATZ: MF2000® - MULTIFIT TYPE
SCHLAUCH: Synthetikgummi.
DRUCKTRÄGER: Zwei hochdehnbare Drahtspiralen.
DECKE: Synthetikgummi mit hoher Ozon-, Abrieb- und Wetterbeständigkeit
ANGEWANDTE NORMEN: DN 10: ISO 11237 R16, SAE J517 Typ100r16, DN 12: ISO 11237 2SC, EN 857 2SC, SAE J517 Typ 100R16S
ZULASSUNGEN: GOST-R

IT

PRINCIPALI APPLICAZIONI
Gamma di tubi dedicata ad applicazioni per sollevamento di piattaforme, carrelli elevatori, e bracci idraulici di sollevamento
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Intermittent service) +248°F +120°C
FLUIDI RACCOMANDATI
Oli minerali, vegetali e sintetici a base di esteri, glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua
ATTENZIONE!
Larghezza tubo accoppiato: DN 10: 36,0 mm (1,42")
DN 12: 43,5 mm (1,71")

INSERTO: MF2000® - MULTIFIT TYPE
TUBE: Gomma sintetica.
RINFORZO: Due trecce di acciaio ad alto carico.
COPERTURA: Gomma sintetica con alta resistenza all'ozono, all'abrasione ed agli agenti atmosferici
SPECIFICHE: DN 10: ISO 11237 R16, SAE J517 type100R16, DN 12: ISO 11237 2SC, EN 857 2SC, SAE J517 type 100R16S
OMOLOGAZIONI: GOST-R

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TWINPOWER®/5000

EASY INSTALLATION FOR OEMs



PART. REF.	HOSE SIZE	R.O.D.	O.D.	MAX W.P.	BURST PRESSURE	MIN. BEND RADIUS	WEIGHT	FITTING

	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01120010*	10	-06	3/8"	15,0	0,59	17,6	0,69	350	5070	1400	20300	65	2,56	830	0,56	MF+M00120-06
H01120012*	12	-08	1/2"	18,6	0,73	21,6	0,85	350	5070	1400	20300	80	3,15	1190	0,80	MF+M00120-08

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Compact hose structure and reduced bend radius ■ Isobaric rating exceeding international specifications ■ Smooth hose cover ensuring user friendly installation inside the booms ■ Unique hose assembly solution for pressure and discharge line on the same body valve ■ Reduced installation time compared to two separated assembly hose solutions ■ Reduced risk of abrasion of the line inside the booms due to twin hose alignment ■ Elimination of clamps to connect the two hose lines, with consequent easyness of insertion ■ High abrasion resistant and flame retardant MSHA approved cover ■ Warehouse/logistic optimization with reduced codes in stock

Estructura compacta de mangueras y reducido radio de curvatura ■ Excede la tasa Isobárica de la especificación Internacional ■ Cubierta lisa que asegura una fácil instalación en el interior del mástil ■ Única solución para presión y descarga en el mismo cuerpo de la válvula ■ Se reduce el tiempo de la instalación comparado con la solución de dos mangueras separadas ■ Se reduce el riesgo de abrasion de las líneas del mástil debido a la alineación de la manguera gemela ■ Eliminación de abrazaderas para conectar las dos mangueras, con consecuente comodidad de inserción ■ Alta Resistencia a la abrasión y al retardo de la llama. Cubierta aprobada por MSHA ■ Optimización del stock/almacén con códigos reducidos en stock

Kompakte Schlauchstruktur und reduzierter Biegeradius ■ Isobarer Druckwert über die internationalen Spezifikationen hinaus ■ Weiche Schlauchdecke für benutzerfreundliche Installation in den Auslegern ■ Einzigartige Zusammenbaulösung für Druck- und Ablassleitung am gleichen Ventilkörper ■ Reduzierte Installationszeit im Vergleich zu zwei getrennten Leitungslösungen ■ Reduzierte Abriebgefahr der Leitung im Ausleger durch zwei nebeneinander verlaufende Schläuche ■ Kein Bedarf an Klemmen, um die Schlauchleitungen zu verbinden mit folglich einfacher Einsetzbarkeit. ■ MSHA geprüfte hohe Abriebfestigkeit und flammhemmender Decke ■ Lager-/Logistikoptimierung durch reduzierte Teilevielfalt

Struttura compatta e ridotto raggio di curvatura ■ Pressioni di esercizio isobariche eccedenti gli standard internazionali ■ Copertura liscia che garantisce facilità installazioni all'interno di bracci telescopici ■ Unico assemblaggio per linea di pressione e di scarico sullo stesso corpo valvola ■ Ridotti tempi di installazione confrontati con soluzioni a 2 tubi separati ■ Ridotto rischio di abrasione nei bracci telescopici dovuta all'allineamento del tubo accoppiato ■ Eliminazione delle fascette per la connessione delle dua linee di tubo, con conseguente facilità di installazione ■ Copertura con più elevata resistenza all'abrasione e resistenza alla propagazione di fiamma approvata MSHA ■ Ottimizzazione logistica e di magazzino con riduzione dei codici a stock

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GB

MAIN APPLICATIONS
Hose range dedicated to aerial lifts, platforms, forklift trucks and telescopic booms applications
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +248°F +120°C
RECOMMENDED FLUIDS
Mineral, vegetable and synthetic ester based oils, glycols and polyglycols, mineral oils in aqueous emulsion, water
REMARK!
Twinned hose line width: DN 10: 36,0 mm (1,42")
DN 12: 43,5 mm (1,71")

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Synthetic rubber
REINFORCEMENT: Two high tensile steel wire braids
COVER: Synthetic rubber with high ozone, abrasion and weather resistance
APPLICABLE SPECS.: exceed ISO 11237 2SC, EN 857 2SC, SAE J517 type 100R16S
TYPE APPROVALS: GOST-R, MSHA

ES

PRINCIPALES APLICACIONES
Gama de manguera dedicada a elevadores, plataformas, carretillas elevadoras y mástiles telescópicos
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +248°F +120°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal, aceites con base en éster sintético, aceites basados en glicoles y poliglicoles, aceite en emulsión acuosa, agua
COMENTARIO!
La anchura de la manguera gemela: DN 10: 36,0 mm (1,42")
DN 12: 43,5 mm (1,71")

ESPIGA: MF2000® - MULTIFIT TYPE
TUBO: Caucho sintético
REFUERZO: Dos trenzas de acero de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, a la abrasion y a la intemperie
ESPECIFICACIONES APLICABLES: excede ISO 11237 2SC, EN 857 2SC, SAE J517 tipo 100R16S
APROBACIONES: GOST-R, MSHA

FLUIDTECHNIK S.R.L 0723 382 199

D

ANWENDUNGSBEREICH
Produktpalette für Hebebühnen, Gabelstapler und Teleskopbühnen
KONTINUIERLICHER BETRIEBSTEMPERATURBEREICH
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
(unregelmäßiger Einsatz) +248°F +120°C
EMPFOHLENE FLÜSSIGKEITEN
Mineralöle, pflanzliche und synthetische esterbasierende Öle, Glykole und Polyglykole, Mineralöle in wässriger Emulsion, Wasser
WICHTIG!
Breite des gepaarten Schlauches: DN 10: 36,0 mm (1,42")
DN 12: 43,5 mm (1,71")

EINSATZ: MF2000® - MULTIFIT TYPE
SCHLAUCH: Synthetikgummi
DRUCKTRÄGER: Zwei hochdehnbare Drahtspiralen
DECKE: Synthetikgummi mit hoher Ozon-, Abrieb- und Wetterbeständigkeit
ANGEWANDTE NORMEN: über ISO 11237 2SC, EN 857 2SC, SAE J517 Typ 100R16S
ZULASSUNGEN: GOST-R, MSHA

IT

PRINCIPALI APPLICAZIONI
Gamma di tubi dedicata ad applicazioni per sollevamento di piattaforme, carrelli elevatori, e bracci idraulici di sollevamento
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +248°F +120°C
FLUIDI RACCOMANDATI
Oli minerali, vegetali e sintetici a base di esteri, glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua
ATTENZIONE!
Larghezza tubo accoppiato: DN 10: 36,0 mm (1,42")
DN 12: 43,5 mm (1,71")

INSERTO: MF2000® - MULTIFIT TYPE
TUBE: Gomma sintetica
RINFORZO: Due trecce di acciaio ad alto carico
COPERTURA: Gomma sintetica con alta resistenza all'ozono, all'abrasione ed agli agenti atmosferici
SPECIFICHE: exceed ISO 11237 2SC, EN 857 2SC, SAE J517 type 100R16S
OMOLOGAZIONI: GOST-R, MSHA

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SHIELDMASTER®/2000

OUTSTANDING ABRASION RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01106A06*	6	-04	1/4"	10,2	0,40	12,3	0,48	140	2030	560	8120	50	1,97	185	0,12	MF+M00120-04
H01106010*	10	-06	3/8"	13,6	0,54	15,8	0,62	140	2030	560	8120	60	2,36	270	0,18	MF+M00120-06
H01106012*	12	-08	1/2"	17,1	0,67	19,3	0,76	140	2030	560	8120	70	2,76	350	0,24	MF+M00120-08

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Outstanding abrasion and ozone resistance ■ Compact overall dimensions ■ Easy assembly and mounting operations (no protection sleeves required) ■ Isobaric pressure rating ■ FROST suitable for very cold environments ■ Compact solution for difficult installation

Gran resistencia a la abrasión y al ozono ■ Dimensiones generales estándar ■ Fácil ensamble y montaje (no se requieren mangas de protección) ■ Gama de presión isobárica ■ FROST disponible para ambientes extremadamente fríos ■ Gran flexibilidad para ser instalada en espacios reducidos

Außerordentliche Abrieb- und Ozonbeständigkeit ■ Standardmaße ■ Leichte Montage (Keine Scheuerschutzwendel nötig) ■ Isobarische Druck-Reihe ■ FROST geeignet für sehr kalte Umgebung

Eccellente resistenza all'abrasione e all'ozono ■ Struttura compatta ■ Semplicità di assemblaggio e montaggio (non sono necessarie guaine di protezione esterne) ■ Pressioni di esercizio isobariche ■ FROST ideale per ambienti con temperature glaciali

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SHIELDMASTER®/2000

TECHNICAL INFO

GB

MAIN APPLICATIONS
Low pressure lines with extreme abrasion conditions (e.g. bunched-up hoses, localised contacts with sharp edges and extraneous bodies/particles, wear due to sliding over the ground, alternative to spring guards). Pilot lines with shield architecture
CONTINUOUS SERVICE TEMPERATURE RANGE
-49°F / +212°F -45°C / +100°C
MIN. EXTERNAL TEMPERATURE
-67°F -55°C
MAX. OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and rape seed oils, glycols and polyglycols based oils, synthetic ester based oils, oils in aqueous emulsion, water
REMARK: Halogen-Free hose line

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: One high tensile steel braid
COVER: Composite bi-layer structure with oustanding abrasion resistance
APPLICABLE SPECS.: MANULI® Design
TYPE APPROVALS: GOST-R

ES

PRINCIPALES APLICACIONES
Líneas de baja presión con extremas condiciones de abrasión (Ej. Mangueras rozando entre si, contactos con bordes cortantes y partículas/cuerpos extraños, abrasión debida a deslizamiento sobre el suelo, evita el uso de protectores de cubierta en espiral tipo coil.). Líneas pilotaje con proteccion superior en su cubierta
TEMPERATURA CONTINUA DE SERVICIO
-49°F / +212°F -45°C / +100°C
MIN EXTERNAL TEMPERATURE
-67°F -55°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceites vegetales y de colza, aceites con base en glicoles y poliglicoles, aceites basados en éster sintético, aceites en emulsión acuosa, agua
COMENTARIO: gama de mangueras "Halogen-Free"

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Un refuerzo trenzado de acero de alto tensil
CUBIERTA: Estructura de compuesto de doble capa con gran resistencia a la abrasión
ESPECIFICACIONES APLICABLES: Diseño MANULI®
APROBACIONES: GOST-R

FLUIDTECHNIK S.R.L 0723 382 199

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HAUPT-ANWENDUNGSGEBIET
Niederdruckleitung mit hoher Abriebbeständigkeit (Schlauchleitungsbündel, lokalisierte Kontakte mit scharfen Kanten und Fremdkörper Partikel, Verschleiß durch am Boden schleifen, alternativ zu Scheuerschutzwendel). Kompakte Lösung für schwierige Einbausituation
DAUERBETRIEB
-49°F / +212°F -45°C / +100°C
MIN. AUSSEN TEMPERATUR
-67°F -55°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Rapsöl, Glykol, Öl auf Polyglykolbasis, Wasser/Ölemulsion, Synthetik-Esterbasis, Wasser
WICHTIG: hydraulikschläuche "Halogen-Free"

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Ein hochzugfestes Stahldrahtgeflecht
DECKE: Gemischte Doppel-Lagen Struktur mit außerordentlicher Abriebbeständigkeit
ANGEWANDTE NORM: MANULI® Design
ZULASSUNGEN: GOST-R

IT

PRINCIPALI APPLICAZIONI
Linee a bassa pressione in condizioni di abrasione estreme (ad es. fasci di tubi, contatti con spigoli vivi e corpi/particelle esterne, usura dovuta a contatto continuo con il terreno, alternativa a molle/guaine di protezione). Soluzione compatta per installazione difficili
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-49°F / +212°F -45°C / +100°C
TEMPERATURA ESTERNA MINIMA
-67°F -55°C
MAX. OPERATING TEMPERATURE
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua
ATTENZIONE: gamma di tubi "Halogen-Free"

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Una treccia di acciaio ad alto carico
COPERTURA: Struttura composita bi-strato con eccellente resistenza all'abrasione
SPECIFICHE: MANULI® Design
OMOLOGAZIONI: GOST-R

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SHIELDMASTER®/4000

OUTSTANDING ABRASION RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01031006*	6	-04	1/4"	11,6	0,46	13,6	0,54	276	4000	1110	16090	50	1,97	275	0,18	MF+M00120-04
H01031008*	8	-05	5/16"	12,9	0,51	14,9	0,59	276	4000	1110	16090	57	2,24	295	0,20	MF+M00120-05
H01031010*	10	-06	3/8"	15,4	0,61	17,4	0,69	276	4000	1110	16090	63	2,48	400	0,27	MF+M00120-06
H01031012*	12	-08	1/2"	18,5	0,73	20,7	0,81	276	4000	1110	16090	80	3,15	510	0,34	MF+M00120-08
H01031016*	16	-10	5/8"	22,7	0,89	25,1	0,99	276	4000	1110	16090	90	3,54	730	0,49	MF+M00120-10
H01031019*	19	-12	3/4"	27,1	1,07	29,7	1,17	276	4000	1110	16090	120	4,72	1070	0,72	MF+M00120-12
H01031025*	25	-16	1"	35,1	1,38	38,1	1,50	276	4000	1110	16090	267	10,51	1950	1,31	MF+M00920-16
H01031031*	31	-20	1.1/4"	43,8	1,72	47,0	1,85	276	4000	1110	16090	400	15,75	2590	1,74	MF+M00920-20
H01031038*	38	-24	1.1/2"	50,0	1,97	53,5	2,11	276	4000	1110	16090	500	19,69	3160	2,12	MF+M00910-24
H01031051*	51	-32	2"	63,5	2,50	68,0	2,68	276	4000	1110	16090	700	27,56	4580	3,08	IP+M01500-32

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Outstanding abrasion and ozone resistance ■ Compact overall dimensions ■ Easy assembly and mounting operations (no protection sleeves required) ■ Isobaric pressure rating ■ FROST suitable for very cold environments

Gran resistencia a la abrasión y al ozono ■ Dimensiones generales estándar ■ Fácil ensamble y montaje (no se requieren mangas de protección) ■ Gama de presión isobárica ■ FROST disponible para ambientes extremadamente fríos

Außerordentliche Abrieb- und Ozonbeständigkeit ■ Standardmaße ■ Leichte Montage (Keine Scheuerschutzwendel nötig) ■ Isobarische Druck-Reihe ■ FROST geeignet für sehr kalte Umgebung

Eccellente resistenza all'abrasione e all'ozono ■ Struttura compatta ■ Semplicità di assemblaggio e montaggio (non sono necessarie guaine di protezione esterne) ■ Pressioni di esercizio isobariche ■ FROST ideale per ambienti con temperature glaciali

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GB

MAIN APPLICATIONS
High pressure lines with extreme abrasion conditions (e.g. bunched-up hoses, localised contacts with sharp edges and extraneous bodies/particles, wear due to sliding over the ground, alternative to spring guards)
CONTINUOUS SERVICE TEMPERATURE RANGE
-49°F / +212°F -45°C / +100°C
MIN EXTERNAL TEMPERATURE
-67°F -55°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils, (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water
REMARK: Halogen-Free hose line

INSERT: MF2000® - MULTIFIT TYPE (DN 6÷38)
MF2000® - INTERLOCK PLUS TYPE (DN 51)
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two high tensile steel braids (DN 6÷19). Four high tensile steel spirals (DN 25÷51)
COVER: Composite bi-layer structure with oustanding abrasion resistance
APPLICABLE SPECS.: MANULI® Design
TYPE APPROVALS: GOST-R

ES

PRINCIPALES APLICACIONES
Líneas de baja presión con extremas condiciones de abrasión (Ej. Mangueras rozando entre si, contactos con bordes cortantes y partículas/cuerpos extraños, abrasión debida a deslizamiento sobre el suelo, evita el uso de protectores de cubierta en espiral tipo coil)
TEMPERATURA CONTINUA DE SERVICIO
-49°F / +212°F -45°C / +100°C
MIN EXTERNAL TEMPERATURE
-67°F -55°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y aceite basado en éster sintético (hasta +212°F / +100°C), glicoles y poliglicoles, aceite mineral en emulsión acuosa, agua
COMENTARIO: gama de mangueras "Halogen-Free"

ESPIGA: MF2000® - TIPO MULTIFIT (DN 6÷38)
MF2000® - TIPO INTERLOCK PLUS (DN 51)
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Dos refuerzos trenzados de acero de alta resistencia (DN 6÷19). Cuatro refuerzos en espiral de acero de alta resistencia (DN 25÷51)
CUBIERTA: Estructura de compuesto de doble capa con gran resistencia a la abrasión
ESPECIFICACIONES APLICABLES: Diseño MANULI®
APROBACIONES: GOST-R

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D

HAUPT-ANWENDUNGSGEBIET
Hochdruckleitung mit hoher Abriebbeständigkeit (gebündelte Schlauchleitungen, lokalisierte Kontakte mit scharfen Kanten und Fremdkörper Partikel, Verschleiß durch am Boden schleifen, alternativ zu Scheuerschutzwendel)
DAUERBETRIEB
-49°F / +212°F -45°C / +100°C
MIN. AUSSEN TEMPERATUR
-67°F -55°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Glykol, Öl auf Polyglykolbasis, Wasser/ Mineralölemulsion, Synthetik-Esterbasis bis +212°F / +100°C Wasser
WICHTIG: hydraulikschläuche "Halogen-Free"

NIPPEL: MF2000® - MULTIFIT (DN 6÷38)
MF2000® - INTERLOCK PLUS (DN 51)
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Zwei hochzugfeste Stahldrahtgeflechte (DN 6÷19).
Vierhochzugfeste Stahldrahtspiralen (DN 25÷51)
DECKE: Gemischte Doppel-Lagen Struktur mit außerordentlicher Abriebbeständigkeit
ANGEWANDTE NORM: MANULI® Design
ZULASSUNGEN: GOST-R

IT

PRINCIPALI APPLICAZIONI
Linee ad alta pressione in condizioni di abrasione estreme (ad es. fasci di tubi, contatti con spigoli vivi e corpi/particelle esterne, usura dovuta a contatto continuo con il terreno, alternativa a molle/guaine di protezione)
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-49°F / +212°F -45°C / +100°C
TEMPERATURA ESTERNA MINIMA
-67°F -55°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, glicoli e poliglicoli, oli a base di esteri sintetici (fino a +212°F / +100°C), oli in emulsione acquosa, acqua
ATTENZIONE: gamma di tubi "Halogen-Free"

INSERTO: MF2000® - TIPO MULTIFIT (DN 6÷38)
MF2000® - TIPO INTERLOCK PLUS (DN 51)
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Due trecce di acciaio ad alto carico (DN 6÷19). Quattro spirali di acciaio ad alto carico (DN 25÷51)
COPERTURA: Struttura composita bi-strato con eccellente resistenza all'abrasione
SPECIFICHE: MANULI® Design
OMOLOGAZIONI: GOST-R

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SHIELDMASTER®/5000

OUTSTANDING ABRASION RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01032006*	6	-04	1/4"	11,6	0,46	13,6	0,54	345	5000	1380	20010	50	1,97	275	0,18	MF+M00120-04
H01032008*	8	-05	5/16"	12,9	0,51	15,1	0,59	345	5000	1380	20010	55	2,17	340	0,23	MF+M00120-05
H01032010*	10	-06	3/8"	15,0	0,59	17,2	0,68	345	5000	1380	20010	65	2,56	400	0,27	MF+M00120-06
H01032012*	12	-08	1/2"	19,8	0,78	22,2	0,87	345	5000	1380	20010	120	4,72	650	0,44	MF+M00910-08
H01032016*	16	-10	5/8"	24,4	0,96	27,2	1,07	345	5000	1380	20010	200	7,87	980	0,66	MF+M00910-10
H01032019*	19	-12	3/4"	28,2	1,11	31,2	1,23	345	5000	1380	20010	230	9,06	1360	0,91	IP+M01500-12
H01032025*	25	-16	1"	35,1	1,38	38,1	1,50	345	5000	1380	20010	267	10,51	1950	1,31	IP+M01500-16

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Outstanding abrasion and ozone resistance ■ Compact overall dimensions ■ Easy assembly and mounting operations (no protection sleeves required) ■ Isobaric pressure rating ■ FROST suitable for very cold environments

Gran resistencia a la abrasión y al ozono ■ Dimensiones generales estándar ■ Fácil ensamble y montaje (no se requieren mangas de protección) ■ Gama de presión isobárica ■ FROST disponible para ambientes extremadamente fríos

Außerordentliche Abrieb- und Ozonbeständigkeit ■ Standardmaße ■ Leichte Montage (Keine Scheuerschutzwendel nötig) ■ Isobarische Druck-Reihe ■ FROST geeignet für sehr kalte Umgebung

Eccellente resistenza all'abrasione e all'ozono ■ Struttura compatta ■ Semplicità di assemblaggio e montaggio (non sono necessarie guaine di protezione esterne) ■ Pressioni di esercizio isobariche ■ FROST ideale per ambienti con temperature glaciali

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GB

MAIN APPLICATIONS
Heavy duty power lines with extreme abrasion conditions (e.g. bunched-up hoses, localised contacts with sharp edges and extraneous bodies/particles, wear due to sliding over the ground, alternative to spring guards)
CONTINUOUS SERVICE TEMPERATURE RANGE
-49°F / +212°F -45°C / +100°C
MIN EXTERNAL TEMPERATURE
-67°F -55°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water
REMARK: Halogen-Free hose line

INSERT: MF2000® - MULTIFIT TYPE (DN 6÷16)
MF2000® - INTERLOCK PLUS TYPE (DN 19÷25)
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two high tensile steel braids (DN 6÷12). Four high tensile steel spirals (DN 16÷25)
COVER: Composite bi-layer structure with oustanding abrasion resistance
APPLICABLE SPECS.: MANULI® Design
TYPE APPROVALS: GOST-R

ES

PRINCIPALES APLICACIONES
Líneas de presión para trabajo pesado con extremas condiciones de abrasión (Ej. Mangueras rozando entre si, contactos con bordes cortantes y partículas/cuerpos extraños, abrasión debida a deslizamiento sobre el suelo, evita el uso de protectores de cubierta en espiral tipo coil)
TEMPERATURA CONTINUA DE SERVICIO
-49°F / +212°F -45°C / +100°C
MIN EXTERNAL TEMPERATURE
-67°F -55°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y aceites con base en éster sintético (hasta +212°F / +100°C), glicoles y poliglicoles, aceite en emulsión acuosa, agua
COMENTARIO: gama de mangueras "Halogen-Free"

ESPIGA: MF2000® - TIPO MULTIFIT (DN 6÷16)
MF2000® - INTERLOCK PLUS TYPE (DN 19÷25)
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Dos refuerzos trenzados de acero (DN 6÷12). Cuatro refuerzos en espiral (DN 16÷25)
CUBIERTA: Estructura de compuesto de doble capa con gran resistencia a la abrasión
ESPECIFICACIONES APLICABLES: Diseño MANULI®
APROBACIONES: GOST-R

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Hochdruckleitung mit hoher Abriebbeständigkeit (gebündelte Schlauchleitungen, lokalisierte Kontakte mit scharfen Kanten und Fremdkörper Partikel, Verschleiß durch am Boden schleifen, alternativ zu Scheuerschutzwendel)
DAUERBETRIEB
-49°F / +212°F -45°C / +100°C
MIN. AUSSEN TEMPERATUR
-67°F -55°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Glykol, Öl auf Polyglykolbasis, Wasser/Mineralölemulsion, Synthetik-Esterbasis bis +212°F / +100°C Wasser
WICHTIG: hydraulikschläuche "Halogen-Free"

NIPPEL: MF2000® - MULTIFIT (DN 6÷16)
MF2000® - INTERLOCK PLUS (DN 19÷25)
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Zwei hochzugfeste Stahldrahtgeflechte (DN 6÷12). Vier hochzugfeste Stahldrahtspiralen (DN 16÷25)
DECKE: Gemischte Doppel-Lagen Struktur mit außerordentlicher Abriebbeständigkeit
ANGEWANDTE NORM: MANULI® Design
ZULASSUNGEN: GOST-R

IT

PRINCIPALI APPLICAZIONI
Linee ad alta pressione in condizioni di abrasione estreme (ad es. fasci di tubi, contatti con spigoli vivi e corpi/particelle esterne, usura dovuta a contatto continuo con il terreno, alternativa a molle/guaine di protezione)
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-49°F / +212°F -45°C / +100°C
TEMPERATURA ESTERNA MINIMA
-67°F -55°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, glicoli e poliglicoli, oli a base di esteri sintetici (fino a +212°F / +100°C), oli in emulsione acquosa, acqua
ATTENZIONE: gamma di tubi "Halogen-Free"

INSERTO: MF2000® - TIPO MULTIFIT (DN 6÷16)
MF2000® - TIPO INTERLOCK PLUS (DN 19÷25)
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Due trecce di acciaio ad alto carico (DN 6÷12). Quattro spirali di acciaio ad alto carico (DN 16÷25)
COPERTURA: Struttura composita bi-strato con eccellente resistenza all'abrasione
SPECIFICHE: MANULI® Design
OMOLOGAZIONI: GOST-R

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FLUIDTECHNIK S.R.L.0723 382 199

SHIELDMASTER®/6000

OUTSTANDING ABRASION RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01A32006*	6	-04	1/4"	11,3	0,44	13,5	0,53	420	6090	1680	24360	45	1,77	290	0,19	MF+M00120-04
H01A32010*	10	-06	3/8"	17,6	0,69	20,6	0,81	420	6090	1680	24360	110	4,33	710	0,48	MF+M00910-06
H01A32012*	12	-08	1/2"	20,3	0,80	23,5	0,93	420	6090	1680	24360	120	4,72	845	0,56	MF+M00910-08
H01A32016*	16	-10	5/8"	23,7	0,93	27,0	1,06	420	6090	1680	24360	140	5,51	1000	0,67	MF+M00910-10
H01A32019*	19	-12	3/4"	28,2	1,11	32,0	1,26	420	6090	1680	24360	170	6,69	1480	0,99	IP+M01500-12
H01A32025*	25	-16	1"	35,1	1,38	38,1	1,50	420	6090	1680	24360	220	8,66	2050	1,38	IP+M01500-16
H01A32031*	31	-20	1.1/4"	46,3	1,82	49,5	1,95	420	6090	1680	24360	267	10,51	3690	2,48	IP+M01600-20
H01A32038*	38	-24	1.1/2"	54,6	2,15	57,8	2,28	420	6090	1680	24360	315	12,40	4780	3,21	IP+M01600-24
H01A32051*	51	-32	2"	68,4	2,69	72,0	2,83	420	6090	1680	24360	600	23,62	6760	4,54	XL+M01800-32

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Outstanding abrasion and ozone resistance ■ Compact overall dimensions ■ Easy assembly and mounting operations (no protection sleeves required) ■ Isobaric pressure rating ■ FROST suitable for very cold environments

Gran resistencia a la abrasión y al ozono ■ Dimensiones generales estándar ■ Fácil ensamble y montaje (no se requieren mangas de protección) ■ Gama de presión isobárica ■ FROST disponible para ambientes extremadamente fríos

Außerordentliche Abrieb- und Ozonbeständigkeit ■ Standardmaße ■ Leichte Montage (Keine Scheuerschutzwendel nötig) ■ Isobarische Druck-Reihe ■ FROST geeignet für sehr kalte Umgebung

Eccellente resistenza all'abrasione e all'ozono ■ Struttura compatta ■ Semplicità di assemblaggio e montaggio (non sono necessarie guaine di protezione esterne) ■ Pressioni di esercizio isobariche ■ FROST ideale per ambienti con temperature glaciali

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SHIELDMASTER®/6000

TECHNICAL INFO

GB

MAIN APPLICATIONS
Heavy duty power lines with extreme abrasion conditions (e.g. bunched-up hoses, localised contacts with sharp edges and extraneous bodies/particles, wear due to sliding over the ground, alternative to spring guards)
CONTINUOUS SERVICE TEMPERATURE RANGE
-49°F / +212°F -45°C / +100°C
MIN EXTERNAL TEMPERATURE
-67°F -55°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water
REMARK: Halogen-Free hose line

INSERT: MF2000® - MULTIFIT TYPE (DN 6÷16)
MF2000® - INTERLOCK PLUS TYPE (DN 19÷38)
MF2000® - XTRALOCK TYPE (DN 51)
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two high tensile steel braids (DN 6).
Four high tensile steel spirals (DN 10÷25).
Six high tensile steel spirals (DN 31÷51)
COVER: Composite bi-layer structure with oustanding abrasion resistance
APPLICABLE SPECS.: MANULI® Design
TYPE APPROVALS: GOST-R

ES

PRINCIPALES APLICACIONES
Líneas de presión para trabajo pesado con extremas condiciones de abrasión (Ej. Mangueras rozando entre si, contactos con bordes cortantes y partículas/cuerpos extraños, abrasión debida a deslizamiento sobre el suelo, evita el uso de protectores de cubierta en espiral tipo coil)
TEMPERATURA CONTINUA DE SERVICIO
-49°F / +212°F -45°C / +100°C
MIN EXTERNAL TEMPERATURE
-67°F -55°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y aceites con base en éster sintético (hasta +212°F / +100°C), glicoles y poliglicoles, aceite en emulsión acuosa, agua
COMENTARIO: gama de mangueras "Halogen-Free"

ESPIGA: MF2000® - TIPO MULTIFIT (DN 6÷16)
MF2000® - TIPO INTERLOCK PLUS (DN 19÷38)
MF2000® - TIPO XTRALOCK (DN 51)
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Dos refuerzos trenzados de acero (DN 6).
Cuatro refuerzos en espiral (DN 10÷25). Seis refuerzos en espiral de acero de altaresistencia desde (DN 31÷51)
CUBIERTA: Estructura de compuesto de doble capa con gran resistencia a la abrasión
ESPECIFICACIONES APLICABLES: Diseño MANULI®
APROBACIONES: GOST-R

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Hoch belastbare Leitung mit hoher Abriebbeständigkeit (gebündelte Schlauchleitungen, lokalisierte Kontakte mit scharfen Kanten und Fremdkörper Partikel, Verschleiß durch am Boden schleifen, alternativ zu Scheuerschutzwendel)
DAUERBETRIEB
-49°F / +212°F -45°C / +100°C
MIN. AUSSEN TEMPERATUR
-67°F -55°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Glykol, Öl auf Polyglykolbasis, Wasser/Mineralölemulsion, Synthetik-Esterbasis bis +212°F / +100°C Wasser
WICHTIG: hydraulikschläuche "Halogen-Free"

NIPPEL: MF2000® - MULTIFIT (DN 6÷16)
MF2000® - INTERLOCK PLUS (DN 19÷38)
MF2000® - XTRALOCK (DN 51)
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Zwei hochzugfeste Stahldrahtgeflechte (DN 6).
Vier hochzugfeste Stahldrahtspiralen (DN 10÷25).
Sechs hochzugfeste Stahldrahtspiralen (DN 31÷51)
DECKE: Gemischte Doppel-Lagen Struktur mit außerordentlicher Abriebbeständigkeit
ANGEWANDTE NORM: MANULI® Design
ZULASSUNGEN: GOST-R

IT

PRINCIPALI APPLICAZIONI
Ideale per applicazioni severe in condizioni di abrasione estreme (ad es. fasci di tubi, contatti con spigoli vivi e corpi/particelle esterne, usura dovuta a contatto continuo con il terreno, alternativa a molle/guaine di protezione)
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-49°F / +212°F -45°C / +100°C
TEMPERATURA ESTERNA MINIMA
-67°F -55°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, glicoli e poliglicoli, oli a base di esteri sintetici (fino a +212°F / +100°C), oli in emulsione acquosa, acqua
ATTENZIONE: gamma di tubi "Halogen-Free"

INSERTO: MF2000® - TIPO MULTIFIT (DN 6÷16)
MF2000® - TIPO INTERLOCK PLUS(DN 19÷38)
MF2000® - TIPO XTRALOCK (DN 51)
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Due trecce di acciaio ad alto carico (DN 6).
Quattro spirali di acciaio ad alto carico (DN 10÷25).
Sei spirali di acciaio ad alto carico (DN 31÷51)
COPERTURA: Struttura composita bi-strato con eccellente resistenza all'abrasione
SPECIFICHE: MANULI® Design
OMOLOGAZIONI: GOST-R

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XTRAFLEX™/4000

EXTREME FLEXIBILITY



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H10065019*	19	-12	3/4"	27,4	1,08	30,4	1,20	280	4060	1120	16240	120	4,72	1130	0,76	MF+M00920-12
H10065025*	25	-16	1"	35,1	1,38	38,1	1,50	280	4060	1120	16240	150	5,91	1940	1,30	MF+M00920-16
H10065031*	31	-20	1.1/4"	43,8	1,72	47,0	1,85	280	4060	1120	16240	210	8,27	2600	1,75	MF+M00920-20

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Excellent flexibility (low bending force) ■ Reduced bend radius ■ Easy mounting in severe installations ■ Isobaric pressure rating ■ bio biological and mineral oils compatibility

Excelente flexibilidad ■ Reducido radio de curvatura ■ Fácil montaje en instalaciones difíciles ■ Gama de presión isobárica ■ bio compatible con aceites minerales y biológicos

Exzellente Flexibilität ■ Wenig Biegekraft notwendig ■ Verkleinerter Biegeradius ■ Leichte Montage bei Problem-Installationen ■ Isobarische Druck-Reihe ■ bio Beständigkeit gegen Bio- und Mineralöle

Eccellente flessibilità ■ Raggio di curvatura ridotto ■ Facilità di montaggio in installazioni difficoltose ■ Pressioni di esercizio isobariche ■ bio compatibilità con oli biologici e minerali

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GB

MAIN APPLICATIONS
High pressure power lines with short assemblies in severe installations
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +250°F -40°C / +121°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water
RECOMMENDED LENGTH BETWEEN FIXTURES
DN 19 ≤ 80 cm; DN 25 ≤ 120 cm; DN 31 ≤ 160 cm

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Four high tensile steel spirals
COVER: Synthetic rubber with high ozone, weather and heat resistance.
APPLICABLE SPECS.: MANULI® Design, ISO 18752-C
TYPE APPROVALS: MSHA, GOST-R

ES

PRINCIPALES APLICACIONES
Líneas de alta presión con ensambles cortos en instalaciones difíciles
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +250°F -40°C / +121°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y aceite basado en éster sintético (hasta +212°F / +100°C), glicoles y poliglicoles, aceite mineral en emulsión acuosa, agua
LONGITUD RECOMENDADA ENTRE PUNTOS FIJOS
DN 19 ≤ 80 cm; DN 25 ≤ 120 cm; DN 31 ≤ 160 cm

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Cuatro refuerzos de acero en espiral de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor.
ESPECIFICACIONES APLICABLES: Diseño MANULI®, ISO 18752-C
APROBACIONES: MSHA, GOST-R

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D

HAUPT-ANWENDUNGSGEBIET
Sehr kurze Hochdruckleitungen, bei schwierigen Montagebedingungen
DAUERBETRIEB
-40°F / +250°F -40°C / +121°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Glykol, Öl auf Polyglykolbasis, Wasser/ Mineralölemulsion, Synthetik-Esterbasis bis +212°F / +100°C Wasser
EMPFOHLENE LÄNGE ZWISCHEN FIXPUNKTEN
DN 19 ≤ 80 cm; DN 25 ≤ 120 cm; DN 31 ≤ 160 cm

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Vier hochzugfeste Stahldrahtspiralen
DECKE: Synthetisches Gummi mit hoher Ozon-, Wetter- und Temperaturbeständigkeit.
ANGEWANDTE NORM: MANULI® Design, ISO 18752-C
ZULASSUNGEN: MSHA, GOST-R

IT

PRINCIPALI APPLICAZIONI
Ideale per applicazioni severe che necessitano di assemblati di lunghezza ridotta da montare in spazi ridotti con difficoltà di installazione
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +250°F -40°C / +121°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e oli a base di esteri sintetici (fino a +212°F / +100°C), glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua
LUNGHEZZA MASSIMA RACCOMANDATA TRA LE ESTREMITÀ
DN 19 ≤ 80 cm; DN 25 ≤ 120 cm; DN 31 ≤ 160 cm

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Quattro spirali di acciaio ad alto carico
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore
SPECIFICHE: MANULI® Design, ISO 18752-C
OMOLOGAZIONI: MSHA, GOST-R

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XTRAFLEX™/5000

EXTREME FLEXIBILITY



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H10016019*	19	-12	3/4"	28,2	1,11	31,2	1,23	350	5070	1400	20300	120	4,72	1360	0,91	IP+M01500-12
H10016025*	25	-16	1"	35,1	1,38	38,1	1,50	350	5070	1400	20300	150	5,91	1930	1,30	IP+M01500-16
H10016031*	31	-20	1.1/4"	42,2	1,66	45,2	1,78	350	5070	1400	20300	350	13,78	2430	1,63	IP+M01500-20

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Excellent flexibility (low bending force) ■ Reduced bend radius ■ Easy mounting in severe installations ■ Isobaric pressure rating ■ bio biological and mineral oils compatibility

Excelente flexibilidad ■ Reducido radio de curvatura ■ Fácil montaje en instalaciones difíciles ■ Gama de presión isobárica ■ bio compatible con aceites minerales y biológicos

Exzellente Flexibilität ■ Wenig Biegekraft notwendig ■ Verkleinerter Biegeradius ■ Leichte Montage bei Problem-Installationen ■ Isobarische Druck-Reihe ■ bio Beständigkeit gegen Bio- und Mineralöle

Eccellente flessibilità ■ Raggio di curvatura ridotto ■ Facilità di montaggio in installazioni difficoltose ■ Pressioni di esercizio isobariche ■ bio compatibilità con oli biologici e minerali

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XTRAFLEX™/5000

TECHNICAL INFO

GB

MAIN APPLICATIONS
Heavy duty power lines with short assemblies in severe installations
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +250°F -40°C / +121°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water
RECOMMENDED LENGTH BETWEEN FIXTURES
DN 19 ≤ 80 cm; DN 25 ≤ 120 cm; DN 31 ≤ 160 cm

INSERT: MF2000® - INTERLOCK PLUS TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Four high tensile steel spirals
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: MANULI® Design, ISO 18752-C
TYPE APPROVALS: MSHA, GOST-R

ES

PRINCIPALES APLICACIONES
Líneas de alta presión y trabajo pesado con ensambles cortos en instalaciones difíciles
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +250°F -40°C / +121°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y aceite basado en éster sintético (hasta +212°F / +100°C), glicoles y poliglicoles, aceite mineral en emulsión acuosa, agua
LONGITUD RECOMENDADA ENTRE PUNTOS FIJOS
DN 19 ≤ 80 cm; DN 25 ≤ 120 cm; DN 31 ≤ 160 cm

ESPIGA: MF2000® - TIPO INTERLOCK PLUS
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Cuatro refuerzos de acero en espiral de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Diseño MANULI®, ISO 18752-C
APROBACIONES: MSHA, GOST-R

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Sehr kurze Hochdruckleitungen, bei schwierigen Montagebedingungen
DAUERBETRIEB
-40°F / +250°F -40°C / +121°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Glykol, Öl auf Polyglykolbasis, Wasser/ Mineralölemulsion, Synthetik-Esterbasis bis +212°F / +100°C Wasser
EMPFOHLENE LÄNGE ZWISCHEN FIXPUNKTEN
DN 19 ≤ 80 cm; DN 25 ≤ 120 cm; DN 31 ≤ 160 cm

NIPPEL: MF2000® - INTERLOCK PLUS
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Vier hochzugfeste Stahldrahtspiralen
DECKE: Synthetisches Gummi mit hoher Ozon-, Wetter- und Temperaturbeständigkeit.
ANGEWANDTE NORM: MANULI® Design, ISO 18752-C
ZULASSUNGEN: MSHA, GOST-R

IT

PRINCIPALI APPLICAZIONI
Ideale per applicazioni severe che necessitano di assemblati di lunghezza ridotta da montare in spazi ridotti con difficoltà di installazione
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +250°F -40°C / +121°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e oli a base di esteri sintetici (fino a +212°F / +100°C), glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua
LUNGHEZZA MASSIMA RACCOMANDATA TRA LE ESTREMITÀ
DN 19 ≤ 80 cm; DN 25 ≤ 120 cm; DN 31 ≤ 160 cm

INSERTO: MF2000® - TIPO INTERLOCK PLUS
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Quattro spirali di acciaio ad alto carico
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore
SPECIFICHE: MANULI® Design, ISO 18752-C
OMOLOGAZIONI: MSHA, GOST-R

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XTRAFLEX™/6000

EXTREME FLEXIBILITY



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H10078019*	19	-12	3/4"	28,2	1,11	32,0	1,26	420	6090	1680	24360	170	6,69	1450	0,97	IP+M01500-12
H10078025*	25	-16	1"	35,1	1,38	38,1	1,50	420	6090	1680	24360	260	10,24	2040	1,37	IP+M01500-16
H10078031*	31	-20	1.1/4"	46,3	1,82	49,5	1,95	420	6090	1680	24360	267	10,51	3660	2,46	IP+M01600-20

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Excellent flexibility (low bending force) ■ Reduced bend radius ■ Easy mounting in severe installations ■ Isobaric pressure rating ■ bio biological and mineral oils compatibility

Excelente flexibilidad ■ Reducido radio de curvatura ■ Fácil montaje en instalaciones difíciles ■ Gama de presión isobárica ■ bio compatible con aceites minerales y biológicos

Exzellente Flexibilität ■ Wenig Biegekraft notwendig ■ Verkleinerter Biegeradius ■ Leichte Montage bei Problem-Installationen ■ Isobarische Druck-Reihe ■ bio Beständigkeit gegen Bio- und Mineralöle

Eccellente flessibilità ■ Raggio di curvatura ridotto ■ Facilità di montaggio in installazioni difficoltose ■ Pressioni di esercizio isobariche ■ bio compatibilità con oli biologici e minerali

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MAIN APPLICATIONS
Heavy duty power lines with short assemblies in severe installations
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +250°F -40°C / +121°C
MAX OPERATING TEMPERATURE
(Intermittent service)
+257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water

INSERT: MF2000® - INTERLOCK PLUS TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Four high tensile steel spirals DN 19÷25. Six high tensile steel spirals DN 31
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: MANULI® Design, ISO 18752-C
TYPE APPROVALS: MSHA, GOST-R

ES

PRINCIPALES APLICACIONES
Líneas de alta presión y trabajo pesado con ensambles cortos en instalaciones difíciles
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +250°F -40°C / +121°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente)
+257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y aceite basado en éster sintético (hasta +212°F / +100°C), glicoles y poliglicoles, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO INTERLOCK PLUS
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Cuatro refuerzos de acero en espiral de alta resistencia DN 19÷25. Seis refuerzos de acero en espiral de alta resistencia DN 31
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Diseño MANULI®, ISO 18752-C
APROBACIONES: MSHA, GOST-R

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Sehr kurze Hochdruckleitungen, bei schwierigen Montagebedingungen
DAUERBETRIEB
-40°F / +250°F -40°C / +121°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Glykol, Öl auf Polyglykolbasis, Wasser/Mineralölemulsion, Synthetik-Esterbasis bis +212°F / +100°C Wasser

NIPPEL: MF2000® - INTERLOCK PLUS
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Vier hochzugfeste Stahldrahtspiralen DN 19÷25. Sechs hochzugfeste Stahldrahtspiralen DN 31
DECKE: Synthetisches Gummi mit hoher Ozon-, Wetter- und Temperaturbeständigkeit.
ANGEWANDTE NORM: MANULI® Design, ISO 18752-C
ZULASSUNGEN: MSHA, GOST-R

IT

PRINCIPALI APPLICAZIONI
Ideale per applicazioni severe che necessitano di assemblati di lunghezza ridotta da montare in spazi ridotti con difficoltà di installazione
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +250°F -40°C / +121°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente)
+257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e oli a base di esteri sintetici (fino a +212°F / +100°C), glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO INTERLOCK PLUS
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Quattro spirali di acciaio ad alto carico DN 19÷25. Sei spirali di acciaio ad alto carico DN 31
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore.
SPECIFICHE: MANULI® Design, ISO 18752-C
OMOLOGAZIONI: MSHA, GOST-R

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HOSES

Extreme special applications



Fluid connectors, solid solutions
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PUSHFIT

PUSH-ON HOSE, SAE J30 R6



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H09066006*	6	-04	1/4"	-	-	12,7	0,50	35	500	140	2030	76	2,99	130	0,09	MF2000® PUSH-LOCK
H09066008*	8	-05	5/16"	-	-	14,3	0,56	35	500	140	2030	76	2,99	155	0,10	MF2000® PUSH-LOCK
H09066010*	10	-06	3/8"	-	-	15,8	0,62	35	500	140	2030	76	2,99	175	0,12	MF2000® PUSH-LOCK
H09066012*	12	-08	1/2"	-	-	19,6	0,77	25	360	100	1450	127	5,00	235	0,16	MF2000® PUSH-LOCK
H09066016*	16	-10	5/8"	-	-	23,6	0,93	25	360	100	1450	150	5,91	320	0,22	MF2000® PUSH-LOCK
H09066019*	19	-12	3/4"	-	-	26,2	1,03	21	300	84	1210	180	7,09	340	0,23	MF2000® PUSH-LOCK
H09066025*	25	-16	1"	-	-	33,0	1,30	14	200	56	810	240	9,45	455	0,31	MF2000® PUSH-LOCK

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Push-On hose with MF2000® Push-Lock insert type without ferrule ■ High aging resistance ■ Fuel application with push-on fittings (clamps recommended in fuel applications)

Manguera Push-On con espiga tipo Push-Lock MF2000® sin férula ■ Alta resistencia al envejecimiento ■ Aplicación para combustibles con la conexión push-on (para la aplicación de carburante, se recomienda el uso de la abrazadera)

Steck-Schlauch mit MF2000® Push-Lock Armaturen ohne Fassungen ■ Hohe Alterungsbeständigkeit ■ Kraftstoffanwendungen mit Armaturen push-on (für diese Systeme empfehlen wir den Einsatz von Schellen)

Utilizzato per applicazioni push-on con inserti MF2000® tipo Push-Lock senza ghiera ■ Alta resistenza all'usura del tempo ■ Applicazioni carburante con raccordi push-on (per applicazioni carburante si raccomanda l'uso di fascette)

Working Pressure according to SAE J30 R6: DN 6, 8, 10: WP = 3,4 bar (50 psi) DN 12, 16, 19, 25: WP = 2,4 bar (35 psi). Clamps recommended in fuel application.

Presión de trabajo según SAE J30 R6: DN 6, 8, 10: WP = 3,4 bar (50 psi) DN 12, 16, 19, 25: WP = 2,4 bar (35 psi). Abrazaderas recomendadas para aplicación de combustible.

Arbeitsdruck gem SAE J30 R6: DN 6, 8, 10: WP = 3,4 bar (50 psi) DN 12, 16, 19, 25: WP = 2,4 bar (35 psi). Kraftstoffanwendungen mit Schellen.

Working Pressure per SAE J30 R6: DN 6, 8, 10: WP = 3,4 bar (50 psi) DN 12, 16, 19, 25: WP = 2,4 bar (35 psi). Applicazioni carburante con uso di fascette.

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MAIN APPLICATIONS
Push-on hose for low pressure lines, return lines, drain lines. Used in fuel system or in the crankcase of internal combustion engines in mobile (truck, bus, off-highway vehicles), stationary and marine applications
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +250°F +121°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water, diesel fuel, gasoline

INSERT: MF2000® - PUSH-LOCK TYPE
TUBE: Fuel and oil resistant synthetic rubber compound
REINFORCEMENT: One textile braid
COVER: Environment resistant synthetic rubber
APPLICABLE SPECS.: SAE J30 R6 (DN 6÷16)
Performances SAE J30 R6 (DN 19÷25)

ES

PRINCIPALES APLICACIONES
Manguera push-on usada en líneas de baja presión, de retorno y de drenaje. Usada en sistemas de combustibile o en la carcasa de motores de combustión interna, en aplicaciones móviles estacionarias o marinas
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +250°F +121°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceites con base en éster sintético, aceite en emulsión acuosa, agua, aceite diesel

ESPIGA: MF2000® - TIPO PUSH-LOCK
TUBO: Compuesto de caucho sintético resistente a los derivados del petróleo
REFUERZO: Un refuerzo textil
CUBIERTA: Caucho sintético resistente a la intemperie
ESPECIFICACIONES APLICABLES: SAE J30 R6 (DN 6÷16)
Característica según SAE J30 R6 (DN 19÷25)

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Anwendung in Kraftstoffsystemen und Kurbelgehäusen von Verbrennungsmotoren in mobilen, stationären und marinen Anwendungen
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
+250°F +121°C
EMPFOHLENE MEDIEN
Mineralöl, Wasser, Öl auf Polyglykolbasis, Synthetik-Esterbasis, Rapsöl, Wasser/Ölemulsionen, Diesel

NIPPEL: MF2000® - PUSH-LOCK
SEELE: Kraftstoff- und ölbeständige, synthetische Gummimischung
DRUCKTRÄGER: Ein Textilgeflecht
DECKE: Umweltverträgliches synthetisches Gummi
ANGEWANDTE NORM: SAE J30 R6 (DN 6÷16)
Performances SAE J30 R6 (DN 19÷25)

IT

PRINCIPALI APPLICAZIONI
Linee a bassa pressione, linee di ritorno e di scarico. Usato in sistemi di alimentazione carburante di motori a combustione interna in applicazioni mobili, industriali e marine
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +250°F +121°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua, diesel fuel, gasolio

INSERTO: MF2000® - PUSH-LOCK
SOTTOSTRATO: Gomma sintetica resistente agli oli e al carburante
RINFORZO: Una treccia tessile
COPERTURA: Gomma sintetica resistente agli agenti atmosferici
SPECIFICHE: A norma SAE J30 R6 (DN 6÷16)
Prestazioni SAE J30 R6 (DN 19÷25)

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PILOT

EXTREME LIGHTNESS



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01015005*	5	-03	3/16"	8,7	0,34	10,5	0,41	150	2170	600	8700	20	0,79	145	0,10	MF+M00820-03
H01015A06*	6	-04	1/4"	9,9	0,39	11,5	0,45	150	2170	600	8700	25	0,98	160	0,11	MF+M00830-04
H01015008*	8	-05	5/16"	11,5	0,45	13,1	0,52	120	1740	480	6960	30	1,18	185	0,12	MF+M00830-05
H01015010*	10	-06	3/8"	13,2	0,52	14,8	0,58	100	1450	400	5800	40	1,57	205	0,14	MF+M00820-06
H01015012*	12	-08	1/2"	16,2	0,64	18,0	0,71	100	1450	400	5800	50	1,97	270	0,18	MF+M00820-08

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

High temperature working conditions ■ ROCKMASTER® cover compound, for tough environment, high abrasion, ozone, aging resistance ■ Superior lightness and flexibility ■ Extreme compact structure ■ Approved at 1.000.000 cycles at rated working pressure ■ Kink resistant solution for pilot applications

Condiciones de trabajo registrando altas temperaturas ■ Cubierta ROCKMASTER® ofreciendo alta resistencia a la abrasión, ozono, trabajo pesado y envejecimiento ■ Superior ligereza y flexibilidad ■ Extrema presión compacta ■ Aprobada para 1.000.000 de ciclos de presión de trabajo ■ Solución resistente al colapso para aplicaciones de pilotaje

Hohe Temperaturbeständigkeit ■ Rockmaster® Außengummi für härteste Bedingungen, hohe Abrieb-, Ozon- und Alterungsbeständigkeit ■ Geringes Gewicht und Flexibilität ■ Kompakte Struktur ■ 1 Mio. geprüfte Impulszyklen unter Betriebsdruck ■ Knickresistente Lösung für Vorsteuer-Anwendung

Resistenza alle elevate temperature ■ Copertura Rockmaster® per offrire alta resistenza all'abrasione, all'ozono e all'invecchiamento ■ Estrema leggerezza e flessibilità ■ Struttura compatta ■ Approvato a 1.000.000 di cicli alla pressione di esercizio ■ Soluzione resistente allo schiacciamento per applicazioni linee pilotaggio

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MAIN APPLICATIONS
Specifically studied for pilot lines, useful also for low pressure lines with installation constraints.
Ideal for severe installations, e.g. for engine compartments and for high temperature applications
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +250°F -40°C / +121°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: One high tensile steel braid
COVER: Environment resistant synthetic rubber
APPLICABLE SPECS.: MANULI® Design
TYPE APPROVALS: GOST-R, MSHA

ES

PRINCIPALES APLICACIONES
Estudiada específicamente para líneas de pilotaje, útil también para líneas de baja presión en espacios reducidos. Ideal para operación en condiciones severas, ej. Compartimentos de motores y aplicaciones donde se registran altas temperaturas
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +250°F -40°C / +121°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceites vegetales y de colza, aceites con base en glicoles y poliglicoles, aceites basados en éster sintético, aceites en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Una trenza de acero de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia a la intemperie
ESPECIFICACIONES APLICABLES: Diseño MANULI®
APROBACIONES: GOST-R, MSHA

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D

HAUPT-ANWENDUNGSGEBIET
Vorsteuer-Leitungen, auch gut verwendbar für Niederdruck-Schläuche mit Installationsproblemen. Ideal für schwierige Einbausituationen, z.B. in Motorräumen und für Hochtemperaturanwendungen
DAUERBETRIEB
-40°F / +250°F -40°C / +121°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Rapsöl, Öl auf Polyglykolbasis, Wasser/Ölemulsion, Synthetik-Esterbasis, Wasser

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Ein hochzugfestes Stahldrahtgeflecht
DECKE: Umweltverträgliches synthetisches Gummi
ANGEWANDTE NORM: MANULI® Design
ZULASSUNGEN: GOST-R, MSHA

IT

PRINCIPALI APPLICAZIONI
Specificamente studiato per linee pilota, utile anche per applicazioni su linee a bassa pressione con difficoltà di installazione. Ideale per installazioni come vano motore e applicazioni con elevate temperature
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +250°F -40°C / +121°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Una treccia di acciaio ad alto carico
COPERTURA: Gomma sintetica resistente agli agenti atmosferici
SPECIFICHE: MANULI® Design
OMOLOGAZIONI: GOST-R, MSHA

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TWINPOWER®/PLUS

EASY INSTALLATION FOR OEMs



PART. REF.	HOSE SIZE	R.O.D.	O.D.	MAX W.P.	BURST PRESSURE	MIN. BEND RADIUS	WEIGHT	FITTING

	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01112012*	12	-08	1/2"	18,5	0,73	22,5	0,89	310	4490	1240	17980	80	3,15	1220	0,82	MF+M00120-08

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Compact hose structure and reduced bend radius ■ Approved with 500.000 flexing impulse cycles (1,33 WP), 125.000 flexing cycles (Manuli testing method) ■ Smooth hose cover ensuring user friendly installation inside the booms ■ Unique hose assembly solution for pressure and discharge line on the same body valve ■ Reduced installation time compared to two separated assembly hose solutions ■ Reduced risk of abrasion of the line inside the booms due to twin hose alignment ■ Elimination of clamps to connect the two hose lines, with consequent easyness of insertion ■ High abrasion resistant and flame retardant MSHA approved cover ■ Warehouse/logistic optimization with reduced codes in stock

Estructura compacta de mangueras y reducido radio de curvature ■ Aprovado con 500.000 ciclos de impulsos flexibles (1,33 WP), 125.000 ciclos flexibles (método de prueba Manuli) ■ Superior resistencia a la pression hasta 5000 psi ■ Excede la tasa Isobárica de la especificación Internacional (ISO 11237 2SC/EN 857 2SC) ■ Cubierta lisa que asegura una fácil instalación en el interior del mástil ■ Única solución para presión y descarga en el mismo cuerpo de la válvula ■ Se reduce el tiempo de la instalación comparado con la solución de dos mangueras separadas ■ Se reduce el riesgo de abrasion de las líneas del mástil debido a la alineación de la manguera gemela ■ Eliminación de abrazaderas para conectar las dos mangueras, con consecuente comodidad de inserción ■ Alta Resistencia a la abrasión y al retardo de la llama. Cubierta aprobada por MSHA (líneas 5000/PLUS) ■ Optimización del stock/almacén con códigos reducidos en stock

Kompakte Schlauchstruktur und reduzierter Biegeradius ■ Genehmigt mit 500.000 Biegeimpulszyklen (1,33 WP), 125.000 Biegezyklen (Manuli Testmethode) ■ Hohe Druckbeständigkeit bis zu 5000 psi ■ Isobarwert über die internationalen Spezifikationen hinaus (ISO 11237 2SC/EN 857 2SC) ■ Weiche Schlauchummantelung für benutzerfreundliche Installation in den Trägerrohren ■ Einzigartige Zusammenbaulösung für Druck- und Ablassleitung am gleichen Ventilkörper ■ Reduzierte Installationszeit im Vergleich zu zwei getrennten Leitungslösungen ■ Reduzierte Abriebgefahr der Leitung im Trägerrohr durch zwei nebeneinander verlaufende Schläuche ■ Kein Bedarf an Klammern, um die Schlauchleitungen zu verbinden mit folglich einfacher Einsetzbarkeit ■ Höhere Abriebbeständigkeit und Ummantelung mit verzögerter Flammenbildung nach MSHA (5000/PLUS-Leitungen) ■ Lager-/Logistikoptimierung durch geringere Codes im Lager

Struttura compatta e ridotto raggio di curvatura ■ Approvato con 500.000 cicli in con dizioni rotanti (1,33 pressione di esercizio), 125.000 cicli in condizioni rotanti (Metodo di test Manuli) ■ copertura liscia che garantisce facilità installazioni dentro i bracci telescopici ■ unico assemblaggio per linea di pressione e di scarico sullo stesso corpo valvola ■ Ridotti tempi di installazione confrontati con soluzioni a 2 tubi separati ■ Ridotto rischio di abrasione nei bracci telescopici dovuta all'allineamento del tubo accoppiato ■ Eliminazione delle fascette per la connessione delle dua linee di tubo, con conseguente facilità di installazione ■ Copertura con più elevata resistenza all'abrasione e resistenza alla propagazione di fiamma approvata secondo MSHA (linee 5000/PLUS) ■ Ottimizzazione logistica e di magazzino con riduzione dei codici a stock

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MAIN APPLICATIONS
Hose range dedicated to aerial lifts, platforms, forklift trucks and telescopic booms applications
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°C / +121°C
MAX OPERATING TEMPERATURE
(Intermittent service) +135°C
RECOMMENDED FLUIDS
Mineral, vegetable and synthetic ester based oils, glycols and polyglycols, mineral oils in aqueous emulsion, water
REMARK!
Twinned hose line width: DN 12 = 46,0 mm (1,81")

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Synthetic rubber
REINFORCEMENT: Two high tensile steel wire braids
COVER: Synthetic rubber with high ozone, abrasion and weather resistance
MSHA approved
APPLICABLE SPECS.: exceed ISO 11237 2SC, EN 857 2SC, SAE J517 type 100R16S
TYPE APPROVALS: GOST-R, MSHA

ES

PRINCIPALES APLICACIONES
Gama de manguera dedicada a elevadores, plataformas, carretillas elevadoras y mástiles telescópicos
TEMPERATURA CONTINUA DE SERVICIO
-40°C / +121°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +135°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal, aceites con base en éster sintético, aceites basados en glicoles y poliglicoles, aceite en emulsión acuosa, agua
COMENTARIO!
La anchura de la manguera gemela: DN 12 = 46,0 mm (1,81")

ESPIGA: MF2000® - MULTIFIT TYPE
TUBO: Caucho sintético
REFUERZO: Dos trenzas de acero de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, a la abrasion y a la intemperie
ESPECIFICACIONES APLICABLES: excede ISO 11237 2SC, EN 857 2SC, SAE J517 tipo 100R16S
APROBACIONES: GOST-R, MSHA

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D

ANWENDUNGSBEREICH
Produktpalette für Hebebühnen, Gabelstapler und Teleskopträgerrohranwendungen
KONTINUIERLICHER BETRIEBSTEMPERATURBEREICH
-40°C / +121°C
MAX. BETRIEBSTEMPERATUR
(unregelmäßiger Einsatz) +135°C
EMPFOHLENE FLÜSSIGKEITEN
Mineralöle, pflanzliche und synthetische esterbasierende Öle, Glykole und Polyglykole, Mineralöle in wässriger Emulsion, Wasser
ANMERKUNG!
Doppelschlauchleitungsbreite: DN 12 = 46,0 mm (1,81")

EINSATZ: MF2000® - MULTIFIT TYPE
SCHLAUCH: Synthetikgummi
DRUCKTRÄGER: Zwei hochdehnbare Drahtspiralen
DECKE: Synthetikgummi mit hoher Ozon-, Abrieb- und Wetterbeständigkeit
ANWENDUNGSSPEZIFIKATIONEN: über ISO 11237 2SC, EN 857 2SC, SAE J517 Typ 100R16S
ZULASSUNGEN: GOST-R, MSHA

IT

MAIN APPLICATIONS
Gamma di tubi dedicata ad applicazioni per sollevamento di piattaforme, carrelli elevatori, e bracci idraulici di sollevamento
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°C / +121°C
MAX OPERATING TEMPERATURE
(Intermittent service) +135°C
RECOMMENDED FLUIDS
Oli minerali, vegetali e sintetici a base di esteri, glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua
ATTENZIONE!
Larghezza della linea di tubo accoppiato: DN 12 = 46,0 mm (1,81")

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Gomma sintetica
REINFORCEMENT: due trecce di acciaio ad alto carico
COVER: Gomma sintetica con alta resistenza all'ozono, all'abrasione ed agli agenti atmosferici approvato MSHA
APPLICABLE SPECS.: exceed ISO 11237 2SC, EN 857 2SC, SAE J517 type 100R16S
OMOLOGAZIONI: GOST-R, MSHA

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ETERNITY™/2

HIGH SERVICE LIFE AND RELIABILITY



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01102006*	6	-04	1/4"	11,3	0,44	13,1	0,52	450	6520	1800	26100	45	1,77	275	0,18	MF+M00120-04
H01102008*	8	-05	5/16"	12,9	0,50	14,7	0,58	400	5800	1600	23200	55	2,17	325	0,22	MF+M00120-05
H01102010*	10	-06	3/8"	15,0	0,59	16,8	0,66	365	5290	1460	21170	65	2,56	390	0,26	MF+M00120-06
NEW H01102A12*	12	-08	1/2"	18,6	0,73	20,4	0,80	350	5070	1400	20300	80	3,15	560	0,38	MF+M00120-08
H01102016*	16	-10	5/8"	22,7	0,89	24,7	0,97	300	4350	1200	17400	90	3,54	730	0,49	MF+M00120-10
H01102019*	19	-12	3/4"	27,1	1,07	29,3	1,15	300	4350	1200	17400	120	4,72	1070	0,72	MF+M00120-12
H01102025*	25	-16	1"	33,7	1,33	35,9	1,41	225	3260	900	13050	160	6,30	1340	0,90	MF+M00120-16

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

The Hi-Performance solution for toughest OEM specifications ■ Performance far exceeds EN 857-2SC ■ Improved impulse and service life duration ■ High temperature and environmental resistance ■ Enhanced flex impulse resistance with M00120 skive ferrule

La solución de alto rendimiento para las exigentes especificaciones de equipo original (OEM) ■ Su rendimiento excede la Norma EN857-2SC ■ Mejorada resistencia a impulsos y mayor vida útil ■ Resistencia a altas temperaturas y medio ambiente ■ Acentuado flexibilidad para asegurar una buena resistencia a impulsos con casquillo M00120 para pelado

Die Hi-Performance Lösung für härteste OEM-Spezifikationen ■ Übertrifft die EN 857 2SC bei weitem ■ Verbesserte Lebensdauer und Impulsfestigkeit ■ Hohe Resistenz gegen Umwelteinflüße und hohe Temperaturen ■ Erhöhte Beständigkeit gegen Fleximpulse mit spezieller Schälfassung (M00120)

Soluzione ad alta performance adatta per le specifiche OEM più difficili ■ Performance che eccedono di gran lunga le normative EN 857 2SC ■ Migliore resistenza agli impulsi e maggior durata ■ Resistenza ad elevate temperature e a situazioni ambientali sfavorevoli ■ Resistenza migliorata al testi di impulsi rotanti con ghiera con pelatura (M00120)

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MAIN APPLICATIONS
High pressure lines with installation constraints in severe OEM applications
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +250°F -40°C / +121°C
MAX OPERATING TEMPERATURE:
+275°F +135°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two high tensile steel braids
COVER: Synthetic rubber with high ozone, abrasion and weather resistance.
APPLICABLE SPECS.: Exceed EN 857 2SC, SAE 100 R16S and ISO 11237 2SC
TYPE APPROVALS: DNV, DNV (MED), GOST-R, MSHA, LOBA

ES

PRINCIPALES APLICACIONES
Líneas de alta presión con restricciones para la instalación en aplicaciones severas para equipo original (OEM)
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +250°F -40°C / +121°C
MÁXIMA TEMPERATURA DE OPERACIÓN:
+275°F +135°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y aceite basado en éster sintético (hasta +212°F / +100°C), glicoles y poliglicoles, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al aceite
REFUERZO: 2 refuerzos de acero en espiral de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor.
ESPECIFICACIONES APLICABLES: Excede EN 857 2SC, SAE 100 R16S y ISO 11237 2SC
APROBACIONES: DNV, DNV (MED), GOST-R, MSHA, LOBA

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D

HAUPT-ANWENDUNGSGEBIET
Hochdruckleitungen in schwierigen Einbausituationen und schweren OEM Anwendungen
DAUERBETRIEB
-40°F / +250°F -40°C / +121°C
MAX. BETRIEBSTEMPERATUR:
+275°F +135°C
EMPFOHLENE MEDIEN
Mineralöle, Pflanzenöle, Öle auf Basis synthetischer Ester (bis +212°F / +100°C), Glykole und Polyglykole, Wasser/Mineralölemulsion, Wasser

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges sythetisches Gummi
DRUCKTRÄGER: Zwei hochzugfeste Stahldrahtgeflechte
DECKE: Synthetisches Gummi mit hoher Ozon-, Abrieb- und Wetterbeständigkeit
ANGEWANDTE NORM: Übertrifft EN 857 2SC, SAE 100 R16S und ISO 11237 2SC
ZULASSUNGEN: DNV, DNV (MED), GOST-R, MSHA, LOBA

IT

PRINCIPALI APPLICAZIONI
Linee ad alta pressione con difficoltà di installazione in applicazioni OEM molto severe
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +250°F -40°C / +121°C
PICCO DI TEMPERATURA MASSIMA:
+275°F +135°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e oli a base di esteri sintetici (fino a +212°F / +100°C), glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Due trecce di acciaio ad alto carico
COPERTURA: Gomma sintetica con elevata resistenza all'ozono, all'abrasione ed agli agenti atmosferici
SPECIFICHE: Eccede EN 857 2SC, SAE 100 R16S e ISO 11237 2SC
OMOLOGAZIONI: DNV, DNV (MED), GOST-R, MSHA, LOBA

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DIAMONDSPIR™

VERY HIGH PRESSURE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H10018019*	19	-12	3/4"	29,1	1,15	32,1	1,26	560	8120	2240	32480	280	11,02	1660	1,12	XL+M01750-12
H10018025*	25	-16	1"	38,2	1,50	41,2	1,62	560	8120	2240	32480	350	13,78	2910	1,96	XL+M01800-16
H10018032*	31	-20	1.1/4"	47,7	1,88	50,9	2,00	525	7610	2100	30450	420	16,54	4210	2,83	XL+M01800-20
H10018038*	38	-24	1.1/2"	55,2	2,17	58,7	2,31	475	6880	1900	27550	500	19,69	5230	3,51	XL+M01800-24
H10018051*	51	-32	2"	68,4	2,69	71,9	2,83	420	6090	1680	24360	600	23,62	6680	4,49	XL+M01800-32
NEW H10018A63*	63	-40	2.1/2"	80,6	3,17	84,8	3,34	350	5070	1400	20300	800	31,50	8110	5,45	XL+M01800-40
H10018076*	76	-48	3"	90,8	3,57	94,6	3,72	210	3040	870	12610	900	35,43	7910	5,32	XL+M01800-48

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Very high pressure resistance ■ Approved with severe fatigue tests ■ Superior abrasion resistance ■ High ozone and weather resistance ■ Flame resistance to a wide range of spec. ■ Antistatic and antitoxic cover ■ bio biological and mineral oils compatibility

Superior resistencia a la presión ■ Aprobado con prueba de maximo esfuerzo ■ Superior resistencia a la abrasión ■ Alta resistencia al ozono y a la intemperie ■ Resistente a la llama ■ Cubierta antiestática y atoxica ■ bio compatible con aceite mineral y biológico

Für extreme Drücke ■ Erfolgreich unter extremen Bedingungen getestet ■ Hervorragende Abriebbeständigkeit ■ Hohe Ozon- und Wetterbeständigkeit ■ Erfüllt Flammtests nach verschiedenen Spezifikationen ■ Decke antistatisch und antitoxisch ■ bio Beständigkeit gegen Bio- und Mineralöle

Elevatissima resistenza alla pressione ■ Approvato con severi test a fatica ■ Superiore resistenza all'abrasione ■ Elevata resistenza all'ozono ed agli agenti atmosferici ■ Resistenza alla propagazione di fiamma in accordo a molteplici norme ■ Copertura antistatica e atossica ■ bio compatibilità con oli biologici e minerali

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MAIN APPLICATIONS
Heavy duty power lines, hydrostatic transmissions in heavy duty environmental conditions, specific installations with severe abrasion conditions, off-shore applications, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +250°F -40°C / +121°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +210°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water

INSERT: MF2000® - XTRALOCK TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Six high tensile steel spirals (DN 25÷76). Four high tensile steel spirals (DN 19)
COVER: Synthetic rubber with high abrasion, ozone, weather and heat resistance
APPLICABLE SPECS.: MANULI® Design - ISO 6807-D (DN 76), exceed ISO 3862 R15
TYPE APPROVALS: ABS (DN 25÷76), GOST-R, MSHA, LOBA, FRAS

ES

PRINCIPALES APLICACIONES
Líneas de muy extrema presión en condiciones ambientales de trabajo pesado, transmisión hidrostática, instalaciones específicas con condiciones de abrasión severa, aplicaciones marinas, minas subterráneas y minas a cielo abierto
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +250°F -40°C / +121°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y aceite basado en éster sintético (hasta +210°F / +100°C), glicoles y poliglicoles, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO XTRALOCK
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Seis refuerzos de acero en espiral de alta resistencia al ozono (DN 25÷76), Cuatro refuerzos de acero en espiral de alta resistencia al ozono (DN 19)
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Diseño MANULI® ISO 6807-D (DN 76), excede ISO 3862 R15
APROBACIONES: ABS (DN 25÷76), GOST-R, MSHA, LOBA, FRAS

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Höchstdruckleitungen unter erschwerten Umweltbedingungen, hydrostatische Getriebe, spezifische Einbausituationen mit starkem Abrieb, Offshoreanwendungen, Tage- und Untertagebau
DAUERBETRIEB
-40°F / +250°F -40°C / +121°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöle, Pflanzenöle, Öle auf Basis synthetischer Ester (bis +212°F / +100°C), Glykole und Polyglykole, Wasser/Mineralölemulsion, Wasser

NIPPEL: MF2000® - XTRALOCK
SEELE: Ölbeständiges sythetisches Gummi
DRUCKTRÄGER: Sechs hochzugfeste Stahldrahgeflechte (DN 25÷76), vier hochzugfeste Stahldrahgeflechte (DN 19)
DECKE: Synthetisches Gummi mit hoher Ozon-, Abrieb- und Wetterbeständigkeit
ANGEWANDTE NORM: MANULI® Design - ISO 6807-D (DN 76), Übertrifft ISO 3862 R15
ZULASSUNGEN: ABS (DN 25÷76), GOST-R, MSHA, LOBA, FRAS

IT

PRINCIPALI APPLICAZIONI
Linee di pressione estremamente severe, trasmissioni idrostatiche in condizioni ambientali difficili, installazioni specifiche in condizioni severe di abrasione, applicazioni marine, miniere sotterranee ed a cielo aperto, ecc.
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +250°F -40°C / +121°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e oli a base di esteri sintetici (fino a +212°F / +100°C), glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO XTRALOCK
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Sei spirali di acciaio ad alto carico (DN 25÷76), quattro spirali di acciaio ad alto carico (DN 19)
COPERTURA: Gomma sintetica con elevata resistenza all'ozono, all'abrasione ed agli agenti atmosferici
SPECIFICHE: MANULI® Design - ISO 6807-D (DN 76), eccede ISO 3862 R15
OMOLOGAZIONI: ABS (DN 25÷76), GOST-R, MSHA, LOBA, FRAS

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JACKMASTER

EXTREME STATIC PRESSURE



PART. REF.	HOSE SIZE		R.O.D.		O.D.		MAX W.P.	BURST PRESSURE		MIN. BEND RADIUS	WEIGHT	FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01034006*	6	-04	1/4"	12,7	0,50	14,7	0,58	725	10510	1450	21030	100	3,94	370	0,25	MF+M03400-04
H01034010*	10	-06	3/8"	15,0	0,59	16,8	0,66	725	10510	1450	21030	127	5,00	395	0,27	MF+M03400-06

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Weight-lifting by means of jacking system ■ Extreme static pressure ■ Tested/approved for specific jacking applications ■ Test certificate available upon request ■ Standard MF2000 fittings compatibility: no special fittings required

Levantamiento de peso por medio de sistemas hidraulicos ■ Extrema presión estatica ■ Probada y aprobada para aplicaciones de levantamiento ■ Certificado de prueba ■ Racores estándar MF2000®: no se requiere racores especiales

Getestet/zugelassen für die Spannhydraulik ■ Extrem hoher statischer Druck ■ Einbindung mit MF2000® Standard Armaturen ■ Testzertifikate auf Anfrage ■ Standard MF2000 Anschlusskompatibilität: spezielle Anschlüsse erforderlich

Pressione statica estrema ■ Testato ed approvato per specifiche applicazioni di sollevamento mediante martinetto idraulico ■ Certificato di idoneità disponibile a richiesta ■ Compatibilità con raccordi standard MF2000: non sono necessari raccordi speciali

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MAIN APPLICATIONS
Jacking systems
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +250°F +121°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water

Product designed for jacking applications. Any different use may reduce service life. Please contact Manuli Hydraulics for more information

REMARK: Halogen-Free hose line

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two high tensile steel braids
COVER: Environment resistant synthetic rubber
APPLICABLE SPECS.: IJ100 hydraulic jack spec.
TYPE APPROVALS: GOST-R

ES

PRINCIPALES APLICACIONES
Sistemas de levantamiento de peso
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +250°F +121°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceites vegetales y de colza, aceites con base en glicoles y poliglicoles, aceites basados en éster sintético, aceites en emulsión acuosa, agua

Producto diseñado para aplicaciones de levantamiento de peso. Cualquier otro uso, quizás reduzca el tiempo de vida útil. Consulte a Manuli Hydraulics, para mayor información

COMENTARIO: gama de mangueras "Halogen-Free"

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Dos refuerzos trenzados de acero de alta resistencia
CUBIERTA: Caucho sintético resistente a la intemperie
ESPECIFICACIONES APLICABLES: IJ100 para levantamiento hidráulic
APROBACIONES: GOST-R

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D

HAUPT-ANWENDUNGSGEBIET
Spannhydraulik
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
+250°F +121°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Rapsöl, Öl auf Polyglykolbasis, Wasser/Ölemulsion, Synthetik-Esterbasis, Wasser

Dieses Produkt ist für die Spannhydraulik entwickelt und getestet worden. Anderweitige Anwendungen führen zur Verringerung der Lebensdauer und des Sicherheitsfaktors

WICHTIG: hydraulikschläuche "Halogen-Free"

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Obergummi
DRUCKTRÄGER: Zwei hochzugfeste Stahldrahtgeflechte
DECKE: Synthetisches Gummi mit hoher Temperatur-, Ozon- und Wetterbeständigkeit
ANGEWANDTE NORM: IJ100 hydraulic jack spec. (Spannhydraulik)
ZULASSUNGEN: GOST-R

IT

PRINCIPALI APPLICAZIONI
Sistemi sollevamento con martinetto idraulico
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +250°F +121°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua

Prodotto progettato per applicazioni di sollevamento mediante martinetto idraulico. Ogni altro tipo di utilizzo può ridurre la durata in esercizio. Contattare Manuli Hydraulics

ATTENZIONE: gamma di tubi "Halogen-Free"

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Due trecce di acciaio ad alto carico
COPERTURA: Gomma sintetica resistente agli agenti atmosferici
SPECIFICHE: IJ100 hydraulic jack spec.
OMOLOGAZIONI: GOST-R

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FIREND

FIRE SUPPRESSION SYSTEMS



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01124006*	6	-04	1/4"	11,0	0,43	13,0	0,51	225	3260	900	13050	100	3,94	220	0,15	MF+M03400-04
H01124010*	10	-06	3/8"	15,0	0,59	17,0	0,67	180	2610	720	10440	127	5,00	325	0,22	MF+M03400-06
H01124012*	12	-08	1/2"	18,1	0,71	20,1	0,79	160	2320	640	9280	178	7,01	410	0,28	MF+M03400-08
H01124019*	19	-12	3/4"	25,3	1,00	27,9	1,10	105	1520	420	6090	240	9,45	660	0,44	MF+M03400-12
new H01124025*	25	-16	1"	33,1	1,30	35,7	1,41	88	1270	350	5070	300	11,81	980	0,66	MF+M03400-16

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

SAE 100R1S and ISO 1SN rated working pressure ■ Flame retardant red cover ■ Excellent performance for standard hydraulic applications ■ Embossed indelible branding ■ No skive MF2000 (two-pieces)

Resistencia a la presión según SAE 100R1S y ISO 1SN ■ Cubierta roja con retardante a la llama ■ Excelentes características para aplicaciones hydráulicas estándar ■ Marcada en reliebe ■ Racores para No pelar MF2000 (dos piezas)

Extrem hohe Druckbeständigkeit gemäß SAE 100R1S und ISO 1SN ■ Feuerhemmende rote Außenhülle ■ Ausgezeichnete Leistung bei allen hydraulischen Standardanwendungen ■ Nicht entfernbare eingeprägte Kennzeichnung ■ MF2000 (zweiteilig) Nichtschäl-Fassungen und Armaturen

Resistenza alla pressione secondo le norme SAE 100R1S e ISO 1SN ■ Copertura rossa ritardante di infiammabilità ■ Eccellenti performance per tutte le comuni applicazioni idrauliche ■ Marcatura in rilievo indelebile ■ Raccordi senza pelatura esterna MF2000 (due pezzi)

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MAIN APPLICATIONS
Use in fire suppression systems of off-road vehicles, mining equipment, stationary engines. The hose present red cover for easy identification in the fire suppression system
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F 40°C / +100°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils, glycols and polyglycols, mineral oils in aqueous emulsion, water, water based fire extinguishing agents

INSERT: MF2000® (no-skive) – MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: One high tensile steel wire braid
COVER: Red synthetic rubber with high ozone, abrasion and weather resistance
APPLICABLE SPECS.: ISO 1436-1SN, SAE J517 type 100R1S and R1AT, EN 853 1SN
TYPE APPROVALS: MSHA, GOST-R

ES

PRINCIPALES APLICACIONES
Use en los sistemas de supresión de fuego de vehículos móbiles, equipos para mineria, artefactos estacionarios. La manguera presenta la cubierta roja para una identificación fácil en el sistema de supresión de fuego
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
FLUIDOS RECOMENDADOS
Aceites minerales, acetes vegetales y sintéticos con base ester, glicoles y polyglicoles, aceites minerales en emulsión de agua, agua, agua basada en agentes que extinguen el fuego

ESPIGA: MF2000® (no-skive) – MULTIFIT TYPE
TUBO: Caucho sintético resistente al aceite
REFUERZO: Una malla de acero reforzado
CUBIERTA: Caucho sisntético Rojo, resistente al ozono, abrasión y ambiente
ESPECIFICACIONES APLICABLES: ISO 1436-1SN, SAE J517 tipo 100R1S y R1AT, EN 853 1SN
APROBACIONES: MSHA, GOST-R

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D

HAUPT-ANWENDUNGSGEBIET
Ideal für Brandschutzsysteme in Offroad-Fahrzeugen, Bergbaugeräten und stationären Generatoren. Der Schlauch ist mit einer roten Außenhülle versehen, dadurch ist er in den Brandschutzsystemen einfach und schnell erkennbar
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl und Öl auf Synthetik-Esterbasis, Öl auf Glykol- und Polyglykolbasis, Mineralöl-/Wasseremulsionen, Wasser, flammenhemmende Substanzen auf Wasserbasis

NIPPEL: MF2000® (no-skive) – MULTIFIT TYPE
SEELE: Ölbeständiges synthetisches Elastomer
DRUCKTRÄGER: Ein hochzugfestes Stahldrahtgeflecht
DECKE: Rotes synthetisches Elastomer mit hoher Ozon-, Abrieb- und Wetterbeständigkeit
ANGEWANDTE NORM: ISO 1436-1SN, SAE J517 typ 100R1S und R1AT, EN 853 1SN
ZULASSUNGEN: MSHA, GOST-R

IT

PRINCIPALI APPLICAZIONI
Sistemi anti-incendio nei veicoli fuori-strada, macchinari per miniera, motori generatori stazionari. Il tubo ha una copertura di colore rosso per essere identificato facilmente all'interno dei sistemi anti-incendio
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e oli a base di esteri sintetici, oli a base di glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua, agenti anti-infiammabili di natura acquosa

INSERTO: MF2000® (no-skive) – MULTIFIT TYPE
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Una treccia di acciaio ad alto carico
COPERTURA: gomma sintetica rossa resistente a ozono, abrasione e agenti atmosferici
SPECIFICHE: ISO 1436-1SN, SAE J517 tipo 100R1S e R1AT, EN 853 1SN
OMOLOGAZIONI: MSHA, GOST-R

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GOLDENMINE new

OUTSTANDING ABRASION RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H10091063*	63	-40	2-1/2"	77,5	3,05	81,5	3,21	200	2900	800	11600	700	27,56	5890	3,96	XL+M01500-40

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Extreme abrasion resistance ■ High ozone and weather resistance ■ Flame retardant and antistatic cover ■ Superior pressure rating ■ Structure robustness for tough handling

Extrema resistencia a la abrasión ■ Alta resistencia al ozono y a la intemperie ■ Cubierta con retardante a llama y electricidad antiestática ■ Alta presión de trabajo ■ Estructura robusta y resistente

Extreme Abriebbeständigkeit ■ Hohe Ozon- und Wetterbeständigkeit ■ Antistatische Decke ■ Exzellente Druckbeständigkeit ■ Robuste Struktur für widrige Verarbeit hungs - und Handlingsbedingungen

Estrema resistenza all'abrasione ■ Elevata resistenza all'ozono ed agli agenti atmosferici ■ Copertura resistente alla propagazione di fiamma e antistatica ■ Pressioni di esercizio superiori ■ Struttura robusta per severe manipolazioni

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MAIN APPLICATIONS
Mine hydraulic return lines, medium pressure hydraulic lines with high flow rates, long walls water lines
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils, glycols and polyglycols, mineral oils in aqueous emulsion, water

INSERT: MF2000® - XTRALOCK TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Four high tensile steel spirals
COVER: Synthetic rubber with high abrasion, ozone and weather resistance
APPLICABLE SPECS.: MANULI® design
TYPE APPROVALS: MSHA, GOST-R

ES

PRINCIPALES APLICACIONES
Líneas de retorno hidráulico en Minería, líneas de media presión hidráulica con gran caudal, líneas de refrigeración de agua
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal, aceites con base en éster sintético, aceites basados en glicoles y poliglicoles, aceite en emulsión acuosa, agua

ESPIGA: MF2000® - XTRALOCK TYPE
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Cuatro refuerzos en espiral de acero de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, a la abrasion y a la intemperie
ESPECIFICACIONES APLICABLES: Diseño MANULI®
APROBACIONES: MSHA, GOST-R

FLUIDTECHNIK S.R.L. 0723 382 199

D

ANWENDUNGSBEREICH
Rücklaufleitungen in Bergbau, Hydraulikleitungen mit durchschnittlichem Druck und hohen Volumenströmen, Longwall Wasserleitungen
KONTINUIERLICHER BETRIEBSTEMPERATURBEREICH
-40°F / +212°F -40°C / +100°C
EMPFOHLENE FLÜSSIGKEITEN
Mineralöle, pflanzliche und synthetische esterbasierende Öle, Glykole und Polyglykole, Mineralöle in wässriger Emulsion, Wasser

EINSATZ: MF2000® - XTRALOCK TYPE
SCHLAUCH: Ölbeständiges Synthetikgummi
DRUCKTRÄGER: Vier hochzugfeste Drahtspiralen
DECKE: Synthetikgummi mit hoher Abrieb-, Ozon- und Wetterbeständigkeit
ANGEWANDTE NORMEN: MANULI® design
ZULASSUNGEN: MSHA, GOST-R

IT

MAIN APPLICATIONS
Linee di ritorno idrauliche in applicazione miniera, linee idrauliche di media pressione con alto flusso - Linee acqua in applicazioni "long wall"
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
RECOMMENDED FLUIDS
Oli minerali, vegetali e sintetici a base di esteri, glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua

INSERT: MF2000® - XTRALOCK TYPE
TUBE: Gomma sintetica resistente all'olio
REINFORCEMENT: Quattro spirali in acciaio ad alto carico
COVER: Gomma sintetica con alta resistenza all'ozono, all'abrasione ed agli agenti atmosferici
APPLICABLE SPECS.: MANULI® design
TYPE APPROVALS: MSHA, GOST-R

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SHIELDMASTER®/2 PLUS MINE

OUTSTANDING ABRASION RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01122006*	6	-04	1/4"	11,3	0,44	13,1	0,52	450	6520	1800	26100	45	1,77	285	0,19	MF+M03400-04
new H01122008*	8	-05	5/16"	12,9	0,51	14,7	0,58	400	5800	1600	23200	85	3,35	330	0,22	MF+M00120-05
H01122010*	10	-06	3/8"	16,7	0,66	18,5	0,73	400	5800	1600	23200	127	5,00	530	0,36	MF+M00910-06
H01122012*	12	-08	1/2"	20,1	0,79	22,1	0,87	362	5250	1450	21030	150	5,91	710	0,48	MF+M00910-08
H01122019*	19	-12	3/4"	27,1	1,07	29,3	1,15	310	4490	1240	17980	230	9,06	1090	0,73	MF+M00920-12
H01122025*	25	-16	1"	35,1	1,38	37,8	1,49	240	3480	960	13920	300	11,81	1610	1,08	MF+M00920-16
H01122031*	31	-20	1.1/4"	44,5	1,75	47,2	1,86	175	2530	700	10150	380	14,96	2170	1,46	MF+M00920-20
H01122038*	38	-24	1.1/2"	51,0	2,01	53,7	2,11	146	2110	584	8470	450	17,72	2520	1,69	MF+M00910-24
H01122051*	51	-32	2"	62,8	2,47	65,5	2,58	130	1880	520	7540	600	23,62	3170	2,13	MF+M00910-32

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

MSHA approved composite cover for mining applications ■ Outstanding abrasion and ozone resistance ■ Easy assembling and mounting operations, no protection sleeves are required ■ Indelible branding with embossed technology ■ Reduced bend radius for difficult installations ■ Flame retardant and electrical antistaticity cover properties

Aprovación MSHA cubierta compuesta para aplicaciones mineras ■ Excelente resistencia a la abrasión y al ozono ■ Fácil de ensamblar y montar, no se requiere protecciones ■ Marcado en reliebe indeleble ■ Radio de curvatura reducido para instalaciones difíciles ■ Cubierta con retardante a la llama y electricidad antiestática

Außenhülle mit MSHA-Zertifikat, ideal für Bergbauanwendungen geeignet ■ Überragende Ozon- und Abriebbeständigkeit ■ Einfache Montage und leichter Einbau (es sind keine Schutzhandschuhe erforderlich) ■ Nicht entfernbare eingeprägte Kennzeichnung ■ Verringerter Biegeradius, optimal für schwer zugängliche Einsatzbereiche ■ Antistatische Außenhülle mit flammenhemmenden Eigenschaften

Copertura esterna approvata MSHA, ideale per applicazioni miniera ■ Eccellente resistenza ad abrasione ed ozono ■ Semplicità di assemblaggio e montaggio (non sono necessarie guaine di protezione esterne) ■ Marcatura a rilievo indelebile ■ Raggio di curvatura ridotto, ottimale in caso di installazioni difficoltose ■ Copertura con proprietà ritardanti la propagazione delle fiamme e antistaticità elettrica

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SHIELDMASTER®/2 PLUS MINE

TECHNICAL INFO

GB

MAIN APPLICATIONS
High pressure lines with installations constraints in heavy duty environmental conditions, specific installations with severe abrasion conditions, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water

TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two wire braids of high tensile steel wire
COVER: Composite bi-layer structure with outstanding abrasion & ozone resistance
APPLICABLE SPECS.: EN 853 type 2SN - ISO 1436-1 type 2SN - SAE J517 type 100R2AT
Exceed performances of:
- BCS 174 (British Coal Specification 1992)
- ISO 6805 type 4 (Rubber hoses and hose assemblies for underground mining - Wire reinforced hydraulic types for coal mining)
TYPE APPROVALS: MSHA, LOBA, GOST-R (FRAS, MA requested)

ES

PRINCIPALES APLICACIONES
Líneas de alta presión con instalaciones constreñidas en condiciones medioambientales muy duras, instalaciones con severas condiciones de abrasión, minas de subsuelo y abiertas
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y aceite con base en éster sintético (hasta +212°F / +100°C), glicoles y poliglicoles, aceite en emulsión acuosa, agua

TUBO: Caucho sintético, resistente al aceite
REFUERZO: Dos trenzas de acero de alta rersistencia
CUBIERTA: Estructura compuesta con bi-capa con excelente resistencia a la abrasión y al ozono
ESPECIFICACIONES APLICABLES: EN 853 tipo 2SN - ISO 1436-1 tipo 2SN - SAE J517 tipo 100R2AT
Excede las características de:
- BCS 174 (especificación 1992 del carbón británico)
- ISO 6805 tipo 4 (Mangueras de caucho y ensamblajes para minas - malla de acero reforzada tipo hidráulico para minas de carbón)
APROBACIONES: MSHA, LOBA, GOST-R (FRAS, MA requerido)

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D

HAUPTANWENDUNGSGEBIETE
Hochdruckleitungen in schwer zugänglichen Bereichen, die extremen Umweltbedingungen ausgesetzt sind, Anwendungsbereiche mit übermäßigem Abrieb, Übertage- und Untertagebergbau
TEMPERATURBEREICH FÜR DEN DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAXIMALE BETRIEBSTEMPERATUR
(Intermittierender Betrieb) +257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl und Öl auf Synthetik-Esterbasis (bis zu +212°F / +100°C), Glykol und Polyglykol, Mineralöl-/Wasseremulsionen, Wasser

SEELE: Ölbeständiges synthetisches Elastomer
DRUCKTRÄGER: Zwei hochzugfeste Streifen aus Stahldrahtgeflecht
DECKE: Zweischichtige Struktur mit ausgezeichneter Abrieb- und Ozonbeständigkeit
SPEZIFIZIERUNG: EN 853 2SN - ISO 1436-1 2SN - SAE J517 100R2AT
Übertrifft die Anforderungen der folgenden Normen:
- BCS 174 (British Coal Specification 1992)
- ISO 6805 Typ 4 (Gummischläuche und –schlauchleitungen für den untertägigen Bergbau – Hydraulikschläuche mit Stahldrahteinlagen für den Kohlebergbau)
ZULASSUNGEN: MSHA, LOBA, GOST-R (FRAS, MA requested)

IT

PRINCIPALI APPLICAZIONI
Linee ad alta pressione con difficoltà di installazione e condizioni ambientali estreme, installazioni con condizioni di abrasione estreme, miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e a base di esteri sintetici (fino a +212°F / +100°C), glicoli e poliglicoli, minerali in emulsione acquosa, acqua

SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Due trecce di acciaio ad alto carico
COPERTURA: Struttura bi-strato con eccellente resistenza all'abrasione e all'ozono
SPECIFICHE: EN 853 2SN - ISO 1436-1 2SN - SAE J517 100R2AT
Eccede:
- BCS 174 (British Coal Specification 1992)
- ISO 6805 tipo 4 (tubi in gomma e tubi assemblati per miniere sotterranee - modelli idraulici in acciaio rinforzato per estrazioni di carbone)
OMOLOGAZIONI: MSHA, LOBA, GOST-R (FRAS, MA richiesto)

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FLUIDTECHNIK S.R.L.0723 382 199

SHIELDMASTER®/5000 MINE

OUTSTANDING ABRASION RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01104006*	6	-04	1/4"	11,6	0,46	13,6	0,54	345	5000	1380	20010	50	1,97	280	0,19	MF+M00120-04
H01104008*	8	-05	5/16"	12,9	0,51	15,1	0,59	345	5000	1380	20010	55	2,17	350	0,24	MF+M00120-05
H01104010*	10	-06	3/8"	15,0	0,59	17,2	0,68	345	5000	1380	20010	65	2,56	410	0,28	MF+M00120-06
H01104012*	12	-08	1/2"	19,8	0,78	22,2	0,87	345	5000	1380	20010	120	4,72	670	0,45	MF+M00910-08
H01104016*	16	-10	5/8"	24,4	0,96	27,2	1,07	345	5000	1380	20010	200	7,87	1030	0,69	MF+M00910-10
H01104019*	19	-12	3/4"	28,2	1,11	31,2	1,23	345	5000	1380	20010	230	9,06	1420	0,95	IP+M01500-12
H01104025*	25	-16	1"	35,1	1,38	38,1	1,50	345	5000	1380	20010	267	10,51	1990	1,34	IP+M01500-16
H01104031*	31	-20	1.1/4"	42,2	1,66	45,2	1,78	345	5000	1380	20010	350	13,78	2500	1,68	IP+M01500-20

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

MSHA approved cover for mining applications ■ Outstanding abrasion and ozone resistance ■ Compact overall dimensions ■ Easy assembly and mounting operations (no protection sleeves required) ■ Indelible branding with embossed technology

Cubierta especial, con aprobación MSHA para aplicaciones de minería ■ Gran resistencia a la abrasión y al ozono ■ Dimensiones generales estándar ■ Fácil ensamble y montaje (no se requiere protección externa) ■ Marcado en reliebe

Decke mit MSHA Zulassung für den Bergbau ■ Außerordentliche Abrieb- und Ozonbeständigkeit ■ Standardmaße ■ Leichte Montage (Keine Scheuerschutzwendel nötig) ■ Isobarische Druck-Reihe ■ Nicht entfernbare, eingeprägte Kennzeichnung

Copertura composita esterna approvata MSHA ideale per applicazioni miniera ■ Eccellente resistenza all'abrasione e all'ozono ■ Struttura compatta ■ Semplicità di assemblaggio e montaggio (non sono necessarie guaine di protezione esterne) ■ Pressioni di esercizio isobariche ■ Marcatura a rilievo indelebile

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SHIELDMASTER®/5000 MINE

TECHNICAL INFO

GB

MAIN APPLICATIONS
High pressure lines with installation contraints in heavy duty environmental conditions, specific installations with severe abrasion conditions, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE (DN 6÷16)
MF2000® - INTERLOCK PLUS TYPE (DN 19÷31)
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two high tensile steel braids (DN 6÷12). Four high tensile steel spirals (DN 16÷31)
COVER: Composite bi-layer structure with oustanding abrasion resistance
APPLICABLE SPECS.: MANULI® Design, ISO 3862-R13
TYPE APPROVALS: GOST-R, MSHA, LOBA

ES

PRINCIPALES APLICACIONES
Líneas de presión para trabajo pesado con extremas condiciones de abrasión (Ej. Mangueras rozando entre si, contactos con bordes cortantes y partículas/cuerpos extraños, abrasión debida a deslizamiento sobre el suelo, evita el uso de protectores de cubierta en espiral tipo coil
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal, aceites con base en éster sintético (hasta +212°F / +100°C), aceites basados en glicoles y poliglicoles, aceite en emulsión acuosa y agua

ESPIGA: MF2000® - TIPO MULTIFIT (DN 6÷16)
MF2000® - TIPO INTERLOCK PLUS (DN 19÷31)
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Dos refuerzos trenzados de acero de alta resistencia (DN 6÷12). Cuatro refuerzos en espiral de acero de alta resistencia (DN 16÷31)
CUBIERTA: Estructura de compuesto de doble capa con gran resistencia a la abrasión
ESPECIFICACIONES APLICABLES: Diseño MANULI®, ISO 3862-R13
APROBACIONES: GOST-R, MSHA, LOBA

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D

HAUPT-ANWENDUNGSGEBIET
Hoch belastbare Leitung mit hoher Abriebbeständigkeit (gebündelte Schlauchleitungen, lokalisierte Kontakte mit scharfen Kanten und Fremdkörper Partikel, Verschleiß durch am Boden schleifen, alternativ zu Scheuerschutzwendel)
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
(Intermittierender Betrieb) +257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Glykol, Öl auf Polyglykolbasis, Wasser/Mineralölemulsion, Synthetik-Esterbasis bis +212°F / +100°C Wasser

NIPPEL: MF2000® - MULTIFIT (DN 6÷16)
MF2000® - INTERLOCK PLUS (DN 19÷31)
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Zwei hochzugfeste Stahldrahtgeflechte (DN 6÷12). Vier hochzugfeste Stahldrahtspiralen (DN 16÷31)
DECKE: Gemaischte Doppel-Lagen Struktur mit außerordentlicher Abriebbeständigkeit
ANGEWANDTE NORM: MANULI® Design, ISO 3862-R13
ZULASSUNGEN: GOST-R, MSHA, LOBA

IT

PRINCIPALI APPLICAZIONI
Ideale per applicazioni severe in condizioni di abrasione estreme (ad es. fasci di tubi, contatti con spigoli vivi e corpi/particelle esterne, usura dovuta a contatto continuo con il terreno, alternativa a molle/guaine di protezione)
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, glicoli e poliglicoli, oli a base di esteri sintetici (fino a +212°F / +100°C), oli in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT (DN 6÷16)
MF2000® - TIPO INTERLOCK PLUS (DN 19÷31)
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Due trecce di acciaio ad alto carico (DN 6÷12). Quattro spirali di acciaio ad alto carico (DN 16÷31)
COPERTURA: Struttura composita bi-strato con eccellente resistenza all'abrasione
SPECIFICHE: MANULI® Design, ISO 3862-R13
OMOLOGAZIONI: GOST-R, MSHA, LOBA

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SHIELDMASTER®/6000 MINE

OUTSTANDING ABRASION RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H10086031*	31	-20	1.1/4"	46,3	1,82	49,5	1,95	420	6090	1680	24360	260	10,24	3760	2,53	IP+M01600-20
H10086038*	38	-24	1.1/2"	54,6	2,15	57,8	2,28	420	6090	1680	24360	310	12,20	4850	3,26	IP+M01600-24
H10086051*	51	-32	2"	68,4	2,69	72,0	2,83	420	6090	1680	24360	600	23,62	6860	4,61	XL+M01800-32

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

MSHA approved composite cover for mining applications ■ Outstanding abrasion and ozone resistance ■ Easy assembling and mounting operations ■ No protection sleeves are required ■ Indelible branding with embossed technology ■ Reduced bend radius for difficult installations ■ Flame retardant and electrical antistaticity cover properties

Aprovación MSHA cubierta compuesta para aplicaciones mineras ■ Excelente resistencia a la abrasión y al ozono ■ Fácil de ensamblar y montar, no se requiere protecciones ■ Marcado en reliebe indeleble ■ Radio de curvatura reducido para instalaciones difíciles ■ Cubierta con retardante a la llama y electricidad antiestática

Außenhülle mit MSHA-Zertifikat, ideal für den Einsatz in Bergbauanwendungen ■ Überragende Ozon- und Abriebbeständigkeit ■ Einfache Montage und leichter Einbau (es sind keine Schutzhandschuhe erforderlich) ■ Nicht entfernbare eingeprägte Kennzeichnung ■ Verringerter Biegeradius, optimal für schwer zugängliche Einsatzbereiche ■ Antistatische Außenhülle mit flammenhemmenden Eigenschaften

Copertura esterna approvata MSHA, ideale per applicazioni miniera ■ Eccellente resistenza ad abrasione ed ozono ■ Semplicità di assemblaggio e montaggio (non sono necessarie guaine di protezione esterne) ■ Marcatura a rilievo indelebile ■ Raggio di curvatura ridotto, ottimale in caso di installazioni difficoltose ■ Copertura con proprietà ritardanti la propagazione delle fiamme e antistaticità elettrica

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SHIELDMASTER®/6000 MINE

GB

MAIN APPLICATIONS
Heavy duty power lines with extreme abrasion conditions (e.g. bunches of hoses, localised contacts with sharp edges, and extraneous bodies/particles, wear due to sliding over the ground, alternative to spring guards), underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water

INSERT: MF2000® - INTERLOCK PLUS TYPE (DN 31÷38)
MF2000® - XTRALOCK (DN 51)
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: 6 high tensile steel wire spirals
COVER: Composite bi-layer structure with outstanding abrasion and ozone resistance.
APPLICABLE SPECS.: ISO 3862-1 type R15 - SAE J517 type 100R15
Exceed performances of:
- BCS 174 (British Coal Specification 1992)
- ISO 6805 type 6 (Rubber hoses and hose assemblies for underground mining - Wire reinforced hydraulic types for coal mining)
TYPE APPROVALS: MSHA, LOBA, GOST-R (FRAS, B, MA requested)

ES

PRINCIPALES APLICACIONES
líneas de muy alta presión con condiciones extremas de abrasión (ejemplo, los manojos de mangueras, contactos localizados con bordes afilados, y cuerpos/partículas extraña, uso debido a resbalar encima de la tierra, alternativa a las protecciones), minas subterráneas y abiertas
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceites vegetales y aceites basados en éster sintético (hasta +212°F / +100°C), glicoles y poliglicoles, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO INTERLOCK PLUS (DN 31÷38)
MF2000® - XTRALOCK (DN 51)
TUBO: Caucho sintético, resistente al aceite
REFUERZO: 6 espirales de acero reforzado
CUBIERTA: Estructura compuesta con bi-capa con excelente resistencia a la abrasión y al ozono.
ESPECIFICACIONES APLICABLES: ISO 3862-1 tipo R15 - SAE J517 tipo 100R15
Excede las características de:
- BCS 174 (especificación 1992 del carbón británico)
- ISO 6805 tipo 6 (Mangueras de caucho y ensamblajes para minas - malla de acero reforzada tipo hidráulico para minas de carbón)
APROBACIONES: MSHA, LOBA, GOST-R (FRAS, B, MA requerido

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPTANWENDUNGSBEREICHE
Ideal für hochbeanspruchte Anwendungen unter extremen Abriebbedingungen (z.B. Schlauchbündel, Kontakt mit scharfen Kanten und äußeren Einflüssen/Partikeln, Verschleiß durch kontinuierlichen Schleifkontakt mit dem Boden, Alternativen zu Schutzfedern), Untertage- und Übertagebergbau
TEMPERATURBEREICH FÜR DEN DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAXIMALE BETRIEBSTEMPERATUR
(Intermittierender Betrieb) +257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl und Öl auf Synthetik-Esterbasis (bis zu +212°F / +100°C), Glykol und Polyglykol, Mineralöl-/Wasseremulsionen, Wasser

NIPPEL: MF2000® - INTERLOCK PLUS TYPE (DN 31÷38)
MF2000® - XTRALOCK (DN 51)
SEELE: Ölbeständiges synthetisches Elastomer
DRUCKTRÄGER: Sechs hochzugfeste Streifen aus Stahldrahtgeflecht
DECKE: Zweischichtiger Kompositaufbau mit ausgezeichneter Abrieb- und Ozonbeständigkeit.
SPEZIFIZIERUNG: ISO 3862-1R15 - SAE J517 100R16
Übertrifft die Anforderungen der folgenden Normen:
- BCS 174 (British Coal Specification 1992)
- ISO 6805 Typ 6 (Gummischläuche und – schlauchleitungen für den untertägigen Bergbau – Hydraulikschläuche mit Stahldrahteinlagen für den Kohlebergbau)
ZULASSUNGEN: MSHA, LOBA, GOST-R (FRAS, B, MA requested)

IT

PRINCIPALI APPLICAZIONI
Ideale per applicazioni severe in condizioni di abrasione estreme (ad es. fasci di tubi, contatti con spigoli vivi e corpi/particelle esterne, usura dovuta a contatto continuo con il terreno, alternativa a molle/guaine di protezione)
Miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e a base di esteri sintetici (fino a +212°F / +100°C), glicoli e poliglicoli, minerali in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO INTERLOCK PLUS (DN 31÷38)
MF2000® - XTRALOCK (DN 51)
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: 6 trecce di acciaio ad alto carico
COPERTURA: Struttura composita bi-strato con eccellente resistenza all'abrasione e all'ozono.
SPECIFICHE: ISO 3862-1R15 - SAE J517 100R16
Eccede:
- BCS 174 (British Coal Specification 1992)
- ISO 6805 6 ((tubi in gomma e tubi assemblati per miniere sotterranee - modelli idraulici in acciaio rinforzato per estrazioni di carbone)
OMOLOGAZIONI: MSHA, LOBA, GOST-R (FRAS, B, MA richiesto)

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CPH/2SC

CABLE PROTECTION HOSE



PART. REF.	HOSE SIZE				R.O.D.		O.D.		WEIGHT		FERRULE
	DN	dash	mm	inch	mm	inch	mm	inch	g/m	lb/ft	
H01033010*	10	-06	9,5	3/8"	15,0	0,59	16,8	0,66	395	0,27	M03400-06
H01033012*	12	-08	12,7	1/2"	18,5	0,73	20,3	0,80	495	0,33	M03400-08
H01033019*	19	-12	19,0	3/4"	25,6	1,01	27,6	1,09	815	0,55	M03400-12

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

High flexibility ■ Low weight ■ High-tech manufacturing process ■ Easy routing ■ Blue flame retardant cover ■ MSHA approved

Alta Flexibilidad ■ Bajo Peso ■ Proceso de alta tecnología ■ Ruta fácil ■ Cubierta azul con retardante a llama ■ aprovación MSHA

Extrem hohe Flexibilität ■ Reduziertes Gewicht ■ High-tech Produktionsprozess ■ Einfache Installation ■ Blaue flammenhemmende Außenhülle, MSHA-zertifiziert

Alta flessibilità ■ Peso ridotto ■ Processo produttivo high-tech ■ Semplicità di installazione ■ Copertura blu resistente alla propagazione di fiamma ■ Omologazione MSHA

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GB

MAIN APPLICATIONS
Cable protection hose for mining applications.
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two high tensile steel braids
COVER: Blue synthetic rubber with high ozone and weather resistance
APPLICABLE SPECS.: MANULI design
TYPE APPROVALS: LOBA, MSHA, GOST-R

ES

PRINCIPALES APLICACIONES
Cable de protección de manguera para aplicaciones mineras.
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Dos trenzas de acero de alta rersistencia
CUBIERTA: Caucho sintético azul con alta resistencia al ozono y a la intemperie
ESPECIFICACIONES APLICABLES: diseño Manuli
APROBACIONES: LOBA, MSHA, GOST-R

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D

HAUPT-ANWENDUNGSGEBIET
Kabelschutzschläuche für Bergbauanwendungen
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Elastomer
DRUCKTRÄGER: Zwei hochzugfeste Streifen aus Stahldrahtgeflecht
DECKE: Blaues synthetisches Elastomer mit hoher Ozon- und Wetterbeständigkeit
ANGEWANDTE NORM: MANULI® Design
ZULASSUNGEN: LOBA, MSHA, GOST-R

IT

PRINCIPALI APPLICAZIONI
Tubo protettivo per cavi per applicazioni miniera.
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Due trecce di acciaio ad alto carico
COPERTURA: Gomma sintetica blu resistente a ozono e agenti atmosferici
SPECIFICHE: MANULI® Design
OMOLOGAZIONI: LOBA, MSHA, GOST-R

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FITTINGS

MF2000®



Fluid connectors, solid solutions

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manuli® HYDRAULICS

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INTRODUCTION

GB

The range of hydraulic fittings applies to English BS (British Standard), American SAE and German DIN (Deutsches Institut für Normung) norms. Additional items conforming to Japanese norms JIS (Japanese Industrial Standard), French NF and some flanged head fittings for OEM applications are also included in the range.
For braid hose, MF2000® range is available with a no-skive or skive assembling technology.
For wire spiral hose MF2000® range is used with external skive.
For the highest pressure levels, the Interlock Plus range is recommended with internal and external skiving operations.

ES

La gama de conexiones hidráulicas sigue las normas Inglesas BS (British Standard), Americanas SAE, Alemanas DIN (Deutsches Institut fur Normung), Japonesas JIS (Japanese Industrial Standard), las francesas NF, conexiones bridadas y aplicaciones para equipo original (OEM).
Para la manguera con refuerzo trenzado, las conexiones serie MF2000® están disponibles con una tecnología de ensamble con o sin pelado. Para las mangueras con refuerzo en espiral se usa la serie MF2000® con pelado externo de la manguera, mientras que para una muy alta presión, la serie Interlock Plus debe ser usada con pelado interno y externo.

D

SAE und DIN (Deutsches Institut für Normung). Ergänzende Produkte nach der japanischen Norm JIS (Japanese Industrial Standard), Französische NF Spezifikationen und einige Flanschармaturen nach OEM-Vorschriften sind ebenfalls verfügbar.
Für Drahtgeflechtschläuche steht das MF2000® Programm mit Schäl-oder Nicht-Schäl-Technologie zur Verfügung, während für die Superhochdruckanwendungen das MF2000® InterlockPlusprogramm mit Innen und Außenschälung die optimale Lösung darstellt.

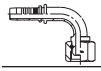
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La gamma raccordi MFI comprende prodotti rispondenti alle norme inglesi BSP (British Standard Pipe), americane JIC (Joint Industrial Council) e tedesche DIN (Deutsches Institut für Normung). Sono inoltre disponibili ulteriori referenze conformi alle norme giapponesi JIS (Japanese Industrial Standard), francesi NF ed una gamma di flange speciali per specifiche applicazioni OEM.
Per tubi con rinforzo trecciato è disponibile la gamma MF2000® con entrambe le soluzioni con e senza pelatura esterna del tubo.
Per tubi con rinforzo in acciaio spiralato è utilizzata la gamma MF2000® con pelatura esterna, mentre, per le altissime pressioni, può essere utilizzata la gamma Interlock Plus che prevede la pelatura interna ed esterna del tubo.

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M00910/M00920 	**SKIVE FERRULE FOR WIRE BRAID AND SPIRAL HOSES** CASQUILLO CON PELADO PARA MANGUERAS CON TRENZA Y ESPIRAL DE ACERO SCHÄLFASSUNG FÜR STAHLGEFLECHT- UND SPIRALSCHLÄUCHE GHIERA PER TUBI TRECCIATI E SPIRALATI CON PELATURA	157
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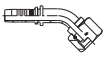
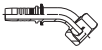
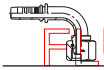
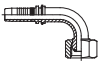
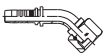
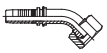
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MF2000®

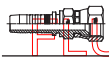
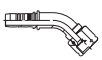
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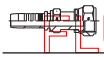
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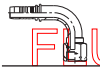
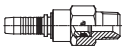
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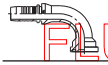
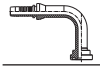
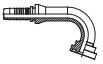
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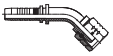
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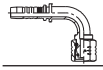
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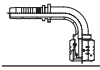
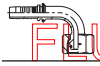
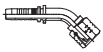
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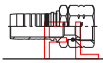
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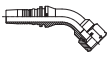
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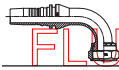
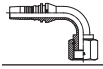
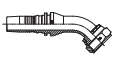
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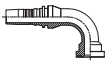
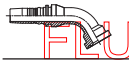
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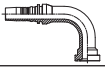
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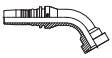
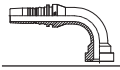
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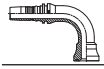
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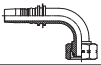
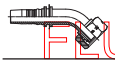
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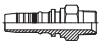
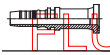
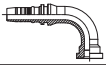
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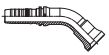
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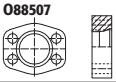
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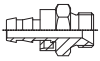
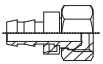
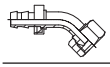
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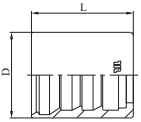
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M00110/M00120

SKIVE FERRULE FOR WIRE BRAID HOSES

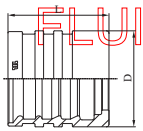
CASQUILLO CON PELADO PARA MANGUERAS CON TRENZA DE ACERO

SCHÄLFASSUNG FÜR STAHLGEFLECHTSCHLÄUCHE

GHIERA PER TUBI TRECCIATI CON PELATURA

PART. REF.	HOSE BORE				DIMENSIONS mm					
	DN	inch	Size		D	L				
M00120-03	5	3/16"	- 03		17,0	23,9				
M00120-04	6	1/4"	- 04		19,5	28,0				
M00120-05	8	5/16"	- 05		20,0	28,6				
M00120-06	10	3/8"	- 06		23,0	30,0				
M00120-08	12	1/2"	- 08		26,7	32,0				
M00120-10	16	5/8"	- 10		32,0	38,0				
M00120-12	19	3/4"	- 12		35,8	41,7				
M00120-16	25	1"	- 16		43,0	47,0				
M00110-20	31	1.1/4"	- 20		50,5	59,0				
M00110-24	38	1.1/2"	- 24		57,0	70,0				
M00110-32	51	1"	- 32		70,0	72,0				

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M00910/M00920

SKIVE FERRULE FOR WIRE BRAID AND SPIRAL HOSES

CASQUILLO CON PELADO PARA MANGUERAS CON TRENZA Y ESPIRAL DE ACERO

SCHÄLFASSUNG FÜR STAHLGEFLECHT- UND SPIRALSCHLÄUCHE

GHIERA PER TUBI TRECCIATI E SPIRALATI CON PELATURA

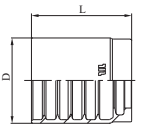
PART. REF.	HOSE BORE				DIMENSIONS mm					
	DN	inch	Size		D	L				
M00910-03	5	3/16"	- 03		20,6	26,0				
M00910-04	6	1/4"	- 04		22,0	30,0				
M00910-05	8	5/16"	- 05		24,0	31,0				
M00910-06	10	3/8"	- 06		26,0	33,0				
M00910-08	12	1/2"	- 08		30,0	34,0				
M00910-10	16	5/8"	- 10		33,0	39,0				
M00920-12	19	3/4"	- 12		38,0	40,0				
M00920-16	25	1"	- 16		46,0	54,0				
M00920-20	31	1.1/4"	- 20		57,0	60,0				
M00910-24	38	1.1/2"	- 24		65,0	70,0				
M00910-32	51	2"	- 32		79,0	72,0				

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FERRULE

M03400

NO-SKIVE FERRULE FOR WIRE BRAID HOSES
CASQUILLO SIN PELADO PARA MANGUERAS CON TRENZA DE ACERO
NICHT-SCHÄLFASSUNG FÜR STAHLGEFLECHTSCHLÄUCHE
GHIERA PER TUBI TRECCIATI SENZA PELATURA



PART. REF.	HOSE BORE				DIMENSIONS mm					
	DN	inch	Size		D	L				
M03400-03	5	3/16"	- 03		21,0	23,0				
M03400-04	6	1/4"	- 04		23,0	30,1				
M03400-05	8	5/16"	- 05		24,0	30,0				
M03400-06	10	3/8"	- 06		26,0	31,1				
M03400-08	12	1/2"	- 08		29,0	33,4				
M03400-10	16	5/8"	- 10		33,0	37,0				
M03400-12	19	3/4"	- 12		37,0	42,0				
M03400-16	25	1"	- 16		46,0	51,0				
M03400-20	31	1.1/4"	- 20		59,0	57,2				
M03400-24	38	1.1/2"	- 24		67,0	64,8				
M03400-32	51	2"	- 32		80,0	68,3				
M03400-38	60	2.3/8"	- 38		82,5	69,0				
M03400-40	63	2. 1/2"	- 40		88,2	68,8				
M03400-48	76	3"	- 48		103,0	72,0				

FLUIDTECHNIK S.R.L. 0723 382 199

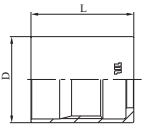
Available no-skive ferrule for one braid hoses for DN 6 (M03100-04) and DN 10 (M03100-06).

Disponible casquillo sin pelado para mangueras de una trenza para DN 6 (M03100-04) y DN 10 (M03100-06).

Verfügbar hülse ohne abschälen für 1-drahtgeflechtschläuche für DN 6 (M03100-04) und DN 10 (M03100-06)

Disponibile ghiera per tubi a una treccia senza pelatura per DN 6 (M03100-04) e DN 10 (M03100-06).

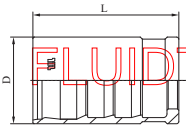
FLUIDTECHNIK S.R.L.0723 382 199



M00310

NO-SKIVE FERRULE FOR TEXTILE BRAID HOSES
CASQUILLO SIN PELADO PARA MANGUERAS CON REFUERZO TEXTIL TRENZADO
NICHT-SCHÄLFASSUNG FÜR TEXTILGEFLECHTSCHLÄUCHE
GHIERA PER TUBI TESSILI SENZA PELATURA

PART. REF.	HOSE BORE				DIMENSIONS mm					
	DN	inch	Size		D	L				
M00310-03	5	3/16"	- 03		17,5	27,0				
M00310-04	6	1/4"	- 04		19,3	30,0				
M00310-05	8	5/16"	- 05		21,0	32,0				
M00310-06	10	3/8"	- 06		24,0	32,0				
M00310-08	12	1/2"	- 08		28,4	34,0				
M00310-10	16	5/8"	- 10		33,0	37,0				
M00310-12	19	3/4"	- 12		37,0	43,0				
M00310-16	25	1"	- 16		43,5	51,0				
M00310-20	31	1.1/4"	- 20		50,0	59,0				



M00820/M00830

NO-SKIVE FERRULE FOR COMPACT HOSES
CASQUILLO SIN PELADO PARA MANGUERA COMPACTA
NICHT-SCHÄLFASSUNG FÜR KOMPAKT-SCHLÄUCHE
GHIERA PER TUBI COMPATTI SENZA PELATURA

FLUIDTECHNIK S.R.L. 0723 382 199

PART. REF.	HOSE BORE				DIMENSIONS mm					
	DN	inch	Size		D	L				
M00820-03	5	3/16"	- 03		14,0	26,4				
NEW M00830-04	6	1/4"	- 04		18,0	29,6				
NEW M00830-05	8	5/16"	- 05		19,0	31,9				
M00820-06	10	3/8"	- 06		22,0	33,0				
M00820-08	12	1/2"	- 08		26,0	33,9				
M00820-10	16	5/8"	- 10		29,0	35,9				
M00820-12	19	3/4"	- 12		33,0	41,7				
M00820-16	25	1"	- 16		41,0	49,7				
M00820-20	31	1.1/4"	- 20		48,0	57,0				
M00820-24	38	1.1/2"	- 24		55,5	66,0				
M00820-32	51	2"	- 32		68,6	70,0				

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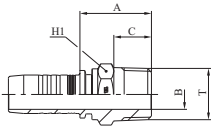
M10710

BSP MALE TAPERED - ISO 7

MACHO BSP (BSPT) ROSCA CONICA - ISO 7

AGR KONISCH (BSPT GEWINDE NACH) - ISO 7

MASCHIO CONICO GAS - ISO 7

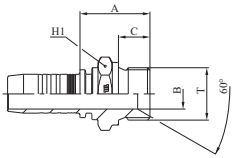


PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C			H1
M10710-03-02	5	3/16"	- 03	1/8" - 28	4,5	20,6	8,0			12
M10710-03-04	5	3/16"	- 03	1/4" - 19	4,5	24,5	12,0			14
M10710-04-02	6	1/4"	- 04	1/8" - 28	4,5	21,0	8,0			12
M10710-04-04	6	1/4"	- 04	1/4" - 19	4,5	25,0	12,0			14
M10710-04-06	6	1/4"	- 04	3/8" - 19	7,0	26,0	12,0			19
M10710-04-08	6	1/4"	- 04	1/2" - 14	10,0	29,5	15,0			22
M10710-05-04	8	5/16"	- 05	1/4" - 19	5,5	25,0	12,0			14
M10710-05-06	8	5/16"	- 05	3/8" - 19	7,0	26,5	12,0			19
M10710-05-08	8	5/16"	- 05	1/2" - 14	10,0	30,0	15,0			22
M10710-06-06	10	3/8"	- 06	3/8" - 19	7,0	27,1	12,0			19
M10710-06-08	10	3/8"	- 06	1/2" - 14	10,0	30,6	15,0			22
M10710-08-04	12	1/2"	- 08	1/4" - 19	4,5	26,0	12,0			19
M10710-08-08	12	1/2"	- 08	1/2" - 14	10,0	31,1	15,0			22
M10710-10-08	16	5/8"	- 10	1/2" - 14	10,0	31,0	15,0			22
M10710-10-12	16	5/8"	- 10	3/4" - 14	17,0	37,0	17,0			27
M10710-12-12	19	3/4"	- 12	3/4" - 14	17,0	35,5	17,0			27
M10710-16-12	25	1"	- 16	3/4" - 14	17,0	38,0	17,0			32
M10710-16-16	25	1"	- 16	1" - 11	22,5	41,8	21,0			36
M10710-20-20	31	1.1/4"	- 20	1.1/4" - 11	28,5	47,5	23,0			46
M10710-24-24	38	1.1/2"	- 24	1.1/2" - 11	32,0	50,0	23,0			50
M10710-32-32	51	2"	- 32	2" - 11	44,0	55,4	27,0			65

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M10510

BSP MALE PARALLEL 60° CONE SEAT - BS5200 / ISO 8434-6
MACHO BSP PARALELO ASIENTO A 60º - BS5200 / ISO 8434-6
AGR 60° INNENKONUS (BSP-GEWINDE NACH BS5200 / ISO 8434-6)
MASCHIO GAS CILINDRICO 60° - BS5200 / ISO 8434-6

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H1	
M10510-03-02	5	3/16"	- 03	1/8" - 28	3,5	22,5	10,0		14	
M10510-03-04	5	3/16"	- 03	1/4" - 19	5,0	25,0	11,0		19	
M10510-04-02	6	1/4"	- 04	1/8" - 28	3,5	22,5	10,0		14	
M10510-04-04	6	1/4"	- 04	1/4" - 19	5,0	25,5	11,0		19	
M10510-04-06	6	1/4"	- 04	3/8" - 19	8,0	27,0	12,0		22	
M10510-04-08	6	1/4"	- 04	1/2" - 14	11,0	30,0	14,0		27	
M10510-05-04	8	5/16"	- 05	1/4" - 19	5,0	26,0	11,0		19	
M10510-05-06	8	5/16"	- 05	3/8" - 19	8,0	27,5	12,0		22	
M10510-06-04	10	3/8"	- 06	1/4" - 19	5,0	26,0	11,0		19	
M10510-06-06	10	3/8"	- 06	3/8" - 19	8,0	28,1	12,0		22	
M10510-06-08	10	3/8"	- 06	1/2" - 14	11,0	30,6	14,0		27	
M10510-08-06	12	1/2"	- 08	3/8" - 19	8,0	28,1	12,0		22	
M10510-08-08	12	1/2"	- 08	1/2" - 14	11,0	31,1	14,0		27	
M10510-08-10	12	1/2"	- 08	5/8" - 14	14,5	33,1	16,0		30	
M10510-08-12	12	1/2"	- 08	3/4" - 14	17,0	34,1	16,0		32	
M10510-10-10	16	5/8"	- 10	5/8" - 14	14,5	33,1	16,0		30	
M10510-10-12	16	5/8"	- 10	3/4" - 14	17,0	34,1	16,0		32	
M10510-12-08	19	3/4"	- 12	1/2" - 14	11,0	32,0	14,0		27	
M10510-12-12	19	3/4"	- 12	3/4" - 14	17,0	35,5	16,0		32	
M10510-12-16	19	3/4"	- 12	1" - 11	22,5	39,5	19,0		41	
M10510-16-12	25	1"	- 16	3/4" - 14	17,0	36,5	16,0		32	
M10510-16-16	25	1"	- 16	1" - 11	22,5	40,8	19,0		41	
M10510-16-20	25	1"	- 16	1.1/4" - 11	28,5	44,8	20,0		50	
M10510-20-20	31	1.1/4"	- 20	1.1/4" - 11	28,5	46,5	20,0		50	
M10510-20-24	31	1.1/4"	- 20	1.1/2" - 11	33,5	48,5	22,0		55	
M10510-24-24	38	1.1/2"	- 24	1.1/2" - 11	33,5	49,5	22,0		55	
M10510-32-32	51	2"	- 32	2" - 11	46,0	53,9	25,0		70	

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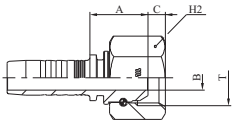
FLUIDTECHNIK S.R.L.0723 382 199

MULTIFIT TYPE

BS STANDARD CONNECTIONS

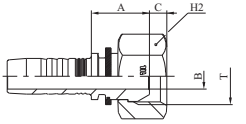
M20512

BSP FEMALE 60° CONE - BS5200 / ISO 12151-6 (THRUST-WIRE NUT)
HEMBRA BSP ASIENTO A 60º - BS5200 / ISO 12151-6 (TUERCA CON SEGURO)
DKR 60° KONUS (BSP-GEWINDE NACH BS5200 / ISO 12151-6, GESTIFTETE MUTTER)
FEMMINA GAS CONO 60° - BS5200 / ISO 12151-6 (DADO SPINATO)



M20513

BSP FEMALE 60° CONE - BS5200 / ISO 12151-6 (SLIP-ON NUT)
HEMBRA BSP ASIENTO A 60º - BS5200 / ISO 12151-6 (TUERCA LIBRE)
DKR 60° KONUS (BSP-GEWINDE NACH BS5200 / ISO 12151-6, HINTERLEGTE MUTTER)
FEMMINA GAS CONO 60° - BS5200 / ISO 12151-6 (DADO PASSANTE)

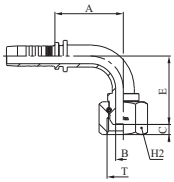


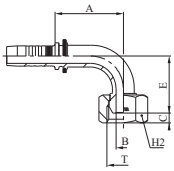
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C			H_2
M20512-03-02	5	3/16"	- 03	1/8" - 28	3,1	14,8	4,4			14
M20513-03-04	5	3/16"	- 03	1/4" - 19	4,0	16,5	5,4			19
M20512-04-02	6	1/4"	- 04	1/8" - 28	3,1	15,5	4,4			14
M20513-04-04	6	1/4"	- 04	1/4" - 19	4,0	17,0	5,4			19
M20513-04-06	6	1/4"	- 04	3/8" - 19	7,0	19,1	6,0			22
M20512-05-04	8	5/16"	- 05	1/4" - 19	4,1	17,5	4,2			19
M20513-05-06	8	5/16"	- 05	3/8" - 19	7,0	19,1	6,0			22
M20513-05-08	8	5/16"	- 05	1/2" - 14	9,3	20,5	6,5			27
M20512-06-04	10	3/8"	- 06	1/4" - 19	4,1	18,1	4,2			19
M20513-06-06	10	3/8"	- 06	3/8" - 19	7,0	19,6	6,0			22
M20513-06-08	10	3/8"	- 06	1/2" - 14	9,3	20,0	6,5			27
M20512-08-06	12	1/2"	- 08	3/8" - 19	7,1	20,9	6,0			22
M20513-08-08	12	1/2"	- 08	1/2" - 14	9,3	20,4	6,5			27
M20512-08-10	12	1/2"	- 08	5/8" - 14	12,1	21,9	10,2			28
M20512-08-12	12	1/2"	- 08	3/4" - 14	15,0	23,4	9,0			32
M20512-10-08	16	5/8"	- 10	1/2" - 14	9,8	24,0	6,5			27
M20512-10-10	16	5/8"	- 10	5/8" - 14	12,5	21,7	10,2			28
M20512-10-12	16	5/8"	- 10	3/4" - 14	15,0	23,2	9,0			32
M20512-12-08	19	3/4"	- 12	1/2" - 14	9,8	25,0	6,5			27
M20512-12-12	19	3/4"	- 12	3/4" - 14	15,0	24,5	9,0			32
M20512-12-16	19	3/4"	- 12	1" - 11	19,8	26,0	10,5			38
M20512-16-12	25	1"	- 16	3/4" - 14	15,0	25,5	9,0			32
M20512-16-16	25	1"	- 16	1" - 11	19,8	27,3	10,5			38

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BS STANDARD CONNECTIONS





M20592

90° BSP FEMALE SWEPT ELBOW 60° CONE - BS5200 / ISO 12151-6 (THRUST-WIRE NUT)
HEMBRA BSP CODO DE 90º ASIENTO A 60º - BS5200 / ISO 12151-6 (TUERCA CON SEGURO)
DKR 90° BOGEN 60° KONUS - (BSP-GEWINDE NACH BS5200 / ISO 12151-6, GESTIFTETE MUTTER)
FEMMINA GAS 90° CONO 60° - BS5200 / ISO 12151-6 (DADO SPINATO)

M20593

90° BSP FEMALE SWEPT ELBOW 60° CONE - BS5200 / ISO 12151-6 (SLIP-ON NUT)
HEMBRA BSP CODO DE 90º ASIENTO A 60º - BS5200 / ISO 12151-6 (TUERCA LIBRE)
DKR 90° BOGEN 60° KONUS - (BSP-GEWINDE NACH BS5200 / ISO 12151-6, HINTERLEGTE MUTTER)
FEMMINA GAS 90° CONO 60° - BS5200 / ISO 12151-6 (DADO PASSANTE)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H_2
M20592-03-02	5	3/16"	- 03	1/8" - 28	3,1	21,5	4,4	26,0		14
M20593-03-04	5	3/16"	- 03	1/4" - 19	4,0	29,0	5,4	29,0		19
M20592-04-02	6	1/4"	- 04	1/8" - 28	3,1	28,5	4,4	27,0		14
M20593-04-04	6	1/4"	- 04	1/4" - 19	4,0	29,5	5,4	29,0		19
M20593-04-06	6	1/4"	- 04	3/8" - 19	7,0	29,5	6,0	31,0		22
M20592-05-04	8	5/16"	- 05	1/4" - 19	4,1	26,5	5,4	29,5		19
M20593-05-06	8	5/16"	- 05	3/8" - 19	7,0	32,0	6,0	27,5		22
M20593-05-08	8	5/16"	- 05	1/2" - 14	9,3	36,5	6,5	32,0		27
M20592-06-04	10	3/8"	- 06	1/4" - 19	4,0	27,0	4,2	29,5		19
M20593-06-06	10	3/8"	- 06	3/8" - 19	7,0	36,5	6,0	31,5		22
M20593-06-08	10	3/8"	- 06	1/2" - 14	9,3	36,5	6,5	32,0		27
M20592-08-06	12	1/2"	- 08	3/8" - 19	7,0	45,0	6,0	41,0		22
M20593-08-08	12	1/2"	- 08	1/2" - 14	9,3	45,0	6,5	36,5		27
M20592-08-10	12	1/2"	- 08	5/8" - 14	12,1	44,0	10,2	44,0		28
M20592-08-12	12	1/2"	- 08	3/4" - 14	15,0	44,0	9,0	45,5		32
M20592-10-08	16	5/8"	- 10	1/2" - 14	9,3	53,5	6,5	54,5		27
M20592-10-10	16	5/8"	- 10	5/8" - 14	12,5	53,5	10,2	53,5		28
M20592-10-12	16	5/8"	- 10	3/4" - 14	15,0	53,5	9,0	55,0		32
M20592-12-08	19	3/4"	- 12	1/2" - 14	9,3	45,5	6,5	44,0		27
M20592-12-12	19	3/4"	- 12	3/4" - 14	15,5	61,5	9,0	59,5		32
M20592-12-16	19	3/4"	- 12	1" - 11	19,8	61,5	10,5	62,0		38
M20592-16-12	25	1"	- 16	3/4" - 14	15,0	64,5	9,0	59,5		32
M20592-16-16	25	1"	- 16	1" - 11	19,8	79,5	10,5	76,0		38

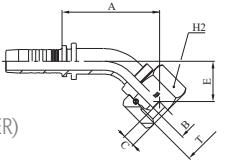
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MULTIFIT TYPE

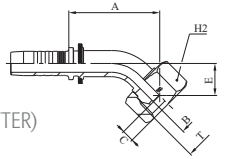
BS STANDARD CONNECTIONS

M20542



45° BSP FEMALE SWEPT ELBOW 60° CONE - BS5200 / ISO 12151-6 (THRUST-WIRE NUT)
HEMBRA BSP CODO DE 45° ASIENTO A 60° - BS5200 / ISO 12151-6 (TUERCA CON SEGURO)
DKR 45° BOGEN 60° KONUS - (BSP-GEWINDE NACH BS5200 / ISO 12151-6, GESTIFTETE MUTTER)
FEMMINA GAS 45° CONO 60° - BS5200 / ISO 12151-6 (DADO SPINATO)

M20543

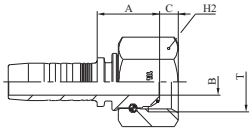


45° BSP FEMALE SWEPT ELBOW 60° CONE - BS5200 / ISO 12151-6 (SLIP-ON NUT)
HEMBRA BSP CODO DE 45° ASIENTO A 60° - BS5200 / ISO 12151-6 (TUERCA LIBRE)
DRK 45° BOGEN 60° KONUS - (BSP-GEWINDE NACH BS5200 / ISO 12151-6, HINTERLEGTE MUTTER)
FEMMINA GAS 45° CONO 60° - BS5200 / ISO 12151-6 (DADO PASSANTE)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H_2
M20542-03-02	5	3/16"	- 03	1/8" - 28	3,1	31,0	4,4	15,0		14
M20543-03-04	5	3/16"	- 03	1/4" - 19	4,0	35,5	5,4	14,5		19
M20542-04-02	6	1/4"	- 04	1/8" - 28	3,1	35,5	4,4	14,5		14
M20543-04-04	6	1/4"	- 04	1/4" - 19	4,0	36,0	5,4	15,0		19
M20543-04-06	6	1/4"	- 04	3/8" - 19	7,0	37,5	6,0	16,0		19
M20542-05-04	8	5/16"	- 05	1/4" - 19	4,0	35,5	5,4	16,0		19
M20543-05-06	8	5/16"	- 05	3/8" - 19	7,0	38,0	6,0	13,5		22
M20543-06-06	10	3/8"	- 06	3/8" - 19	7,0	42,0	6,0	15,0		22
M20543-06-08	10	3/8"	- 06	1/2" - 14	9,3	42,5	6,5	16,0		27
M20542-08-06	12	1/2"	- 08	3/8" - 19	7,1	52,0	6,0	20,0		22
M20543-08-08	12	1/2"	- 08	1/2" - 14	9,3	49,5	6,5	17,0		27
M20542-08-10	12	1/2"	- 08	5/8" - 14	12,1	54,5	10,2	22,5		28
M20542-08-12	12	1/2"	- 08	3/4" - 14	15,0	57,0	9,0	25,0		32
M20542-10-10	16	5/8"	- 10	5/8" - 14	12,5	63,0	10,2	26,0		28
M20542-10-12	16	5/8"	- 10	3/4" - 14	15,0	64,0	9,0	27,0		32
M20542-12-08	19	3/4"	- 12	1/2" - 14	9,3	55,5	6,5	22,5		27
M20542-12-12	19	3/4"	- 12	3/4" - 14	15,5	70,5	9,0	28,5		32
M20542-12-16	19	3/4"	- 12	1" - 11	19,8	72,5	10,5	30,0		38
M20542-16-16	25	1"	- 16	1" - 11	19,8	91,0	10,5	36,5		38

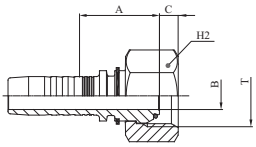
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M20812

BSP O-RING FEMALE 60° CONE - BS5200 / ISO 12151-6 (THRUST-WIRE NUT)
HEMBRA BSP CON O-RING ASIENTO A 60º - BS5200 / ISO 12151-6 (TUERCA CON SEGURO)
DKOR 60° KONUS MIT O-RING -
(BSP-GEWINDE NACH BS5200 / ISO 12151-6 GESTIFTETE MUTTER)
FEMMINA GAS CONO 60° O-RING - BS5200 / ISO 12151-6 (DADO SPINATO)



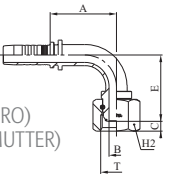
M20813

BSP O-RING FEMALE 60° CONE - BS5200 / ISO 12151-6 (SLIP-ON NUT)
HEMBRA BSP CON O-RING ASIENTO A 60º - BS5200 / ISO 12151-6 (TUERCA LIBRE)
DKOR 60° KONUS MIT O-RING
(BSP-GEWINDE NACH BS5200 / ISO 12151-6 HINTERLEGTE MUTTER)
FEMMINA GAS CONO 60° O-RING BS5200 / ISO 12151-6 (DADO PASSANTE)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C			H_2
M20813-03-04	5	3/16"	- 03	1/4" - 19	4,0	16,5	4,9			19
M20813-04-04	6	1/4"	- 04	1/4" - 19	4,0	17,5	4,9			19
M20812-06-04	10	3/8"	- 06	1/4" - 19	4,0	18,1	4,9			19
M20813-06-06	10	3/8"	- 06	3/8" - 19	7,0	20,4	6,1			22
M20813-06-08	10	3/8"	- 06	1/2" - 14	9,3	21,0	6,5			27
M20813-08-08	12	1/2"	- 08	1/2" - 14	9,3	20,4	6,5			27
M20812-10-10	16	5/8"	- 10	5/8" - 14	12,5	22,1	9,7			28
M20812-12-12	19	3/4"	- 12	3/4" - 14	15,0	25,0	8,5			32
M20812-16-12	25	1"	- 16	3/4" - 14	15,0	26,0	8,5			32
M20812-16-16	25	1"	- 16	1" - 11	19,8	27,3	10,6			38
M20812-16-20	25	1"	- 16	1.1/4" - 11	26,1	30,8	10,5			50
M20812-20-16	31	1.1/4"	- 20	1" - 11	19,8	29,0	10,5			38
M20812-20-20	31	1.1/4"	- 20	1.1/4" - 11	26,0	31,5	10,5			50
M20812-20-24	31	1.1/4"	- 20	1.1/2" - 11	32,1	29,5	12,5			60
M20812-24-20	38	1.1/2"	- 24	1.1/4" - 11	26,0	31,5	10,5			50
M20812-24-24	38	1.1/2"	- 24	1.1/2" - 11	32,0	30,5	12,5			60
M20812-24-32	38	1.1/2"	- 24	2" - 11	42,0	30,0	16,1			70
M20812-32-32	51	2"	- 32	2" - 11	42,0	31,9	16,1			70

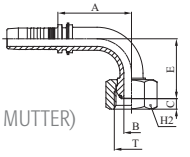
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BS STANDARD CONNECTIONS



M20892

90° BSP O-RING FEMALE SWEPT ELBOW 60° CONE - BS5200 / ISO 12151-6 (THRUST-WIRE NUT)
HEMBRA BSP CON O-RING CODO DE 90° ASIENTO A 60° - BS5200 / ISO 12151-6 (TUERCA CON SEGURO)
DKOR 90° BOGEN 60° KONUS MIT O-RING (BSP-GEWINDE NACH BS5200 / ISO 12151-6, GESTIFTETE MUTTER)
FEMMINA GAS 90° CONO 60° O-RING - BS5200 / ISO 12151-6 (DADO SPINATO)



M20893

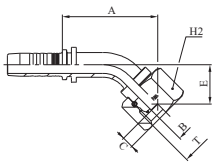
90° BSP O-RING FEMALE SWEPT ELBOW 60° CONE - BS5200 / ISO 12151-6 (SLIP-ON NUT)
HEMBRA BSP CON O-RING CODO DE 90° ASIENTO A 60° - BS5200 / ISO 12151-6 (TUERCA LIBRE)
DKOR 90° BOGEN 60°KONUS MIT O-RING (BSP-GEWINDE NACH BS5200 / ISO 12151-6 HINTERLEGTE MUTTER)
FEMMINA GAS 90° CONO 60° O-RING BS5200 / ISO 12151-6 (DADO PASSANTE)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H_2
M20893-03-04	5	3/16"	- 03	1/4" - 19	4,0	29,0	4,9	29,0		19
M20893-04-04	6	1/4"	- 04	1/4" - 19	4,0	28,5	4,9	28,5		19
M20892-06-04	10	3/8"	-06	1/4" - 19	4,0	35,5	4,9	33,0		19
M20893-06-06	10	3/8"	- 06	3/8" - 19	7,0	35,5	6,1	36,0		22
M20893-08-08	12	1/2"	- 08	1/2" - 14	9,3	44,5	6,5	42,0		27
M20892-10-10	16	5/8"	- 10	5/8" - 14	12,5	53,0	9,7	55,0		30
M20892-12-12	19	3/4"	- 12	3/4" - 14	15,0	61,5	8,5	60,0		32
M20892-12-16	19	3/4"	- 12	1" - 11	19,8	61,5	10,5	62,0		38
M20892-16-12	25	1"	- 16	3/4" - 14	15,0	79,5	8,5	60,0		32
M20892-16-16	25	1"	- 16	1" - 11	19,8	79,5	10,6	76,0		38
M20892-16-20	25	1"	- 16	1.1/4" - 11	26,1	79,5	10,5	78,5		50
M20892-20-16	31	1.1/4"	- 20	1" - 11	19,8	79,5	10,5	76,0		38
M20892-20-20	31	1.1/4"	- 20	1.1/4" - 11	26,0	90,5	10,5	83,5		50
M20892-20-24	31	1.1/4"	- 20	1.1/2" - 11	32,1	90,5	12,5	84,5		60
M20892-24-20	38	1.1/2"	- 24	1.1/4" - 11	26,0	95,0	10,5	90,5		50
M20892-24-24	38	1.1/2"	- 24	1.1/2" - 11	32,0	108,0	12,5	98,5		60
M20892-32-32	51	2"	- 32	2" - 11	42,0	131,0	16,1	110,5		70

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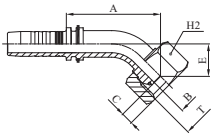
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M20842



45° BSP O-RING FEMALE SWEPT ELBOW 60° CONE BS5200 / ISO 12151-6 (THRUST-WIRE NUT)
HEMBRA BSP CON O-RING CODO DE 45º ASIENTO A 60º
BS5200 / ISO 12151-6 (TUERCA CON SEGURO)
DKOR 45° BOGEN 60° KONUS MIT O-RING
(BSP-GEWINDE NACH BS5200 / ISO 12151-6, GESTIFTETE MUTTER)
FEMMINA GAS 45° CONO 60° O-RING
BS5200 / ISO 12151-6 (DADO SPINATO)

M20843



45° BSP O-RING FEMALE SWEPT ELBOW 60° CONE BS5200 / ISO 12151-6 (SLIP-ON NUT)
HEMBRA BSP CON O-RING CODO DE 45º ASIENTO A 60º
BS5200 / ISO 12151-6 (TUERCA LIBRE)
DKOR 45° BOGEN 60° KONUS MIT O-RING
(BSP-GEWINDE NACH BS5200 / ISO 12151-6, HINTERLEGTE MUTTER)
FEMMINA GAS 45° CONO 60° O-RING
BS5200 / ISO 12151-6 (DADO PASSANTE)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H_2
M20843-04-04	6	1/4"	- 04	1/4" -19	4,0	36,0	4,9	15,0		19
M20843-06-06	10	3/8"	- 06	3/8" -19	7,0	44,5	6,1	18,5		22
M20843-08-08	12	1/2"	- 08	1/2" -14	9,3	52,0	6,5	20,5		27
M20842-10-10	16	5/8"	- 10	5/8" -14	12,5	63,5	9,7	27,5		30
M20842-12-12	19	3/4"	- 12	3/4" -14	15,5	71,0	8,5	29,0		32
M20842-16-12	25	1"	- 16	3/4" -14	15,0	79,5	8,5	29,0		32
M20842-16-16	25	1"	- 16	1" -11	19,8	90,5	10,6	35,6		38
M20842-16-20	25	1"	- 16	1.1/4" - 11	26,0	93,0	10,5	38,0		50
M20842-20-20	31	1.1/4"	- 20	1.1/4" - 11	26,0	101,5	10,5	39,0		50
M20842-20-24	31	1.1/4"	- 20	1.1/2" - 11	32,0	118,5	12,5	40,5		60
M20842-24-20	38	1.1/2"	- 24	1.1/4" - 11	26,0	106,5	10,5	42,0		50
M20842-24-24	38	1.1/2"	- 24	1.1/2" -11	32,0	118,0	12,5	45,0		60
M20842-32-32	51	2"	- 32	2" -11	42,0	134,0	16,1	47,0		70

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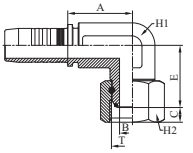
FLUIDTECHNIK S.R.L.0723 382 199

MULTIFIT TYPE

BS STANDARD CONNECTIONS

M20882F

90° BSP O-RING FEMALE COMPACT ELBOW 60° CONE
BS5200 / ISO 12151-6 (THRUST-WIRE NUT)
HEMBRA BSP CON O-RING CODO COMPACTO DE 90° ASIENTO A 60°
BS5200 / ISO 12151-6 (TUERCA CON SEGURO)
DKOR 90° KOMPAKTBOGEN 60° KONUS MIT O-RING
(BSP-GEWINDE NACH BS5200 / ISO 12151-6, GESTIFTETE MUTTER)
FEMMINA GAS 90° CONO 60° O-RING TIPO COMPATTO
BS5200 / ISO 12151-6 (DADO SPINATO)

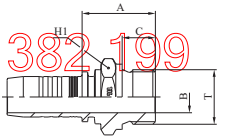


PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E	H_1	H_2
M20882-04-04F	6	1/4"	- 04	1/4" - 19	4,0	20,0	4,9	22,0	14	19
M20882-06-06F	10	3/8"	- 06	3/8" - 19	7,0	23,1	6,1	27,5	19	22
M20882-08-08F	12	1/2"	- 08	1/2" - 14	9,3	24,9	6,5	31,1	22	27
M20882-10-10F	16	5/8"	- 10	5/8" - 14	12,5	24,6	9,7	32,5	24	28
M20882-12-12F	19	3/4"	- 12	3/4" - 14	15,0	37,5	8,5	36,0	27	32
M20882-16-16F	25	1"	- 16	1" - 11	20,0	51,8	10,6	44,0	36	38

M10610

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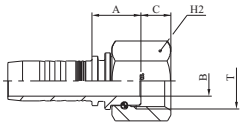
BSP MALE FLAT SEAT
MACHO BSP CARA PLANA
AGR FLACH DICHTEND
MASCHIO GAS CILINDRICO SEDE PIANA



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H_1	
M10610-04-04	6	1/4"	- 04	1/4" - 19	6,0	25,5	11,0		19	
M10610-06-06	10	3/8"	- 06	3/8" - 19	9,5	28,1	12,0		22	
M10610-06-08	10	3/8"	- 06	1/2" - 14	13,0	30,6	14,0		27	
M10610-08-08	12	1/2"	- 08	1/2" - 14	13,0	31,1	14,0		27	
M10610-12-12	19	3/4"	- 12	3/4" - 14	18,0	35,5	16,0		32	

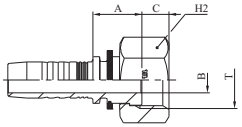
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FLUIDTECHNIK S.R.L.0723 382 199



M20612

BSP FEMALE FLAT SEAT (THRUST-WIRE NUT)
HEMBRA BSP CARA PLANA (TUERCA CON SEGURO)
DKR FLACHDICHTEND (BSP-GEWINDE, GESTIFTETE MUTTER)
FEMMINA GAS SEDE PIANA (DADO SPINATO)



M20613

BSP FEMALE FLAT SEAT (SLIP-ON NUT)
HEMBRA BSP CARA PLANA (TUERCA LIBRE)
DKR FLACHDICHTEND (BSP-GEWINDE, HINTERLEGTE MUTTER)
FEMMINA GAS SEDE PIANA (DADO PASSANTE)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C			H_2
M20613-04-04	6	1/4"	- 04	1/4" - 19	4,0	14,5	7,9			19
M20613-05-06	8	5/16"	- 05	3/8" - 19	7,0	16,0	9,0			22
M20613-06-06	10	3/8"	- 06	3/8" - 19	7,0	16,6	9,0			22
M20613-06-08	10	3/8"	- 06	1/2" - 14	9,3	17,5	9,8			27
M20613-08-08	12	1/2"	08	1/2" - 14	9,3	17,9	9,8			27
M20612-08-12	12	1/2"	- 08	3/4" - 14	15,0	20,9	11,5			32
M20612-10-12	16	5/8"	- 10	3/4" - 14	15,0	20,7	11,5			32
M20612-12-12	19	3/4"	- 12	3/4" -14	15,0	22,0	11,5			32
M20612-12-16	19	3/4"	- 12	1" - 11	19,8	23,5	13,0			38
M20612-16-16	25	1"	- 16	1" - 11	19,8	24,8	13,0			38

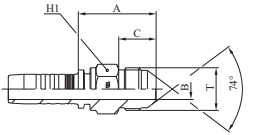
FLUIDTECHNIK S.R.L.0723 382 199

MULTIFIT TYPE

SAE STANDARD CONNECTIONS

M12510

JIC MALE 37° CONE - SAE J516 / ISO 12151-5
MACHO JIC ASIENTO A 37° - SAE J516 / ISO 12151-5
AGJ 37° AUSSENKONUS (UNF-GEWINDE NACH SAE J516 / ISO 12151-5)
MASCHIO JIC CONO 37° - SAE J516 / ISO 12151-5

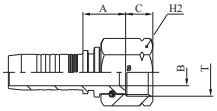


PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H_1	
M12510-04-04	6	1/4"	- 04	7/16" - 20	4,0	28,0	14,0		12	
M12510-04-05	6	1/4"	- 04	1/2" - 20	5,5	29,0	14,0		14	
M12510-04-06	6	1/4"	- 04	9/16" - 18	7,0	29,0	14,0		17	
M12510-05-04	8	5/16"	- 05	7/16" - 20	4,0	29,0	14,0		14	
M12510-05-05	8	5/16"	- 05	1/2" - 20	5,5	29,0	14,0		14	
M12510-05-06	8	5/16"	- 05	9/16" - 18	7,0	29,0	14,0		17	
M12510-06-05	10	3/8"	- 06	1/2" - 20	5,5	29,5	14,0		17	
M12510-06-06	10	3/8"	- 06	9/16" - 18	7,0	29,6	14,0		17	
M12510-06-08	10	3/8"	- 06	3/4" - 16	9,3	34,1	16,5		19	
M12510-06-10	10	3/8"	- 06	7/8" - 14	12,5	38,6	19,5		24	
M12510-08-06	12	1/2"	- 08	9/16" - 18	7,0	32,0	14,0		19	
M12510-08-08	12	1/2"	- 08	3/4" - 16	9,3	34,4	16,5		19	
M12510-08-10	12	1/2"	- 08	7/8" - 14	12,5	38,9	19,5		24	
M12510-08-12	12	1/2"	- 08	1.1/16" - 12	15,0	42,9	22,0		27	
M12510-10-10	16	5/8"	- 10	7/8" - 14	12,5	39,2	19,5		24	
M12510-10-12	16	5/8"	- 10	1.1/16" - 12	15,0	42,7	22,0		27	
M12510-12-10	19	3/4"	- 12	7/8" - 14	12,5	41,5	19,5		27	
M12510-12-12	19	3/4"	- 12	1.1/16" - 12	15,0	44,0	22,0		27	
M12510-12-14	19	3/4"	- 12	1.3/16" - 12	16,0	44,5	22,5		32	
M12510-12-16	19	3/4"	- 12	1.5/16" - 12	19,8	47,0	23,0		34	
M12510-16-12	25	1"	- 16	1.1/16" - 12	15,0	44,8	22,0		32	
M12510-16-16	25	1"	- 16	1.5/16" - 12	19,8	47,8	23,0		34	
M12510-16-20	25	1"	- 16	1.5/8" - 12	26,0	52,8	24,3		42	
M12510-20-20	31	1.1/4"	- 20	1.5/8" - 12	26,0	53,5	24,3		42	
M12510-20-24	31	1.1/4"	- 20	1.7/8" - 12	32,0	60,5	27,5		50	
M12510-24-24	38	1.1/2"	- 24	1.7/8" - 12	32,0	60,5	27,5		50	
M12510-32-32	51	2"	- 32	2.1/2" - 12	42,0	71,8	34,0		65	

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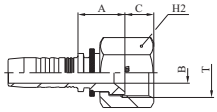
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M22512

JIC FEMALE 37° CONE SEAT - SAE J516 / ISO 12151-5 (THRUST-WIRE NUT)
HEMBRA JIC ASIENTO A 37° - SAE J516 / ISO 12151-5 (TUERCA CON SEGURO)
DKJ 37° DICHTKOPF (UNF-GEWINDE NACH SAE J516 / ISO 12151-5, GESTIFTETE MUTTER)
FEMMINA JIC CONO 37° - SAE J516 / ISO 12151-5 (DADO SPINATO)



M22513

JIC FEMALE 37° CONE SEAT - SAE J516 / ISO 12151-5 (SLIP-ON NUT)
HEMBRA JIC ASIENTO A 37° - SAE J516 / ISO 12151-5 (TUERCA LIBRE)
DKJ 37° DICHTKOPF (UNF-GEWINDE NACH SAE J516 / ISO 12151-5, HINTERLEGTE MUTTER)
FEMMINA JIC CONO 37° - SAE J516 / ISO 12151-5 (DADO PASSANTE)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C			H2
M22513-03-04	5	3/16"	- 03	7/16" - 20	3,0	15,1	9,0			15
M22512-03-05	5	3/16"	- 03	1/2" - 20	4,0	15,5	9,2			17
M22512-04-04	6	1/4"	- 04	7/16" - 20	4,0	15,5	8,2			17
M22512-04-05	6	1/4"	- 04	1/2" - 20	4,0	15,8	9,2			17
M22513-04-06	6	1/4"	- 04	9/16" - 18	4,0	16,5	9,8			19
M22512-05-04	8	5/16"	- 05	7/16" - 20	4,0	15,5	8,2			17
M22512-05-05	8	5/16"	- 05	1/2" - 20	5,5	16,0	9,2			17
M22512-05-06	8	5/16"	- 05	9/16" - 18	7,0	15,7	9,7			19
M22513-05-08	8	5/16"	- 05	3/4" - 16	5,5	16,7	10,7			22
M22512-06-05	10	3/8"	- 06	1/2" - 20	5,5	16,6	9,5			17
M22512-06-06	10	3/8"	- 06	9/16" - 18	7,0	16,1	9,2			19
M22513-06-08	10	3/8"	- 06	3/4" - 16	7,0	17,3	10,7			22
M22513-06-10	10	3/8"	- 06	7/8" - 14	9,3	18,1	12,4			27
M22512-08-08	12	1/2"	- 08	3/4" - 16	9,3	19,9	10,2			22
M22513-08-10	12	1/2"	- 08	7/8" - 14	9,3	18,5	12,4			27
M22513-08-12	12	1/2"	- 08	1.1/16" - 12	12,5	21,8	13,8			32
M22512-10-10	16	5/8"	- 10	7/8" - 14	12,5	19,9	12,3			27
M22513-10-12	16	5/8"	- 10	1.1/16" - 12	12,5	21,7	13,8			32
M22512-12-08	19	3/4"	- 12	3/4" - 16	9,3	21,5	10,2			22
M22512-12-10	19	3/4"	- 12	7/8" - 14	12,5	21,5	12,3			27
M22512-12-12	19	3/4"	- 12	1.1/16" - 12	15,0	22,5	14,2			32
M22512-12-14	19	3/4"	- 12	1.3/16" - 12	15,0	23,1	14,8			36
M22512-12-16	19	3/4"	- 12	1.5/16" - 12	19,8	23,0	15,2			38
M22512-16-12	25	1"	- 16	1.1/16" - 12	15,0	23,3	14,4			32
M22512-16-16	25	1"	- 16	1.5/16" - 12	19,8	23,8	15,2			38
M22512-16-20	25	1"	- 16	1.5/8" - 12	26,0	29,8	16,2			50
M22512-20-20	31	1.1/4"	- 20	1.5/8" - 12	26,0	30,0	16,2			50
M22512-20-24	31	1.1/4"	- 20	1.7/8" - 12	32,0	35,0	18,8			60
M22512-24-24	38	1.1/2"	- 24	1.7/8" - 12	32,0	35,0	18,8			60
M22512-32-24	51	2"	- 32	1.7/8" - 12	32,0	37,0	18,8			60
M22512-32-32	51	2"	- 32	2.1/2" - 12	44,0	35,4	24,0			75

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MULTIFIT TYPE

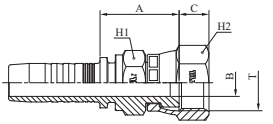
SAE STANDARD CONNECTIONS

M22711

JIC FEMALE 37° CONE SEAT DOUBLE HEXAGON - SAE J516 / ISO 12151-5 (CRIMPED-BACK NUT)
HEMBRA JIC ASIENTO A 37º DOBLE TUERCA - SAE J516 / ISO 12151-5 (TUERCA PRENSADA)
DKJ 37° MIT KONTERSECHSKANT (UNF GEWINDE NACH SAE J516 / ISO 12151-5, VORGEKRIMPTE MUTTER)
FEMMINA JIC CONO 37° DOPPIO ESAGONO SAE J516 / ISO 12151-5 (DADO PRESSATO)

M22711K

JIC FEMALE 37° CONE SEAT DOUBLE HEXAGON - SAE J516 / ISO 12151-5 (CRIMPED-BACK COMPACT NUT)
HEMBRA JIC ASIENTO A 37º DOBLE TUERCA
SAE J516 / ISO 12151-5 (TUERCA TIPO COMPACTO PRENSADA)
DKJ (KOMPAKT) 37° MIT KONTERSECHSKANT
(UNF GEWINDE NACH SAE J516 / ISO 12151-5, VORGEKRIMPTE MUTTER)
FEMMINA JIC CONO 37° DOPPIO ESAGONO
SAE J516 / ISO 12151-5 (DADO PRESSATO COMPATTO)



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H_1	H_2
M22711-03-04K	5	3/16"	- 03	7/16" - 20	4,0	20	9		12	15
M22711-04-04K	6	1/4"	- 04	7/16" - 20	4,0	20,5	9		12	15
M22711-04-06K	6	1/4"	- 04	9/16" - 18	7,0	21,6	9,5		14	17
M22711-06-06K	10	3/8"	- 06	9/16" - 18	7,0	22,1	9,5		17	17
M22711-06-08	10	3/8"	- 06	3/4" - 16	9,3	21,7	10,7		19	22
M22711-08-08	12	1/2"	- 08	3/4" - 16	9,3	26,9	10,7		19	22
M22711-08-10K	12	1/2"	- 08	7/8" - 14	9,3	29,6	12,5		22	25
M22711-10-10K	16	5/8"	- 10	7/8" - 14	9,3	29,5	12,5		22	25
M22711-12-12	19	3/4"	- 12	1.1/16" - 12	15	30,1	14,1		27	32
M22711-16-16	25	1"	- 16	1.5/16" - 12	19,8	35,5	15,3		32	38
M22711-20-20	31	1.1/4"	- 20	1.5/8" - 12	26,0	42,0	16,1		41	50
M22711-24-24	38	1.1/2"	- 24	1.7/8" - 12	32,0	46,5	18,6		50	60
M22711-32-32	51	2"	- 32	2.1/2" - 12	42,0	50,5	23,5		65	75

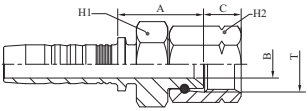
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M22712K

JIC FEMALE 37° CONE SEAT DOUBLE HEXAGON - SAE J516 / ISO 12151-5 (THRUST-WIRE COMPACT NUT)

HEMBRA JIC ASIENTO A 37° DOBLE TUERCA
SAE J516 / ISO 12151-5 (TUERCA TIPO COMPACTO CON SEGURO)
DKJ KOMPAKT 37° DK MIT KONTERSECHSKANT
(UNF-GEWINDE NACH SAE J516 / ISO 12151-5, GESTIFTETE MUTTER)
FEMMINA JIC CONO 37° DOPPIO ESAGONO
SAE J516 / ISO 12151-5 (DADO SPINATO COMPATTO)



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H_1	H_2
M22712-03-04K	5	3/16"	- 03	7/16" - 20	4,0	20,5	8,2		12	15
M22712-04-04K	6	1/4"	- 04	7/16" - 20	4,0	21,0	8,2		12	15
M22712-04-06K	6	1/4"	- 04	9/16" - 18	7,0	24,1	9,2		14	17
M22712-06-06K	10	3/8"	- 06	9/16" - 18	7,0	24,6	9,2		17	17
M22712-08-10K	12	1/2"	- 08	7/8" - 14	12,5	28,4	12,6		22	25
M22712-10-10K	16	5/8"	- 10	7/8" - 14	12,5	29,0	12,6		22	25

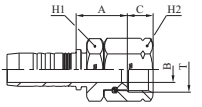
FLUIDTECHNIK S.R.L. 0723 382 199

FLUIDTECHNIK S.R.L.0723 382 199

SAE STANDARD CONNECTIONS

M22712

JIC FEMALE 37° CONE SEAT DOUBLE HEXAGON SAE J516 / ISO 12151-5 (THRUST-WIRE NUT)
HEMBRA JIC ASIENTO A 37° DOBLE TUERCA SAE J516 / ISO 12151-5 (TUERCA CON SEGURO)
DKJ 37° DK MIT KONTERSECHSKANT
(UNF-GEWINDE NACH SAE J516 / ISO 12151-5, GESTIFTETE MUTTER)
FEMMINA JIC CONO 37° DOPPIO ESAGONO
SAE J516 / ISO 12151-5 (DADO SPINATO)

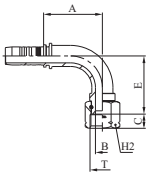


PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H_1	H_2
M22712-03-04	5	3/16"	- 03	7/16" - 20	4,0	20,5	8,2		12	17
M22712-04-04	6	1/4"	- 04	7/16" - 20	4,0	21,0	8,2		12	17
M22712-04-05	6	1/4"	- 04	1/2" - 20	4,0	21,5	9,2		12	17
M22712-04-06	6	1/4"	- 04	9/16" - 18	7,0	24,1	9,2		14	19
M22712-05-05	8	5/16"	- 05	1/2" - 20	5,5	21,5	9,2		14	17
M22712-05-06	8	5/16"	- 05	9/16" - 18	7,0	24,1	9,2		14	19
M22712-05-08	8	5/16"	- 05	3/4" - 16	9,3	26,0	10,6		19	22
M22712-06-04	10	3/8"	- 06	7/16" - 20	4,0	24,5	8,2		17	17
M22712-06-05	10	3/8"	- 06	1/2" - 20	5,5	25,0	9,2		17	17
M22712-06-06	10	3/8"	- 06	9/16" - 18	7,0	24,6	9,2		17	19
M22712-06-08	10	3/8"	- 06	3/4" - 16	9,3	27,1	10,2		19	22
M22712-06-10	10	3/8"	- 06	7/8" - 14	12,5	28,6	12,3		22	27
M22712-08-06	12	1/2"	- 08	9/16" - 18	7,0	24,7	9,2		19	19
M22712-08-08	12	1/2"	- 08	3/4" - 16	9,3	27,4	10,2		19	22
M22712-08-10	12	1/2"	- 08	7/8" - 14	12,5	28,4	12,3		22	27
M22712-08-12	12	1/2"	- 08	1.1/16" - 12	14,0	30,0	14,2		27	32
M22712-10-08	16	5/8"	- 10	3/4" - 16	9,3	28,5	10,2		22	22
M22712-10-10	16	5/8"	- 10	7/8" - 14	12,5	29,0	12,3		22	27
M22712-10-12	16	5/8"	- 10	1.1/16" - 12	15,0	29,5	14,2		27	32
M22712-12-08	19	3/4"	12	3/4" - 16	9,3	30,0	10,2		27	22
M22712-12-10	19	3/4"	- 12	7/8" - 14	12,5	30,0	12,3		27	27
M22712-12-12	19	3/4"	- 12	1.1/16" - 12	15,0	31,5	14,2		27	32
M22712-12-14	19	3/4"	- 12	1.3/16" - 12	15,0	33,0	14,8		30	36
M22712-12-16	19	3/4"	- 12	1.5/16" - 12	19,8	32,5	15,2		32	38
M22712-16-12	25	1"	- 16	1.1/16" - 12	12,5	33,8	14,2		32	32
M22712-16-16	25	1"	- 16	1.5/16" - 12	19,8	34,3	15,2		32	38
M22712-16-20	25	1"	- 16	1.5/8" - 12	26,0	42,8	16,2		41	50
M22712-20-16	31	1.1/4"	- 20	1.5/16" - 12	19,8	36,0	15,2		38	38
M22712-20-20	31	1.1/4"	- 20	1.5/8" - 12	26,0	43,5	16,2		41	50
M22712-24-24	38	1.1/2"	- 24	1.7/8" - 12	32,0	51,0	18,8		50	60
M22712-32-32	51	2"	- 32	2.1/2" - 12	42,0	55,5	24,0		65	75

FLUIDTECHNIK S.R.L.0723 382 199

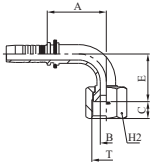
FLUIDTECHNIK S.R.L.0723 382 199

SAE STANDARD CONNECTIONS



M22592

90° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5 (THRUST-WIRE NUT)
HEMBRA JIC CODO DE 90° ASIENTO A 37° - SAE J516 / ISO 12151-5 (TUERCA CON SEGURO)
DKJ 90° BOGEN 37° DICHTKOPF (UNF-GEWINDE NACH SAE J516 / ISO 12151-5, GESTIFTETE MUTTER)
FEMMINA JIC 90° CONO 37° SAE J516 / ISO 12151-5 (DADO SPINATO)



M22593

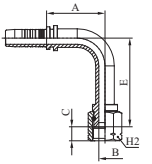
90° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5 (SLIP-ON NUT)
HEMBRA JIC CODO DE 90° ASIENTO A 37° - SAE J516 / ISO 12151-5 (TUERCA LIBRE)
DKJ 90° BOGEN 37° DICHTKOPF (UNF-GEWINDE NACH SAE J516 / ISO 12151-5, HINTERLEGTE MUTTER)
FEMMINA JIC 90° CONO 37° SAE J516 / ISO 12151-5 (DADO PASSANTE)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H_2
M22593-03-04	5	3/16"	- 03	7/16" - 20	3,0	26,0	9,0	23,5		15
M22592-04-04	6	1/4"	- 04	7/16" - 20	4,0	28,5	8,2	27,0		17
M22592-04-05	6	1/4"	- 04	1/2" - 20	4,0	28,5	9,2	27,5		17
M22593-04-06	6	1/4"	- 04	9/16" - 18	4,0	29,5	9,8	28,0		19
M22593-04-08	6	1/4"	- 04	3/4" - 16	7,0	29,3	11,0	30,5		22
M22592-05-05	8	5/16"	- 05	1/2" - 20	5,5	29,5	9,2	27,5		17
M22592-05-06	8	5/16"	- 05	9/16" - 18	7,0	31,0	9,2	28,5		19
M22592-06-05	10	3/8"	- 06	1/2" - 20	5,5	30,1	9,5	26,5		17
M22592-06-06	10	3/8"	- 06	9/16" - 18	7,0	35,5	9,2	32,5		19
M22593-06-08	10	3/8"	- 06	3/4" - 16	7,0	36,5	10,7	29,5		22
M22593-06-10	10	3/8"	- 06	7/8" - 14	9,3	36,5	12,4	31,5		27
M22592-08-06	12	1/2"	- 08	9/16" - 18	7,0	37,0	9,2	33,0		19
M22592-08-08	12	1/2"	- 08	3/4" - 16	9,3	44,0	10,2	41,0		22
M22593-08-10	12	1/2"	- 08	7/8" - 14	9,3	45,0	12,4	36,0		27
M22593-08-12	12	1/2"	- 08	1.1/16" - 12	12,5	45,0	13,8	36,0		32
M22592-10-10	16	5/8"	- 10	7/8" - 14	12,5	53,5	12,3	52,5		27
M22593-10-12	16	5/8"	- 10	1.1/16" - 12	12,5	51,5	13,8	50 ,0		32
M22592-12-10	19	3/4"	- 12	7/8" - 14	12,5	55,0	12,3	52,5		27
M22592-12-12	19	3/4"	- 12	1.1/16" - 12	15,0	62,0	14,2	58,0		32
M22592-12-14	19	3/4"	- 12	1.3/16" - 12	15,0	62,0	14,8	58,0		36
M22592-12-16	19	3/4"	- 12	1.5/16" - 12	19,8	62,0	15,2	57,5		38
M22592-16-16	25	1"	- 16	1.5/16" - 12	19,8	77,0	15,2	67,0		38
M22592-16-20	25	1"	- 16	1.5/8" - 12	26,0	77,5	16,2	74,5		50
M22592-20-20	31	1.1/4"	- 20	1.5/8" - 12	26,0	90,5	16,2	86,5		50
M22592-20-24	31	1.1/4"	- 20	1.7/8" - 12	32,0	90,5	18,8	91,0		60
M22592-24-24	38	1.1/2"	- 24	1.7/8" - 12	32,0	108,0	18,8	100,5		60
M22592-32-32	51	2"	- 32	2.1/2" - 12	44,0	142,0	24,0	137,0		75

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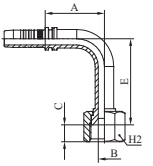
MULTIFIT TYPE

SAE STANDARD CONNECTIONS



M24792

90° JIC FEMALE LONG DROP ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5 (THRUST-WIRE NUT)
HEMBRA JIC CODO LARGO DE 90° ASIENTO A 37° - SAE J516 / ISO 12151-5 (TUERCA CON SEGURO)
DKJ 90° BOGEN 37° DICHTKOPF (UNF-GEWINDE NACH SAE J516 / ISO 12151-5, GESTIFTETE MUTTER)
FEMMINA JIC 90° CONO 37° CURVA LUNGA - SAE J516 / ISO 12151-5 (DADO SPINATO)



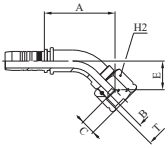
M24793

90° JIC FEMALE LONG DROP ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5 (SLIP-ON NUT)
HEMBRA JIC CODO LARGO DE 90° ASIENTO A 37° - SAE J516 / ISO 12151-5 (TUERCA LIBRE)
DKJ 90° BOGEN 37° DICHTKOPF (UNF-GEWINDE NACH SAE J516 / ISO 12151-5, HINTERLEGTE MUTTER)
FEMMINA JIC 90° CONO 37° CURVA LUNGA - SAE J516 / ISO 12151-5 (DADO PASSANTE)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H_2
M24792-04-04	6	1/4"	- 04	7/16" - 20	4,0	28,5	8,2	45,0		17
M24792-04-05	6	1/4"	- 04	1/2" - 20	4,0	28,5	9,2	45,0		17
M24793-04-06	6	1/4"	- 04	9/16" - 18	4,0	29,5	9,8	55,5		19
M24792-06-06	10	3/8"	- 06	9/16" - 18	7,0	35,5	9,2	55,0		19
M24793-06-08	10	3/8"	- 06	3/4" - 16	7,0	36,5	10,7	61,5		22
M24792-08-08	12	1/2"	- 08	3/4" - 16	9,4	40,6	10,3	61,5		22
M24793-08-10	12	1/2"	- 08	7/8" - 14	9,4	45,0	12,4	65,0		27
M24792-10-10	16	5/8"	- 10	7/8" - 14	12,5	53,5	12,3	65,5		27
M24792-12-12	19	3/4"	- 12	1.1/16" - 12	15,0	62,0	14,2	94,5		32
M24792-16-16	25	1"	- 16	1.5/16" - 12	19,8	77,0	15,2	110,0		38

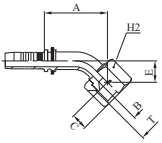
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M22542

45° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5 (THRUST-WIRE NUT)
HEMBRA JIC CODO DE 45º ASIENTO A 37º - SAE J516 / ISO 12151-5 (TUERCA CON SEGURO)
DKJ 45° BOGEN 37° DICHTKOPF (UNF-GEWINDE NACH SAE J516 / ISO 12151-5, GESTIFTETE MUTTER)
FEMMINA JIC 45° CONO 37° - SAE J516 / ISO 12151-5 (DADO SPINATO)



M22543

45° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5 (SLIP-ON NUT)
HEMBRA JIC CODO DE 45º ASIENTO A 37º - SAE J516 / ISO 12151-5 (TUERCA LIBRE)
DKJ 45° BOGEN 37° DICHTKOPF (UND-GEWINDE NACH SAE J516 / ISO 12151-5, HINTERLEGTE MUTTER)
FEMMINA JIC 45° CONO 37° - SAE J516 / ISO 12151-5 (DADO PASSANTE)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H_2
M22542-03-04	5	3/16"	- 03	7/16" - 20	4,0	35,0	8,2	14,5		17
M22542-04-04	6	1/4"	- 04	7/16" - 20	4,0	35,5	8,2	14,5		17
M22542-04-05	6	1/4"	- 04	1/2" - 20	4,0	35,7	9,2	14,5		17
M22543-04-06	6	1/4"	- 04	9/16" - 18	4,0	35,5	9,8	14,0		19
M22542-05-05	8	5/16"	- 05	1/2" - 20	5,5	37,5	9,2	14,5		17
M22542-05-06	8	5/16"	- 05	9/16" - 18	7,0	38,0	9,2	14,5		19
M22542-06-06	10	3/8"	- 06	9/16" - 18	7,0	42,0	9,2	16,5		19
M22543-06-08	10	3/8"	- 06	3/4" - 16	7,0	41,0	10,7	14,0		22
M22543-06-10	10	3/8"	- 06	7/8" - 14	9,3	42,5	12,4	15,5		27
M22542-08-08	12	1/2"	- 08	3/4" - 16	9,3	52,0	10,2	20,0		22
M22543-08-10	12	1/2"	- 08	7/8" - 14	9,3	49,5	12,4	17,0		27
M22543-08-12	12	1/2"	- 08	1.1/16" - 12	12,5	50,0	13,8	17,0		32
M22542-10-10	16	5/8"	- 10	7/8" - 14	12,5	62,0	12,3	25,5		27
M22543-10-12	16	5/8"	- 10	1.1/16" - 12	12,5	60,0	13,8	24,0		32
M22542-12-12	19	3/4"	- 12	1.1/16" - 12	15,0	70,0	14,2	27,5		32
M22542-12-14	19	3/4"	- 12	1.3/16" - 12	15,0	69,0	14,8	27,5		36
M22542-12-16	19	3/4"	- 12	1.5/16" - 12	19,8	70,0	15,2	27,5		38
M22542-16-12	25	1"	- 16	1.1/16" - 12	15,0	72,5	14,2	27,5		32
M22542-16-16	25	1"	- 16	1.5/16" - 12	19,8	86,0	15,2	32,0		38
M22542-16-20	25	1"	- 16	1.5/8" - 12	26,0	90,0	16,2	36,0		50
M22542-20-20	31	1.1/4"	- 20	1.5/8" - 12	26,0	103,5	16,2	41,5		50
M22542-20-24	31	1.1/4"	- 20	1.7/8" - 12	32,0	106,5	18,8	44,5		60
M22542-24-24	38	1.1/2"	- 24	1.7/8" - 12	32,0	119,0	18,8	46,5		60
M22542-32-32	51	2"	- 32	2.1/2"- 12	44,0	163,0	24,0	68,0		75

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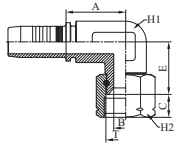
MULTIFIT TYPE

MF2000®

SAE STANDARD CONNECTIONS

M22582F

90° JIC FEMALE COMPACT ELBOW 37° CONE SEAT
SAE J516 / ISO 12151-5 (THRUST-WIRE NUT)
HEMBRA JIC CODO COMPACTO DE 90º ASIENTO A 37º
SAE J516 / ISO 12151-5 (TUERCA CON SEGURO)
DKJ 90° KOMPAKT BOGEN 37° DICHTKOPF
(UNF-GEWINDE NACH SAE J516 / ISO 12151-5, GESTIFTETE MUTTER)
FEMMINA JIC 90° TIPO COMPATTO CONO 37°
SAE J516 / ISO 12151-5 (DADO SPINATO)



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E	H_1	H_2
M22582-04-04F	6	1/4"	- 04	7/16" - 20	4,0	20,0	8,2	20,5	14	17
M22582-04-06F	6	1/4"	- 04	9/16" - 18	7,0	20,0	9,2	21,5	14	19
M22582-06-06F	10	3/8"	- 06	9/16" - 18	7,0	23,1	9,2	24,0	19	19
M22582-06-08F	10	3/8"	- 06	3/4" - 16	9,3	26,6	10,2	28,0	22	22
M22582-08-08F	12	1/2"	- 08	3/4" - 16	9,3	24,9	10,2	28,0	22	22
M22582-08-10F	12	1/2"	- 08	7/8" - 14	12,5	24,9	12,3	29,0	22	27
M22582-12-12F	19	3/4"	- 12	1.1/16" - 12	15,0	37,5	14,2	33,0	27	32
M22582-16-16F	25	1"	- 16	1.5/16" - 12	20,0	51,8	15,2	40,0	36	38

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M12410

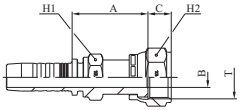
ORFS MALE - SAE J516 / ISO 12151-1
MACHO ORFS - SAE J516 / ISO 12151-1
ORFS AUSSENGEWINDE NACH SAE J516 / ISO 12151-1
MASCHIO ORFS - SAE J516 / ISO 12151-1



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H_1	
M12410-04-04	6	1/4"	- 04	9/16" - 18	4,0	24,0	9,8		16	
M12410-04-06	6	1/4"	- 04	11/16" - 16	6,7	26,6	11,2		19	
M12410-05-06	8	5/16"	- 05	11/16" - 16	6,7	27,0	11,2		19	
M12410-06-06	10	3/8"	- 06	11/16" - 16	6,7	27,6	11,2		19	
M12410-06-08	10	3/8"	- 06	13/16" - 16	9,3	30,0	12,8		22	
M12410-08-08	12	1/2"	- 08	13/16" - 16	9,3	30,6	12,8		22	
M12410-08-10	12	1/2"	- 08	1" - 14	12,5	35,0	15,5		27	
M12410-08-12	12	1/2"	- 08	1.3/16" - 12	15,0	37,5	17,0		32	
M12410-10-08	16	5/8"	- 10	13/16" - 16	9,3	30,5	12,8		22	
M12410-10-10	16	5/8"	- 10	1" - 14	12,5	34,7	15,5		27	
M12410-10-12	16	5/8"	- 10	1.3/16" - 12	15,0	37,5	17,0		32	
M12410-12-12	19	3/4"	- 12	1.3/16" - 12	15,0	39,0	17,0		32	
M12410-12-16	19	3/4"	- 12	1.7/16" - 12	19,8	40,5	17,5		38	
M12410-16-16	25	1"	- 16	1.7/16" - 12	19,8	41,8	17,5		38	
M12410-16-20	25	1"	- 16	1.11/16" - 12	26,0	44,0	17,5		46	
M12410-20-20	31	1.1/4"	- 20	1.11/16" - 12	26,0	46,3	17,5		46	
M12410-24-24	38	1.1/2"	- 24	2"- 12	32,0	48,6	17,5		55	

manuli HYDRAULICS
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fluidtechnik@gmail.com

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M22411

ORFS FEMALE - SAE J516 / ISO 12151-1 PULLBACK TYPE (CRIMPED BACK-NUT)
HEMBRA ORFS - SAE J516 / ISO 12151-1 CUELLO LARGO (TUERCA PRENSADA)
ORFS IG - SAE J516 / ISO12151-1 RÜCKZUGSAUSFÜHRUNG (VERPRESSTE MUTTER)
FEMMINA ORFS - SAE J516 / ISO 12151-1 VERSIONE RETRAIBILE (DADO PRESSATO)

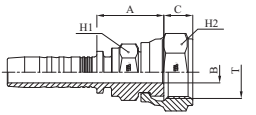
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H_1	H_2
M22411-04-04	6	1/4"	- 04	9/16" - 18	4,0	27,5	8,0		13	19
M22411-04-06	6	1/4"	- 04	11/16" - 16	7,0	30,0	9,5		16	22
M22411-04-08	6	1/4"	- 04	13/16" - 16	9,3	34,5	11,0		19	24
M22411-05-04	8	5/16"	- 05	9/16" - 18	4,0	28,5	8,0		16	19
M22411-05-06	8	5/16"	- 05	11/16" - 16	7,0	30,5	9,5		16	22
M22411-06-04	10	3/8"	- 06	9/16" - 18	4,0	29,0	8,0		16	19
M22411-06-06	10	3/8"	- 06	11/16" - 16	7,0	31,1	9,5		16	22
M22411-06-08	10	3/8"	- 06	13/16" - 16	9,3	35,6	11,0		19	24
M22411-08-06	12	1/2"	- 08	11/16" - 16	7,0	31,9	9,5		19	22
M22411-08-08	12	1/2"	- 08	13/16" - 16	9,3	35,9	11,0		19	24
M22411-08-10	12	1/2"	- 08	1" - 14	11,5	38,4	13,5		24	30
M22411-08-12	12	1/2"	- 08	1.3/16" - 12	13,9	41,9	14,5		28	36
M22411-10-08	16	5/8"	- 10	13/16" - 16	9,3	36,0	11,0		24	24
M22411-10-10	16	5/8"	- 10	1" - 14	11,5	38,7	13,5		24	30
M22411-10-12	16	5/8"	- 10	1.3/16" - 12	13,9	42,0	14,5		28	36
M22411-12-10	19	3/4"	- 12	1" - 14	11,5	41,0	13,5		28	30
M22411-12-12	19	3/4"	- 12	1.3/16" - 12	13,9	43,5	14,5		28	36
M22411-12-16	19	3/4"	- 12	1.7/16" - 12	19,8	45,5	15,0		36	41
M22411-16-12	25	1"	- 16	1.3/16" - 12	13,9	45,8	14,5		36	36
M22411-16-16	25	1"	- 16	1.7/16" - 12	19,8	46,3	15,0		36	41
M22411-16-20	25	1"	- 16	1.11/16" - 12	26,0	49,5	14,8		41	50
M22411-20-20	31	1.1/4"	- 20	1.11/16" - 12	26,0	49,0	14,8		41	50
M22411-24-24	38	1.1/2"	- 24	2" - 12	32,0	54,0	15,8		50	60

FLUIDTECHNIK S.R.L.0723 382 199

FLUIDTECHNIK S.R.L.0723 382 199

M27411

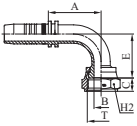
ORFS FEMALE - SAE J516 / ISO 12151-1 SHORT TYPE (CRIMPED BACK-NUT)
HEMBRA ORFS - SAE J516 / ISO 12151-1 CUELLO CORTO (TUERCA PRENSADA)
ORFS VERPRESSTE MUTTER - SAE J516 / ISO 12151-1
KURZE AUSFÜHRUNG (CRIMPED BACK-NUT)
FEMMINA ORFS - SAE J516 / ISO 12151-1 VERSIONE CORTA (DADO PRESSATO)



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H_1	H_2
M27411-04-04	6	1/4"	- 04	9/16" - 18	4,0	20,5	8,0		13	19
M27411-04-06	6	1/4"	- 04	11/16" - 16	7,0	22,0	9,5		16	22
M27411-05-06	8	5/16"	- 05	11/16" - 16	7,0	25,5	9,5		16	22
M27411-06-06	10	3/8"	- 06	11/16" - 16	7,0	26,0	9,5		16	22
M27411-06-08	10	3/8"	- 06	13/16" - 16	9,3	25,0	11,0		19	24
M27411-08-08	12	1/2"	- 08	13/16" - 16	9,3	25,5	11,0		19	24
M27411-08-10	12	1/2"	- 08	1" - 14	11,5	26,5	13,5		24	30
M27411-08-12	12	1/2"	- 08	1.3/16" - 12	13,9	29,0	14,5		28	36
M27411-10-10	16	5/8"	- 10	1" - 14	11,5	26,5	13,5		24	30
M27411-10-12	16	5/8"	- 10	1.3/16" - 12	13,9	29,0	14,5		28	36
M27411-12-12	19	3/4"	- 12	1.3/16" - 12	13,9	30,5	14,5		28	36
M27411-16-16	25	1"	- 16	1.7/16" - 12	19,8	33,0	15,0		36	41

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FLUIDTECHNIK S.R.L.0723 382 199



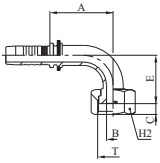
M22491

90° ORFS FEMALE SWEPT ELBOW - SAE J516 / ISO 12151-1 (CRIMPED BACK-NUT)

HEMBRA ORFS CODO DE 90° - SAE J516 / ISO 12151-1 (TUERCA PRENSADA)

DK 90° BOGEN ORFS (UNF-GEWINDE NACH SAE J516 / ISO 12151-1, PRESSMUTTER)

FEMMINA ORFS 90° - SAE J516 / ISO 12151-1 (DADO PRESSATO)



M22493

90° ORFS FEMALE SWEPT ELBOW - SAE J516 / ISO 12151-1 (SLIP-ON NUT)

HEMBRA ORFS CODO DE 90° - SAE J516 / ISO 12151-1 (TUERCA LIBRE)

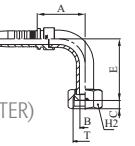
DK 90° BOGEN ORFS (UNF-GEWINDE NACH SAE J516 / ISO 12151-1, HINTERLEGTE MUTTER)

FEMMINA ORFS 90° - SAE J516 / ISO 12151-1 (DADO PASSANTE)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H_2
M22493-04-04	6	1/4"	- 04	9/16" - 18	4,0	27,5	8,2	22,0		17
M22493-04-06	6	1/4"	- 04	11/16" - 16	7,0	27,5	9,5	22,0		22
M22493-05-06	8	5/16"	- 05	11/16" - 16	7,0	32,0	9,5	23,0		22
M22491-06-04	10	3/8"	- 06	9/16" - 18	4,0	28,0	8,0	23,0		19
M22493-06-06	10	3/8"	- 06	11/16" - 16	6,0	30,0	9,5	24,0		22
M22493-06-08	10	3/8"	- 06	13/16" - 16	9,3	30,0	11,0	26,5		24
M22491-08-06	12	1/2"	- 08	11/16" - 16	7,0	30,9	9,5	24,5		22
M22493-08-08	12	1/2"	- 08	13/16" - 16	9,3	40,5	11,0	30,0		24
M22493-08-10	12	1/2"	- 08	1" - 14	11,5	40,5	13,5	30,0		30
M22493-08-12	12	1/2"	- 08	1.3/16" - 12	13,9	39,5	14,5	37,5		36
M22491-10-08	16	5/8"	- 10	13/16" - 16	9,3	41,5	11,0	34,0		24
M22493-10-10	16	5/8"	- 10	1" - 14	11,5	48,0	13,5	37,5		30
M22493-10-12	16	5/8"	- 10	1.3/16" - 12	13,9	48,0	14,5	41,0		36
M22491-12-10	19	3/4"	- 12	1" - 14	11,5	49,0	13,5	38,0		30
M22493-12-12	19	3/4"	- 12	1.3/16" - 12	13,9	56,5	14,5	48,0		36
M22493-12-16	19	3/4"	- 12	1.7/16" - 12	19,8	56,5	14,8	47,5		41
M22491-16-12	25	1"	- 16	1.3/16" - 12	13,9	57,6	14,5	48,0		36
M22493-16-16	25	1"	- 16	1.7/16" - 12	19,8	71,5	14,8	56,0		41
M22493-16-20	25	1"	- 16	1.11/16" - 12	26,0	71,5	14,8	58,5		50
M22493-20-20	31	1.1/4"	- 20	1.11/16" - 12	26,0	83,0	14,8	66,0		50
M22493-24-24	38	1.1/2"	- 24	2" - 12	32,0	102,0	14,8	79,5		60

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M24493*



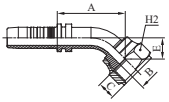
90° ORFS FEMALE LONG DROP ELBOW - SAE J516 / ISO 12151-1 (SLIP-ON NUT)
HEMBRA ORFS CODO DE 90° LARGO - SAE J516 / ISO 12151-1 (TUERCA LIBRE)
DK 90° BOGEN ORFS LANGE SCHENKEL (UNF-GEWINDE NACH SAE J516 / ISO 12151-1, HINTERLEGTE MUTTER)
FEMMINA ORFS A 90° CURVA LUNGA - SAE J516 / ISO 12151-1 (DADO PASSANTE)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H_2
M24493-04-04	6	1/4"	- 04	9/16" - 18	4,4	24,5	8,2	45,5		17
M24493-04-06	6	1/4"	- 04	11/16" - 16	7,0	24,5	9,5	53,5		22
M24493-06-06	10	3/8"	- 06	11/16" - 16	7,0	31,5	9,5	53,5		22
M24493-06-08	10	3/8"	- 06	13/16" - 16	6,7	32,0	11,0	53,5		24
M24493-08-08	12	1/2"	- 08	13/16" - 16	10,0	37,0	11,0	63,5		24
M24493-08-10	12	1/2"	- 08	1" - 14	9,6	37,0	13,5	64,0		30
M24493-10-10	16	1/2"	- 10	1" - 14	9,6	41,0	13,5	69,0		30
M24493-10-12	16	5/8"	- 10	1.3/16" - 12	12,7	41,0	14,5	73,0		36
M24493-12-12	19	5/8"	- 12	1.3/16" - 12	15,5	45,5	14,5	96,0		36
M24493-16-16	25	1"	- 16	1.7/16" - 12	20,6	58,5	14,8	113,5		41

* **Brazed solution** / Con soldadura / Lötausführung / Con saldatura

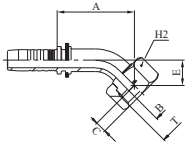
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M22441

45° ORFS FEMALE SWEPT ELBOW - SAE J516 / ISO 12151-1 (CRIMPED-BACK NUT)
HEMBRA ORFS CODO DE 45° - SAE J516 / ISO 12151-1 (TUERCA PRENSADA)
DK 45° BOGEN ORFS (UNF-GEWINDE NACH SAE J516 / ISO 12151-1, PRESSMUTTER)
FEMMINA ORFS 45° - SAE J516 / ISO 12151-1 (DADO PRESSATO)



M22443

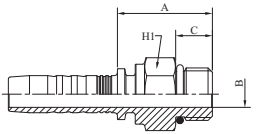
45° ORFS FEMALE SWEPT ELBOW - SAE J516 / ISO 12151-1 (SLIP-ON NUT)
HEMBRA ORFS CODO DE 45° - SAE J516 / ISO 12151-1 (TUERCA LIBRE)
DK 45° BOGEN ORFS (UNF-GEWINDE NACH SAE J516 / ISO 12151-1, HINTERLEGTE MUTTER)
FEMMINA ORFS 45° - SAE J516 / ISO 12151-1 (DADO PASSANTE)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H_2
M22443-04-04	6	1/4"	- 04	9/16" - 18	4,0	31,0	8,2	10,5		17
M22443-04-06	6	1/4"	- 04	11/16" - 16	7,0	31,0	9,5	10,5		22
M22443-05-06	8	5/16"	- 05	11/16" - 16	7,0	34,0	9,5	10,5		22
M22443-06-06	10	3/8"	- 06	11/16" - 16	7,0	32,5	9,5	11,0		22
M22443-06-08	10	3/8"	- 06	13/16" - 16	9,3	34,0	11,0	12,5		24
M22441-08-06	12	1/2"	- 08	11/16" - 16	7,0	33,0	9,5	11,0		22
M22443-08-08	12	1/2"	- 08	13/16" - 16	9,3	42,0	11,0	13,0		24
M22443-08-10	12	1/2"	- 08	1" - 14	11,5	42,0	13,5	13,5		30
M22443-08-12	12	1/2"	- 08	1.3/16" - 12	13,9	46,5	14,5	18,5		36
M22443-10-10	16	5/8"	- 10	1" - 14	11,5	49,0	13,5	16,0		30
M22443-10-12	16	5/8"	- 10	1.3/16" - 12	13,9	51,5	14,5	18,5		36
M22441-12-10	19	3/4"	- 12	1" - 14	11,5	50,5	13,5	16,5		30
M22443-12-12	19	3/4"	- 12	1.3/16" - 12	13,9	60,5	14,5	21,5		36
M22443-12-16	19	3/4"	- 12	1.7/16" - 12	19,8	61,0	14,8	21,0		41
M22441-16-12	25	1"	- 16	1.3/16" - 12	14,5	66,0	14,5	21,0		36
M22443-16-16	25	1"	- 16	1.7/16" - 12	19,8	72,0	14,8	23,5		41
M22443-16-20	25	1"	- 16	1.11/16" - 12	26,0	74,0	14,8	25,2		50
M22443-20-20	31	1.1/4"	- 20	1.11/16" - 12	26,0	82,0	14,8	27,0		50
M22443-24-24	38	1.1/2"	- 24	2" - 12	32,0	98,0	14,8	31,5		60

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M13010

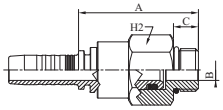
SAE MALE O-RING BOSS TYPE - SAE J516 / ISO 11926
MACHO SAE CON O-RING TIPO BOSS - SAE J516 / ISO 11926
AGJO SAE O-RING (UNF-GEWINDE NACH SAE J516 / ISO 11926)
MASCHIO SAE O-RING - SAE J516 / ISO 11926



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H_1	
M13010-04-04	6	1/4"	- 04	7/16" - 20	4,0	24,0	9,1		14	
M13010-04-06	6	1/4"	- 04	9/16" - 18	7,1	24,5	9,9		17	
M13010-06-06	10	3/8"	- 06	9/16" - 18	7,0	25,6	9,9		17	
M13010-06-08	10	3/8"	- 06	3/4" - 16	9,3	28,6	11,1		22	
M13010-06-10	10	3/8"	- 06	7/8" - 14	12,5	31,5	12,7		25	
M13010-08-08	12	1/2"	- 08	3/4" - 16	9,3	28,9	11,1		22	
M13010-08-10	12	1/2"	- 08	7/8" - 14	12,5	31,9	12,7		25	
M13010-08-12	12	1/2"	- 08	1.1/16" - 12	15,0	38,5	15,1		32	
M13010-10-10	16	5/8"	- 10	7/8" - 14	12,5	32,0	12,7		25	
M13010-10-12	16	5/8"	- 10	1.1/16" - 12	15,0	37,7	15,1		32	
M13010-12-12	19	3/4"	- 12	1.1/16" - 12	15,0	39,5	15,1		32	
M13010-12-16	19	3/4"	- 12	1.5/16" - 12	19,8	40,0	15,1		38	
M13010-16-16	25	1"	- 16	1.5/16" - 12	19,8	41,0	15,1		38	
M13010-20-20	31	1.1/4"	- 20	1.5/8" - 12	26,0	43,5	15,1		46	

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FLUIDTECHNIK S.R.L.0723 382 199



M14310*

SAE SWIVEL MALE O-RING BOSS TYPE - SAE J516 / ISO 11926
MACHO SAE GIRATORIO CON O-RING TIPO BOSS - SAE J516 / ISO 11926
AGJO SAE O-RING DREHBAR (UNF-GEWINDE NACH SAE J516 / ISO 11926)
MASCHIO SAE O-RING GIREVOLE - SAE J516 / ISO 11926

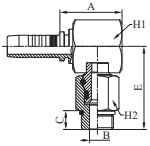
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C			H_2
M14310-04-04	6	1/4"	- 04	7/16" - 20	4,0	41,0	9,1			17
M14310-04-06	6	1/4"	- 04	9/16" - 18	7,0	44,0	9,9			22
M14310-06-06	10	3/8"	- 06	9/16" - 18	7,0	45,9	9,9			22
M14310-06-08	10	3/8"	- 06	3/4" - 16	7,0	47,8	11,1			22
M14310-08-08	12	1/2"	- 08	3/4" - 16	9,3	50,9	11,1			27
M14310-08-10	12	1/2"	- 08	7/8" - 14	9,3	42,2	13,0			27
M14310-08-12	12	1/2"	- 08	1.1/16" - 12	12,5	49,4	15,0			32
M14310-10-10	16	5/8"	- 10	7/8" - 14	9,3	41,4	13,0			27
M14310-12-12	19	3/4"	- 12	1.1/16" - 12	12,5	47,8	15,0			32

* **Not to be used as a live swivel** / No usar como una pieza giratoria viva / Nicht zu benutzen als Drehverschraubung / Da non usare come applicazione rotante

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FLUIDTECHNIK S.R.L.0723 382 199

M14390*

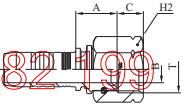


90° SAE SWIVEL MALE O-RING BOSS TYPE - SAE J516 / ISO 11926
MACHO SAE GIRATORIO CON O-RING CODO COMPACTO DE 90° TIPO BOSS - SAE J516 / ISO 11926
AGJO 90° KOMPAKT BOGEN DREHBAR MIT O-RING (UNF-GEWINDE NACH J516 / ISO 11926)
MASCHIO SAE O-RING GIREVOLE 90° - SAE J516 / ISO 11926

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E	H_1	H_2
M14390-06-06	10	3/8"	- 06	9/16" - 18	5,7	20,1	9,9	40,0	22	17
M14390-06-08	10	3/8"	- 06	3/4" - 16	7,0	20,1	11,1	44,4	22	22
M14390-08-08	12	1/2"	- 08	3/4" - 16	9,3	22,1	11,1	49,0	27	22
M14390-08-10	12	1/2"	- 08	7/8" - 14	9,3	27,5	13,0	47,5	27	27
M14390-10-10	16	5/8"	- 10	7/8" - 14	9,3	28,0	13,0	47,5	27	27
M14390-12-12	19	3/4"	- 12	1.1/16" - 12	12,5	27,5	15,0	55,5	32	32

* **Brazed solution - Not to be used as a live swivel** / Solución soldada - No usar como pieza giratoria viva / Lötausführung - Nicht zu benutzen als Drehverschraubung / Con saldatura - Da non usare come applicazione rotante

M22612

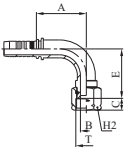


SAE FEMALE 45° CONE SEAT - SAE J516/J512 (THRUST-WIRE NUT)
HEMBRA SAE ASIENTO A 45° - SAE J516/J512 (TUERCA CON SEGURO)
DKJ DICHTKOPF GERADE 45° KONUS (UNF-GEWINDE NACH SAE J516/J512, GESTIFTETE MUTTER)
FEMMINA SAE CONO 45° - SAE J516/J512 (DADO SPINATO)

FLUIDTECHNIK S.R.L. 0723 382 199

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C			H_2
M22612-04-04	6	1/4"	- 04	7/16" - 20	4,0	15,5	8,2			17
M22612-05-06	8	5/16"	- 05	5/8" - 18	7,0	16,5	10,8			22
M22612-06-06	10	3/8"	- 06	5/8" - 18	7,0	16,6	10,8			22
M22612-12-12	19	3/4"	- 12	1.1/16" - 14	15,0	22,7	14,4			32

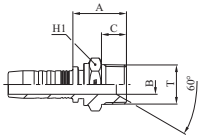
M22692



90° SAE FEMALE SWEPT ELBOW 45° CONE SEAT - SAE J516/J512 (THRUST-WIRE NUT)
HEMBRA SAE CODO DE 90° ASIENTO A 45° - SAE J516/J512 (TUERCA CON SEGURO)
DKJ 90° BOGEN 45° KONUS (UNF-GEWINDE NACH SAE J516/J512, GESTIFTETE MUTTER)
FEMMINA SAE 90° CONO 45° - SAE J516/J512 (DADO SPINATO)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H_2
M22692-04-04	6	1/4"	- 04	7/16" - 20	4,0	28,3	8,0	27,0		17
M22692-06-06	10	3/8"	- 06	5/8" - 18	7,0	35,5	10,8	33,0		22
M22692-12-12	19	3/4"	- 12	1.1/6" - 14	15,0	62,0	14,4	58,0		32

FLUIDTECHNIK S.R.L.0723 382 199



M12810

NPTF MALE 60° CONE SEAT - SAE J516/J514

MACHO NPTF ASIENTO A 60° - SAE J516/J514

AGN 60° INNENKONUS (NPTF-GEWINDE) - SAE J516/J514

MASCHIO NPTF CONO 60° - SAE J516 /J514

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H1	
M12810-03-02	5	3/16"	- 03	1/8" - 27	4,0	23,6	10,0		12	
M12810-03-04	5	3/16"	- 03	1/4" - 18	5,5	29,1	14,5		14	
M12810-04-02	6	1/4"	- 04	1/8" - 27	4,0	24,1	10,0		12	
M12810-04-04	6	1/4"	- 04	1/4" - 18	5,5	29,0	14,5		14	
M12810-04-06	6	1/4"	- 04	3/8" - 18	9,3	31,5	14,5		19	
M12810-04-08	6	1/4"	- 04	1/2" - 14	9,3	33,5	19,2		24	
M12810-05-04	8	5/16"	- 05	1/4" - 18	5,5	30,0	14,5		14	
M12810-05-06	8	5/16"	- 05	3/8" - 18	9,3	32,0	14,5		19	
M12810-06-04	10	3/8"	- 06	1/4" - 18	5,5	30,1	14,5		14	
M12810-06-06	10	3/8"	- 06	3/8" - 18	9,3	28,6	14,5		19	
M12810-06-08	10	3/8"	- 06	1/2" - 14	12,5	34,6	19,2		24	
M12810-08-06	12	1/2"	- 08	3/8" - 18	9,3	28,9	14,5		19	
M12810-08-08	12	1/2"	- 08	1/2" - 14	12,5	34,9	19,2		24	
M12810-08-12	12	1/2"	- 08	3/4" - 14	16,0	35,2	19,2		27	
M12810-10-08	16	5/8"	- 10	1/2" - 14	12,5	38,7	19,2		24	
M12810-10-12	16	5/8"	- 10	3/4" - 14	16,0	40,2	19,2		27	
M12810-12-12	19	3/4"	- 12	3/4" - 14	16,0	36,5	19,2		27	
M12810-12-08	19	3/4"	- 12	1/2" - 14	12,5	36,5	13,6		27	
M12810-12-16	19	3/4"	- 12	1" - 11,5	19,8	46,0	24,2		36	
M12810-16-12	25	1"	- 16	3/4" - 14	15,5	38,8	19,2		32	
M12810-16-16	25	1"	- 16	1" - 11,5	19,8	43,8	24,2		36	
M12810-16-20	25	1"	- 16	1.1/4" - 11,5	26,0	56,3	25,0		46	
M12810-20-20	31	1.1/4"	- 20	1.1/4" - 11,5	26,0	56,5	25,0		46	
M12810-24-24	38	1.1/2"	- 24	1.1/2" - 11,5	32,0	57,6	26,0		50	
M12810-32-32	51	2"	- 32	2" - 11,5	45,0	64,3	26,5		65	
M12810-40-40	63	2.1/2"	- 40	2.1/2" - 8	55,4	78,0	39,9		80	
M12810-48-48	76	3"	- 48	3" - 8	68,9	86,0	41,5		100	

FLUIDTECHNIK S.R.L. 0723 382 199

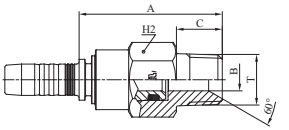
FLUIDTECHNIK S.R.L.0723 382 199

MULTIFIT TYPE

SAE STANDARD CONNECTIONS

M14110R*

NPTF SWIVEL MALE 60° CONE SEAT - SAE J516/J514
MACHO NPTF GIRATORIO ROSCA ASIENTO A 60° - SAE J516/J514
AGN 60° INNENKONUS (NPTF-GEWINDE) - SAE J516/J514
MASCHIO NPTF CONO 60° GIREVOLE - SAE J516/J514



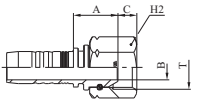
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C			H_2
M14110-04-02R	6	1/4"	- 04	1/8" - 27	3,0	41,9	10,0			17
M14110-04-04R	6	1/4"	- 04	1/4" - 18	4,0	46,4	14,5			17
M14110-04-06R	6	1/4"	- 04	3/8" - 18	7,0	46,4	14,5			19
M14110-06-04R	10	3/8"	- 06	1/4" - 18	4,0	50,5	14,5			22
M14110-06-06R	10	3/8"	- 06	3/8" - 18	7,0	50,5	14,5			22
M14110-06-08R	10	3/8"	- 06	1/2" - 14	9,3	55,2	19,2			24
M14110-08-06R	12	1/2"	- 08	3/8" - 18	7,0	51,5	14,5			27
M14110-08-08R	12	1/2"	- 08	1/2" - 14	9,3	59,0	19,2			27
M14110-12-12R	19	3/4"	- 12	3/4" - 14	16,0	57,9	19,2			32
M14110-16-16R	25	1"	- 16	1" - 11,5	19,8	65,8	24,2			38

* **Not to be used as a live swivel** / No usar como una pieza giratoria viva / Nicht zu benutzen als Drehverschraubung / Da non usare come applicazione rotante

FLUIDTECHNIK S.R.L. 0723 382 199

M22812

NPSM FEMALE 60° CONE - SAE J516/J514 (THRUST-WIRE NUT)
HEMBRA NPSM ASIENTO A 60° - SAE J516/J514 (TUERCA CON SEGURO)
DK NPSM 60° KONUS - SAE J516/J514 (NPTF-GEWINDE, GESTIFTETE MUTTER)
FEMMINA NPSM CONO 60° - SAE J516/J514 (DADO SPINATO)

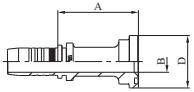


PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C			H_2
M22812-04-04	6	1/4"	- 04	1/4" - 18	4,0	17,5	4,2			19
M22812-06-04	10	3/8"	- 06	1/4" - 18	4,0	18,0	4,2			19
M22812-06-06	10	3/8"	- 06	3/8" - 18	7,0	20,9	6,0			22
M22812-08-08	12	1/2"	- 08	1/2" - 14	9,3	22,8	6,5			27
M22812-12-12	19	3/4"	- 12	3/4" - 14	15,0	24,5	9,0			32
M22812-16-16	25	1"	- 16	1" - 11,5	19,8	27,3	10,5			38

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M23311



ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3
BRIDA ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3
ISO/SAE CODE 61 FLANSCH - SAE J516 / ISO 12151-3
FLANGIA ISO/SAE CODE 61 - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D			
M23311-08-08	12	1/2"	- 08	1/2"	9,3	50,9	30,3			
M23311-08-12	12	1/2"	- 08	3/4"	15,0	57,7	38,0			
M23311-10-08	16	5/8"	- 10	3/4"	9,3	51,0	30,3			
M23311-10-12	16	1/2"	- 10	3/4"	15,0	65,7	38,0			
M23311-12-12	19	3/4"	- 12	3/4"	15,0	58,0	38,0			
M23311-12-16	19	3/4"	- 12	1"	20,0	58,0	44,6			
M23311-12-20	19	3/4"	- 12	1.1/4"	26,0	69,5	51,0			
M23311-16-12	25	1"	- 16	3/4"	15,0	60,5	38,0			
M23311-16-16	25	1"	- 16	1"	19,8	64,3	44,6			
M23311-16-20	25	1"	- 16	1.1/4"	26,0	70,3	51,0			
M23311-20-16	31	1.1/4"	- 20	1"	20,0	64,5,	44,6			
M23311-20-20	31	1.1/4"	- 20	1.1/4"	26,0	70,5	51,0			
M23311-20-24	31	1.1/4"	- 20	1.1/2"	32,0	72,5	60,5			
M23311-24-24	38	1.1/2"	- 24	1.1/2"	32,0	75,6	60,5			
M23311-24-32	38	1.1/2"	- 24	2"	42,0	75,6	71,6			
M23311-32-32	51	2"	- 32	2"	42,0	78,9	71,6			
M23311-32-40	51	2"	- 32	2.1/2"	56,0	80,9	84,3			
M23311-38-40	60	2.3/8"	- 38	2.1/2"	56,0	84,0	84,3			
M23311-40-32	63	2.1/2"	- 40	2"	42,0	78,5	71,6			
M23311-40-40	63	2.1/2"	- 40	2.1/2"	56,0	84,0	84,3			
M23311-40-48	63	2.1/2"	- 40	3"	68,9	79,0	101,6			
M23311-40-56	63	2.1/2"	- 40	3.1/2"	79,0	90,5	114,3			
M23311-40-64	63	2.1/2"	- 40	4"	90,0	96,5	127,0			
M23311-48-48	76	3"	- 48	3"	69,0	86,0	101,6			
M23311-56-56	90	3.1/2"	- 56	3.1/2"	79,0	94,5	114,3			
M23311-64-64	102	4"	- 64	4"	90,0	100,5	127,0			

FLUIDTECHNIK S.R.L.0723 382 199

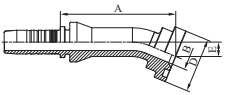
FLUIDTECHNIK S.R.L.0723 382 199

MULTIFIT TYPE

SAE STANDARD CONNECTIONS

M23321

22,5° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3
BRIDA 22,5° ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3
22,5° ISO/SAE CODE 61 FLANSCH - SAE J516 / ISO 12151-3
FLANGIA 22,5° ISO/SAE CODE 61 - SAE J516 / ISO 12151-3



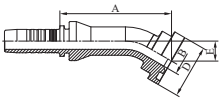
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M23321-08-08	12	1/2"	- 08	1/2"	9,3	63,9	30,3	8,0		
M23321-12-12	19	3/4"	- 12	3/4"	15,0	74,7	38,0	9,8		
M23321-12-16	19	3/4"	- 12	1"	20,0	74,7	44,6	9,8		
M23321-16-16	25	1"	- 16	1"	19,8	88,8	44,6	11,5		
M23321-16-20	25	1"	- 16	1.1/4"	26,0	88,5	51,0	11,5		
M23321-16-24	25	1"	- 16	1.1/2"	32,0	88,5	60,5	11,5		
M23321-20-20	31	1.1/4"	- 20	1.1/4"	26,0	100,0	51,0	12,0		
M23321-20-20018	31	1.1/4"	- 20	1.1/4"	26,0	99,0	51,0	18,0		
M23321-20-24	31	1.1/4"	- 20	1.1/2"	32,0	101,8	60,5	12,8		
M23321-24-24	38	1.1/2"	- 24	1.1/2"	32,0	116,5	60,5	14,0		
M23321-24-24023	38	1.1/2"	- 24	1.1/2"	32,0	115,0	60,5	23,0		
M23321-24-32	38	1.1/2"	- 24	2"	42,0	116,5	71,6	14,0		
M23321-32-32	51	2"	- 32	2"	42,0	134,5	71,6	15,0		
M23321-40-40*	63	2.1/2"	- 40	2.1/2"	52,0	72,0	84,3	14,0		
M23321-40-48*	63	2.1/2"	- 40	3"	52,0	79,0	101,6	17,0		
M23321-48-48*	76	3"	- 48	3"	61,0	111,0	101,6	20,5		

* **All items are made from solid with the exception of (*)** / Todos los ítems son fabricados sin soldadura exceptuando (*) / Mit Ausnahme der mit (*) bezeichneten Positionen sind alle Armaturen in einteiliger Ausführung / Ad eccezione di (*) tutte le referenze sono a pezzo unico

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M23331



30° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3
BRIDA 30° ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3
30° ISO/SAE CODE 61 FLANSCH - SAE J516 / ISO 12151-3
FLANGIA 30° ISO/SAE CODE 61 - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M23331-08-08	12	1/2"	- 08	1/2"	9,3	62,6	30,3	11,2		
M23331-08-12	12	1/2"	- 08	3/4"	15,0	63,5	38,0	11,5		
M23331-12-12	19	3/4"	- 12	3/4"	15,0	73,2	38,0	13,9		
M23331-12-16	19	3/4"	- 12	1"	20,0	73,2	44,6	13,9		
M23331-16-16	25	1"	- 16	1"	19,8	86,8	44,6	16,4		
M23331-16-20	25	1"	- 16	1.1/4"	26,0	87,0	51,0	16,5		
M23331-20-20	31	1.1/4"	- 20	1.1/4"	26,0	98,0	51,0	17,4		
M23331-20-24	31	1.1/4"	- 20	1.1/2"	32,0	100,0	60,5	18,5		
M23331-20-24044	31	1.1/4"	- 20	1.1/2"	32,0	131,5	60,5	44,0		
M23331-24-24	38	1.1/2"	- 24	1.1/2"	32,0	114,3	60,5	20,0		
M23331-24-32	38	1.1/2"	- 24	2"	42,0	114,5	71,6	20,0		
M23331-32-32	51	2"	- 32	2"	42,0	132,0	71,6	22,0		
M23331-40-40*	63	2.1/2"	- 40	2.1/2"	52,0	79,5	84,3	20,5		
M23331-40-48*	63	2.1/2"	- 40	3"	52,0	85,5	101,6	24,5		
M23331-48-48*	76	3"	- 48	3"	61,0	110,5	101,6	27,5		

FLUIDTECHNIK S.R.L.0723 382 199

* **All items are made from solid with the exception of (*)** / Todos los ítems son fabricados sin soldadura exceptuando (*) / Mit Ausnahme der mit (*) bezeichneten Positionen sind alle Armaturen in einteiliger Ausführung / Ad eccezione di (*) tutte le referenze sono a pezzo unico

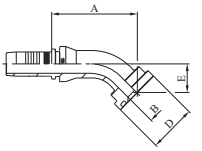
FLUIDTECHNIK S.R.L.0723 382 199

MULTIFIT TYPE

SAE STANDARD CONNECTIONS

M23341

45° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3
BRIDA 45° ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3
45° ISO/SAE CODE 61 FLANSCH - SAE J516 / ISO 12151-3
FLANGIA 45° ISO/SAE CODE 61 - SAE J516 / ISO 12151-3



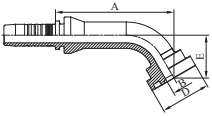
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M23341-06-08	10	3/8"	- 06	1/2"	9,3	52,5	30,3	17,0		
M23341-08-08	12	1/2"	- 08	1/2"	9,3	58,5	30,3	18,5		
M23341-08-12	12	1/2"	- 08	3/4"	15,0	59,5	38,0	19,0		
M23341-08-16	12	1/2"	- 08	1"	20,0	59,5	44,6	19,0		
M23341-10-12	16	5/8"	- 10	3/4"	15,0	61,0	38,0	22,0		
M23341-12-12	19	3/4"	- 12	3/4"	15,0	68,5	38,0	23,0		
M23341-12-16	19	3/4"	- 12	1"	20,0	68,5	44,6	23,0		
M23341-16-12	25	1"	- 16	3/4"	15,0	74,5	38,0	23,0		
M23341-16-16	25	1"	- 16	1"	19,8	81,5	44,6	27,5		
M23341-16-20	25	1"	- 16	1.1/4"	26,0	81,5	51,0	27,5		
M23341-20-16	31	1.1/4"	- 20	1"	19,8	84,5	44,6	29,5		
M23341-20-20	31	1.1/4"	- 20	1.1/4"	26,0	92,0	51,0	29,5		
M23341-20-24	31	1.1/4"	- 20	1.1/2"	32,0	93,5	60,5	31,0		
M23341-24-24	38	1.1/2"	- 24	1.1/2"	32,0	107,5	60,5	34,5		
M23341-24-32	38	1.1/2"	- 24	2"	42,0	107,5	71,6	34,5		
M23341-32-32	51	2"	- 32	2"	42,0	124,0	71,6	39,0		
M23341-32-40	51	2"	- 32	2.1/2"	56,0	136,5	84,3	49,5		
M23341-40-32	63	2.1/2"	- 40	2"	42,0	152,0	71,5	48,5		
M23341-40-40*	63	2.1/2"	- 40	2.1/2"	56,0	74,5	84,3	30,0		
M23341-40-48*	63	2.1/2"	- 40	3"	52,0	79,5	101,6	36,0		
M23341-48-48*	76	3"	- 48	3"	61,0	109,0	101,6	41,0		
M23341-56-56*	90	3.1/2"	- 56	3.1/2"	79,0	115,0	114,3	47,5		
M23341-56-64*	90	3.1/2"	- 56	4"	79,0	118,5	127,0	51,0		
M23341-64-64*	102	4"	- 64	4"	90,0	132,0	127,0	56,5		

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M23361

60° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3
BRIDA 60° ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3
60° ISO/SAE CODE 61 FLANSCH - SAE J516 / ISO 12151-3
FLANGIA 60° ISO/SAE CODE 61 - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M23361-08-08	12	1/2"	- 08	1/2"	9,3	71,5	30,3	25,8		
M23361-08-12	12	1/2"	- 08	3/4"	15,0	72,5	38,0	26,5		
M23361-12-12	19	3/4"	- 12	3/4"	15,0	86,9	38,0	33,0		
M23361-12-16	19	3/4"	- 12	1"	20,0	87,0	44,6	33,0		
M23361-16-16	25	1"	- 16	1"	19,8	104,0	44,6	39,0		
M23361-16-20	25	1"	- 16	1.1/4"	26,0	104,0	44,6	39,0		
M23361-20-20	31	1.1/4"	- 20	1.1/4"	26,0	120,0	51,0	43,0		
M23361-20-20065	31	1.1/4"	- 20	1.1/4"	26,0	107,5	51,0	65,0		
M23361-20-24	31	1.1/4"	- 20	1.1/2"	32,0	121,0	60,5	44,7		
M23361-24-20	38	1.1/2"	- 24	1.1/4"	26,0	141,5	51,0	46,5		
M23361-24-24	38	1.1/2"	- 24	1.1/2"	32,0	143,6	60,5	50,7		
M23361-24-32	38	1.1/2"	- 24	2"	42,0	143,5	71,6	51,0		
M23361-32-32	51	2"	- 32	2"	42,0	129,0	71,6	58,0		
M23361-40-40*	63	2.1/2"	- 40	2.1/2"	52,0	84,5	84,3	47,5		
M23361-40-48*	63	2.1/2"	- 40	3"	52,0	88,5	101,6	55,0		
M23361-48-48*	76	3"	- 48	3"	61,0	120,0	101,6	64,0		

FLUIDTECHNIK S.R.L.0723 382 199

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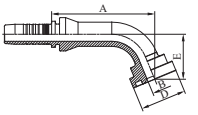
FLUIDTECHNIK S.R.L.0723 382 199

MULTIFIT TYPE

SAE STANDARD CONNECTIONS

M23371

67,5° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3
BRIDA 67,5° ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3
67,5° ISO/SAE CODE 61 FLANSCH - SAE J516 / ISO 12151-3
FLANGIA 67,5° ISO/SAE CODE 61 - SAE J516 / ISO 12151-3



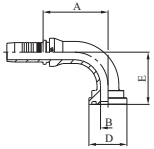
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M23371-08-08	12	1/2"	- 08	1/2"	9,3	67,9	30,3	29,3		
M23371-08-12	12	1/2"	- 08	3/4"	15,0	68,5	38,0	30,5		
M23371-08-16	12	1/2"	- 08	1"	20,0	68,5	44,6	30,5		
M23371-12-12	19	3/4"	- 12	3/4"	15,0	82,2	38,0	38,0		
M23371-12-16	19	3/4"	- 12	1"	20,0	82,2	44,6	38,0		
M23371-12-20	19	3/4"	- 12	1.1/4"	26,0	82,5	51,0	38,0		
M23371-16-16	25	1"	- 16	1"	19,8	98,6	44,6	45,0		
M23371-16-20	25	1"	- 16	1.1/4"	26,0	98,5	51,0	45,0		
M23371-20-20	31	1.1/4"	- 20	1.1/4"	26,0	114,0	51,0	50,0		
M23371-20-24	31	1.1/4"	- 20	1.1/2"	32,0	115,0	60,5	52,0		
M23371-24-24	38	1.1/2"	- 24	1.1/2"	32,0	136,4	60,5	59,2		
M23371-24-32	38	1.1/2"	- 24	2"	42,0	136,5	71,6	59,0		
M23371-32-32	51	2"	- 32	2"	42,0	162,0	71,6	68,5		
M23371-32-32085	51	2"	- 32	2"	42,0	151,5	71,6	85,0		
M23371-32-40	51	2"	- 32	2.1/2"	56,0	171,5	84,3	83,5		
M23371-40-40*	63	2.1/2"	- 40	2.1/2"	52,0	87,5	84,3	57,5		
M23371-40-48*	63	2.1/2"	- 40	3"	52,0	91,0	101,6	65,0		

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M23391

90° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3
BRIDA 90° ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3
90° ISO/SAE CODE 61 FLANSCH - SAE J516 / ISO 12151-3
FLANGIA 90° ISO/SAE CODE 61 - SAE J516 / ISO 12151-3

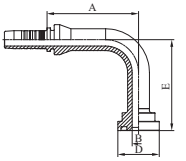
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M23391-06-08	10	3/8"	- 06	1/2"	9,3	45,0	30,3	35,0		
M23391-06-08041	10	3/8"	- 06	1/2"	9,3	45,0	30,3	41,0		
M23391-08-08	12	1/2"	- 08	1/2"	9,3	54,5	30,3	40,0		
M23391-08-12	12	1/2"	- 08	3/4"	15,0	54,5	38,0	41,0		
M23391-08-16	12	1/2"	- 08	1"	20,0	54,5	44,6	66,0		
M23391-10-08	16	5/8"	- 10	1/2"	9,3	56,0	30,3	46,5		
M23391-10-12	16	5/8"	- 10	3/4"	15,0	56,0	38,0	47,5		
M23391-12-12	19	3/4"	- 12	3/4"	15,0	64,5	38,0	52,0		
M23391-12-16	19	3/4"	- 12	1"	20,0	64,5	44,6	52,0		
M23391-12-20	19	3/4"	- 12	1.1/4"	26,0	64,5	51,0	52,0		
M23391-16-16	25	1"	- 16	1"	19,8	77,5	44,6	62,0		
M23391-16-20	25	1"	- 16	1.1/4"	26,0	77,5	51,0	62,0		
M23391-16-24	25	1"	- 16	1.1/2"	32,0	77,5	60,5	64,0		
M23391-20-16	31	1.1/4"	- 20	1"	20,0	80,0	44,6	66,0		
M23391-20-20	31	1.1/4"	- 20	1.1/4"	26,0	90,5	51,0	70,0		
M23391-20-24	31	1.1/4"	- 20	1.1/2"	32,0	90,5	60,5	72,0		
M23391-20-32	31	1.1/4"	- 20	2"	42,0	93,5	71,6	76,0		
M23391-24-20	38	1.1/2"	- 24	1.1/4"	26,0	104,5	51,0	75,0		
M23391-24-24	38	1.1/2"	- 24	1.1/2"	32,0	108,0	60,5	84,0		
M23391-24-32	38	1.1/2"	- 24	2"	42,0	108,0	71,6	84,0		
M23391-32-24	51	2"	- 32	1.1/2"	32,0	133,0	60,5	84,0		
M23391-32-32	51	2"	- 32	2"	42,0	129,0	71,6	99,0		
M23391-32-40	51	2"	- 32	2.1/2"	56,0	132,5	84,3	116,0		
M23391-40-32	63	2.1/2"	- 40	2"	42,0	149,5	71,6	114,0		
M23391-40-40*	63	2.1/2"	- 40	2.1/2"	52,0	88,5	84,3	88,0		
M23391-40-48*	63	2.1/2"	- 40	3"	52,0	88,5	101,6	95,0		
M23391-48-48*	76	3"	- 48	3"	61,0	124,0	101,6	115,0		
M23391-48-56*	76	3"	- 48	3.1/2"	61,0	124,0	114,3	115,0		
M23391-56-56*	90	3.1/2"	- 56	3.1/2"	79,0	134,5	114,3	134,5		
M23391-64-64*	102	4"	- 64	4"	90,0	153,5	127,0	158,5		

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FLUIDTECHNIK S.R.L.0723 382 199

M23391 LONG DROP

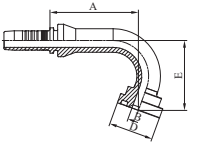


90° LONG DROP ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3
BRIDA 90° LARGA ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3
90° LONG DROP ISO/SAE CODE 61 FLANSCH - SAE J516 / ISO 12151-3
FLANGIA 90° CURVA LUNGA ISO/SAE CODE 61 - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M23391-16-20117	25	1"	- 16	1.1/4"	26,0	77,5	51,0	117		
M23391-16-24107	25	1"	- 16	1.1/2"	32,0	77,5	60,5	107		
M23391-20-20091	31	1.1/4"	- 20	1.1/4"	26,0	90,5	51,0	91		
M23391-20-20100	31	1.1/4"	- 20	1.1/4"	26,0	90,5	51,0	100		
M23391-20-20112	31	1.1/4"	- 20	1.1/4"	26,0	90,5	51,0	112		
M23391-20-20130	31	1.1/4"	- 20	1.1/4"	26,0	90,5	51,0	130		
M23391-20-20168	31	1.1/4"	- 20	1.1/4"	26,0	90,5	51,0	168		
M23391-20-24118	31	1.1/4"	- 20	1.1/2"	32,0	90,5	60,5	118		
M23391-20-24130	31	1.1/4"	- 20	1.1/2"	32,0	90,5	60,5	130		
M23391-24-24148	38	1.1/2"	- 24	1.1/2"	32,0	108,0	60,5	148		
M23391-24-24172	38	1.1/2"	- 24	1.1/2"	32,0	108,0	60,5	172		
M23391-24-32115	38	1.1/2"	- 24	2"	42,0	108,0	71,6	115		
M23391-24-32172	38	1.1/2"	- 24	2"	42,0	108,0	71,6	172		
M23391-32-32203	51	2"	- 32	2"	42,0	129,0	71,6	203		

FLUIDTECHNIK S.R.L. 0723 382 199

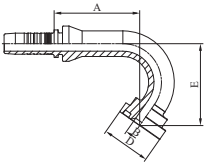
M23301P



110° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3
BRIDA 110° ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3
110° ISO/SAE CODE 61 FLANSCH - SAE J516 / ISO 12151-3
FLANGIA 110° ISO/SAE CODE 61 - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M23301-08-12P	12	1/2"	- 08	3/4"	15,0	47,5	38,0	48,5		
M23301-12-12P	19	3/4"	- 12	3/4"	15,0	89,0	38,0	62		
M23301-12-16P	19	3/4"	- 12	1"	20,0	89,0	44,6	62		
M23301-16-16P	25	1"	- 16	1"	19,8	88,5	44,6	79		
M23301-16-20133P	25	1"	- 16	1.1/4"	26,0	77,0	51,0	133		
M23301-20-20P	31	1.1/4"	- 20	1.1/4"	26,0	102,0	51,0	89		
M23301-20-24P	31	1.1/4"	- 20	1.1/2"	32,0	108,5	60,5	93		
M23301-24-24119P	38	1.1/2"	- 24	1.1/2"	32,0	105,5	60,5	119		
M23301-32-32P	51	2"	- 32	2"	42,0	142,0	71,6	123		

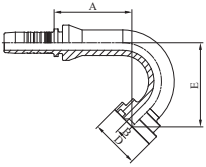
FLUIDTECHNIK S.R.L.0723 382 199



M23301S

125° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3
BRIDA 125° ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3
125° ISO/SAE CODE 61 FLANSCH - SAE J516 / ISO 12151-3
FLANGIA 125° ISO/SAE CODE 61 - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M23301-32-32151S	51	2"	- 32	2"	42,0	118,5	71,6	151,0		



M23301T

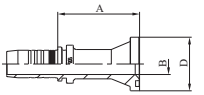
135° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3
BRIDA 135° ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3
135° ISO/SAE CODE 61 FLANSCH - SAE J516 / ISO 12151-3
FLANGIA 135° ISO/SAE CODE 61 - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M23301-12-12T	19	3/4"	- 12	3/4"	15,0	74,5	38,0	70,0		
M23301-12-16T	19	3/4"	- 12	1"	20,0	74,5	44,6	70,0		
M23301-16-16T	25	1"	- 16	1"	19,8	70,0	44,6	88,5		

FLUIDTECHNIK S.R.L.0723 382 199

M23611

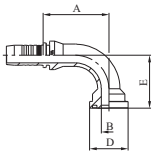
ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3
BRIDA ISO/SAE CODIGO 62 - SAE J516 / ISO 1215-3
ISO/SAE CODE 62 FLANSCH - SAE J516/ISO 12151-3
FLANGIA ISO/SAE CODE 62 - SAE J516 / ISO 12151-3



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D			
M23611-08-08	12	1/2"	- 08	1/2"	9,3	52,1	31,8			
M23611-08-12	12	1/2"	- 08	3/4"	15,0	68,4	41,5			
M23611-10-08	16	5/8"	- 10	1/2"	9,3	52,0	31,8			
M23611-10-12	16	5/8"	- 10	3/4"	15,0	70,2	41,5			
M23611-10-16	16	5/8"	- 10	1"	20,0	80,0	47,7			
M23611-12-12	19	3/4"	- 12	3/4"	15,0	69,0	41,5			
M23611-12-16	19	3/4"	- 12	1"	20,0	81,0	47,7			
M23611-16-16	25	1"	- 16	1"	19,8	82,3	47,7			
M23611-16-20	25	1"	- 16	1.1/4"	26,0	89,8	54,2			
M23611-20-16	31	1.1/4"	- 20	1"	20,0	82,5	47,7			
M23611-20-20	31	1.1/4"	- 20	1.1/4"	26,0	84,5	54,2			
M23611-20-24	31	1.1/4"	- 20	1.1/2"	32,0	90,5	63,7			
M23611-24-24	38	1.1/2"	- 24	1.1/2"	32,0	92,6	63,7			
M23611-32-32	51	2"	- 32	2"	42,0	107,9	79,6			

FLUIDTECHNIK S.R.L. 0723 382 199

FLUIDTECHNIK S.R.L.0723 382 199



M23691

90° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3
BRIDA 90° ISO/SAE CODIGO 62 - SAE J516 / ISO 12151-3
90° ISO/SAE CODE 61 FLANSCH - SAE J516 / ISO 12151-3
FLANGIA 90° ISO/SAE CODE 62 - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M23691-08-08	12	1/2"	- 08	1/2"	9,3	54,5	31,8	45,0		
M23691-08-12	12	1/2"	- 08	3/4"	15,0	54,5	41,5	53,0		
M23691-10-08	16	5/8"	- 10	1/2"	9,3	57,5	31,8	45,0		
M23691-10-12	16	5/8"	- 10	3/4"	15,0	56,0	41,5	58,0		
M23691-10-16	16	5/8"	- 10	1"	19,8	55,7	47,7	65,0		
M23691-12-12	19	3/4"	- 12	3/4"	15,0	64,0	41,5	59,0		
M23691-12-16	19	3/4"	- 12	1"	20,0	64,5	47,7	65,0		
M23691-16-16	25	1"	- 16	1"	19,8	73,5	47,7	68,0		
M23691-16-20	25	1"	- 16	1.1/4"	26,0	73,5	54,2	75,0		
M23691-20-16	31	1.1/4"	- 20	1"	20,0	82,5	47,7	68,0		
M23691-20-20	31	1.1/4"	- 20	1.1/4"	26,0	85,5	54,2	81,0		
M23691-20-24	31	1.1/4"	- 20	1.1/2"	32,0	85,5	63,7	91,5		
M23691-24-24	38	1.1/2"	- 24	1.1/2"	32,0	106,0	63,7	94,5		
M23691-24-32	38	1.1/2"	- 24	2"	42,0	106,0	79,6	110,5		
M23691-32-32	51	2"	- 32	2"	42,0	138,0	79,6	132,0		

FLUIDTECHNIK S.R.L.0723 382 199

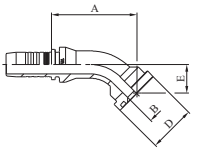
FLUIDTECHNIK S.R.L.0723 382 199

MULTIFIT TYPE

SAE STANDARD CONNECTIONS

M23641

45° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3
BRIDA 45° ISO/SAE CODIGO 62 - SAE J516 / ISO 12151-3
45° ISO/SAE CODE 62 FLANSCH - SAE J516 / ISO 12151-3
FLANGIA 45° ISO/SAE CODE 62 - SAE J516 / ISO 12151-3

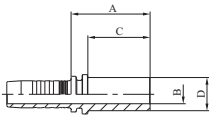


PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M23641-08-08	12	1/2"	- 08	1/2"	9,3	62,0	31,8	22,0		
M23641-08-12	12	1/2"	- 08	3/4"	15,0	68,0	41,5	27,5		
M23641-10-08	16	5/8"	- 10	1/2"	9,3	62,5	31,8	23,5		
M23641-10-12	16	5/8"	- 10	3/4"	15,0	67,5	41,5	31,0		
M23641-12-12	19	3/4"	- 12	3/4"	15,0	73,0	41,5	28,0		
M23641-12-16	19	3/4"	- 12	1"	20,0	77,0	47,7	32,5		
M23641-16-12	25	1"	- 16	3/4"	15,0	80,0	41,5	30,0		
M23641-16-16	25	1"	- 16	1"	19,8	83,5	47,7	32,5		
M23641-16-20	25	1"	- 16	1.1/4"	26,0	88,5	54,2	37,5		
M23641-20-20	31	1.1/4"	- 20	1.1/4"	26,0	95,5	54,2	37,5		
M23641-20-24	31	1.1/4"	- 20	1.1/2"	32,0	102,5	63,7	45,0		
M23641-24-24	38	1.1/2"	- 24	1.1/2"	32,0	118,0	63,7	44,0		
M23641-24-32	38	1.1/2"	- 24	2"	42,0	129,0	79,6	55,5		
M23641-32-32	51	2"	- 32	2"	42,0	151,5	79,6	60,5		

FLUIDTECHNIK S.R.L. 0723 382 199

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M22010

METRIC STANDPIPE LIGHT DUTY - DIN 2353 / ISO 8434-1
ESPIGA LISA METRICA RECTA SERIE LIGERA - DIN 2353 / ISO 8434-1
BEL - DIN 2353 / ISO 8434-1
ESTREMITÀ TUBOLARE SERIE LEGGERA - DIN 2353 / ISO 8434-1

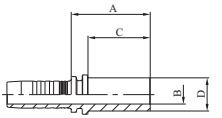
PART. REF.	HOSE BORE			PIPE	DIMENSIONS mm					
	DN	inch	Size	D	B	A	C			
M22010-03-04	5	3/16"	- 03	4	2,0	29,6	22,0			
M22010-03-06	5	3/16"	- 03	6	3,0	28,6	22,0			
M22010-04-06	6	1/4"	- 04	6	3,0	29,5	22,0			
M22010-05-08	8	5/16"	- 05	8	5,5	30,0	22,0			
M22010-05-10	8	5/16"	- 05	10	7,0	30,5	23,0			
M22010-06-10	10	3/8"	- 06	10	7,0	30,6	23,0			
M22010-06-12	10	3/8"	- 06	12	8,0	30,6	23,0			
M22010-06-15	10	3/8"	- 06	15	10,5	32,6	25,0			
M22010-08-12	12	1/2"	- 08	12	8,0	30,9	23,0			
M22010-08-15	12	1/2"	- 08	15	10,5	32,9	25,0			
M22010-08-18	12	1/2"	- 08	18	12,5	33,9	26,0			
M22010-10-18	16	5/8"	- 10	18	12,5	34,2	26,0			
M22010-10-22	16	5/8"	- 10	22	15,0	36,2	28,0			
M22010-12-18	19	3/4"	- 12	18	15,0	36,2	28,0			
M22010-12-22	19	3/4"	- 12	22	15,0	38,0	28,0			
M22010-16-28	25	1"	- 16	28	20,5	41,3	30,0			
M22010-20-35	31	1.1/4"	- 20	35	26,0	48,5	36,0			
M22010-24-42	38	1.1/2"	- 24	42	32,0	52,6	40,0			

FLUIDTECHNIK S.R.L.0723 382 199

FLUIDTECHNIK S.R.L.0723 382 199

M22110

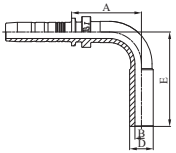
METRIC STANDPIPE HEAVY DUTY - DIN 2353 / ISO 8434-1
ESPIGA LISA METRICA RECTA SERIE PESADA - DIN 2353 / ISO 8434-1
BES - DIN 2353 / ISO 8434-1
ESTREMITÀ TUBOLARE SERIE PESANTE - DIN 2353 / ISO 8434-1



PART. REF.	HOSE BORE			PIPE	DIMENSIONS mm					
	DN	inch	Size	D	B	A	C			
M22110-03-08	5	3/16"	- 03	8	3,0	30,6	24,0			
M22110-03-10	5	3/16"	- 03	10	3,0	29,5	22,0			
M22110-04-08	6	1/4"	- 04	8	4,0	31,5	24,0			
M22110-04-10	6	1/4"	- 04	10	4,0	33,5	26,0			
M22110-04-12	6	1/4"	- 04	12	7,0	33,5	26,0			
M22110-05-12	8	5/16"	- 05	12	7,0	33,5	26,0			
M22110-06-14	10	3/8"	- 06	14	8,0	36,6	29,0			
M22110-08-14	12	1/2"	- 08	14	9,3	36,9	29,0			
M22110-08-16	12	1/2"	- 08	16	10,5	37,9	30,0			
M22110-10-20	16	5/8"	- 10	20	12,5	44,2	36,0			
M22110-12-20	19	3/4"	- 12	20	15,0	46,0	36,0			
M22110-12-25	19	3/4"	- 12	25	15,0	50,0	40,0			
M22110-16-25	25	1"	- 16	25	15,0	51,3	40,0			
M22110-16-30	25	1"	- 16	30	20,5	51,3	44,0			
M22110-16-38	25	1"	- 16	38	26,0	61,3	50,0			
M22110-20-30	31	1.1/4"	- 20	30	20,5	56,5	44,0			
M22110-20-38	31	1.1/4"	- 20	38	26,0	62,5	50,0			
M22110-24-38	38	1.1/2"	- 24	38	26,0	62,6	50,0			

FLUIDTECHNIK S.R.L.0723 382 199

FLUIDTECHNIK S.R.L.0723 382 199



M22090

90° METRIC STANDPIPE LIGHT DUTY - DIN 2353 / ISO 8434-1

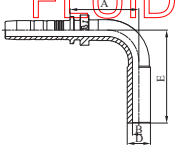
ESPIGA LISA METRICA SERIE LIGERA CODO DE 90° - DIN 2353 / ISO 8434-1

BEL 90° BOGEN - DIN 2353 / ISO 8434-1

ESTREMITÀ TUBOLARE 90° SERIE LEGGERA - DIN 2353 / ISO 8434-1

PART. REF.	HOSE BORE			PIPE	DIMENSIONS mm					
	DN	inch	Size	D	B	A		E		
M22090-03-06	5	3/16"	- 03	6	3,0	22,5		34,0		
M22090-04-06	6	1/4"	- 04	6	3,0	23,0		34,0		
M22090-05-10	8	5/16"	- 05	10	7,0	29,5		40,0		
M22090-06-10	10	3/8"	- 06	10	7,0	34,0		42,5		
M22090-06-12	10	3/8"	- 06	12	8,0	34,0		45,0		
M22090-08-12	12	1/2"	- 08	12	8,0	34,5		45,0		
M22090-08-15	12	1/2"	- 08	15	10,5	42,0		52,0		
M22090-08-18	12	1/2"	- 08	18	12,5	42,0		55,0		
M22090-10-18	16	5/8"	- 10	18	12,5	49,0		59,0		
M22090-10-22	16	5/8"	- 10	22	15,0	53,5		63,0		
M22090-12-22	19	3/4"	- 12	22	15,0	54,5		63,0		
M22090-16-28	25	1"	- 16	28	19,8	67,5		75,0		
M22090-20-35	31	1.1/4"	- 20	35	26,0	80,5		94,0		

FLUIDTECHNIK S.R.L. 0723 382 199



M22190

90° METRIC STANDPIPE HEAVY DUTY - DIN 2353 / ISO 8434-1

ESPIGA LISA METRICA SERIE PESADA CODO DE 90° - DIN 2353 / ISO 8434-1

BES 90° BOGEN - DIN 2353 / ISO 8434-1

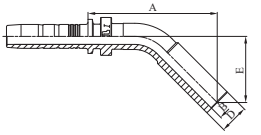
ESTREMITÀ TUBOLARE 90° SERIE PESANTE - DIN 2353 / ISO 8434-1

PART. REF.	HOSE BORE			PIPE	DIMENSIONS mm					
	DN	inch	Size	D	B	A		E		
M22190-04-08	6	1/4"	- 04	8	4,0	27,0		38,0		
M22190-04-10	6	1/4"	- 04	10	6,0	27,0		41,0		
M22190-04-12	6	1/4"	- 04	12	7,0	27,0		44,0		
M22190-05-12	8	5/16"	- 05	12	7,0	30,5		44,0		
M22190-06-14	10	3/8"	- 06	14	9,3	35,0		51,0		
M22190-08-14	12	1/2"	- 08	14	9,3	42,0		53,5		
M22190-08-16	12	1/2"	- 08	16	10,5	43,0		55,0		
M22190-10-20	16	5/8"	- 10	20	12,5	49,0		66,5		
M22190-12-20	19	3/4"	- 12	20	15,0	54,5		69,0		
M22190-12-25	19	3/4"	- 12	25	15,0	57,5		75,0		
M22190-16-25	25	1"	- 16	25	15,0	61,5		76,5		
M22190-16-30	25	1"	- 16	30	19,8	69,5		87,0		

FLUIDTECHNIK S.R.L.0723 382 199

M22040

45° METRIC STANDPIPE LIGHT DUTY - DIN 2353 / ISO 8434-1
ESPIGA LISA METRICA SERIE LIGERA CODO DE 45° - DIN 2353 / ISO 8434-1
BEL 45° BOGEN - DIN 2353 / ISO 8434-1
ESTREMITÀ TUBOLARE 45° SERIE LEGGERA - DIN 2353 / ISO 8434-1

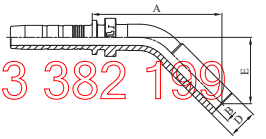


PART. REF.	HOSE BORE			PIPE	DIMENSIONS mm					
	DN	inch	Size	D	B	A		E		
M22040-03-06	5	3/16"	- 03	6	3,0	37,5		20,5		
M22040-04-06	6	1/4"	- 04	6	3,0	38,0		20,5		
M22040-05-10	8	5/16"	- 05	10	7,0	44,5		22,5		
M22040-06-10	10	3/8"	- 06	10	7,0	47,5		23,0		
M22040-06-12	10	3/8"	- 06	12	8,0	49,5		25,0		
M22040-08-15	12	1/2"	- 08	15	10,5	58,0		28,0		
M22040-10-18	16	5/8"	- 10	18	12,5	63,5		30,5		
M22040-12-22	19	3/4"	- 12	22	15,0	69,0		32,0		
M22040-16-28	25	1"	- 16	28	19,8	81,5		37,0		

M22140

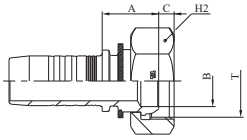
45° METRIC STANDPIPE HEAVY DUTY - DIN 2353 / ISO 8434-1
ESPIGA LISA METRICA SERIE PESADA CODO DE 45° - DIN 2353 / ISO 8434-1
BES 45° BOGEN - DIN 2353 / ISO 8434-1
ESTREMITÀ TUBOLARE 45° SERIE PESANTE - DIN 2353 / ISO 8434-1

FLUIDTECHNIK S.R.L. 0723 382 199



PART. REF.	HOSE BORE			PIPE	DIMENSIONS mm					
	DN	inch	Size	D	B	A		E		
M22140-04-08	6	1/4"	- 04	8	4,0	42,0		22,0		
M22140-04-10	6	1/4"	- 04	10	6,0	44,0		24,0		
M22140-06-14	10	3/8"	- 06	14	9,3	54,5		29,0		
M22140-08-16	12	1/2"	- 08	16	10,5	61,0		30,0		
M22140-10-20	16	5/8"	- 10	20	12,5	69,0		36,0		
M22140-12-25	19	3/4"	- 12	25	15,0	80,5		40,5		
M22140-16-25	25	1"	- 16	25	15,0	82,0		41,0		

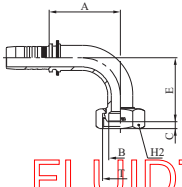
FLUIDTECHNIK S.R.L.0723 382 199



M21013

METRIC FEMALE 60° CONE - DIN 20078/3863
HEMBRA METRICA ASIENTO A 60° - DIN 20078/3863
DKM 60° KONUS - DIN 20078/3863
FEMMINA METRICA CONO 60° - DIN 20078/3863

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C			H2
M21013-10-30	16	5/8"	- 10	M 30x1,5	20,0	20,0	8,1			36
M21013-12-30	19	3/4"	- 12	M 30x1,5	20,0	21,0	8,1			36
M21013-16-38	25	1"	- 16	M 38x1,5	26,0	22,8	7,6			46
M21013-20-45	31	1.1/4"	- 20	M 45x1,5	33,0	23,5	8,1			50
M21013-24-52	38	1.1/2"	- 24	M 52x1,5	40,0	25,0	8,1			60



M21093

90° METRIC FEMALE SWEPT ELBOW 60° CONE - DIN 20078/3863
HEMBRA METRICA CODO DE 90° ASIENTO A 60° - DIN 20078/3863
DKM 90° BOGEN 60° KONUS - DIN 20078/3863
FEMMINA METRICA 90° CURVA 60° - DIN 20078/3863

FLUIDTECHNIK S.R.L. 0723 382 199

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H2
M21093-12-30	19	3/4"	- 12	M 30x1,5	20,0	61,5	8,1	54,5		36
M21093-16-38	25	1"	- 16	M 38x1,5	26,0	76,5	7,6	63,0		46
M21093-20-45	31	1.1/4"	- 20	M 45x1,5	33,0	92,0	8,1	81,0		50

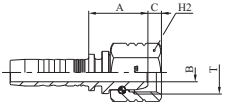
FLUIDTECHNIK S.R.L.0723 382 199

MULTIFIT TYPE

DIN STANDARD CONNECTIONS

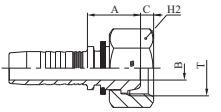
M21312

METRIC FEMALE MULTISEAL - DIN 20078/3868 (THRUST-WIRE NUT)
HEMBRA METRICA ASIENTO UNIVERSAL - DIN 20078/3868 (TUERCA CON SEGURO)
DKL UNIVERSALKONUS - DIN 20078/3868 (GESTIFTETE MUTTER)
FEMMINA METRICA CONO UNIVERSALE - DIN 20078/3868 (DADO SPINATO)



M21313

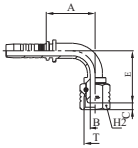
METRIC FEMALE MULTISEAL - DIN 20078/3868 (SLIP-ON NUT)
HEMBRA METRICA ASIENTO UNIVERSAL - DIN 20078/3868 (TUERCA LIBRE)
DKL UNIVERSALKONUS - DIN 20078/3868 (HINTERLEGTE MUTTER)
FEMMINA METRICA CONO UNIVERSALE - DIN 20078/3868 (DADO PASSANTE)



PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C			H_2
M21313-03-12	5	3/16"	- 03	M 12x1,5	6	3,0	18,6	3,7			14
M21312-04-12	6	1/4"	- 04	M 12x1,5	6	4,0	19,5	4,0			17
M21313-04-14	6	1/4"	- 04	M 14x1,5	8	4,0	19,5	3,8			17
M21313-04-16	6	1/4"	- 04	M 16x1,5	10	4,0	19,5	4,0			19
M21313-05-16	8	5/16"	- 05	M 16x1,5	10	5,5	19,5	4,0			19
M21313-05-18	8	5/16"	- 05	M 18x1,5	12	5,5	19,6	4,0			22
M21312-06-14	10	3/8"	- 06	M 14x1,5	8	4,0	19,5	3,9			17
M21312-06-16	10	3/8"	- 06	M 16x1,5	10	7,0	21,6	5,0			19
M21313-06-18	10	3/8"	- 06	M 18x1,5	12	7,0	20,1	4,0			22
M21313-06-22	10	3/8"	- 06	M 22x1,5	15	7,0	21,1	5,2			27
M21312-08-18	12	1/2"	- 08	M 18x1,5	12	7,0	23,0	5,9			22
M21313-08-22	12	1/2"	- 08	M 22x1,5	15	9,3	21,5	5,2			27
M21313-10-26	16	5/8"	- 10	M 26x1,5	18	12,5	22,1	5,5			32

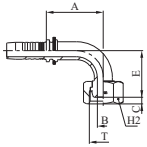
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M21392

90° METRIC FEMALE SWEPT ELBOW MULTISEAL DIN 20078/3868 (THRUST-WIRE NUT)
HEMBRA METRICA CODO DE 90º ASIENTO UNIVERSAL DIN 20078/3868 (TUERCA CON SEGURO)
DKL UNIVERSALKONUS 90° BOGEN - DIN 20078/3868 (GESTIFTETE MUTTER)
FEMMINA METRICA 90° CONO UNIVERSALE - DIN 20078/3868 (DADO SPINATO)



M21393

90° METRIC FEMALE SWEPT ELBOW MULTISEAL DIN 20078/3868 (SLIP-ON NUT)
HEMBRA METRICA CODO DE 90º ASIENTO UNIVERSAL DIN 20078/3868 (TUERCA LIBRE)
DKL UNIVERSALKONUS 90° BOGEN - DIN 20078/3868 (HINTERLEGTE MUTTER)
FEMMINA METRICA 90° CONO UNIVERSALE - DIN 20078/3868 (DADO PASSANTE)

PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C	E		H_2
M21393-03-12	5	3/16"	- 03	M 12x1,5	6	3,0	26,0	3,7	27,0		14
M21392-04-12	6	1/4"	- 04	M 12x1,5	6	4,0	28,0	4,0	30,5		17
M21393-04-14	6	1/4"	- 04	M 14x1,5	8	4,0	29,5	3,8	29,5		17
M21393-04-16	6	1/4"	- 04	M 16x1,5	10	4,0	29,5	4,0	29,5		19
M21393-05-16	8	5/16"	- 05	M 16x1,5	10	5,5	32,0	4,0	29,0		19
M21393-05-18	8	5/16"	- 05	M 18x1,5	12	7,0	32,0	4,0	30,5		22
M21392-06-16	10	3/8"	- 06	M 16x1,5	10	7,0	35,5	5,0	38,0		19
M21393-06-18	10	3/8"	- 06	M 18x1,5	12	7,0	36,5	4,0	31,5		22
M21393-06-22	10	3/8"	- 06	M 22x1,5	15	7,0	36,5	5,2	32,0		27
M21393-08-22	12	1/2"	- 08	M 22x1,5	15	9,3	45,0	5,2	36,5		27
M21393-10-26	16	5/8"	- 10	M 26x1,5	18	12,5	51,5	5,5	50,0		32
M21392-12-26	19	3/4"	- 12	M 26x1,5	18	12,5	61,5	3,6	63,0		32

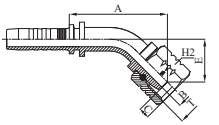
FLUIDTECHNIK S.R.L.0723 382 199

MULTIFIT TYPE

DIN STANDARD CONNECTIONS

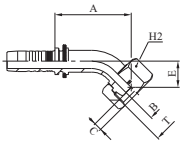
M21342

45° METRIC FEMALE SWEPT ELBOW MULTISEAL DIN 20078/3868 (THRUST-WIRE NUT)
HEMBRA METRICA CODO DE 45° ASIENTO UNIVERSAL DIN 20078/3868 (TUERCA CON SEGURO)
DKL UNIVERSALKONUS 45° BOGEN - DIN 20078/3868 (GESTIFTETE MUTTER)
FEMMINA METRICA 45° CONO UNIVERSALE - DIN 20078/3868 (DADO SPINATO)



M21343

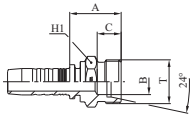
45° METRIC FEMALE SWEPT ELBOW MULTISEAL DIN 20078/3868 (SLIP-ON NUT)
HEMBRA METRICA CODO DE 45° ASIENTO UNIVERSAL DIN 20078/3868 (TUERCA LIBRE)
DKL UNIVERSALKONUS 45° BOGEN - DIN 20078/3868 (HINTERLEGTE MUTTER)
FEMMINA METRICA 45° CONO UNIVERSALE - DIN 20078/3868 (DADO PASSANTE)



PART. REF.	HOSE BORE		THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C	E	H_2
M21343-04-14	6	1/4"	- 04	M 14x1,5	8	4,0	36,5	3,8	15,0	17
M21343-04-16	6	1/4"	- 04	M 16x1,5	10	4,0	36,5	4,0	15,0	19
M21342-05-14	8	5/16"	- 05	M 14x1,5	8	4,0	40,0	3,9	19,5	17
M21343-05-16	8	5/16"	- 05	M 16x1,5	10	5,5	39,0	4,0	15,0	19
M21342-06-16	10	3/8"	- 06	M 16x1,5	10	4,0	46,0	5,0	20,0	19
M21343-06-18	10	3/8"	- 06	M 18x1,5	12	7,0	42,0	4,0	15,5	22
M21343-06-22	10	3/8"	- 06	M 22x1,5	15	7,0	42,5	5,2	15,5	27
M21343-08-22	12	1/2"	- 08	M 22x1,5	15	9,3	49,5	5,2	17,0	27
M21343-10-26	16	5/8"	- 10	M 26x1,5	18	12,5	60,0	5,5	24,0	32

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M11110

METRIC MALE 24° CONE SEAT LIGHT DUTY - DIN 20066 / ISO 12151-2

MACHO METRICO ASIENTO A 24º SERIE LIGERA DIN 20066 / ISO 12151-2

CEL - DIN 20066 / ISO 12151-2

MASCHIO METRICO 24° SERIE LEGGERA - DIN 20066 / ISO 12151-2

PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C		H1	H2
M11110-03-12	5	3/16"	- 03	M 12x1,5	6	3,0	21,0	10,0		14	
M11110-04-12	6	1/4"	- 04	M 12x1,5	6	4,0	21,5	10,0		14	
M11110-04-14	6	1/4"	- 04	M 14x1,5	8	4,0	21,5	10,0		14	
M11110-04-16	6	1/4"	- 04	M 16x1,5	10	7,0	23,5	11,0		17	
M11110-04-18	6	1/4"	- 04	M 18x1,5	12	9,0	23,5	11,0		19	
M11110-05-16	8	5/16"	- 05	M 16x1,5	10	7,0	24,0	11,0		17	
M11110-05-18	8	5/16"	- 05	M 18x1,5	12	9,0	24,0	11,0		19	
M11110-06-16	10	3/8"	- 06	M 16x1,5	10	7,0	24,1	11,0		17	
M11110-06-18	10	3/8"	- 06	M 18x1,5	12	9,0	24,6	11,0		19	
M11110-06-22	10	3/8"	- 06	M 22x1,5	15	10,0	25,6	12,0		22	
M11110-06-26	10	3/8"	- 06	M 26x1,5	18	12,5	26,5	12,0		27	
M11110-08-16	12	1/2"	- 08	M 16x1,5	10	7,0	24,5	11,0		22	
M11110-08-18	12	1/2"	- 08	M 18x1,5	12	9,3	24,5	11,0		22	
M11110-08-22	12	1/2"	- 08	M 22x1,5	15	10,0	25,6	12,0		22	
M11110-08-26	12	1/2"	- 08	M 26x1,5	18	12,5	26,4	12,0		27	
M11110-10-22	16	5/8"	- 10	M 22x1,5	15	10,0	25,5	12,0		22	
M11110-10-26	16	5/8"	- 10	M 26x1,5	18	12,5	26,7	12,0		27	
M11110-10-30	16	5/8"	- 10	M 30x2	22	15,0	28,5	14,0		30	
M11110-12-26	19	3/4"	- 12	M 26x1,5	18	15,0	28,5	12,0		27	
M11110-12-30	19	3/4"	- 12	M 30x2	22	15,0	30,0	14,0		30	
M11110-12-36	19	3/4"	- 12	M 36x2	28	19,8	31,2	14,0		36	
M11110-16-36	25	1"	- 16	M 36x2	28	20,0	32,3	14,0		36	
M11110-20-45	31	1.1/4"	- 20	M 45x2	35	26,0	40,5	16,0		46	
M11110-24-52	38	1.1/2"	- 24	M 52x2	42	32,0	42,6	16,0		55	

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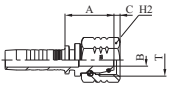
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MULTIFIT TYPE

DIN STANDARD CONNECTIONS

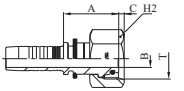
M21512

METRIC O-RING FEMALE 24° CONE LIGHT DUTY - DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT)
HEMBRA METRICA CON O-RING ASIENTO A 24º SERIE LIGERA DIN 20066 / ISO 12151-2 (TUERCA CON SEGURO)
DKOL - DIN 20066 / ISO 12151-2 (GESTIFTETE MUTTER)
FEMMINA METRICA CONO 24° O-RING SERIE LEGGERA DIN 20066 / ISO 12151-2 (DADO SPINATO)



M21513

METRIC O-RING FEMALE 24° CONE LIGHT DUTY - DIN 20066 / ISO 12151-2 (SLIP-ON NUT)
HEMBRA METRICA CON O-RING ASIENTO A 24º SERIE LIGERA DIN 20066 / ISO 12151-2 (TUERCA LIBRE)
DKOL - DIN 20066 / ISO 12151-2 (HINTERLEGTE MUTTER)
FEMMINA METRICA CONO 24° O-RING SERIE LEGGERA DIN 20066 / ISO 12151-2 (DADO PASSANTE)

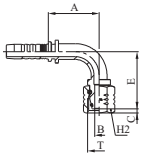


PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C			H_2
M21513-03-12	5	3/16"	- 03	M 12x1,5	6	3,0	21,9	1,7			14
M21513-03-14	5	3/16"	- 03	M 14x1,5	8	4,5	24,5	1,7			17
M21512-04-12	6	1/4"	- 04	M 12x1,5	6	3,0	21,1	2,2			17
M21513-04-14	6	1/4"	- 04	M 14x1,5	8	4,0	22,1	1,7			17
M21513-04-16	6	1/4"	- 04	M 16x1,5	10	6,0	22,6	2,1			19
M21513-04-18	6	1/4"	- 04	M 18x1,5	12	7,0	21,9	2,3			22
M21512-05-14	8	5/16"	- 05	M 14x1,5	8	4,0	20,0	1,7			17
M21513-05-16	8	5/16"	- 05	M 16x1,5	10	6,0	22,6	2,1			19
M21513-05-18	8	5/16"	- 05	M 18x1,5	12	7,0	21,9	2,3			22
M21512-06-16	10	3/8"	- 06	M 16x1,5	10	6 ,0	23,1	3,0			19
M21513-06-18	10	3/8"	- 06	M 18x1,5	12	7,0	22,4	2,3			22
M21513-06-22	10	3/8"	- 06	M 22x1,5	15	9,3	25,0	2,3			27
M21512-08-18	12	1/2"	- 08	M 18x1,5	12	7,0	29,0	2,9			22
M21513-08-22	12	1/2"	- 08	M 22x1,5	15	9,3	25,4	2,3			27
M21513-08-26	12	1/2"	- 08	M 26x1,5	18	12,5	26,1	2,5			32
M21512-10-18	16	5/8"	- 10	M 18x1,5	12	7,0	29,0	2,9			22
M21512-10-22	16	5/8"	- 10	M 22x1,5	15	9,5	26,5	2,4			27
M21513-10-26	16	5/8"	- 10	M 26x1,5	18	12,5	26,0	2,5			32
M21513-10-30	16	5/8"	- 10	M 30x2	22	15,0	34,0	3,6			36
M21513-10-36	16	5/8"	- 10	M 36x2	28	20,0	30,5	3,8			41
M21512-12-26	19	3/4"	- 12	M 26x1,5	18	12,5	31,1	3,6			32
M21513-12-30	19	3/4"	- 12	M 30x2	22	15,0	28,2	3,6			36
M21513-12-36	19	3/4"	- 12	M 36x2	28	20,0	28,3	3,8			41
M21512-16-30	25	1"	- 16	M 30x2	22	15,0	34,0	3,6			36
M21513-16-36	25	1"	- 16	M 36x2	28	19,8	29,4	3,8			41
M21513-16-45	25	1"	- 16	M 45x2	35	26,0	39,0	5,1			50
M21512-20-36	31	1.1/4"	- 20	M 36x2	28	19,8	35,5	5,0			41
M21513-20-45	31	1.1/4"	- 20	M 45x2	35	26,0	32,9	5,1			50
M21513-20-52	31	1.1/4"	- 20	M 52x2	42	32,0	32,5	5,1			60
M21512-24-45	38	1.1/2"	- 24	M 45x2	35	26,0	42,5	5,8			50
M21513-24-52	38	1.1/2"	- 24	M 52x2	42	32,0	32,8	5,1			60

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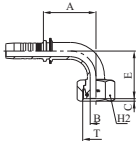
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M21592



90° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE LIGHT DUTY
DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT)
HEMBRA METRICA CON O-RING CODO DE 90° ASIENTO A 24° SERIE LIGERA
DIN 20066 / ISO 12151-2 (TUERCA CON SEGURO)
DKOL 90° BOGEN - DIN 20066 / ISO 12151-2 (GESTIFTETE MUTTER)
FEMMINA METRICA 90° CONO 24° O-RING SERIE LEGGERA DIN 20066 / ISO 12151-2 (DADO SPINATO)

M21593



90° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE LIGHT DUTY
DIN 20066 / ISO 12151-2 (SLIP-ON NUT)
HEMBRA METRICA CON O-RING CODO DE 90° ASIENTO A 24° SERIE LIGERA
DIN 20066 / ISO 12151-2 (TUERCA LIBRE)
DKOL 90° BOGEN - DIN 20066 / ISO 12151-2 (HINTERLEGTE MUTTER)
FEMMINA METRICA 90° CONO 24° O-RING SERIE LEGGERA DIN 20066 / ISO 12151-2 (DADO PASSANTE)

PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C	E		H_2
M21593-03-12	5	3/16″	- 03	M 12x1,5	6	3,0	26,0	1,7	30,0		14
M21593-03-14	5	3/16″	- 03	M 14x1,5	8	4,0	29,0	1,7	31,5		17
M21592-04-12	6	1/4″	- 04	M 12x1,5	6	3,0	28,5	2,2	32,5		17
M21593-04-14	6	1/4″	- 04	M 14x1,5	8	4,0	29,5	1,7	31,5		17
M21593-04-16	6	1/4″	- 04	M 16x1,5	10	6,0	29,5	2,1	32,0		19
M21593-04-18	6	1/4″	- 04	M 18x1,5	12	7,0	29,5	2,3	33,0		22
M21592-05-14	8	5/16″	- 05	M 14x1,5	8	4,0	31,0	1,7	33,0		17
M21593-05-16	8	5/16″	- 05	M 16x1,5	10	6,0	32,0	2,1	32,5		19
M21593-05-18	8	5/16″	- 05	M 18x1,5	12	7,0	32,0	2,3	32,5		22
M21593-05-22	8	5/16″	- 05	M 22x1,5	15	9,3	36,0	2,3	35,0		27
M21592-06-16	10	3/8″	- 06	M 16x1,5	10	6,0	35,5	3,0	40,0		19
M21593-06-18	10	3/8″	- 06	M 18x1,5	12	7,0	36,5	2,3	33,5		22
M21593-06-22	10	3/8″	- 06	M 22x1,5	15	9,3	36,5	2,3	35,0		27
M21592-08-18	12	1/2″	- 08	M 18x1,5	12	7,0	44,0	2,9	48,0		22
M21593-08-22	12	1/2″	- 08	M 22x1,5	15	9,3	45,0	2,3	39,5		27
M21593-08-26	12	1/2″	- 08	M 26x1,5	18	12,5	45,0	2,5	40,0		32
M21592-10-22	16	5/8″	- 10	M 22x1,5	15	9,3	53,5	3,0	57,5		27
M21593-10-26	16	5/8″	- 10	M 26x1,5	18	12,5	51,5	2,5	53,0		32
M21593-10-30	16	5/8″	- 10	M 30x2	22	15,0	51,5	3,6	54,0		36
M21592-12-26	19	3/4″	- 12	M 26x1,5	18	12,5	61,5	3,6	63,0		32
M21593-12-30	19	3/4″	- 12	M 30x2	22	15,0	61,5	3,6	59,0		36
M21593-12-36	19	3/4″	- 12	M 36x2	28	19,8	61,5	3,8	61,0		41
M21592-16-30	25	1″	- 16	M 30x2	22	15,0	79,5	3,6	80,5		36
M21593-16-36	25	1″	- 16	M 36x2	28	19,8	76,5	3,8	69,5		41
M21593-16-45	25	1″	- 16	M 45x2	35	26,0	79,0	5,1	72,0		50
M21592-20-36	31	1.1/4″	- 20	M 36x2	28	19,8	93,5	5,0	92,0		41
M21593-20-45	31	1.1/4″	- 20	M 45x2	35	26,0	93,5	5,1	81,0		50
M21592-24-36	38	1.1/2″	- 24	M 36x2	28	19,8	97,0	5,0	68,0		41
M21593-24-52	38	1.1/2″	- 24	M 52x2	42	32,0	107,5	5,1	98,0		60

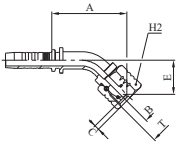
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MULTIFIT TYPE

DIN STANDARD CONNECTIONS

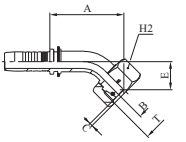
M21542

45° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE LIGHT DUTY
DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT)
HEMBRA METRICA CON O-RING CODO DE 45° ASIENTO A 24° SERIE LIGERA
DIN 20066 / ISO 12151-2 (TUERCA CON SEGURO)
DKOL 45° BOGEN - DIN 20066 / ISO 12151-2 (GESTIFTETE MUTTER)
FEMMINA METRICA 45° CONO 24° O-RING SERIE LEGGERA
DIN 20066 / ISO 12151-2 (DADO SPINATO)



M21543

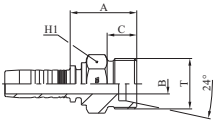
45° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE LIGHT DUTY
DIN 20066 / ISO 12151-2 (SLIP-ON NUT)
HEMBRA METRICA CON O-RING CODO DE 45° ASIENTO A 24° SERIE LIGERA
DIN 20066/ ISO 12151-2 (TUERCA LIBRE)
DKOL 45° BOGEN - DIN 20066/ ISO 12151-2 (HINTERLEGTE MUTTER)
FEMMINA METRICA 45° CONO 24° O-RING SERIE LEGGERA DIN 20066/ ISO 12151-2 (DADO PASSANTE)



PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C	E		H_2
M21543-03-12	5	3/16"	- 03	M 12x1,5	6	3,0	35,0	1,7	16,0		14
M21542-04-12	6	1/4"	- 04	M 12x1,5	6	3,0	39,0	2,2	18,0		17
M21543-04-14	6	1/4"	- 04	M 14x1,5	8	4,0	38,0	1,7	16,5		17
M21543-04-16	6	1/4"	- 04	M 16x1,5	10	6,0	38,0	2,1	17,0		19
M21543-04-18	6	1/4"	- 04	M 18x1,5	12	7,0	38,5	2,3	17,5		22
M21543-05-16	8	5/16"	- 05	M 16x1,5	10	6,0	41,5	2,1	17,5		19
M21543-05-18	8	5/16"	- 05	M 18x1,5	12	7,0	41,5	2,3	17,0		22
M21542-06-16	10	3/8"	- 06	M 16x1,5	10	6,0	47,5	3,0	21,5		19
M21543-06-18	10	3/8"	- 06	M 18x1,5	12	7,0	43,5	2,3	16,5		22
M21543-06-22	10	3/8"	- 06	M 22x1,5	15	9,3	45,0	2,3	18,0		27
M21542-08-18	12	1/2"	- 08	M 18x1,5	12	7,0	56,5	2,9	25,0		22
M21543-08-22	12	1/2"	- 08	M 22x1,5	15	9,3	52,0	2,3	19,0		27
M21543-08-26	12	1/2"	- 08	M 26x1,5	18	12,5	52,5	2,5	19,5		32
M21542-10-22	16	5/8"	- 10	M 22x1,5	15	9,3	65,5	2,4	29,0		27
M21543-10-26	16	5/8"	- 10	M 26x1,5	18	12,5	62,0	2,5	26,5		32
M21542-12-26	19	3/4"	- 12	M 26x1,5	18	12,5	73,0	3,6	31,0		32
M21543-12-30	19	3/4"	- 12	M 30x2	22	15,0	71,0	3,6	28,5		36
M21543-12-36	19	3/4"	- 12	M 36x2	28	19,8	72,0	3,8	30,0		41
M21543-16-36	25	1"	- 16	M 36x2	28	19,8	85,0	3,8	32,0		41
M21542-20-36	31	1.1/4"	- 20	M 36x2	28	19,8	107,5	5,0	44,0		41
M21543-20-45	31	1.1/4"	- 20	M 45x2	35	26,0	99,5	5,1	36,0		50
M21542-24-36	38	1.1/2"	- 24	M 36x2	28	19,8	117,5	5,0	37,0		41
M21543-24-52	38	1.1/2"	- 24	M 52x2	42	32,0	117,0	5,1	44,5		60

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M11210

METRIC MALE 24° CONE SEAT HEAVY DUTY - DIN 20066 / ISO 12151-2
MACHO METRICO ASIENTO A 24º - SERIE PESADA DIN 20066 / ISO 12151-2
CES - DIN 20066 / ISO 12151-2
MASCHIO METRICO 24º - SERIE PESANTE DIN 20066 / ISO 12151-2

PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C		H1	
M11210-04-16	6	1/4"	- 04	M 16x1,5	8	4,0	25,5	12,0		17	
M11210-04-18	6	1/4"	- 04	M 18x1,5	10	6,0	26,5	12,0		19	
M11210-04-20	6	1/4"	- 04	M 20x1,5	12	7,0	29,0	12,0		22	
M11210-05-16	8	5/16"	- 05	M 16x1,5	8	5,5	26,0	12,0		17	
M11210-05-18	8	5/16"	- 05	M 18x1,5	10	7,0	26,5	12,0		19	
M11210-05-20	8	5/16"	- 05	M 20x1,5	12	7,0	29,0	12,0		22	
M11210-06-18	10	3/8"	- 06	M 18x1,5	10	7,0	27,1	12,0		19	
M11210-06-20	10	3/8"	- 06	M 20x1,5	12	7,0	29,1	12,0		22	
M11210-06-22	10	3/8"	- 06	M 22x1,5	14	8,0	31,1	14,0		22	
M11210-08-22	12	1/2"	- 08	M 22x1,5	14	9,3	31,5	14,0		22	
M11210-08-24	12	1/2"	- 08	M 24x1,5	16	9,3	31,6	14,0		24	
M11210-10-30	16	5/8"	- 10	M 30x2	20	15,0	35,7	16,0		30	
M11210-10-36	16	5/8"	- 10	M 36x2	25	19,8	40,0	18,0		36	
M11210-12-30	19	3/4"	- 12	M 30x2	20	15,0	37,0	16,0		30	
M11210-12-36	19	3/4"	- 12	M 36x2	25	19,8	41,0	18,0		36	
M11210-16-36	25	1"	- 16	M 36x2	25	19,8	42,3	18,0		36	
M11210-16-42	25	1"	- 16	M 42x2	30	25,0	44,3	20,0		46	
M11210-20-52	31	1.1/4"	- 20	M 52x2	38	30,0	50,5	22,0		55	

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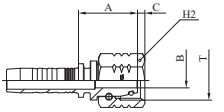
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MULTIFIT TYPE

DIN STANDARD CONNECTIONS

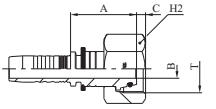
M21612

METRIC O-RING FEMALE 24° CONE HEAVY DUTY
DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT)
HEMBRA METRICA CON O-RING ASIENTO A 24° SERIE PESADA
DIN 20066 / ISO 12151-2 (TUERCA CON SEGURO)
DKOS - DIN 20066 / ISO 12151-2 (GESTIFTETE MUTTER)
FEMMINA METRICA CONO 24° O-RING SERIE PESANTE
DIN 20066 / ISO 12151-2 (DADO SPINATO)



M21613

METRIC O-RING FEMALE 24° CONE HEAVY DUTY - DIN 20066 / ISO 12151-2 (SLIP-ON NUT)
HEMBRA METRICA CON O-RING ASIENTO A 24° SERIE PESADA
DIN 20066 / ISO 12151-2 (TUERCA LIBRE)
DKOS - DIN 20066 / ISO 12151-2 (HINTERLEGTE MUTTER)
FEMMINA METRICA CONO 24° O-RING SERIE PESANTE
DIN 20066 / ISO 12151-2 (DADO PASSANTE)

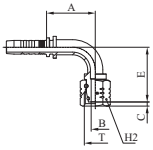


PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C			H_2
M21613-03-14	5	3/16"	- 03	M 14x1,5	6	2,5	25,5	3,5			17
M21613-03-16	5	3/16"	- 03	M 16x1,5	8	3,2	21,9	3,4			19
M21613-04-14	6	1/4"	- 04	M 14x1,5	6	3,0	23,5	3,5			17
M21613-04-16	6	1/4"	- 04	M 16x1,5	8	4,0	22,2	3,4			19
M21613-04-18	6	1/4"	- 04	M 18x1,5	10	4,0	28,0	3,0			22
M21613-04-20	6	1/4"	04	M 20x1,5	12	7,0	25,7	2,5			24
M21613-05-18	8	5/16"	- 05	M 18x1,5	10	5,5	28,0	3,0			22
M21613-05-20	8	5/16"	- 05	M 20x1,5	12	5,5	24,8	2,5			24
M21613-06-18	10	3/8"	- 06	M 18x1,5	10	7,0	28,5	3,0			22
M21613-06-20	10	3/8"	- 06	M 20x1,5	12	7,0	25,3	2,5			24
M21613-06-22	10	3/8"	- 06	M 22x1,5	14	7,0	32,6	3,0			27
M21613-06-24	10	3/8"	- 06	M 24x1,5	16	7,0	32,0	3,0			30
M21612-08-20	12	1/2"	- 08	M 20x1,5	12	7,0	29,0	2,5			24
M21612-08-22	12	1/2"	- 08	M 22x1,5	14	7,0	27,5	2,5			27
M21613-08-24	12	1/2"	- 08	M 24x1,5	16	9,3	26,7	3,0			30
M21613-08-30	12	1/2"	- 08	M 30x2	20	12,5	37,0	3,5			36
M21612-10-24	16	5/8"	- 10	M 24x1,5	16	9,3	29,5	4,0			30
M21613-10-30	16	5/8"	- 10	M 30x2	20	12,5	30,6	3,5			36
M21613-10-36	16	5/8"	- 10	M 36x2	25	15,0	40,0	4,5			41
M21612-12-24	19	3/4"	- 12	M 24x1,5	16	9,3	30,5	4,0			30
M21612-12-30	19	3/4"	- 12	M 30x2	20	12,5	33,5	2,2			36
M21613-12-36	19	3/4"	- 12	M 36x2	25	15,0	34,1	4,5			41
M21612-16-30	25	1"	- 16	M 30x2	20	12,5	34,5	2,2			36
M21612-16-36	25	1"	- 16	M 36x2	25	15,0	35,3	1,7			41
M21613-16-42	25	1"	- 16	M 42x2	30	19,8	35,4	6,3			50
M21613-20-52	31	1.1/4"	- 20	M 52x2	38	26,0	37,5	8,0			60
M21613-24-52	38	1.1/2"	- 24	M 52x2	38	26,0	49,6	8,0			60

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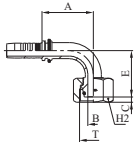
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M21692



90° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY
DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT)
HEMBRA METRICA CON O-RING CODO DE 90° ASIENTO A 24° SERIE PESADA
DIN 20066 / ISO 12151-2 (TUERCA CON SEGURO)
DKOS 90° BOGEN - DIN 20066 / ISO 12151-2 (GESTIFTETE MUTTER)
FEMMINA METRICA 90° CONO 24° O-RING SERIE PESANTE DIN 20066 / ISO 12151-2 (DADO SPINATO)

M21693



90° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY
DIN 20066 / ISO 12151-2 (SLIP-ON NUT)
HEMBRA METRICA CON O-RING CODO DE 90° ASIENTO A 24° SERIE PESADA
DIN 20066 / ISO 12151-2 (TUERCA LIBRE)
DKOS 90° BOGEN - DIN 20066 / ISO 12151-2 (HINTERLEGTE MUTTER)
FEMMINA METRICA 90° CONO 24° O-RING SERIE PESANTE DIN 20066 / ISO 12151-2 (DADO PASSANTE)

PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C	E		H_2
M21693-03-14	5	3/16″	- 03	M 14x1,5	6	3,0	26,0	3,5	30,0		17
M21693-03-16	5	3/16″	- 03	M 16x1,5	8	3,0	26,0	3,4	29,5		19
M21693-04-14	6	1/4″	- 04	M 14x1,5	6	3,0	29,5	3,5	32,5		17
M21693-04-16	6	1/4″	- 04	M 16x1,5	8	4,0	29,5	3,4	29,5		19
M21693-04-18	6	1/4″	- 04	M 18x1,5	10	4,0	29,5	3,0	31,0		22
M21693-04-20	6	1/4″	- 04	M 20x1,5	12	5,5	29,5	2,5	34,5		24
M21693-05-18	8	5/16″	- 05	M 18x1,5	10	4,0	32,0	3,0	33,5		22
M21693-05-20	8	5/16″	- 05	M 20x1,5	12	5,5	32,0	2,5	34,0		24
M21692-06-18	10	3/8″	- 06	M 18x1,5	10	4,0	35,5	3,9	42,5		22
M21693-06-20	10	3/8″	- 06	M 20x1,5	12	7,0	36,5	2,5	35,0		24
M21693-06-22	10	3/8″	- 06	M 22x1,5	14	7,0	36,5	3,0	37,0		27
M21693-06-24	10	3/8″	- 06	M 24x1,5	16	9,3	36,5	3,0	36,0		30
M21692-08-22	12	1/2″	- 08	M 22x1,5	14	7,0	44,0	2,5	48,5		27
M21693-08-24	12	1/2″	- 08	M 24x1,5	16	9,3	45,0	3,0	40,5		30
M21693-08-30	12	1/2″	- 08	M 30x2	20	12,5	45,0	3,5	44,5		36
M21692-10-24	16	5/8″	- 10	M 24x1,5	16	9,3	55,0	4,0	60,0		30
M21693-10-30	16	5/8″	- 10	M 30x2	20	12,5	51,5	3,5	57,5		36
M21692-12-30	19	3/4″	- 12	M 30x2	20	12,5	61,5	2,2	67,5		36
M21693-12-36	19	3/4″	- 12	M 36x2	25	15,0	61,5	4,5	64,5		41
M21692-16-36	25	1″	- 16	M 36x2	25	15,0	79,5	1,7	86,0		41
M21693-16-42	25	1″	- 16	M 42x2	30	19,8	79,0	6,3	74,5		50
M21693-20-52	31	1.1/4″	- 20	M 52x2	38	26,0	93,5	8,0	85,5		60
M21692-24-52	38	1.1/2″	- 24	M 52x2	38	24,7	91,5	8,8	95,5		60

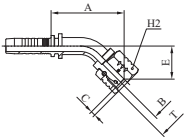
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MULTIFIT TYPE

DIN STANDARD CONNECTIONS

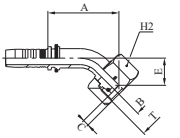
M21642

45° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY
DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT)
HEMBRA METRICA CON O-RING CODO DE 45° CONO 24° SERIE PESADA
DIN 20066 / ISO 12151-2 (TUERCA CON SEGURO)
DKOS 45° BOGEN - DIN 20066 / ISO 12151-2 (GESTIFTETE MUTTER)
FEMMINA METRICA 45° CONO 24° O-RING SERIE PESANTE
DIN 20066 / ISO 12151-2 (DADO SPINATO)



M21643

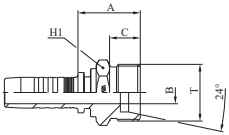
45° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY
DIN 20066 / ISO 12151-2 (SLIP-ON NUT)
HEMBRA METRICA CON O-RING CODO DE 45° ASIENTO A 24° SERIE PESADA
DIN 20066 / ISO 12151-2 (TUERCA LIBRE)
DKOS 45° BOGEN - DIN 20066 / ISO 12151-2 (HINTERLEGTE MUTTER)
FEMMINA METRICA 45° CONO 24° O-RING SERIE PESANTE
DIN 20066 / ISO 12151-2 (DADO PASSANTE)



PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C	E		H_2
M21643-04-14	6	1/4"	- 04	M 14x1,5	6	3,0	38,5	3,5	17,5		17
M21643-04-16	6	1/4"	- 04	M 16x1,5	8	4,0	36,0	3,4	15,0		19
M21643-04-18	6	1/4"	- 04	M 18x1,5	10	4,0	37,5	3,0	16,5		22
M21643-05-18	8	5/16"	- 05	M 18x1,5	10	4,0	42,5	3,0	18,0		22
M21643-05-20	8	5/16"	- 05	M 20x1,5	12	5,5	42,5	2,5	18,5		24
M21642-06-18	10	3/8"	- 06	M 18x1,5	10	4,0	49,0	3,9	23,0		22
M21643-06-20	10	3/8"	- 06	M 20x1,5	12	7,0	45,0	2,5	18,0		24
M21643-06-22	10	3/8"	- 06	M 22x1,5	14	7,0	46,5	3,0	19,5		27
M21642-08-22	12	1/2"	- 08	M 22x1,5	14	7,0	57,5	2,5	25,5		27
M21643-08-24	12	1/2"	- 08	M 24x1,5	16	9,3	52,5	3,0	20,0		30
M21643-10-30	16	5/8"	- 10	M 30x2	20	12,5	65,5	3,5	29,5		36
M21642-12-30	19	3/4"	- 12	M 30x2	20	12,5	76,5	2,2	34,0		36
M21643-12-36	19	3/4"	- 12	M 36x2	25	15,0	75,0	4,5	32,5		41
M21642-16-36	25	1"	- 16	M 36x2	25	15,0	98,0	1,7	43,5		41
M21643-16-42	25	1"	- 16	M 42x2	30	19,8	90,0	6,3	35,5		50
M21643-20-52	31	1.1/4"	- 20	M 52x2	38	26,0	103,0	8,0	39,5		60

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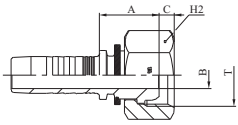
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M11710

FRENCH METRIC MALE 24° CONE SEAT MILLIMETRIC TYPE
MACHO METRICO FRANCES ASIENTO A 24° TIPO MILIMETRICO
AGFM 24° INNENKONUS (FR. REIHE MILL.)
MASCHIO METRICO 24° SERIE MILLIMETRICA FRANCESE

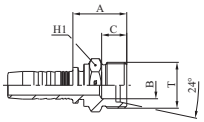
PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C		H1	
M11710-10-2718	16	5/8"	- 10	M 27x1,5	18	12,5	28,7	14,0		28	
M11710-10-2720	16	5/8"	- 10	M 27x1,5	20	12,5	28,7	14,0		28	
M11710-12-30	19	3/4"	- 12	M 30x1,5	22	15,0	30,0	14,0		30	
M11710-12-33	19	3/4"	- 12	M 33x1,5	25	15,0	31,0	14,0		34	



M21713

FRENCH METRIC FEMALE MILLIMETRIC TYPE (SLIP-ON NUT)
HEMBRA METRICA FRANCES TIPO MILIMETRICO (TUERCA LIBRE)
DKFM (FR. REIHE MILL., HINTERLEGTE MUTTER)
FEMMINA METRICA SERIE MILLIMETRICA FRANCESE (DADO PASSANTE)

PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C			H2
M21713-10-2718	16	5/8"	- 10	M 27x1,5	18	12,5	22,2	5,1			32
M21713-10-2720	16	5/8"	- 10	M 27x1,5	20	12,5	22,2	5,1			32
M21713-12-30	19	3/4"	- 12	M 30x1,5	22	15,0	25,5	4,1			36
M21713-12-33	19	3/4"	- 12	M 33x1,5	25	15,0	25,5	4,1			38
M21713-16-36	25	1"	- 16	M 36x1,5	28	19,8	27,8	4,8			41
M21713-16-39	25	1"	- 16	M 39x1,5	30	19,8	28,3	4,3			46



M11810

FRENCH METRIC MALE 24° CONE SEAT GAZ TYPE
MACHO METRICO FRANCES ASIENTO A 24° TIPO GAZ
AGF 24° INNENKONUS (FR. REIHE GAS)
MASCHIO METRICO 24° SERIE GAZ FRANCESE

PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C		H1	
M11810-05-20	8	5/16"	- 05	M 20x1,5	13,25	8,0	27,0	12,0		22	
M11810-06-20	10	3/8"	- 06	M 20x1,5	13,25	8,0	27,6	12,0		22	
M11810-06-24	10	3/8"	- 06	M 24x1,5	16,75	12,0	28,1	12,0		24	
M11810-08-24	12	1/2"	- 08	M 24x1,5	16,75	12,0	28,4	12,0		24	
M11810-10-30	16	5/8"	- 10	M 30x1,5	21,25	15,0	31,7	14,0		30	
M11810-12-36	19	3/4"	- 12	M 36x1,5	26,75	21,0	34,0	14,0		36	
M11810-16-45	25	1"	- 16	M 45x1,5	33,50	26,0	39,3	16,0		46	

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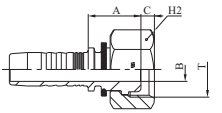
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MULTIFIT TYPE

NF STANDARD CONNECTIONS

M21813

FRENCH METRIC FEMALE GAZ TYPE (SLIP-ON NUT)
HEMBRA METRICA FRANCES TIPO GAZ (TUERCA LIBRE)
DKF (FR. REIHE GAS, HINTERLEGTE MUTTER)
FEMMINA METRICA SERIE GAZ FRANCESE (DADO PASSANTE)

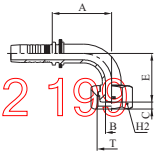


PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C			H_2
M21813-04-20	6	1/4"	- 04	M 20x1,5	13,25	7,0	22,1	4,3			24
M21813-05-20	8	5/16"	- 05	M 20x1,5	13,25	7,0	22,1	4,3			24
M21813-06-20	10	3/8"	- 06	M 20x1,5	13,25	7,0	22,6	4,3			24
M21813-06-24	10	3/8"	- 06	M 24x1,5	16,75	9,3	25,6	4,0			30
M21813-08-24	12	1/2"	- 08	M 24x1,5	16,75	9,3	26,5	4,0			30
M21813-08-30	12	1/2"	- 08	M 30x1,5	21,25	12,5	23,6	5,1			36
M21813-10-30	16	5/8"	- 10	M 30x1,5	21,25	12,5	23,7	5,1			36
M21813-12-36	19	3/4"	- 12	M 36x1,5	26,75	15,0	27,0	4,8			41
M21813-16-45	25	1"	- 16	M 45x1,5	33,50	19,8	26,8	4,6			50

M21893

90° FRENCH METRIC FEMALE GAZ TYPE (SLIP-ON NUT)
HEMBRA METRICA FRANCES CODO 90° TIPO GAZ (TUERCA LIBRE)
DKF 90° BOGEN (FR. REIHE MILL., HINTERLEGTE MUTTER)
FEMMINA METRICA 90° SERIE GAZ FRANCESE (DADO PASSANTE)

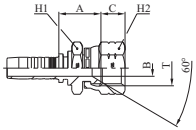
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PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C	E		H_2
M21893-05-20	8	5/16"	- 05	M 20x1,5	13,25	7,0	32,0	4,3	29,5		24
M21893-06-20	10	3/8"	- 06	M 20x1,5	13,25	7,0	36,5	4,3	33,5		24
M21893-08-24	12	1/2"	- 08	M 24x1,5	16,75	12,0	45,0	4,0	41,0		30
M21893-10-30	16	5/8"	- 10	M 30x1,5	21,25	12,5	51,5	5,1	53,5		36
M21893-12-36	19	3/4"	- 12	M 36x1,5	26,75	15,0	61,5	4,8	60,0		41

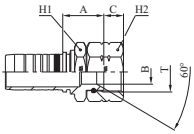
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M24011

JIS METRIC FEMALE 60° CONE SEAT (KOMATSU) JIS B 8363 (CRIMPED-BACK NUT)
HEMBRA METRICA JIS ASIENTO A 60º (KOMATSU) JIS B 8363 (TUERCA PRENSADA)
DK KOMATSU MIT 60° KONUS (NACH JIS B 8363, PRESSMUTTER)
FEMMINA METRICA GIAPPONESE CONO 60° TIPO KOMATSU JIS B 8363 (DADO PRESSATO)



M24012

JIS METRIC FEMALE 60° CONE SEAT (KOMATSU) JIS B 8363 (THRUST-WIRE NUT)
HEMBRA METRICA JIS ASIENTO A 60º (KOMATSU) JIS B 8363 (TUERCA CON SEGURO)
DK KOMATSU MIT 60° KONUS (NACH JIS B 8363, GESTIFTETE MUTTER)
FEMMINA METRICA GIAPPONESE CONO 60° TIPO KOMATSU JIS B 8363 (DADO SPINATO)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H_1	H_2
M24011-04-14	6	1/4"	- 04	M 14x1,5	4,0	23,0	10,5		19	19
M24011-04-18	6	1/4"	- 04	M 18x1,5	4,0	22,6	11,5		24	24
M24011-05-16	8	5/16"	- 05	M 16x1,5	5,5	22,5	9,3		21	21
M24011-06-14	10	3/8"	- 06	M 14x1,5	4,0	23,6	10,5		19	19
M24011-06-18	10	3/8"	- 06	M 18x1,5	7,0	23,6	11,5		24	24
M24011-08-22	12	1/2"	- 08	M 22x1,5	9,3	24,9	14,0		27	27
M24011-10-24	16	5/8"	- 10	M 24x1,5	12,5	26,7	15,1		32	32
M24011-12-30	19	3/4"	- 12	M 30x1,5	15,0	31,5	18,3		36	36
M24011-16-33	25	1"	- 16	M 33x1,5	19,8	33,3	21,3		41	41
M24011-20-36	31	1.1/4"	- 20	M 36x1,5	19,8	41,0	20,0		46	46
M24012-24-42	38	1.1/2"	- 24	M 42x1,5	26,0	44,0	18,8		55	55

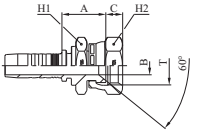
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MULTIFIT TYPE

JIS STANDARD CONNECTIONS

M23811

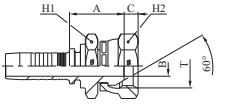
JIS BSP FEMALE 60° CONE SEAT (TOYOTA) - JIS B 8363 (CRIMPED-BACK NUT)
HEMBRA JIS BSP ASIENTO A 60° (TOYOTA) - JIS B 8363 (TUERCA PRENSADA)
DK TOYOTA MIT 60° KONUS MIT KONTERSECHSKANT (NACH JIS B 8363, PRESSMUTTER)
FEMMINA GAS GIAPPONESE CONO 60° TIPO TOYOTA JIS B 8363 (DADO PRESSATO)



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H_1	H_2
M23811-04-04	6	1/4"	- 04	1/4" - 19	4,0	18,5	8,3		19	19
M23811-06-06	10	3/8"	- 06	3/8" - 19	7,0	23,1	10,0		22	22
M23811-08-08	12	1/2"	- 08	1/2" - 14	9,3	23,0	11,5		27	27
M23811-12-12	19	3/4"	- 12	3/4" - 14	15,0	26,0	13,5		32	32
M23811-16-16	25	1"	- 16	1" - 11	19,8	30,3	14,5		38	38

M20711

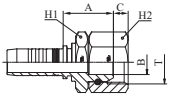
JIS BSP FEMALE 60° CONE (NISSAN) - JIS B 8363 (CRIMPED-BACK NUT)
HEMBRA JIS BSP ASIENTO A 60° (NISSAN) - JIS B 8363 (TUERCA PRENSADA)
DK NISSAN MIT 60° KONUS MIT KONTERSECHSKANT (NACH JIS B 8363, PRESSMUTTER)
FEMMINA GIAPPONESE CONO 60° TIPO NISSAN JIS B 8363 (DADO PRESSATO)



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M20712

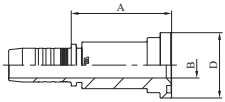
JIS BSP FEMALE 60° CONE (NISSAN) - JIS B 8363 (THRUST-WIRE NUT)
HEMBRA JIS BSP ASIENTO A 60° (NISSAN) - JIS 8363 (TUERCA CON SEGURO)
DK NISSAN MIT 60° KONUS MIT KONTERSECHSKANT (NACH JIS B 8363, GESTIFTETE MUTTER)
FEMMINA GIAPPONESE CONO 60° TIPO NISSAN JIS B 8363 (DADO SPINATO)



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H_1	H_2
M20711-04-04	6	1/4"	- 04	1/4" - 19	4,0	22,5	4,5		19	19
M20711-06-06	10	3/8"	- 06	3/8" - 19	7,0	24,6	6,4		22	22
M20711-08-08	12	1/2"	- 08	1/2" - 14	9,3	26,4	6,7		27	27
M20712-10-08	16	5/8"	- 10	1/2" - 14	9,3	28,8	6,5		27	27
M20712-10-12	16	5/8"	- 10	3/4" - 14	15,0	30,7	9,0		32	32
M20711-12-12	19	3/4"	- 12	3/4" - 14	15,0	30,0	8,9		32	32
M20712-16-16	25	1"	- 16	1" - 11	19,8	35,5	10,5		38	38

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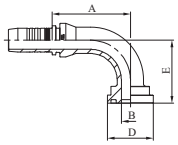
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M24111

STRAIGHT KOMATSU FLANGE
BRIDA RECTA KOMATSU
FLANSCH GERADE KOMATSU
FLANGIA DRITTA SERIE KOMATSU

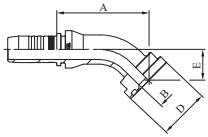
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D			
M24111-08-10	12	1/2"	- 08	5/8"	14,0	66,0	34,0			
M24111-10-10	16	5/8"	- 10	5/8"	14,0	65,7	34,0			
M24111-12-10	19	3/4"	- 12	5/8"	14,0	66,5	34,0			



M24191

90° KOMATSU FLANGE
BRIDA KOMATSU CODO DE 90°
FLANSCH 90° BOGEN KOMATSU
FLANGIA 90° SERIE KOMATSU

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	C	E		
M24191-10-10	16	5/8"	- 10	5/8"	14,0	56,0	34,0	47,5		
M24191-12-10	19	3/4"	- 12	5/8"	14,0	56,0	34,0	47,5		



M24141

45° KOMATSU FLANGE
BRIDA KOMATSU CODO DE 45°
FLANSCH 45° BOGEN KOMATSU
FLANGIA 45° SERIE KOMATSU

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	C	E		
M24141-10-10	16	5/8"	- 10	5/8"	14,0	61,0	34,0	22,0		

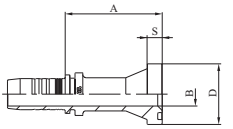
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MULTIFIT TYPE

ORIGINAL EQUIPMENT CONNECTIONS

M23911

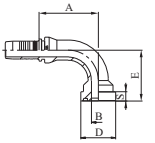
STRAIGHT SUPERCAT FLANGE
BRIDA RECTA SUPERCAT
FLANSCH GERADE SUPERCAT
FLANGIA DRITTA SERIE SUPERCAT



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	S		
M23911-12-12	19	3/4"	- 12	3/4"	15,0	74,5	41,5	14,3		
M23911-16-16	25	1"	- 16	1"	19,8	86,8	47,7	14,3		
M23911-16-20	25	1"	- 16	1.1/4"	26,0	92,3	54,0	14,3		
M23911-20-20	31	1.1/4"	- 20	1.1/4"	26,0	86,0	54,0	14,3		
M23911-24-24	38	1.1/2"	- 24	1.1/2"	32,0	94,0	63,6	14,3		

M23991

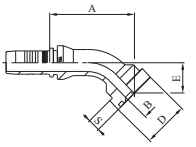
90° SUPERCAT FLANGE
BRIDA SUPERCAT CODO DE 90°
FLANSCH 90° BOGEN SUPERCAT
FLANGIA 90° SERIE SUPERCAT



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E	S	
M23991-12-12	19	3/4"	- 12	3/4"	15,0	64,5	41,5	64,5	14,3	
M23991-16-16	25	1"	- 16	1"	19,8	77,5	47,7	76,5	14,3	
M23991-16-20	25	1"	- 16	1.1/4"	26,0	75,5	54,0	80,5	14,3	
M23991-20-20	31	1.1/4"	- 20	1.1/4"	26,0	85,5	54,0	87,0	14,3	

M23941

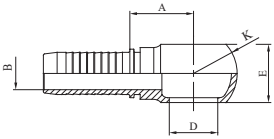
45° SUPERCAT FLANGE
BRIDA SUPERCAT CODO DE 45°
FLANSCH 45° BOGEN SUPERCAT
FLANGIA 45° SERIE SUPERCAT



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E	S	
M23941-12-12	19	3/4"	- 12	3/4"	15,0	77,0	41,5	32,0	14,3	
M23941-16-16	25	1"	- 16	1"	19,8	89,5	47,7	36,5	14,3	
M23941-16-20	25	1"	- 16	1.1/4"	26,0	92,5	54,0	40,5	14,3	
M23941-20-20	31	1.1/4"	- 20	1.1/4"	26,0	99,0	54,0	41,5	14,3	

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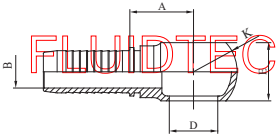
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O20310

BSP BANJO
BSP BANJO
RINGNIPPEL, ZÖLLIG (BSP GEWINDE)
OCCHIELLO GAS

PART. REF.	HOSE BORE			BSP BOLT	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E	K	
O20310-04-04	6	1/4"	- 04	1/4" - 19	4,1	22	13,3	14,0	24,0	
O20310-04-06	6	1/4"	- 04	3/8" - 19	4,1	21	16,7	18,0	28,0	
O20310-05-04	8	5/16"	- 05	1/4" - 19	5,1	22	13,3	14,0	24,0	
O20310-05-06	8	5/16"	- 05	3/8" - 19	5,1	23	16,7	18,0	28,0	
O20310-06-06	10	3/8"	- 06	3/8" - 19	7,1	24,1	16,7	18,0	28,0	
O20310-06-08	10	3/8"	- 06	1/2" - 14	7,1	27,1	21,2	22,0	35,0	
O20310-08-08	12	1/2"	- 08	1/2" - 14	9,6	27,5	21,2	22,0	35,0	
O20310-10-10	16	5/8"	- 10	5/8" - 14	12,1	28,2	23,0	23,5	38,0	
O20310-12-12	19	3/4"	- 12	3/4" - 14	15,0	36,5	26,7	29,0	45,0	
O20310-16-16	25	1"	- 16	1" - 11	20,0	44,5	33,4	36,0	54,0	



FLUIDTECHNIK S.R.L. 0723 382 199

O20910

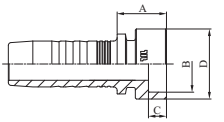
METRIC BANJO - DIN 7642
BANJO METRICO - DIN 7642
RINGNIPPEL, METRISCH - DIN 7642
OCCHIELLO METRICO - DIN 7642

PART. REF.	HOSE BORE			MATRIC BOLT	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E	K	
O20910-04-12	6	1/4"	- 04	M12 x 1,5	4,1	21	12,0	12,0	20,0	
O20910-04-14	6	1/4"	- 04	M14 x 1,5	4,1	21,5	14,0	14,0	24,0	
O20910-05-14	8	5/16"	- 05	M14 x 1,5	5,1	23,1	14,0	14,0	24,0	
O20910-06-14	10	3/8"	- 06	M14 x 1,5	7,1	24,1	14,0	14,0	24,0	
O20910-06-16	10	3/8"	- 06	M16 x 1,5	7,1	24,1	16,0	18,0	28,0	
O20910-06-18	10	3/8"	- 06	M18 x 1,5	7,1	27,1	18,0	20,0	32,0	
O20910-08-18	12	1/2"	- 08	M18 x 1,5	9,6	27,5	18,0	20,0	32,0	
O20910-08-22	12	1/2"	- 08	M22 x 1,5	9,6	27,5	22,0	22,0	35,0	
O20910-10-22	16	5/8"	- 10	M22 x 1,5	12,1	28,2	22,0	23,5	38,0	
O20910-12-26	19	3/4"	- 12	M26 x 1,5	15,0	36,5	26,0	29,0	45,0	

FLUIDTECHNIK S.R.L.0723 382 199

M..IP

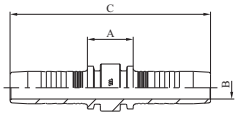
BRAZING TAIL
ESPIGA SOLDABLE (SALVAVIDAS)
EINLÖTNIPPEL
INSERTO A SALDARE



PART. REF.	HOSE BORE				DIMENSIONS mm					
	DN	inch	Size		B	A	C	D		
M03IP06	5	3/16"	- 03		6,0	11,5	5,0	10,0		
M04IP08	6	1/4"	- 04		8,0	13,0	5,0	12,0		
M05IP10	8	5/16"	- 05		10,0	13,5	6,0	14,0		
M06IP12	10	3/8"	- 06		12,0	13,5	6,0	16,0		
M06IP14	10	3/8"	- 06		14,0	13,5	6,0	18,0		
M08IP15	12	1/2"	- 08		15,0	14,0	6,0	20,0		
M08IP16	12	1/2"	- 08		16,0	14,0	6,0	20,0		
M10IP18	16	5/8"	- 10		18,0	15,0	7,0	23,0		
M12IP22	19	3/4"	- 12		22,0	16,0	7,0	26,0		
M16IP28	25	1"	- 16		28,0	18,5	8,0	34,0		
M20IP35	31	1.1/4"	- 20		35,0	21,5	9,0	40,0		
M24IP40	38	1.1/2"	- 24		40,0	21,5	9,0	50,0		
M32IP50	51	2"	- 32		50,0	23,0	10,0	60,0		
M40IP60	63	2.1/2"	- 40		60,0	22,0	10,0	73,0		
M48IP70	76	3"	- 48		70,0	38,0	10,0	89,0		

FLUIDTECHNIK S.R.L. 0723 382 199

FLUIDTECHNIK S.R.L.0723 382 199



M10050

DOUBLE CONNECTOR
CONECTOR DOBLE
SCHLAUCHVERBINDER - DOPPELNIPPEL
DOPPIO INSERTO

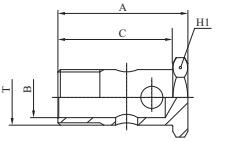
PART. REF.	HOSE BORE				DIMENSIONS mm					
	DN	inch	Size		B	A	C			
M10050-03-03	5	3/16"	- 03		3,0	15,5	58,5			
M10050-04-04	6	1/4"	- 04		4,0	14,0	69,0			
M10050-05-05	8	5/16"	- 05		5,5	14,0	70,0			
M10050-06-06	10	3/8"	- 06		7,0	14,7	73,5			
M10050-08-08	12	1/2"	- 08		9,3	15,8	78,0			
M10050-10-10	16	5/8"	- 10		12,5	15,4	84,0			
M10050-12-12	19	3/4"	- 12		15,0	18,5	91,5			
M10050-16-16	25	1"	- 16		19,8	22,6	119,0			
M10050-20-20	31	1.1/4"	- 20		26,0	23,0	128,0			
M10050-24-24	38	1.1/2"	- 24		32,0	23,5	147,5			

FLUIDTECHNIK S.R.L. 0723 382 199

FLUIDTECHNIK S.R.L.0723 382 199

O80210

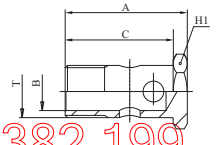
BSP BOLT
TORNILLO PASADOR BSP
HOHLSCHRAUBE ZÖLLIG
VITE GAS FORATA



PART. REF.	HOSE BORE			DIMENSIONS mm					
				T	B	A	C		H_1
O80210-04				1/4" - 19	7,0	32,0	25,0		17
O80210-06				3/8" - 19	9,0	38,0	31,0		22
O80210-08				1/2" - 14	13,0	46,0	38,0		27
O80210-10				5/8" - 14	13,5	49,0	41,0		30
O80210-12				3/4" - 14	17,0	56,0	46,0		32
O80210-16				1" - 11	22,0	69,0	58,0		41

O80810

METRIC BOLT - DIN 7643
TORNILLO PASADOR METRICO - DIN 7643
HOHLSCHRAUBE - METRISCH - DIN 7643
VITE METRICA FORATA - DIN 7643



FLUIDTECHNIK S.R.L. 0723 382 199

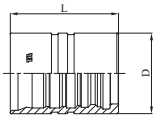
PART. REF.	HOSE BORE			DIMENSIONS mm					
				T	B	A	C		H_1
O80810-12				M12 x 1,5	6,0	28,0	23,0		17
O80810-14				M14 x 1,5	8,0	32,0	25,0		19
O80810-16				M16 x 1,5	9,0	38,0	31,0		22
O80810-18				M18 x 1,5	11,0	44,0	36,0		24
O80810-22				M22 x 1,5	13,0	46,0	38,0		27
O80810-26				M26 x 1,5	17,0	56,0	46,0		32

FLUIDTECHNIK S.R.L.0723 382 199

INTERLOCK PLUS TYPE

FERRULE

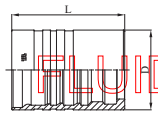
M01500



DOUBLE SKIVE FERRULE FOR HEAVY DUTY SPIRAL HOSES (4 PLY)
CASQUILLOS DE PELADO INTERNO Y EXTERNO PARA MANGUERAS CON REFUERZO EN ESPIRAL (4 ESPIRALES)
PRESSFASSUNG INNEN- UND AUSSENSCHÄLUNG FÜR HÖCHSTDRUCKSCHLÄUCHE (4-LAGIG)
GHIERA PER TUBI SPIRALATI CON DOPPIA PELATURA (4 SPIRALI)

PART. REF.	HOSE BORE				DIMENSIONS mm					
	DN	inch	Size		D	L				
M01500-10	16	5/8"	- 10		35,0	40,9				
M01500-12	19	3/4"	- 12		40,0	51,4				
M01500-16	25	1"	- 16		48,0	64,5				
M01500-20	31	1.1/4"	- 20		57,0	84,0				
M01500-24	38	1.1/2"	- 24		64,3	94,0				
M01500-32	51	2"	- 32		83,5	107,0				

M01600

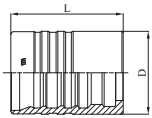


DOUBLE SKIVE FERRULE FOR HEAVY DUTY SPIRAL HOSES (6 PLY)
CASQUILLOS DE PELADO INTERNO Y EXTERNO PARA MANGUERAS CON REFUERZO EN ESPIRAL (6 ESPIRALES)
PRESSFASSUNG INNEN- UND AUSSENSCHÄLUNG FÜR HÖCHSTDRUCKSCHLÄUCHE (6-LAGIG)
GHIERA PER TUBI SPIRALATI CON DOPPIA PELATURA (6 SPIRALI)

FLUIDTECHNIK S.R.L. 0723 382 199

PART. REF.	HOSE BORE				DIMENSIONS mm					
	DN	inch	Size		D	L				
M01600-20	31	1.1/4"	- 20		60,0	85,0				
M01600-24	38	1.1/2"	- 24		68,0	96,0				

M01800



DOUBLE SKIVE FERRULE FOR EXTRA DUTY SPIRAL HOSES (6 PLY)
CASQUILLOS DE PELADO INTERNO Y EXTERNO PARA MANGUERAS CON REFUERZO EN ESPIRAL (6 ESPIRALES)
PRESSFASSUNG FÜR INNEN- UND AUSSENSCHÄLUNG FÜR SPEZIAL-SPIRALSCHLÄUCHE (6-LAGIG)
GHIERA A PELATURA INTERNA/ESTERNA PER TUBI SPIRALATI (6 SPIRALI) PER APPLICAZIONI ESTREMAMENTE SEVERE

PART. REF.	HOSE BORE				DIMENSIONS mm					
	DN	inch	Size		D	L				
M01800-20	31	1.1/4"	- 20		64,5	88,2				
M01800-32	51	2"	- 32		86,5	108,0				

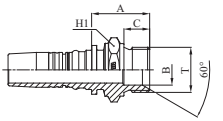
FLUIDTECHNIK S.R.L.0723 382 199

INTERLOCK PLUS TYPE

BS STANDARD CONNECTIONS

M30510

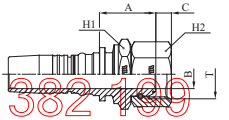
BSP MALE PARALLEL 60° CONE SEAT - BS5200 / ISO 8434-6
MACHO BSP PARALELO ASIENTO A 60° - BS5200 / ISO 8434-6
AGR 60° INNENKONUS - BS5200/ISO 8464-6
MASCHIO GAS CILINDRICO CONO 60° - BS5200 / ISO 8434-6



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H_1	
M30510-12-12	19	3/4"	- 12	3/4" - 14	17,0	36,9	16,0		32	
M30510-12-16	19	3/4"	- 12	1" - 11	22,5	43,0	19,0		41	
M30510-16-16	25	1"	- 16	1" - 11	22,5	42,8	19,0		41	
M30510-16-20	25	1"	- 16	1.1/4" - 11	29,0	47,5	20,0		50	
M30510-20-20	31	1.1/4"	- 20	1.1/4" - 11	28,5	50,5	20,0		50	
M30510-24-24	38	1.1/2"	- 24	1.1/2" - 11	33,5	54,4	22,0		55	
M30510-32-32	51	2"	- 32	2" - 11	42,0	57,8	25,0		70	

M40812

BSP O-RING FEMALE 60° CONE - BS5200 / ISO 12151-6 (THRUST-WIRE NUT)
HEMBRA BSP CON O-RING ASIENTO A 60° - BS5200 / ISO 12151-6 (TUERCA CON SEGURO)
DKOR 60° KONUS MIT O-RING - BS5200 / ISO 12151-6 (STIFTMUTTER)
FEMMINA GAS CONO 60° O-RING - BS5200 / ISO 12151-6 (DADO SPINATO)



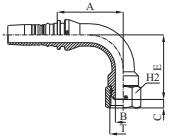
FLUIDTECHNIK S.R.L. 0723 382 199

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H_1	H_2
M40812-12-12	19	3/4"	- 12	3/4" - 14	14,5	38,8	8,5		32	32
M40812-12-16	19	3/4"	- 12	1" - 11	19,0	40,0	10,6		32	41
M40812-16-12	25	1"	- 16	3/4" - 14	15,0	40,0	8,5		38	32
M40812-16-16	25	1"	- 16	1" - 11	19,5	44,4	10,6		41	41
M40812-16-20	25	1"	- 16	1.1/4" - 11	26,0	43,5	10,1		41	50
M40812-20-16	31	1.1/4"	- 20	1" - 11	19,0	50,0	10,6		50	41
M40812-20-20	31	1.1/4"	- 20	1.1/4" - 11	25,0	52,4	10,1		50	50
M40812-20-24	31	1.1/4"	- 20	1.1/2" - 11	32,0	51,5	12,5		50	60
M40812-24-20	38	1.1/2"	- 24	1.1/4" - 11	26,0	52,5	10,1		60	50
M40812-24-24	38	1.1/2"	- 24	1.1/2" - 11	32,0	51,3	12,5		60	60
M40812-32-32	51	2"	- 32	2" - 11	42,0	51,6	16,1		70	70

S.C. FLUIDTECHNIK s.r.l.
Hidraulica & Pneumatica
fluidtechnik@gmail.com

FLUIDTECHNIK S.R.L.0723 382 199

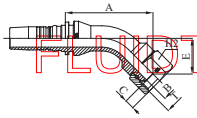
M40892



90° BSP O-RING FEMALE SWEPT ELBOW 60° CONE BS5200 / ISO 12151-6 (THRUST-WIRE NUT)
HEMBRA BSP CON O-RING CODO DE 90° ASIENTO A 60°
BS5200 / ISO 12151-6 (TUERCA CON SEGURO)
DKOR 90° BOGEN 60° KONUS MIT O-RING - BS5200 / ISO 12151-6 (STIFTMUTTER)
FEMMINA GAS 90° CONO 60° O-RING - BS5200 / ISO 12151-6 (DADO SPINATO)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H2
M40892-12-12	19	3/4"	- 12	3/4" - 14	14,5	72,4	8,5	70,0		32
M40892-12-16	19	3/4"	- 12	1" - 11	19,0	72,0	10,6	71,0		41
M40892-16-16	25	1"	- 16	1" - 11	19,5	82,2	10,6	80,5		41
M40892-16-20	31	1.1/4"	- 20	1.1/4" - 11	25,0	95,0	10,1	78,5		50
M40892-20-20	31	1.1/4"	- 20	1.1/4" - 11	25,0	98,5	10,1	98,0		50
M40892-24-24	38	1.1/2"	- 24	1.1/2" - 11	32,0	111,5	12,5	109,0		60
M40892-32-32	51	2"	- 32	2" - 11	42,0	143,2	16,1	140,5		70

M40842



45° BSP O-RING FEMALE SWEPT ELBOW 60° CONE BS5200 / ISO 12151-6 (THRUST-WIRE NUT)
HEMBRA BSP CON O-RING CODO DE 45° ASIENTO A 60°
BS5200 / ISO 12151-6 (TUERCA CON SEGURO)
DKOR 45° BOGEN 60° KONUS MIT O-RING - BS5200 / ISO 12151-6 (STIFTMUTTER)
FEMMINA GAS 45° CONO 60° O-RING - BS5200 / ISO 12151-6 (DADO SPINATO)

FLUIDTECHNIK S.R.L. 0723 382 199

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H2
M40842-12-12	19	3/4"	- 12	3/4" - 14	14,5	88,0	8,5	35,0		32
M40842-12-16	19	3/4"	- 12	1" - 11	19,0	89,5	10,6	36,5		41
M40842-16-12	25	1"	- 16	3/4" - 14	15,0	105,5	8,5	36,0		32
M40842-16-16	25	1"	- 16	1" - 11	19,5	97,0	10,6	40,0		41
M40842-16-20	25	1"	- 16	1.1/4" - 11	26,0	108,5	10,1	38,0		50
M40842-20-16	31	1.1/4"	- 20	1"-11	19,0	118,0	10,6	47,5		41
M40842-20-20	31	1.1/4"	- 20	1.1/4" - 11	25,0	120,0	10,1	49,5		50
M40842-20-24	31	1.1/4"	- 20	1.1/2" - 11	32,0	114,5	12,5	40,0		60
M40842-24-24	38	1.1/2"	- 24	1.1/2" - 11	32,0	126,5	12,5	50,0		60
M40842-32-32	51	2"	- 32	2" - 11	42,0	162,6	16,1	66,5		70

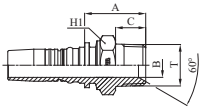
FLUIDTECHNIK S.R.L.0723 382 199

INTERLOCK PLUS TYPE

SAE STANDARD CONNECTIONS

M32810

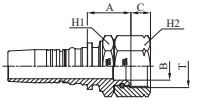
NPTF MALE 60° CONE SEAT - SAE J516/J514
MACHO NPTF ASIENTO A 60° - SAE J516/J514
AGN 60° INNENKONUS (NPTF-GEWINDE) - SAE J516/J514
MASCHIO NPTF CONO 60° - SAE J516/J514



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H_1	
M32810-12-12	19	3/4"	- 12	3/4" - 14	16,0	42,9	19,2		32	
M32810-16-16	25	1"	- 16	1" - 11,5	19,5	49,3	24,2		41	
M32810-20-20	31	1.1/4"	- 20	1.1/4" - 11,5	26,0	61,0	25,0		46	
M32810-24-24	38	1.1/2"	- 24	1.1/2" - 11,5	32,0	62,6	26,0		50	
M32810-32-32	51	2"	- 32	2" - 11,5	42,0	66,8	26,5		70	

M42512

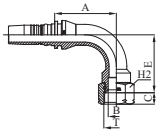
JIC FEMALE 37° CONE SEAT - SAE J516 / ISO 12151-5 (THRUST-WIRE NUT)
HEMBRA JIC ASIENTO A 37° - SAE J516 / ISO 12151-5 (TUERCA CON SEGURO)
JDKJ 37° KONUS - SAE J516 / ISO 12151-5 (KONTERSECHSKANT UND STIFTMUTTER)
FEMMINA JIC CONO 37° - SAE J516 / ISO 12151-5 (DADO SPINATO)



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H_1	H_2
M42512-12-12	19	3/4"	- 12	1.1/16" - 12	15,0	36,2	14,2		32	32
M42512-12-16	19	3/4"	- 16	1.5/16" - 12	21,7	33,0	15,2		41	41
M42512-16-16	25	1"	- 16	1.5/16" - 12	21,7	40,7	15,2		41	41
M42512-16-20	25	1"	- 16	1.5/8" - 12	26,0	50,0	16,2		50	50
M42512-20-20	31	1.1/4"	- 20	1.5/8" - 12	26,0	51,4	16,2		50	50
M42512-20-24	31	1.1/4"	- 20	1.7/8" - 12	30,5	54,0	18,8		55	60
M42512-24-24	38	1.1/2"	- 24	1.7/8" - 12	31,0	54,5	18,8		55	60
M42512-32-32	51	2"	- 32	2.1/2" - 12	42,0	54,2	24,0		70	75

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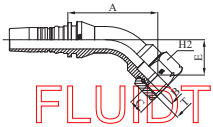
FLUIDTECHNIK S.R.L.0723 382 199



M42592

90° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5 (THRUST-WIRE NUT)
HEMBRA JIC CODO DE 90° ASIENTO A 37° - SAE J516 / ISO 12151-5 (TUERCA CON SEGURO)
JDKJ 90° BOGEN, 37° KONUS - SAE J516 / ISO 12151-5 (STIFTMUTTER)
FEMMINA JIC 90° CONO 37° - SAE J516 / ISO 12151-5 (DADO SPINATO)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H2
M42592-12-12	19	3/4"	- 12	1.1/16" - 12	15,0	72,4	14,2	66,0		32
M42592-12-16	19	3/4"	- 12	1.5/16" - 12	21,7	72,5	15,2	71,5		41
M42592-16-16	25	1"	- 16	1.5/16" - 12	21,7	82,3	15,2	77,5		41
M42592-20-20	31	1.1/4"	- 20	1.5/8" - 12	26,0	98,5	16,2	92,0		50
M42592-20-24	31	1.1/4"	- 20	1.7/8" - 12	32,0	101,5	18,8	108,0		60
M42592-24-24	38	1.1/2"	- 24	1.7/8" - 12	32,0	115,5	18,8	106,0		60
M42592-32-32	51	2"	- 32	2.1/2" - 12	42,0	144,7	24,0	137,0		75



M42542

45° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5 (THRUST-WIRE NUT)
HEMBRA JIC CODO DE 45° ASIENTO A 37° - SAE J516 / ISO 12151-5 (TUERCA CON SEGURO)
DKJ 45° BOGEN 37° KONUS - SAE J516 / ISO 12151-5 (STIFTMUTTER)
FEMMINA JIC 45° CONO 37° SAE J516 / ISO 12151-5 (DADO SPINATO)

FLUIDTECHNIK S.R.L. 0723 382 199

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H2
M42542-12-12	19	3/4"	- 12	1.1/16" - 12	15,0	86,0	14,2	33,0		32
M42542-16-16	25	1"	- 16	1.5/16" - 12	21,7	95,0	15,2	37,0		41
M42542-20-20	31	1.1/4"	- 20	1.5/8" - 12	26,0	115,5	16,2	45,0		50
M42542-24-24	38	1.1/2"	- 24	1.7/8" - 12	32,0	126,5	18,8	50,0		60
M42542-32-32	51	2"	- 32	2.1/2" - 12	42,0	161,0	24,0	63,5		75

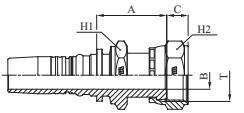
FLUIDTECHNIK S.R.L.0723 382 199

INTERLOCK PLUS TYPE

SAE STANDARD CONNECTIONS

M42411

ORFS FEMALE - SAE J516 / ISO 12151-1 PULLBACK TYPE (CRIMPED BACK-NUT)
HEMBRA ORFS - SAE J516 / ISO 12151-1 CUELLO LARGO (TUERCA PRENSADA)
ORFS IG - SAE J516 / ISO12151-1 RÜCKZUGSAUSFÜHRUNG (VERPRESSTE MUTTER)
FEMMINA ORFS - SAE J516 / ISO 12151-1 VERSIONE RETRAIBILE (DADO PRESSATO)

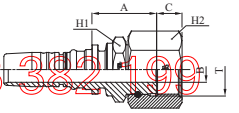


PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H_1	H_2
M42411-10-10	16	5/8"	- 10	1" - 14	11,5	39,5	13,5		24	30
M42411-12-12	19	3/4"	- 12	1.3/16" - 12	14,5	45,9	14,5		32	36
M42411-12-16	19	3/4"	- 12	1.7/16" - 12	19,0	46,5	15,0		36	41
M42411-16-12	25	1"	- 16	1.3/16" - 12	14,5	47,5	14,5		38	36
M42411-16-16	25	1"	- 16	1.7/16" - 12	19,5	48,5	15,0		41	41
M42411-16-20	25	1"	- 16	1.11/16" - 12	24,0	48,5	14,8		41	50
M42411-20-20	31	1.1/4"	- 20	1.11/16" - 12	25,0	54,8	14,8		50	50
M42411-24-24	38	1.1/2"	- 24	2" - 12	31,0	57,8	15,8		60	60

M42412

ORFS FEMALE - SAE J516 / ISO 12151-1 HEAVY TYPE (THRUST-WIRE NUT)
HEMBRA ORFS - SAE J516 / ISO 12151-1 SERIE PESADA (TUERCA CON SEGURO)
ORFS MUTTER GESTIFTET - SAE J516 - ISO 12151-1 SCHWERE REIHE (THRUST-WIRE NUT)
FEMMINA ORFS - SAE J516 / ISO 12151-1 SERIE PESANTE (DADO SPINATO)

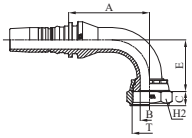
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PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H_1	H_2
M42412-12-12	19	3/4"	- 12	1.3/16" - 12	14,5	37,0	14,0		32	36
M42412-16-16	25	1"	- 16	1.7/16" - 12	19,5	42,0	15,0		41	46
M42412-20-20	31	1.1/4"	- 20	1.11/16" - 12	25,0	52,0	15,0		50	55
M42412-24-24	38	1.1/2"	- 24	2" - 12	31,0	55,0	15,0		60	60

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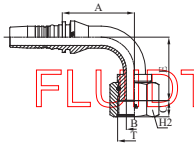
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M42491

90° ORFS FEMALE SWEPT ELBOW - SAE J516 / ISO 12151-1 (CRIMPED BACK-NUT)
HEMBRA ORFS CODO 90° - SAE J516 / ISO 12151-1 (TUERCA PRENSADA)
90° ORFS BOGEN (VERPRESSTE MUTTER) - SAE J516 / ISO 12151-1
FEMMINA ORFS 90° - SAE J516 / ISO 12151-1 (DADO PRESSATO)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H2
M42491-10-12	16	5/8"	- 10	1.3/16" - 12	14,5	51,0	14,5	47,0		36
M42491-12-12	19	3/4"	- 12	1.3/16" - 12	14,5	65,5	14,5	48,0		36
M42491-12-12109	19	3/4"	- 12	1.3/16" - 12	14,5	65,5	14,5	109,0		36
M42491-12-16	19	3/4"	- 12	1.7/16" - 12	19,5	70,5	15,0	53,0		41
M42491-16-16	25	1"	- 16	1.7/16" - 12	19,5	85,0	15,0	54,0		41
M42491-16-16128	25	1"	- 16	1.7/16" - 12	19,5	85,0	15,0	128,0		41
M42491-16-20	25	1"	- 16	1.11/16" - 12	24,0	85,0	14,8	58,0		50
M42491-20-20	31	1.1/4"	- 20	1.11/16" - 12	25,0	98,5	14,8	65,0		50
M42491-24-24	38	1.1/2"	- 24	2" - 12	31,0	115,7	15,8	79,5		60



M42492

90° ORFS FEMALE SWEPT ELBOW - SAE J516 / ISO 12151-1 HEAVY TYPE (THRUST-WIRE-NUT)
HEMBRA ORFS CODO 90° - SAE J516 / ISO 12151-1 SERIE PESADA (TUERCA CON SEGURO)
90° ORFS BOGEN - SCHWERE REIHE SAE J516 / ISO 12151-1 (GESHFTETE MUTTER)
FEMMINA ORFS 90° - SAE J516 / ISO 12151-1 SERIE PESANTE (DADO SPINATO)

FLUIDTECHNIK S.R.L. 0723 382 199

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H2
M42492-12-12	19	3/4"	- 12	1.3/16" - 12	14,5	72,5	14,0	70,5		36
M42492-16-16	25	1"	- 12	1.7/16" - 12	19,5	82,5	15,0	84,5		46
M42492-20-20	31	1.1/4"	- 20	1.11/16" - 12	25,0	98,5	15,0	98,0		55
M42492-24-24	38	1.1/2"	- 24	2" - 12	31,0	111,5	15,0	109,0		60

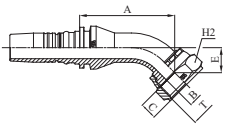
FLUIDTECHNIK S.R.L.0723 382 199

INTERLOCK PLUS TYPE

SAE STANDARD CONNECTIONS

M42441

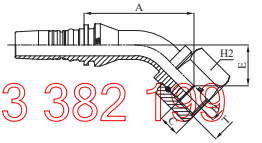
45° ORFS FEMALE SWEPT ELBOW - SAE J516 / ISO 12151-1 (CRIMPED BACK-NUT)
HEMBRA ORFS CODO DE 45° CARA PLANA - SAE J516 / ISO 12151-1 (TUERCA PRENSADA)
DK ORFS 45° - SAE J516 / ISO 12151-1 (PRESSMUTTER)
FEMMINA ORFS 45° - SAE J516 / ISO 12151-1 (DADO PRESSATO)



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H_2
M42441-10-12	16	5/8"	- 10	1.3/16" - 12	14,5	55,5	14,5	21,5		36
M42441-12-12	19	3/4"	- 12	1.3/16" - 12	14,5	69,0	14,5	21,5		36
M42441-12-16	19	3/4"	- 12	1.7/16" - 12	19,0	77,5	15,0	25,0		41
M42441-16-16	25	1"	- 16	1.7/16" - 12	19,5	84,0	15,0	22,0		41
M42441-20-20	31	1.1/4"	- 20	1.11/16" - 12	25,0	96,5	14,8	26,0		50
M42441-24-24	38	1.1/2"	- 24	2" - 12	31,0	112,0	15,8	31,5		60

M42442

45° ORFS FEMALE SWEPT ELBOW
SAE J516 / ISO 12151-1 HEAVY TYPE (THRUST-WIRE-NUT)
HEMBRA ORFS CODO DE 45°
SAE J516 / ISO 12151-1 SERIE PESADA (TUERCA CON SEGURO)
45° ORFS BOGEN (GEHÄRTETE MUTTER) SAE J516 / ISO 12151-1
FEMMINA ORFS 45° - SAE J516 / ISO 12151-1 SERIE PESANTE (DADO SPINATO)



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PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	C	E		H_2
M42442-12-12	19	3/4"	- 12	1.3/16" - 12	14,5	89,0	14,0	36,0		36
M42442-16-16	25	1"	- 16	1.7/16" - 12	19,5	100,0	15,0	42,5		46
M42442-20-20	31	1.1/4"	- 20	1.11/16" - 12	25,0	119,5	15,0	49,5		55
M42442-24-24	38	1.1/2"	- 24	2" - 12	31,0	128,5	15,0	52,0		60

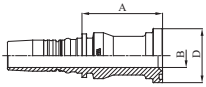
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INTERLOCK PLUS TYPE

SAE STANDARD CONNECTIONS

M43310

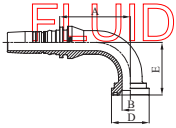


ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3
BRIDA ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3
SAE FLANSCH GERADE - SAE J516 / ISO 12151-3
FLANGIA ISO/SAE CODE 61 - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D			
M43310-10-16	16	5/8"	- 10	1"	20,0	63,5	44,6			
M43310-12-12	19	3/4"	- 12	3/4"	16,0	59,9	38,0			
M43310-12-16	19	3/4"	- 12	1"	20,0	65,7	44,6			
M43310-16-12	25	1"	- 16	3/4"	16,0	67,0	38,0			
M43310-16-16	25	1"	- 16	1"	20,0	66,7	44,6			
M43310-16-20	25	1"	- 16	1.1/4"	26,0	73,0	51,0			
M43310-20-20	31	1.1/4"	- 20	1.1/4"	26,0	75,0	51,0			
M43310-20-24	31	1.1/4"	- 20	1.1/2"	32,0	80,0	60,5			
M43310-24-24	38	1.1/2"	- 24	1.1/2"	32,0	80,6	60,5			
M43310-24-32	38	1.1/2"	- 24	2"	42,0	88,3	71,6			
M43310-32-32	51	2"	- 32	2"	42,0	82,8	71,6			

FLUIDTECHNIK S.R.L. 0723 382 199

M43390



90° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3
BRIDA CODO 90° ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3
SAE FLANSCH 90° BOGEN - SAE J516 / ISO 12151-3
FLANGIA 90° ISO/SAE CODE 61 - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M43390-10-16	16	5/8"	- 10	1"	20,0	70,5	44,6	52,0		
M43390-12-12	19	3/4"	- 12	3/4"	16,0	71,8	38,0	52,0		
M43390-12-16	19	3/4"	- 12	1"	20,0	72,4	44,6	52,0		
M43390-16-16	25	1"	- 16	1"	20,0	83,4	44,6	62,0		
M43390-16-20	25	1"	- 16	1.1/4"	26,0	83,4	51,0	62,0		
M43390-20-16	31	1.1/4"	- 20	1"	19,8	96,5	44,6	66,0		
M43390-20-20	31	1.1/4"	- 20	1.1/4"	26,0	99,0	51,0	70,0		
M43390-20-24	31	1.1/4"	- 20	1.1/2"	32,0	98,7	60,5	72,0		
M43390-24-24	38	1.1/2"	- 24	1.1/2"	32,0	111,6	60,5	84,0		
M43390-24-32	38	1.1/2"	- 24	2"	42,0	111,5	71,6	84,0		
M43390-32-32	51	2"	- 32	2"	42,0	133,7	71,6	99,0		

FLUIDTECHNIK S.R.L.0723 382 199

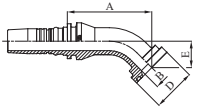
INTERLOCK PLUS TYPE

MF2000®

SAE STANDARD CONNECTIONS

M43340

45° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3
BRIDA CODO 45° ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3
SAE FLANSCH 45° BOGEN - SAE J516 / ISO 12151-3
FLANGIA 45° ISO/SAE CODE 61 - SAE J516 / ISO 12151-3

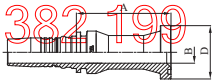


PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M43340-12-12	19	3/4"	- 12	3/4"	16,0	75,6	38,0	23,0		
M43340-12-16	19	3/4"	- 12	1"	20,0	76,0	44,6	23,0		
M43340-16-16	25	1"	- 16	1"	20,0	87,0	44,6	27,3		
M43340-16-20	25	1"	- 16	1.1/4"	26,0	87,5	51,0	27,3		
M43340-20-20	31	1.1/4"	- 20	1.1/4"	26,0	100,5	51,0	29,5		
M43340-20-24	31	1.1/4"	- 20	1.1/2"	32,0	101,5	60,5	31,0		
M43340-24-24	38	1.1/2"	- 24	1.1/2"	32,0	111,0	60,5	34,5		
M43340-24-32	38	1.1/2"	- 24	2"	42,0	113,0	71,6	34,5		
M43340-32-32	51	2"	- 32	2"	42,0	128,7	71,6	39,0		

M43610

ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3
BRIDA ISO/SAE CODIGO 62 - SAE J516 / ISO 12151-3
ISO/SAE CODE 62 FLANSCH - SAE J516 / ISO 12151-3
FLANGIA ISO/SAE CODE 62 - SAE J516 / ISO 12151-3

FLUIDTECHNIK S.R.L. 0723 382 199

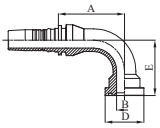


PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D			
M43610-10-12	16	5/8"	- 10	3/4"	16,0	64,0	41,4			
M43610-10-16	16	5/8"	- 10	1"	20,0	81,5	47,7			
M43610-12-12	19	3/4"	- 12	3/4"	16,0	71,4	41,4			
M43610-12-16	19	3/4"	- 12	1"	20,0	83,4	47,7			
M43610-16-12	25	1"	- 16	3/4"	16,0	80,3	41,4			
M43610-16-16	25	1"	- 16	1"	20,0	84,7	47,7			
M43610-16-20	25	1"	- 16	1.1/4"	26,0	89,0	54,2			
M43610-20-16	31	1.1/4"	- 20	1"	20,0	87,2	47,7			
M43610-20-20	31	1.1/4"	- 20	1.1/4"	26,0	91,1	54,2			
M43610-20-24	31	1.1/4"	- 20	1.1/2"	32,0	97,2	63,7			
M43610-24-20	38	1.1/2"	- 24	1.1/4"	26,0	101,2	54,2			
M43610-24-24	38	1.1/2"	- 24	1.1/2"	32,0	97,7	63,7			
M43610-24-32	38	1.1/2"	- 24	2"	42,0	112,8	79,6			
M43610-32-24	51	2"	- 32	1.1/2"	32,0	117,0	63,7			
M43610-32-32	51	2"	- 32	2"	42,0	112,8	79,6			

FLUIDTECHNIK S.R.L.0723 382 199

INTERLOCK PLUS TYPE

SAE STANDARD CONNECTIONS

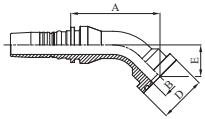


M43690

90° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3
BRIDA CODO 90° ISO/SAE CODIGO 62 - SAE J516 / ISO 12151-3
90° ISO/SAE CODE 62 FLANSCH - SAE J516 / ISO 12151-3
FLANGIA 90° ISO/SAE CODE 62 - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M43690-10-12	16	5/8"	- 10	3/4"	16,0	57,5	41,4	60,5		
M43690-12-12	19	3/4"	- 12	3/4"	16,0	72,4	41,4	59,0		
M43690-12-16	19	3/4"	- 12	1"	20,0	72,4	47,7	65,0		
M43690-16-12	25	1"	- 16	3/4"	16,0	81,3	41,4	62,0		
M43690-16-16	25	1"	- 16	1"	20,0	81,1	47,7	68,0		
M43690-16-20	25	1"	- 16	1.1/4"	26,0	78,6	54,2	76,0		
M43690-20-16	31	1.1/4"	- 20	1"	20,0	98,5	47,7	79,0		
M43690-20-20	31	1.1/4"	- 20	1.1/4"	26,0	98,5	54,2	81,0		
M43690-20-24	31	1.1/4"	- 20	1.1/2"	32,0	98,5	63,7	91,5		
M43690-24-20	38	1.1/2"	- 24	1.1/4"	26,0	111,2	54,2	91,0		
M43690-24-24	38	1.1/2"	- 24	1.1/2"	32,0	112,5	63,7	94,5		
M43690-24-32	38	1.1/2"	- 24	2"	42,0	112,5	79,6	110,5		
M43690-32-32	51	2"	- 32	2"	42,0	140,7	79,6	132,0		

FLUIDTECHNIK S.R.L. 0723 382 199



M43640

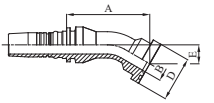
45° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3
BRIDA CODO 45° ISO/SAE CODIGO 62 - SAE J516 / ISO 12151-3
45° ISO/SAE CODE 62 FLANSCH - SAE J516 / ISO 12151-3
FLANGIA 45° ISO/SAE CODE 62 - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M43640-10-12	16	5/8"	- 10	3/4"	16,0	71,0	41,4	31,0		
M43640-10-16	16	5/8"	- 10	1"	20,0	83,5	47,7	32,5		
M43640-12-12	19	3/4"	- 12	3/4"	16,0	81,0	41,4	28,0		
M43640-12-16	19	3/4"	- 12	1"	20,0	85,4	47,7	32,3		
M43640-16-12	25	1"	- 16	3/4"	16,0	87,0	41,4	28,0		
M43640-16-16	25	1"	- 16	1"	20,0	91,4	47,7	32,3		
M43640-16-20	25	1"	- 16	1.1/4"	26,0	93,7	54,2	37,5		
M43640-20-16	31	1.1/4"	- 20	1"	20,0	106,5	47,7	36,0		
M43640-20-20	31	1.1/4"	- 20	1.1/4"	26,0	108,0	54,2	37,5		
M43640-20-24	31	1.1/4"	- 20	1.1/2"	32,0	115,0	63,7	45,0		
M43640-24-20	38	1.1/2"	- 24	1.1/4"	26,0	124,5	54,2	43,0		
M43640-24-24	38	1.1/2"	- 24	1.1/2"	32,0	124,3	63,7	44,0		
M43640-24-32	38	1.1/2"	- 24	2"	42,0	135,6	79,6	55,4		
M43640-32-32	51	2"	- 32	2"	42,0	154,0	79,6	60,5		

FLUIDTECHNIK S.R.L.0723 382 199

M43630

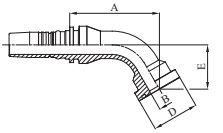
30° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3
BRIDA CODO 30° ISO/SAE CODIGO 62 - SAE J516 / ISO 12151-3
30° ISO/SAE CODE 62 FLANSCH - SAE J516 / ISO 12151-3
FLANGIA 30° ISO/SAE CODE 62 - SAE J516 / ISO 12151-3



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M43630-12-12	19	3/4"	- 12	3/4"	16,0	87,0	41,4	17,5		
M43630-16-16	25	1"	- 16	1"	20,0	98,5	47,7	20,0		
M43630-20-20	31	1.1/4"	- 20	1.1/4"	26,0	115,5	54,2	23,0		
M43630-24-24	38	1.1/2"	- 24	1.1/2"	32,0	133,5	63,7	27,0		
M43630-32-32	51	2"	- 32	2"	42,0	166,5	79,6	60,5		

M43660

60° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3
BRIDA CODO 60° ISO/SAE CODIGO 62 - SAE J516 / ISO 12151-3
60° ISO/SAE CODE 62 FLANSCH - SAE J516 / ISO 12151-3
FLANGIA 60° ISO/SAE CODE 62 - SAE J516 / ISO 12151-3



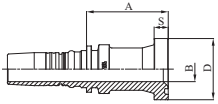
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M43660-12-12	19	3/4"	- 12	3/4"	16,0	98,5	41,4	39,0		
M43660-12-16	19	3/4"	- 12	1"	20,0	101,5	47,7	44,0		
M43660-16-16	25	1"	- 16	1"	20,0	107,5	47,7	52,0		
M43660-20-20	31	1.1/4"	- 20	1.1/4"	26,0	130,0	54,2	59,0		
M43660-20-24	31	1.1/4"	- 20	1.1/2"	32,0	136,0	63,7	67,5		
M43660-24-24	38	1.1/2"	- 24	1.1/2"	32,0	154,0	63,7	61,5		
M43660-32-32	51	2"	- 32	2"	42,0	197,5	79,5	85,0		

FLUIDTECHNIK S.R.L.0723 382 199

INTERLOCK PLUS TYPE

ORIGINAL EQUIPEMENT CONNECTIONS

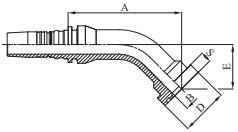
M43710



FLANGE PLUS (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE)
BRIDA PLUS (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2)
GERADER FLANSCH SCHWERE REIHE (SAE J518 CODE 62 - ISO 6162-2 KOMPATIBLER ANSCHLUSS)
FLANGIA PLUS (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	S		
M43710-10-12	16	5/8"	- 10	3/4"	16,0	51,5	41,4	9,0		
M43710-12-12	19	3/4"	- 12	3/4"	14,5	71,5	41,4	10,0		
M43710-16-16	25	1"	- 16	1"	19,5	64,0	47,7	11,0		
M43710-20-20	31	1.1/4"	- 20	1.1/4"	25,0	81,0	54,2	12,0		

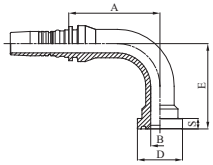
M43740



45° FLANGE PLUS (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE)
BRIDA PLUS CODO 45° (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2)
45°-BOGEN FLANSCH SCHWERE REIHE
(SAE J518 CODE 62 - ISO 6162-2 KOMPATIBLER ANSCHLUSS)
FLANGIA PLUS 45° (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E	S	
M43740-10-12	16	5/8"	- 10	3/4"	16,0	72,5	41,4	32,0	9,0	
M43740-12-12	19	3/4"	- 12	3/4"	14,5	113,0	41,4	40,0	10,0	
M43740-16-16	25	1"	- 16	1"	19,5	113,5	47,7	43,0	11,0	
M43740-20-20	31	1.1/4"	- 20	1.1/4"	25,0	133,5	54,2	50,0	12,0	

M43790



90° FLANGE PLUS (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE)
BRIDA PLUS CODO 90° (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2)
90°-BOGEN FLANSCH SCHWERE REIHE
(SAE J518 CODE 62 - ISO 6162-2 KOMPATIBLER ANSCHLUSS)
FLANGIA PLUS 90° (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E	S	
M43790-10-12	16	5/8"	- 10	3/4"	16,0	61,5	41,4	60,5	9,0	
M43790-12-12	19	3/4"	- 12	3/4"	14,5	93,0	41,4	75,0	10,0	
M43790-16-16	25	1"	- 16	1"	19,5	90,0	47,7	90,0	11,0	
M43790-20-20	31	1.1/4"	- 20	1.1/4"	25,0	115,0	54,0	110,0	12,0	

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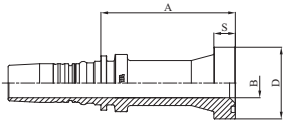
FLUIDTECHNIK S.R.L.0723 382 199

INTERLOCK PLUS TYPE

ORIGINAL EQUIPEMENT CONNECTIONS

M43910

STRAIGHT SUPERCAT SERIES FLANGE
BRIDA RECTA SUPERCAT
FLANSCH GERADE SUPERCAT
FLANGIA DRITTA SERIE SUPERCAT

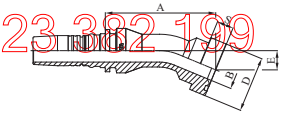


PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	S		
M43910-12-12	19	3/4"	- 12	3/4"	16,0	77,0	41,5	14,3		
M43910-12-16	19	3/4"	- 12	1"	20,0	88,5	47,7	14,3		
M43910-16-16	25	1"	- 16	1"	20,0	89,5	47,7	14,3		
M43910-16-20	25	1"	- 16	1.1/4"	26,0	93,5	54,0	14,3		
M43910-20-20	31	1.1/4"	- 20	1.1/4"	26,0	95,2	54,0	14,3		
M43910-20-24	31	1.1/4"	- 20	1.1/2"	32,0	98,5	63,6	14,3		
M43910-24-24	38	1.1/2"	- 24	1.1/2"	32,0	99,2	63,6	14,3		
M43910-24-32	38	1.1/2"	- 24	2"	42,0	115,0	79,3	14,3		
M43910-32-24	51	2"	- 32	1.1/2"	32,0	119,0	63,6	14,3		
M43910-32-32	51	2"	- 32	2"	42,0	114,0	79,3	14,3		

M43920

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22,5° SUPERCAT SERIES FLANGE
CODO 22,5° BRIDA SERIE SUPERCAT
22,5° FLANSCH SERIE SUPERCAT
FLANGIA 22,5° SERIE SUPERCAT



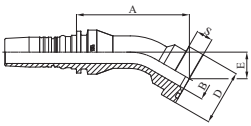
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E	S	
M43920-12-12	19	3/4"	- 12	3/4"	16,0	94,5	41,5	14,5	14,3	
M43920-12-16	19	3/4"	- 12	1"	20,0	102,0	47,7	16,5	14,3	
M43920-16-16	25	1"	- 16	1"	20,0	111,0	47,7	16,5	14,3	
M43920-16-20	25	1"	- 16	1.1/4"	26,0	115,5	54,0	19,0	14,3	
M43920-20-20	31	1.1/4"	- 20	1.1/4"	26,0	122,0	54,0	18,0	14,3	
M43920-20-24	31	1.1/4"	- 20	1.1/2"	32,0	139,0	63,6	23,0	14,3	
M43920-24-24	38	1.1/2"	- 24	1.1/2"	32,0	138,0	63,6	20,0	14,3	

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INTERLOCK PLUS TYPE

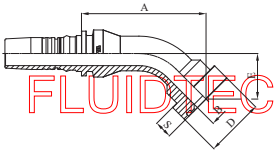
ORIGINAL EQUIPEMENT CONNECTIONS



M43930

30° SUPERCAT SERIES FLANGE
CODO 30° BRIDA SERIE SUPERCAT
30° FLANSCH SERIE SUPERCAT
FLANGIA 30° SERIE SUPERCAT

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E	S	
M43930-12-12	19	3/4"	- 12	3/4"	16,0	92,0	41,5	20,0	14,3	
M43930-12-16	19	3/4"	- 12	1"	20,0	99,5	47,7	22,5	14,3	
M43930-16-16	25	1"	- 16	1"	20,0	108,5	47,7	23,0	14,3	
M43930-16-20	25	1"	- 16	1.1/4"	26,0	112,5	54,0	26,0	14,3	
M43930-20-20	31	1.1/4"	- 20	1.1/4"	26,0	119,0	54,0	25,0	14,3	
M43930-20-24	31	1.1/4"	- 20	1.1/2"	32,0	135,5	63,6	32,0	14,3	
M43930-24-24	38	1.1/2"	- 24	1.1/2"	32,0	135,0	63,6	28,0	14,3	
M43930-24-32	38	1.1/2"	- 24	2"	42,0	151,5	79,3	36,0	14,3	
M43930-32-32	51	2"	- 32	2"	42,0	171,5	79,3	37,5	14,3	



FLUIDTECHNIK S.R.L. 0723 382 199

M43940

45° SUPERCAT SERIES FLANGE
BRIDA SUPERCAT CODO DE 45°
FLANSCH 45° BOGEN SUPERCAT
FLANGIA 45° SERIE SUPERCAT

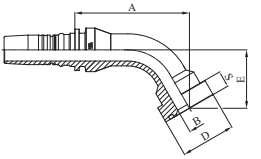
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E	S	
M43940-12-12	19	3/4"	- 12	3/4"	16,0	85,0	41,5	32,0	14,3	
M43940-12-16	19	3/4"	- 12	1"	20,0	92,0	47,7	35,5	14,3	
M43940-16-16	25	1"	- 16	1"	20,0	100,4	47,7	36,7	14,3	
M43940-16-20	25	1"	- 16	1.1/4"	26,0	104,0	54,0	40,5	14,3	
M43940-20-20	31	1.1/4"	- 20	1.1/4"	26,0	110,5	54,0	40,5	14,3	
M43940-20-24	31	1.1/4"	- 20	1.1/2"	32,0	125,5	63,6	50,5	14,3	
M43940-24-24	38	1.1/2"	- 24	1.1/2"	32,0	125,5	63,6	45,3	14,3	
M43940-24-32	38	1.1/2"	- 24	2"	42,0	139,5	79,3	56,5	14,3	
M43940-32-32	51	2"	- 32	2"	42,0	158,5	79,3	61,5	14,3	

FLUIDTECHNIK S.R.L.0723 382 199

INTERLOCK PLUS TYPE

ORIGINAL EQUIPEMENT CONNECTIONS

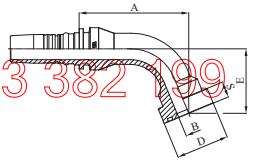
M43960



60° SUPERCAT SERIES FLANGE
CODO 60° BRIDA SERIE SUPERCAT
60° FLANSCH SERIE SUPERCAT
FLANGIA 60° SERIE SUPERCAT

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				
	DN	inch	Size		B	A	D	E	S
M43960-12-12	19	3/4"	- 12	3/4"	16,0	101,5	41,5	44,0	14,3
M43960-12-16	19	3/4"	- 12	1"	20,0	106,5	47,7	48,0	14,3
M43960-16-16	25	1"	- 16	1"	20,0	122,0	47,7	51,0	14,3
M43960-16-16055	25	1"	- 16	1"	20,0	117,5	47,7	55,0	14,3
M43960-16-20	25	1"	- 16	1.1/4"	26,0	122,5	54,0	55,0	14,3
M43960-20-20	31	1.1/4"	- 20	1.1/4"	26,0	135,5	54,0	56,0	14,3
M43960-20-24	31	1.1/4"	- 20	1.1/2"	32,0	149,0	63,6	69,0	14,3
M43960-24-24	38	1.1/2"	- 24	1.1/2"	32,0	154,5	63,6	63,0	14,3
M43960-32-32	51	2"	- 32	2"	42,0	202,0	79,3	86,5	14,3
M43960-32-32150	51	2"	- 32	2"	42,0	196,5	79,3	150,0	14,3

M43970



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67,5° SUPERCAT SERIES FLANGE
CODO 67,5° BRIDA SERIE SUPERCAT
67,5° FLANSCH SERIE SUPERCAT
FLANGIA 67,5° SERIE SUPERCAT

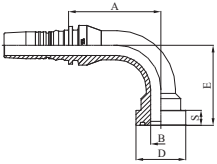
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				
	DN	inch	Size		B	A	D	E	S
M43970-12-12	19	3/4"	- 12	3/4"	16,0	95,5	41,5	49,5	14,3
M43970-12-16	19	3/4"	- 12	1"	20,0	100,0	47,7	54,0	14,3
M43970-16-16	25	1"	- 16	1"	20,0	115,0	47,7	58,0	14,3
M43970-16-20	25	1"	- 16	1.1/4"	26,0	115,0	54,0	62,0	14,3
M43970-20-20	31	1.1/4"	- 20	1.1/4"	26,0	128,0	54,0	64,0	14,3
M43970-20-24	31	1.1/4"	- 20	1.1/2"	32,0	139,5	63,6	78,0	14,3
M43970-24-24	38	1.1/2"	- 24	1.1/2"	32,0	146,0	63,6	72,0	14,3
M43970-32-32	51	2"	- 32	2"	42,0	189,5	79,3	99,0	14,3

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INTERLOCK PLUS TYPE

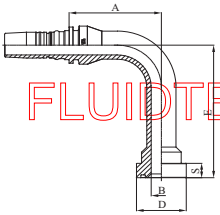
ORIGINAL EQUIPEMENT CONNECTIONS



M43990

90° SUPERCAT SERIES FLANGE
BRIDA SUPERCAT CODO DE 90°
FLANSCH 90° BOGEN SUPERCAT
FLANGIA 90° SERIE SUPERCAT

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E	S	
M43990-12-12	19	3/4"	- 12	3/4"	16,0	72,5	41,5	64,5	14,3	
M43990-12-16	19	3/4"	- 12	1"	20,0	75,5	47,7	69,5	14,3	
M43990-16-16	25	1"	- 16	1"	20,0	88,5	47,7	76,5	14,3	
M43990-16-20	25	1"	- 16	1.1/4"	26,0	86,5	54,0	80,5	14,3	
M43990-20-20	31	1.1/4"	- 20	1.1/4"	26,0	98,5	54,0	85,0	14,3	
M43990-20-24	31	1.1/4"	- 20	1.1/2"	32,0	104,5	63,6	101,0	14,3	
M43990-24-24	38	1.1/2"	- 24	1.1/2"	32,0	112,5	63,6	96,5	14,3	
M43990-24-32	38	1.1/2"	- 24	2"	42,0	115,0	79,3	112,0	14,3	
M43990-32-32	51	2"	- 32	2"	42,0	144,0	79,3	133,5	14,3	



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M43990 LONG DROP

90° LONG DROP SUPERCAT SERIES FLANGE
CODO 90° LARGO BRIDA SERIE SUPERCAT
90° LANGER SCHENKEL FLANSCH SERIE SUPERCAT
FLANGIA 90° SERIE SUPERCAT CURVA LUNGA

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E	S	
M43990-16-16132	25	1"	- 16	1"	20,0	88,5	47,7	132,0	14,3	
M43990-16-16150	25	1"	- 16	1"	20,0	88,5	47,7	150,0	14,3	
M43990-16-20150	25	1"	- 16	1.1/4"	26,0	88,5	54,0	150,0	14,3	
M43990-20-20092	31	1.1/4"	- 20	1.1/4"	26,0	98,5	54,0	92,0	14,3	
M43990-20-20150	31	1.1/4"	- 20	1.1/4"	26,0	98,5	54,0	150,0	14,3	
M43990-20-24135	31	1.1/4"	- 20	1.1/2"	32,0	98,5	63,6	135,0	14,3	
M43990-24-24106	38	1.1/2"	- 24	1.1/2"	32,0	112,5	63,6	106,0	14,3	

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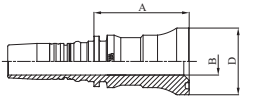
FLUIDTECHNIK S.R.L.0723 382 199

INTERLOCK PLUS TYPE

XTRAFLANGE

M48510

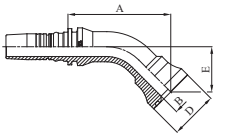
XTRAFLANGE (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE)
BRIDA XTRAFLANGE (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2)
XTRAFLANSCH GERADE (SAE J518 CODE 62 - ISO 6162-2 KOMPATIBLER ANSCHLUSS)
XTRAFLANGIA (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					WEIGHT
	DN	inch	Size		B	A	D			kg
M48510-12-12	19	3/4"	- 12	3/4"	14,5	64,0	41,4			0,4
M48510-16-16	25	1"	- 16	1"	19,5	68,3	47,7			0,6
M48510-20-20	31	1.1/4"	- 20	1.1/4"	25,0	88,0	54,4			1,0
M48510-24-24	38	1.1/2"	- 24	1.1/2"	31,0	102,0	63,7			1,4
M48510-32-32	51	2"	- 32	2"	41,0	129,0	79,6			2,7

M48540

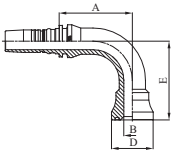
45° XTRAFLANGE (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE)
BRIDA CODO 45° XTRAFLANGE (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2)
45°-BOGEN XTRAFLANSCH (SAE J518 CODE 62 - ISO 6162-2 KOMPATIBLER ANSCHLUSS)
XTRAFLANGIA 45° (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					WEIGHT
	DN	inch	Size		B	A	D	E		kg
M48540-12-12	19	3/4"	- 12	3/4"	14,5	92,5	41,4	38,0		0,5
M48540-16-16	25	1"	- 16	1"	19,5	101,5	47,7	45,0		0,7
M48540-20-20	31	1.1/4"	- 20	1.1/4"	25,0	138,0	54,4	62,5		1,3
M48540-24-24	38	1.1/2"	- 24	1.1/2"	31,0	155,0	63,7	71,5		1,9
M48540-32-32	51	2"	- 32	2"	41,0	193,5	79,6	92,5		3,9

M48590

90° XTRAFLANGE (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE)
BRIDA CODO 90° XTRAFLANGE (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2)
XTRAFLANSCH 90° BOGEN (SAE J518 CODE 62 - ISO 6162-2 KOMPATIBLER ANSCHLUSS)
XTRAFLANGIA 90° (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)



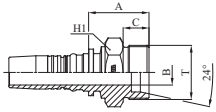
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					WEIGHT
	DN	inch	Size		B	A	D	E		kg
M48590-12-12	19	3/4"	- 12	3/4"	14,5	75,5	41,4	75,0		0,5
M48590-16-16	25	1"	- 16	1"	19,5	83,5	47,7	90,0		0,8
M48590-20-20	31	1.1/4"	- 20	1.1/4"	25,0	107,0	54,4	120,0		1,5
M48590-24-24	38	1.1/2"	- 24	1.1/2"	31,0	122,0	63,7	140,0		2,2
M48590-32-32	51	2"	- 32	2"	41,0	147,5	79,6	180,0		4,3

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INTERLOCK PLUS TYPE

DIN STANDARD CONNECTIONS

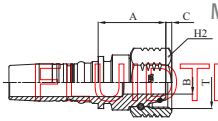


M31210

METRIC MALE 24° CONE SEAT HEAVY DUTY - DIN 20066 / ISO 12151-2
MACHO METRICO ASIENTO A 24° - SERIE PESADA DIN 20066 / ISO 12151-2
CES - DIN 20066 / ISO 12151-2
MASCHIO METRICO 24° - SERIE PESANTE DIN 20066 / ISO 12151-2

PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C		H1	
M31210-10-30	16	5/8"	- 10	M 30x2	20	12,0	36,8	16,0		30	
M31210-12-30	19	3/4"	- 12	M 30x2	20	14,5	38,5	16,0		32	
M31210-12-36	19	3/4"	- 12	M 36x2	25	14,5	43,4	18,0		36	
M31210-16-36	25	1"	- 16	M 36x2	25	19,5	45,0	18,0		36	
M31210-16-42	35	1"	- 16	M 42x2	30	19,5	46,8	20,0		46	
M31210-20-52	31	1.1/4"	- 20	M 52x2	38	25,0	55,0	22,0		55	
M31210-24-52	38	1.1/2"	- 24	M 52x2	38	30,5	55,6	22,0		55	

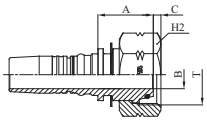
M41612



METRIC O-RING FEMALE 24° CONE HEAVY DUTY - DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT)
HEMBRA METRICA CON O-RING ASIENTO A 24° SERIE PESADA
DIN 20066 / ISO 12151-2 (TUERCA CON SEGURO)
DKOS - DIN 20066 / ISO 12151-2 (GESTIFTETE MUTTER)
FEMMINA METRICA CONO 24° O-RING SERIE PESANTE DIN 20066 / ISO 12151-2 (DADO SPINATO)

FLUIDTECHNIK S.R.L. 0723 382 199

M41613



METRIC O-RING FEMALE 24° CONE HEAVY DUTY - DIN 20066 / ISO 12151-2 (SLIP-ON NUT)
HEMBRA METRICA CON O-RING ASIENTO A 24° SERIE PESADA
DIN 20066 / ISO 12151-2 (TUERCA LIBRE)
DKOS - DIN 20066 / ISO 12151-2 (HINTERLEGTE MUTTER)
FEMMINA METRICA CONO 24° O-RING SERIE PESANTE DIN 20066 / ISO 12151-2 (DADO PASSANTE)

PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C			H2
M41613-10-30	16	5/8"	- 10	M 30x2	20	12,0	37,1	3,5			36
M41612-10-24	16	5/8"	- 10	M 24x1,5	16	9,3	31,0	4,0			30
M41612-12-30	19	3/4"	- 12	M 30x2	20	12,5	43,9	3,2			36
M41613-12-36	19	3/4"	- 12	M 36x2	25	14,5	42,1	3,4			41
M41613-12-42	19	3/4"	- 12	M 42x2	30	19,0	35,8	5,3			50
M41612-16-36	25	1"	- 16	M 36x2	25	16,0	46,8	4,1			41
M41613-16-42	25	1"	- 16	M 42x2	30	19,5	46,3	5,3			50
M41613-16-52	25	1"	- 16	M 52x2	38	26,0	50,5	8,0			60
M41612-20-42	31	1.1/4"	- 20	M 42x2	30	19,0	47,5	6,1			50
M41613-20-52	31	1.1/4"	- 20	M 52x2	38	26,0	41,7	8,0			60
M41612-24-52	38	1.1/2"	- 24	M 52x2	38	29,0	52,5	8,8			60

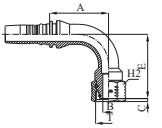
FLUIDTECHNIK S.R.L.0723 382 199

INTERLOCK PLUS TYPE

DIN STANDARD CONNECTIONS

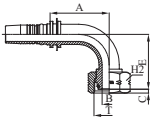
M41692

90° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY
DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT)
HEMBRA METRICA CON O-RING CODO DE 90° ASIENTO A 24° SERIE PESADA
DIN 20066 / ISO 12151-2 (TUERCA CON SEGURO)
DKOS 90° BOGEN - DIN 20066 / ISO 12151-2 (GESTIFTETE MUTTER)
FEMMINA METRICA 90° CONO 24° O-RING SERIE PESANTE DIN 20066 / ISO 12151-2 (DADO SPINATO)



M41693

90° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY
DIN 20066 / ISO 12151-2 (SLIP-ON NUT)
HEMBRA METRICA CON O-RING CODO DE 90° ASIENTO A 24° SERIE PESADA
DIN 20066 / ISO 12151-2 (TUERCA LIBRE)
DKOS 90° BOGEN - DIN 20066 / ISO 12151-2 (HINTERLEGTE MUTTER)
FEMMINA METRICA 90° CONO 24° O-RING SERIE PESANTE DIN 20066 / ISO 12151-2 (DADO PASSANTE)



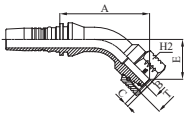
PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C	E		H_2
M41693-10-30	16	5/8"	- 10	M 30x2	20	12,0	52,5	3,5	57,5		36
M41692-12-30	19	3/4"	- 12	M 30x2	25	12,5	63,8	3,2	68,5		36
M41693-12-36	19	3/4"	- 12	M 36x2	25	14,5	67,0	3,4	67,5		41
M41692-16-36	25	1"	- 16	M 36x2	25	16,0	81,7	4,1	89,0		41
M41693-16-42	25	1"	- 16	M 42x2	30	19,5	81,6	5,3	75,5		50
M41692-20-42	31	1.1/4"	- 20	M 42x2	30	19,0	103,5	6,1	90,0		50
M41693-20-52	31	1.1/4"	- 20	M 52x2	38	26,0	100,0	8,0	86,5		60

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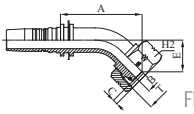
INTERLOCK PLUS TYPE

DIN STANDARD CONNECTIONS



M41642

45° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY
DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT)
HEMBRA METRICA CON O-RING CODO DE 45° CONO 24° SERIE PESADA
DIN 20066 / ISO 12151-2 (TUERCA CON SEGURO)
DKOS 45° BOGEN - DIN 20066 / ISO 12151-2 (GESTIFTETE MUTTER)
FEMMINA METRICA 45° CONO 24° O-RING SERIE PESANTE DIN 20066 / ISO 12151-2 (DADO SPINATO)



M41643

45° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY
DIN 20066 / ISO 12151-2 (SLIP-ON NUT)
HEMBRA METRICA CON O-RING CODO DE 45° ASIENTO A 24° SERIE PESADA
DIN 20066 / ISO 12151-2 (TUERCA LIBRE)
DKOS 45° BOGEN - DIN 20066 / ISO 12151-2 (HINTERLEGTE MUTTER)
FEMMINA METRICA 45° CONO 24° O-RING SERIE PESANTE DIN 20066 / ISO 12151-2 (DADO PASSANTE)

PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C	E		H_2
M41643-10-30	16	5/8"	- 10	M 30x2	20	12,0	66,5	3,5	29,5		36
M41642-12-30	19	3/4"	- 12	M 30x2	20	12,5	79,2	3,2	34,8		36
M41643-12-36	19	3/4"	- 12	M 36x2	25	14,5	81,0	3,4	33,5		41
M41642-16-36	25	1"	- 16	M 36x2	25	16,0	103,0	4,1	45,5		41
M41643-16-42	25	1"	- 16	M 42x2	30	19,5	93,1	5,3	36,0		50
M41642-20-42	31	1.1/4"	- 20	M 42x2	30	19,0	116,5	6,1	44,5		50
M41643-20-52	31	1.1/4"	- 20	M 52x2	38	26,0	110,0	8,0	40,0		60

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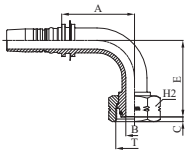
FLUIDTECHNIK S.R.L.0723 382 199

INTERLOCK PLUS TYPE

DIN STANDARD CONNECTIONS

M41293

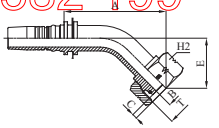
90° METRIC O-RING FEMALE MEDIUM/LONG DROP ELBOW 24° CONE HEAVY DUTY
DIN 20066 / ISO 12151-2 (SLIP-ON NUT)
CODO 90° METRICO MEDIO/LARGO 24° O-RING SERIE PESADA
DIN 20066 / ISO 12151-2 (TUERCA CON PASADOR)
90° BOGEN O-RING METRISCH 24° KONUS H.T.
DIN 20066 / ISO 12151-2 (HINTERLEGTE MUTTER)
FEMMINA METRICA O-RING SERIE PESANTE CONO 24° CURVA 90° MEDIO/LUNGA
DIN 20066 / ISO 12151-2 (DADO PASSANTE)



PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C	E		H_2
M41293-10-30	16	5/8"	- 10	M 30x2	20	12,0	53,0	3,5	60,0		36
M41293-12-36	19	3/4"	- 12	M 36x2	25	14,5	67,0	3,4	67,5		41
M41293-16-42	25	1"	- 16	M 42x2	30	19,5	81,5	5,3	86,0		50
M41293-20-52	31	1.1/4"	- 20	M 52x2	38	26,1	100,0	8,0	92,0		60

M41243

45° METRIC O-RING FEMALE MEDIUM/LONG DROP ELBOW 24° CONE HEAVY DUTY
DIN 20066/ ISO 12151-2 (SLIP-ON NUT)
FLUIDTECHNIK S.R.L. 0723 382 199
CODO 45° METRICO MEDIO/LARGO 24° O-RING SERIE PESADA
DIN 20066/ ISO 12151-2 (TUERCA CON PASADOR)
45° BOGEN O-RING METRISCH 24° KONUS H.T.
DIN 20066/ ISO 12151-2 (HINTERLEGTE MUTTER)
FEMMINA METRICA O-RING SERIE PESANTE CONO 24° CURVA 45° MEDIO/LUNGA
DIN 20066 / ISO 12151-2 (DADO PASSANTE)



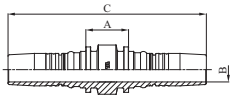
PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C	E		H_2
M41243-10-30	16	5/8"	- 10	M 30x2	20	12,0	77,5	3,5	35,0		36
M41243-12-36	19	3/4"	- 12	M 36x2	25	14,5	101,0	3,4	45,0		41
M41243-16-42	25	1"	- 16	M 42x2	30	19,5	112,0	5,3	55,0		50
M41243-20-52	31	1.1/4"	- 20	M 52x2	38	26,1	133,0	8,0	63,0		60

manuli HYDRAULICS
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M30050

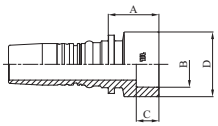
DOUBLE CONNECTOR
CONNECTOR DOBLE
DOPPELVERBINDER
DOPPIO INSERTO



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		B	A	C			
M30050-20-20	31	1.1/4"	- 20		25,0	42,0	206,0			
M30050-24-24	38	1.1/2"	- 24		31,0	42,5	228,5			
M30050-32-32	51	2"	- 32		41,0	42,5	244,5			

M49510WL

WELDING TAIL
ESPIGA SOLDABLE
VERSCHWEISSNIPPEL
INSERTO A SALDARE

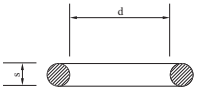


PART. REF.	HOSE BORE				DIMENSIONS mm					
	DN	inch	Size		B	A	C	D		
M49510-10-18WL	16	5/8"	- 10		18,1	20,5	10,0	26,0		
M49510-12-22WL	19	3/4"	- 12		22,1	27,5	12,0	34,0		
M49510-16-28WL	25	1"	- 16		28,1	31,5	14,0	40,0		
M49510-20-35WL	31	1.1/4"	- 20		35,1	33,0	14,0	49,0		

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JO29

OPTIONAL INTERLOCK PLUS O-RING
INTERLOCK PLUS O-RING OPCIONAL
OPTIONAL INTERLOCK PLUS O-RING
O-RING INTERLOCK PLUS OPZIONALE



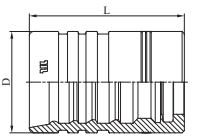
PART. REF.	HOSE BORE			O-RING SIZE (dxs mm)	MATERIAL
	DN	inch	Size		
JO29171318	16	5/8"	- 10	13,20x1,80	NBR 90 Shore A
JO29191618	19	3/4"	- 12	15,60x1,78	NBR 90 Shore A
JO29262218	25	1"	- 16	21,95x1,78	NBR 90 Shore A
JO29322818	31	1.1/4"	- 20	28,30x1,78	NBR 90 Shore A
JO29383518	38	1.1/2"	- 24	34,65x1,78	NBR 90 Shore A
JO29514718	51	2"	- 32	47,35x1,78	NBR 90 Shore A

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M01750

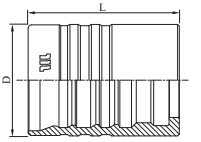
DOUBLE SKIVE FERRULE FOR EXTRA DUTY SPIRAL HOSES (4 PLY)
CASQUILLOS DE PELADO INTERNO Y EXTERNO PARA MANGUERAS
CON REFUERZO EN ESPIRAL (4 ESPIRALES)
PRESSFASSUNG FÜR INNEN- UND AUSSENSCHÄLUNG FÜR SPEZIAL-SPIRALSCHLÄUCHE (4-LAGIG)
GHIERA A PELATURA INTERNA/ESTERNA PER TUBI SPIRALATI
(4 SPIRALI) PER APPLICAZIONI ESTREMAMENTE SEVERE



PART. REF.	HOSE BORE			DIMENSIONS mm			
	DN	inch	Size	D	L	C	H_1
M01750-12	19	3/4"	- 12	45,1	69,0		

M01800

DOUBLE SKIVE FERRULE FOR EXTRA DUTY SPIRAL HOSES (6 PLY)
CASQUILLOS DE PELADO INTERNO Y EXTERNO PARA MANGUERAS
CON REFUERZO EN ESPIRAL (6 ESPIRALES)
PRESSFASSUNG FÜR INNEN- UND AUSSENSCHÄLUNG FÜR SPEZIAL-SPIRALSCHLÄUCHE (6-LAGIG)
GHIERA A PELATURA INTERNA/ESTERNA PER TUBI SPIRALATI
(6 SPIRALI) PER APPLICAZIONI ESTREMAMENTE SEVERE

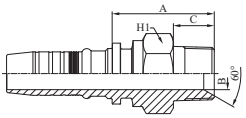


PART. REF.	HOSE BORE			DIMENSIONS mm			
	DN	inch	Size	D	L		
M01800-16	25	1"	- 16	53,5	69,0		
M01800-20	31	1.1/4"	- 20	64,5	88,2		
M01800-24	38	1.1/2"	- 24	73,0	97,8		
M01800-32	51	2"	- 32	86,5	108,0		
M01800-40	63	2.1/2"	- 40	103,0	135,0		
M01800-48	76	3"	- 48	113,5	125,0		

FLUIDTECHNIK S.R.L.0723 382 199

XTRALOCK TYPE

DIAMONDSPIR HOSE RANGE

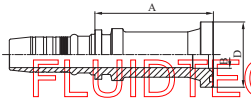


M52810/M57810

NPTF MALE 60° CONE SEAT - SAE J516/J514
MACHO NPTF ASIENTO A 60° - SAE J516/J514
AG NPTF KONUS 60° - SAE J516/J514
MASCHIO NPTF CONO 60° - SAE J516/J514

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm			
	DN	inch	Size	T	B	A	C	H1
M52810-12-12	19	3/4"	12	3/4" - 14	15,0	49,4	21,0	32
M57810-16-16	25	1"	- 16	1" - 11.5	19,0	60,4	24,2	41
M57810-20-20	31	1.1/4"	- 20	1.1/4" - 11.5	26,1	63,9	28,0	46
M57810-24-24	38	1.1/2"	- 24	1.1/2" - 11.5	32,1	70,4	30,0	55
M57810-32-32	51	2"	- 32	2" - 11.5	42,0	75,5	35,0	70
M57810-40-40	63	2.1/2"	- 40	2.1/2" - 8	55,4	94,5	43,0	80
M57810-48-48	76	3"	- 48	3" - 8	62,5	123,5	51,5	100

M68610



ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3
BRIDA ISO/SAE CODIGO 62 - SAE J516 / ISO 12151-3
ISO/SAE CODE 62 FLANSCH - SAE J516 / ISO 12151-3
FLANGIA DRITTA SAE 3000 - SAE J516 / ISO 12151-3

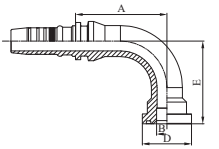
FLUIDTECHNIK S.R.L. 0723 382 199

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm			
	DN	inch	Size		B	A	D	
M68610-12-12	19	3/4"	-12	3/4"	16,0	74,0	41,4	
M68610-16-16	25	1"	- 16	1"	20,0	86,0	47,7	
M68610-20-20	31	1.1/4"	- 20	1.1/4"	26,0	91,0	54,2	
M68610-24-24	38	1.1/2"	- 24	1.1/2"	32,0	97,5	63,7	
M68610-32-32	51	2"	- 32	2"	42,0	112,5	79,6	
M68610-32-40 *	51	2"	- 32	2.1/2"	51,5	124,0	107,8	
M68610-40-32	63	2.1/2"	- 40	2"	41,0	115,0	79,6	
M68610-40-40 *	63	2.1/2"	- 40	2.1/2"	51,5	127,0	107,8	
M68610-48-48 *	76	3"	- 48	3"	63,0	167,0	131,9	

* **Manuli specification** / Manuli spezifikation / Especificación Manuli / Specifica Manuli

FLUIDTECHNIK S.R.L.0723 382 199

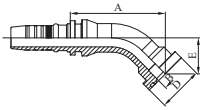
M68690



90° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3
BRIDA 90° ISO/SAE CODIGO 62 - SAE J516 / ISO 12151-3
90° ISO/SAE CODE 62 FLANSCH - SAE J516 / ISO12151-3
FLANGIA 90° ISO/SAE CODE 62 - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm			
	DN	inch	Size		B	A	D	E
M68690-12-12	19	3/4"	-12	3/4"	16,0	75,0	41,4	59,0
M68690-16-16	25	1"	- 16	1"	20,0	89,0	47,7	80,0
M68690-20-20	31	1.1/4"	- 20	1.1/4"	24,0	110,0	54,2	93,0
M68690-24-24	38	1.1/2"	- 24	1.1/2"	38,5	125,0	63,7	110,0
M68690-32-32	51	2"	- 32	2"	42,0	148,0	79,6	136,0

M68640



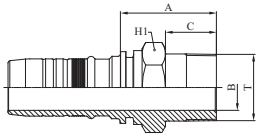
45° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3
BRIDA 45° ISO/SAE CODIGO 62 - SAE J516 / ISO 12151-3
45° ISO/SAE CODE 62 FLANSCH - SAE J516 / ISO12151-3
FLANGIA 45° ISO/SAE CODE 62 - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm			
	DN	inch	Size		B	A	D	E
M68640-16-16	25	1"	- 16	1"	20,0	98,5	47,7	38,0
M68640-20-20	31	1.1/4"	- 20	1.1/4"	24,0	121,5	54,2	43,5
M68640-24-24	38	1.1/2"	- 24	1.1/2"	38,5	136,0	63,7	50,0
M68640-32-32	51	2"	- 32	2"	42,0	160,0	79,6	61,0

FLUIDTECHNIK S.R.L.0723 382 199

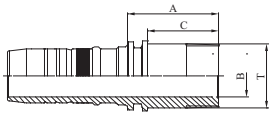
XTRALOCK TYPE

DIAMONDSPIR HOSE RANGE



M53410

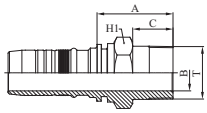
API MALE WITH HEXAGONAL BODY (API 5B THREAD)
MACHO API CON CUERPO HEXAGONAL (ROSCA API 5B)
VERBINDER API SECHSKANT (API 5B GEWINDE)
MASCHIO API CON CORPO ESAGONALE (FILETTATURA API 5B)



M53410...H00

API MALE WITH CYLINDRICAL BODY (API 5B THREAD)
MACHO API CON CUERPO CILINDRICO (ROSCA API 5B)
VERBINDER API ZYLINDRISCH (API 5B GEWINDE)
MASCHIO API CON CORPO CILINDRICO (FILETTATURA API 5B)

PART. REF.	HOSE BORE		THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C			H1
M53410-32-32	51	2"	- 32	2" - 11,5	41	119,5	55,0			70
M53410-32-32H00	51	2"	- 32	2" - 11,5	41	76,5	60			-
M53410-40-40	63	2.1/2"	- 40	2.1/2" - 8	51,5	135,0	63,0			80
M53410-40-40H00	63	2.1/2"	- 40	2.1/2" - 8	51,5	99,5	81			-
M53410-48-48	76	3"	- 48	3" - 8	62,5	143,5	71,5			100
M53410-48-48H00	76	3"	- 48	3" - 8	62,5	115	100			-
M53410-48-64	76	3"	-48	4" - 8	62,5	171,5	76,0			120
M53410-48-64H00	76	3"	- 48	4" - 8	62,5	151,5	118			-



M53510

NPT MALE
MACHO NPT
NPT-SCHRAUBVERBINDUNG
NPT MASCHIO

PART. REF.	HOSE BORE		THREAD	DIMENSIONS mm				
	DN	inch	Size	T	B	A	C	H1
M53510-32-32	51	2"	- 32	2" - 11,5	41,0	119,5	55,0	70
M53510-40-40	63	2.1/2"	- 40	2.1/2" - 8	51,5	135,0	63,0	80
M53510-48-48	76	3"	- 48	3" - 8	62,5	143,5	71,5	100

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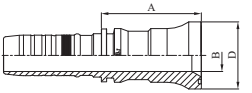
FLUIDTECHNIK S.R.L.0723 382 199

XTRALOCK TYPE

XTRAFLANGE

M68510

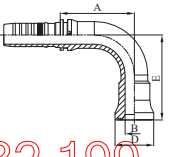
XTRAFLANGE (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE)
BRIDA RECTA XTRAFLANGE (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2)
XTRAFLANSCH GERADE (SAE J518 CODE 62 / ISO 6162-2 KOMPATIBLER ANSCHLUSS)
XTRAFLANGIA (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				W.P.	WEIGHT
	DN	inch	Size		B	A	D		bar	kg
M68510-16-16	25	1"	- 16	1"	20,0	69,5	47,7		560	0,6
M68510-20-20	31	1.1/4"	- 20	1.1/4"	24,0	88,0	54,4		560	1,0
M68510-20-24	31	1.1/4"	- 20	1.1/2"	30,5	100,0	63,7		560	1,3
M68510-24-24	38	1.1/2"	- 24	1.1/2"	30,5	102,0	63,7		560	1,4
M68510-32-32	51	2"	- 32	2"	41,0	129,0	79,6		450	2,7
M68510-40-40	63	2.1/2"	- 40	2.1/2"	51,5	149,0	99,2		350	4,4

M68590

90° XTRAFLANGE (SAE J518 CODE 62 AND ISO 6162-2 PORT COMPATIBLE)
BRIDA 90° XTRAFLANGE (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2)
XTRAFLANSCH 90° BOGEN (J518 CODE 62 / ISO 6162-2 KOMPATIBLER ANSCHLUSS)
XTRAFLANGIA 90° (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)

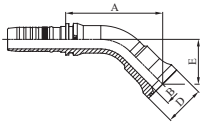


FLUIDTECHNIK S.R.L. 0723 382 199

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					W.P.	WEIGHT
	DN	inch	Size		B	A	D	E		bar	kg
M68590-16-16	25	1"	- 16	1"	20,0	84,2	47,7	90,0		560	0,8
M68590-20-20	31	1.1/4"	- 20	1.1/4"	24,0	107,0	54,4	120,0		560	1,5
M68590-24-24	38	1.1/2"	- 24	1.1/2"	30,5	122,2	63,7	140,0		560	2,2
M68590-32-32	51	2"	- 32	2"	41,0	147,5	79,6	180,0		450	4,3

M68540

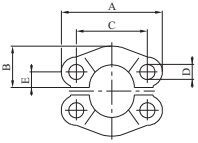
45° XTRAFLANGE (SAE J518 CODE 62 AND ISO 6162-2 PORT COMPATIBLE)
BRIDA 45° XTRAFLANGE (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2)
XTRAFLANSCH 45° BOGEN (SAE J518 CODE 62 / ISO 6162-2 KOMPATIBLER ANSCHLUSS)
XTRAFLANGIA 45° (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					W.P.	WEIGHT
	DN	inch	Size		B	A	D	E		bar	kg
M68540-16-16	25	1"	- 16	1"	20,0	103,0	47,7	45,0		560	0,7
M68540-20-20	31	1.1/4"	- 20	1.1/4"	24,0	138,0	54,4	62,5		560	1,4
M68540-24-24	38	1.1/2"	- 24	1.1/2"	30,5	155,0	63,7	71,5		560	1,9
M68540-32-32	51	2"	- 32	2"	41,0	193,5	79,6	92,5		450	4,0

manuli HYDRAULICS
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O83308

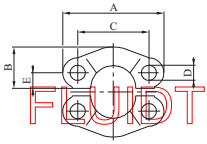
ISO/SAE CODE 61 SPLIT FLANGE CLAMPS - SAE J518 / ISO 6162-1

SEMIBRIDA ISO/SAE CODIGO 61 - SAE J518 / ISO 6162-1

ISO/SAE CODE 61 ZWEITEILIGER GEGENFLANSCH - SAE J518 / ISO 6162-1

SEMIFLANGIA ISO/SAE CODE 61- SAE J518 / ISO 6162-1

PART. REF.	HOSE BORE				DIMENSIONS mm					
	DN	inch	Size		B	A	C	D	E	
O83308-08	12	1/2"	- 08		23,0	54,0	38,1	9,0	8,7	
O83308-12	19	3/4"	- 12		26,1	65,1	47,6	11,0	11,1	
O83308-16	25	1"	- 16		29,4	69,8	52,4	11,0	13,1	
O83308-20	31	1.1/4"	- 20		36,5	79,4	58,7	12,0	15,1	
O83308-24	38	1.1/2"	- 24		41,3	93,7	69,8	13,5	17,8	
O83308-32	51	2"	- 32		48,4	101,6	77,8	13,5	21,4	
O83308-40	63	2.1/2"	- 40		54,4	114,3	88,9	13,5	25,4	
O83308-48	76	3"	- 48		65,3	135,0	106,4	16,5	30,9	



O83609

ISO/SAE CODE 62 SPLIT FLANGE CLAMPS - SAE J518 / ISO 6162-2

SEMIBRIDA ISO/SAE CODIGO 62 - SAE J518 / ISO 6162-2

ISO/SAE CODE 62 ZWEITEILIGER GEGENFLANSCH - SAE J518 / ISO 6162-2

SEMIFLANGIA ISO/SAE CODE 62 - SAE J518 / ISO 6162-2

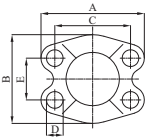
FLUIDTECHNIK S.R.L. 0723 382 199

PART. REF.	HOSE BORE				DIMENSIONS mm					
	DN	inch	Size		B	A	C	D	E	
O83609-08	12	1/2"	- 08		23,8	56,3	40,5	9,0	9,1	
O83609-12	19	3/4"	- 12		30,2	71,4	50,8	11,0	11,9	
O83609-16	25	1"	- 16		34,9	80,9	57,1	13,0	13,9	
O83609-20	31	1.1/4"	- 20		38,9	95,2	66,7	15,0	15,8	
O83609-24	38	1.1/2"	- 24		47,6	112,7	79,4	17,0	18,2	
O83609-32	51	2"	- 32		57,1	133,3	96,8	21,0	22,2	

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O83607

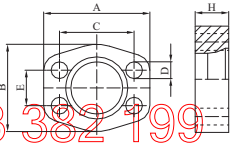
ONE-PIECE FLANGE CLAMP ISO 6162-2 / SAE J518 CODE 62
SEMIBRIDA UNA-PIEZA CODIGO 62 - ISO 6162-2 / SAE J518
VOLLFLANSCH - ISO 6162-2 / SAE J518 CODE 62
SEMIFLANGIA INTERA - ISO 6162-2 / SAE J518 CODICE 62



PART. REF.	HOSE BORE			DIMENSIONS mm				
	DN	inch	Size	B	A	C	D	E
O83607-12	19	3/4"	- 12	60,0	72,0	50,8	10,5	23,8
O83607-16	25	1"	- 16	70,0	81,0	57,2	13,0	27,8
O83607-20	31	1.1/4"	- 20	78,0	96,0	66,7	15,0	31,8
O83607-24	38	1.1/2"	- 24	96,0	113,0	79,4	17,0	36,5
O83607-32	51	2"	- 32	114,0	134,0	96,8	21,0	44,4
O83607-40	63	2.1/2"	- 40	150,0	175,0	123,8	25,0	58,7
O83607-48	76	3"	- 48	178,0	210,0	152,4	32,0	71,4

O88507

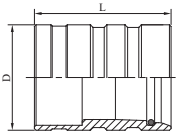
ONE-PIECE XTRAFLANGE CLAMP ISO 6162-2 / SAE J518 CODE 62 PORT COMPATIBLE
SEMIBRIDA UNA-PIEZA XTRAFLANGE ISO 6162-2 / SAE J518 COMPATIBLE CON CODIGO 62
VOLLFLANSCH FÜR XTRAFLANSCH ISO 6162-2 / SAE J518 CODE 62 KOMPATIBLER ANSCHLUSS
SEMIFLANGIA INTERA XTRAFLANGIA ISO 6162-2 / SAE J518 COMPATIBILE CON PORTA CODICE 62



FLUIDTECHNIK S.R.L. 0723 382 199

PART. REF.	FLANGE SIZE			DIMENSIONS mm						BOLT	WEIGHT
	DN	inch	Size	B	A	C	D	E	H	lenght mm	kg
O88507-12	19	3/4"	- 12	60,0	71,5	50,8	11,0	23,8	21,5	50,0	0,4
O88507-16	25	1"	- 16	66,7	80,0	57,2	13,0	27,8	24,0	65,0	0,5
O88507-20	31	1.1/4"	- 20	78,0	95,0	66,7	15,0	31,7	30,0	75,0	0,9
O88507-24	38	1.1/2"	- 24	94,0	112,0	79,4	17,0	36,5	36,0	100,0	1,6
O88507-32	51	2"	- 32	114,0	133,0	96,8	21,0	44,5	47,0	110,0	2,7
O88507-40	63	2.1/2"	- 40	150,0	180,0	123,8	26,0	58,8	55,0	110,0	6,4

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O820..

ANTI-KINK SLEEVE
CASQUILLO ANTI-COLAPSO
KNICKSCHUTZHÜLSE
GHIERA ANTI-KINK

PART. REF.	HOSE BORE				DIMENSIONS mm			
	DN	inch	Size		D	L		
O82040-12	19	3/4"	- 12		45,0	67,0		
O82040-16	25	1"	- 16		52,0	81,0		
O82068-16	25	1"	- 16		55,0	75,0		
O82060-20	31	1.1/4"	- 20		64,0	84,0		
O82062-20	31	1.1/4 "	- 20		64,0	83,0		
O82068-20	31	1.1/4 "	- 20		65,5	83,0		
O82060-24	38	1.1/2"	- 24		72,0	102,0		
O82068-24	38	1.1/2"	- 24		73,0	99,0		
O82068-32	51	2"	- 32		86,5	116,0		
O82068-40	63	2.1/2"	- 40		103,0	148,5		
O82068-48	76	3"	- 48		112,0	156,5		

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ASSEMBLING INSTRUCTIONS

The following assembling instructions are strongly recommended on heavy duty applications.

Se recomienda seguir atentamente las instrucciones de ensamblaje, particularmente en caso de aplicación extremadamente severa.

Bei schweren Anwendungen empfehlen wir unbedingt die folgenden Verarbeitungshinweise einzuhalten.

Si raccomanda di seguire attentamente le seguenti istruzioni d'assemblaggio in particolare in caso di applicazioni estremamente severe.

M437x0 - M686x0

PART. REF.	FLANGE SIZE	SPLIT FLANGE TYPE	ONE-PIECE FLANGE TYPE	OR (NBR 90 ShA) SAE J515	METRIC BOLT DIMENSIONS (Class. 10.9)	UNC BOLT DIMENSIONS (Grade 8)	BOLT THREAD LENGHT (mm)	BOLT TORQUE (Nm)
M437x0-12-12	3/4"		O83607-12	24,99x3,53	M 10	3/8-16	35	70
M686x0-12-12	3/4"		O83607-12	24,99x3,53	M 10	3/8-16	35	70
M437x0-16-16	1"		O83607-16	32,92x3,53	M 12	7/16-14	45	130
M686x0-16-16	1"		O83607-16	32,92x3,53	M 12	7/16-14	45	130
M437x0-20-20	1.1/4"		O83607-20	37,69x3,53	M 14	1/2-13	45	180
M686x0-20-20	1.1/4"		O83607-20	37,69x3,53	M 14	1/2-13	45	180
M686x0-24-24	1.1/2"		O83607-24	47,22x3,53	M 16	5/8-11	55	290
M686x0-32-32	2"		O83607-32	56,74x3,53	M 20	3/4-10	70	450
M686x0-40-32	2"		O83609-32	56,74x3,53	M 20	3/4-10	70	450
M686x0-40-40	2.1/2"		O83607-40	69,44x3,53	M 24	1-8	80	550
M686x0-48-48	3"		O83607-48	85,32x3,53	M 30	1.1/4-7	90	650

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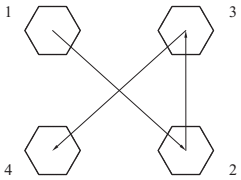
M485x0 - M685x0

PART. REF.	FLANGE SIZE	ONE-PIECE FLANGE TYPE	OR (NBR 90 ShA) SAE J515	METRIC BOLT DIMENSIONS (Class. 10.9)	UNC BOLT DIMENSIONS (Grade 8)	BOLT THREAD LENGHT (mm)	BOLT TORQUE (Nm)
M485x0-12-12	3/4"	O88507-12	24,99x3,53	M 10	3/8-16	45	70
M485x0-16-16	1"	O88507-16	32,92x3,53	M 12	7/16-14	50	130
M685x0-16-16	1"	O88507-16	32,92x3,53	M 12	7/16-14	50	130
M485x0-20-20	1.1/4"	O88507-20	37,69x3,53	M 14	1/2-13	65	180
M685x0-20-20	1.1/4"	O88507-20	37,69x3,53	M 14	1/2-13	65	180
M485x0-24-24	1.1/2"	O88507-24	47,22x3,53	M 16	5/8-11	75	290
M685x0-24-24	1.1/2"	O88507-24	47,22x3,53	M 16	5/8-11	75	290
M485x0-32-32	2"	O88507-32	56,74x3,53	M 20	3/4-10	95	450
M685x0-32-32	2"	O88507-32	56,74x3,53	M 20	3/4-10	95	450
M685x0-40-40	2.1/2"	O88507-40	69,44x3,53	M 24	1-8	110	550

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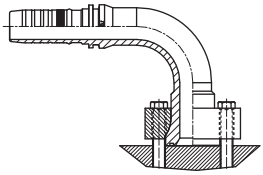
SCREWS HAVE TO BE TORQUED WITH THE FOLLOWING SCHEME:
LOS TORNILLOS DEBEN SER AJUSTADOS DE ACUERDO AL SIGUIENTE ESQUEMA:
SCHRAUBEN SOLLTEN GEMÄSS FOLGENDER SKIZZE ÜBER KREUZ ANGEZOGEN WERDEN:
I BULLONI DEVONO ESSERE LEGGERMENTE SERRATI SEGUENDO LO SCHEMA SEGUENTE:



During the installation it is recommended to apply a light torque to each screw before the final one to avoid:
- misalignements between flanges and clamps
- clamp halves damages during installation

Es importante que todos tornillos estén preajustados antes de aplicar el valor final del apriete recomendado para evitar desalineación entre las bridas y las abrazaderas o daños en las mediaslunas durante la instalación.

XTRAFLANGE ASSEMBLING SCHEME:
ESQUEMA PARA ENSAMBLAR UN XTRAFLANGE:
XTRAFLANSCH ANBAUSKIZZE:
SCHEMA D'ASSEMBLAGGIO DELLE XTRAFLANGE:



Um Beschädigungen und Spannungen an Vollflanschen, Flanschhälften und Flanschen selbst zu vermeiden, ist es wichtig, alle Schrauben zuerst nur handfest, gleichmässig anzuziehen, bevor sie mit dem empfohlenen Drehmoment festgezogen werden.

È importante che tutti i bulloni siano leggermente avvitati prima di applicare i valori di serraggio finali raccomandati al fine di evitare: • disallineamenti tra flange e controflange (clamps) • danneggiare le mezze controflange durante l'installazione.

FLUIDTECHNIK S.R.L. 0723 382 199

XTRALOCK FITTINGS CRIMPING OPERATION

The crimping operation to apply XTRALOCK fittings must be carried out with proper high performance crimping/assembling machines (crimping force higher than 2800-3000 kN) and approved by Manuli Hydraulics, in order to guarantee the optimum couplings assembly deformations and hose gripping; ■ Special crimping machines with long die sets are requested for the large size XTRALOCK fittings (double crimping operation is not recommemded); ■ The use of uncut split flanges (one piece flanges) is recommended for the best performance of the assemblies in heavy duty applications; ■ It is recommended to follow the detailed assembly instructions supplied by Manuli Hydraulics to customers, assemblers and operators using the integrated package DIAMONDSPIR hose & XTRALOCK fittings.

La operación de prensado para aplicar las conexiones XTRALOCK debe ser llevada a cabo con máquinas de alto comportamiento para prensado/ensamble (fuerza de prensado mayor que 2800-3000 kN) y aprobadas por Manuli Hydraulics, para garantizar las óptimas deformaciones de acople y ensamble y agarre de la manguera; ■ Las máquinas especiales con largos juegos de dados son requeridas para las conexiones XTRALOCK de mayor tamaño (una operación de doble prensado no es recomendada); ■ Se recomienda el uso de bridas no cortadas (bridas de una pieza) para el mejor desempeño de los ensambles en aplicaciones de trabajo pesado; ■ Se recomienda seguir las instrucciones detalladas de ensamble suministradas por Manuli Hydraulics a los clientes, ensambladores y operadores usando el paquete integrado Manguera DIAMONDSPIR & racores XTRALOCK.

Die Einbindung von XTRALOCK Armaturen muß mit entsprechenden Hochleistungspressen (Presskraft größer 2800-3000 kN) durchgeführt werden die von Manuli Hydraulics zugelassen sind; ■ Für große Nennweiten sind Spezialpressen mit langen Pressbacken erforderlich. Doppelpressungen sind nicht zu empfehlen; ■ Für beste Haltbarkeit und Performance der Schlauchleitung unter härtesten Bedingungen empfehlen wir den Einsatz von Vollflanschen; ■ Wir empfehlen sich strikt an die Anweisungen zur Einbindung zu halten, wie sie von Manuli Hydraulics zur Verfügung gestellt werden und ausschl. die integrierte Lösung DIAMONDSPIR™ Schlauch & XTRALOCK Armatur zu verwenden.

Il crimpaggio per applicare i raccordi XTRALOCK deve avvenire su presse che possano garantire performance di un certo livello (forza di crimpaggio superiore a 2800-3000 kN) e che siano approvate da Manuli Hydraulics al fine di garantire un'ottima deformazione dei raccordi nonché una perfetta presa degli stessi sul tubo; ■ Si richiedono presse speciali dotate di morsetti lunghi per raccordi XTRALOCK di grandi dimensioni (non è consigliata la doppia pressatura); ■ Si raccomanda l'utilizzo di flange a pezzo unico per ottenere una migliore riuscita degli assemblati in applicazioni molto severe; ■ Si consiglia di seguire le istruzioni dettagliate che Manuli Hydraulics fornisce ai clienti, agli assemblatori e a tutti gli operatori che utilizzano il pacchetto integrato formato da tubo DIAMONDSPIR™ & raccordi XTRALOCK.

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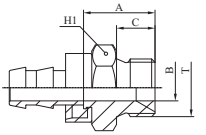
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PUSH-LOCK TYPE

BS STANDARD CONNECTIONS

L10510

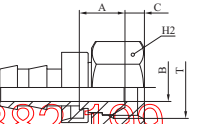
BSP MALE PARALLEL 60° CONE SEAT - BS5200/ISO 8434-6
MACHO BSP PARALELO ASIENTO A 60° - BS5200/ISO 8434-6
AGR 60° INNENKONUS (BSP-GEWINDE) - BS5200/ISO 8434-6
MASCHIO GAS CILINDRICO - BS5200/ISO 8434-6



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H_1	
L10510-04-04	6	1/4"	- 04	1/4" - 19	5,0	18,9	11,0		19	
L10510-04-06	6	1/4"	- 04	3/8" - 19	8,0	21,0	12,0		22	
L10510-06-06	10	3/8"	- 06	3/8" - 19	8,0	21,0	12,0		22	
L10510-08-08	12	1/2"	- 08	1/2" - 14	11,0	25,0	14,0		27	
L10510-10-10	16	5/8"	- 10	5/8" - 14	14,5	26,5	16,0		30	
L10510-12-12	19	3/4"	- 12	3/4" - 14	17,0	28,0	16,0		32	
L10510-16-16	25	1"	- 16	1" - 11	22,5	32,0	19,0		41	

L20513

BSP FEMALE 60° CONE - BS5200/ISO 12151-6 (SLIP-ON NUT)
HEMBRA BSP ASIENTO A 60° - BS5200/ISO 12151-6 (TUERCA LIBRE)
DKR 90° KONUS (BSP-GEWINDE) - HINTERLEGTE MUTTER BS5200/ISO 12151-6
FEMMINA GAS CONO 90° - BS5200/ISO 12151-6 (DADO PASSANTE)

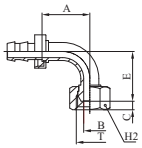


FLUIDTECHNIK S.R.L. 0723 382 199

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C			H_2
L20513-04-04	6	1/4"	- 04	1/4" - 19	4,0	10,9	5,8			19
L20513-04-06	6	1/4"	- 04	3/8" - 19	7,0	13,0	6,0			22
L20513-06-06	10	3/8"	- 06	3/8" - 19	7,0	13,0	6,0			22
L20513-08-08	12	1/2"	- 08	1/2" - 14	9,5	14,5	6,5			27
L20513-10-10	16	5/8"	- 10	5/8" - 14	12,0	14,0	9,0			28
L20513-12-12	19	3/4"	- 12	3/4" - 14	16,0	15,5	9,0			32
L20513-12-16	19	3/4"	- 12	1" - 11	19,0	17,0	11,0			38
L20513-16-16	25	1"	- 16	1" - 11	19,0	17,0	11,0			38

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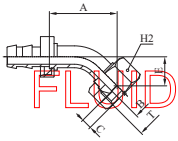


L20593*

90° BSP FEMALE SWEPT ELBOW 60° CONE - BS5200/ISO 12151-6 (SLIP-ON NUT)
HEMBRA BSP CODO DE 90º ASIENTO A 60º - BS5200/ISO 12151-6 (TUERCA LIBRE)
DKR 90° BOGEN 60° KONUS (BSP-GEWINDE) - BS5200/ISO 12151-6 (HINTERLEGTE MUTTER)
FEMMINA GAS 90° CONO 60° - BS5200/ISO 12151-6 (DADO PASSANTE)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H2
L20593-04-04	6	1/4"	- 04	1/4" - 19	4,0	24,0	5,8	24,0		19
L20593-06-06	10	3/8"	- 06	3/8" - 19	7,0	32,0	6,0	32,0		22
L20593-08-08	12	1/2"	- 08	1/2" - 14	9,5	36,0	6,5	38,5		27
L20593-10-10	16	5/8"	- 10	5/8" - 14	12,0	43,5	9,0	41,0		28
L20593-12-12	19	3/4"	- 12	3/4" - 14	16,0	46,0	9,0	46,5		32
L20593-12-16	19	3/4"	- 12	1" - 11	19,0	46,0	11,0	48,5		38
L20593-16-16	25	1"	- 16	1" - 11	19,0	51,0	11,0	54,0		38

* **No ferrule needed** / No necesita casquillo / Keine Fassung notwendig / Ghiera non necessaria



L20543*

45° BSP FEMALE SWEPT ELBOW 60° CONE - BS5200/ISO 12151-6 (SLIP-ON NUT)
HEMBRA BSP CODO DE 45º ASIENTO A 60º - BS5200/ISO 12151-6 (TUERCA LIBRE)
DKR 45° BOGEN 60° KONUS (BSP-GEWINDE) - BS5200/ISO 12151-6 (HINTERLEGTE MUTTER)
FEMMINA GAS 45° CONO 60° - BS5200/ISO 12151-6 (DADO PASSANTE)

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PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H2
L20543-04-04	6	1/4"	- 04	1/4" - 19	4,0	29,0	5,8	12,0		19
L20543-06-06	10	3/8"	- 06	3/8" - 19	7,0	36,5	6,0	15,0		22
L20543-08-08	12	1/2"	- 08	1/2" - 14	9,5	42,0	6,5	18,5		27
L20543-10-10	16	5/8"	- 10	5/8" - 14	12,0	48,5	9,0	19,0		28
L20543-12-12	19	3/4"	- 12	3/4" - 14	16,0	50,5	9,0	21,0		32
L20543-16-16	25	1"	- 16	1" - 11	19,0	54,0	11,0	24,0		38

* **No ferrule needed** / No necesita casquillo / Keine Fassung notwendig / Ghiera non necessaria

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WATER CLEANING & BLASTING

1935 - 2010 75°



Fluid connectors, solid solutions

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manuli® HYDRAULICS

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WATER CLEANING & BLASTING

INTRODUCTION

GB

The **water cleaning** hose range is dedicated to hobby and professional water cleaning machines, with cold and hot water (not suitable for vapour steam applications).
It is designed according to safety norm IEC-2 with safety factor burst/working pressure 4:1.

Product designed for pressure wash applications. Any different use may reduce service life. Please contact Manuli Hydraulics for more information.

The **water blasting** hose range is designed with criteria of maximum robustness and easy handling, complete with a dedicated fitting solution, in consideration of safety and performance aspects connected with blasting applications.
Safety factor burst/working pressure is 2,5:1, it complies with international specifications (AS/NZ 4233.2, RMA-USA, ISO 7751, BFPA-UK, prEN1829-2).

ES

La gama de mangueras para **limpieza con agua** está dedicado a las máquinas de limpieza manuales y profesionales, con agua fría o caliente (no recomendadas para aplicaciones con vapor).
Está diseñado de acuerdo con las normas de seguridad IEC-2 con factor de seguridad de 4 a 1 (presión de rotura/presión de trabajo).

Producto diseñado para aplicaciones de lavado a presión. Cualquier otro uso, quizás reduzca el tiempo de vida útil. Consulte a Manuli Hydraulics, para mayor información.

La gama de mangueras para **limpieza con agua a extrema presión** está diseñado con criterio de máxima fortaleza y fácil manejo, junto con una solución de ensamble dedicada, en consideración de aspectos de seguridad y comportamiento conectado con este tipo de aplicaciones.
El factor de seguridad es de 2,5:1 (presión de rotura/presión de trabajo) y cumple con las especificaciones internacionales (AS/NZ 4233.2, RMA-USA, ISO 7751, BFPA-UK, prEN1829-2).

D

Die Hochdruckreiniger (**Water Cleaning**) Schlauch-Reihe ist gedacht für Hobby- sowie Profihochdruckreiniger mit Heiss- und Kaltwasser (nicht geeignet für Dampf).
Diese Schläuche entsprechen der Sicherheitsnorm IEC-2 mit einem Sicherheitsfaktor Platz-/Arbeitsdruck von 4:1.

Dieses Produkt ist für Waschgeräteanwendung entwickelt und getestet worden. Anderweitige Benutzung führt zur Verringerung der Lebensdauer.

Die Superhochdruckwasserschlauch-Reihe (**Water Blasting**) wurde entwickelt mit der Vorgabe maximaler Robustheit bei einfachem Handling, komplett mit der passenden Armaturenlösung unter Berücksichtigung der Sicherheits- und Performance-Aspekte die mit Superhochdruckwasseranwendungen einhergehen.
Sicherheitsfaktor Platz-/Arbeitsdruck ist 2,5:1 in Übereinstimmung mit internationalen Spezifikationen (AS/NZ 4233.2, RMA-USA, ISO 7751, BFPA-UK, prEN1829-2).

IT

La gamma tubi **Water Cleaning** è ideata per macchine idropulitrici sia professionali che dedicate all'hobbystica che prevedano il passaggio d'acqua fredda e calda (non è adatto per applicazioni vapore).

Prodotto progettato per applicazioni lavaggio ad alta pressione. Ogni altro tipo di utilizzo può ridurre la durata in esercizio. Per maggiori informazioni si prega di contattare Manuli Hydraulics.

È progettato secondo la norma di sicurezza IEC-2 con coefficiente di sicurezza/pressione d'esercizio 4:1.
La gamma **Water Blasting** si caratterizza per robustezza e maneggevolezza massime ed è corredata di appositi raccordi per garantire la massima sicurezza e mantenere ottime performance in operazioni di disincrostazione.
Il coefficiente di sicurezza/pressione d'esercizio è pari a 2,5:1 ed è conforme alle specifiche internazionali (AS/NZ 4233.2, RMA-USA, ISO 7751, BFPA-UK, prEN1829-2).

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WATER CLEANING & BLASTING

INDEX

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WATER BLASTING	GOLDENBLAST™	Wire spiral	Safe waterblast technology	552
	GOLDENBLAST™/PLUS	Wire spiral	Safe waterblast technology	554
	GOLDENBLAST™/SIX	Wire spiral	Safe waterblast technology	556

GUIDE TO SELECT MANULI® HOSE BY W.P.

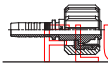
HOSE SIZE	WORKING PRESSURE (bar)														
	DN	5	6	8	10	12	16	19	25	31	38	51	60	63	76
	DASH	- 3	- 4	- 5	- 6	- 8	- 10	- 12	- 16	- 20	- 24	- 32	- 38	- 40	- 48
K-JET			210	210	210	210				*Safety factor burst/working pressure 4:1 Factor de seguridad presión de rotura/trabajo 4:1 Sicherheitsfaktor Berstdruck/Betriebsdruck 4:1 Fattore di sicurezza pressione di scoppio/di esercizio 4:1					
SUPERJET			280	250											
SUPERJET/PLUS			400	350	330	275									
PROJET			400	400	400	350									
GOLDENBLAST™					750	750				*Safety factor burst/working pressure 2,5:1 Factor de seguridad presión de rotura/trabajo 2,5:1 Sicherheitsfaktor Berstdruck/Betriebsdruck 2,5:1 Fattore di sicurezza pressione di scoppio/di esercizio 2,5:1					
GOLDENBLAST™/PLUS					1250	1100		1000	700						
GOLDENBLAST™/SIX						1450		1350							

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WATER CLEANING & BLASTING

VISUAL INDEX - CLEANING

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M00120 	**SKIVE FERRULE FOR WIRE BRAID HOSES** CASQUILLO CON PELADO PARA MANGUERAS CON TRENZA DE ACERO SCHÄLFASSUNG FÜR STAHLGEFLECHTSCHLÄUCHE GHIERA PER TUBI TRECCIATI CON PELATURA	558
M00910 	**SKIVE FERRULE FOR WIRE BRAID AND SPIRAL HOSES** CASQUILLO CON PELADO PARA MANGUERAS CON TRENZA Y ESPIRAL DE ACERO SCHÄLFASSUNG FÜR STAHLGEFLECHT- UND SPIRALSCHLÄUCHE GHIERA PER TUBI TRECCIATI E SPIRALATI CON PELATURA	558
MF2000® MULTIFIT TYPE INSERT		
M24913 	**WASH CLEANER FEMALE** WASH CLEANER HEMBRA WASCHGERÄTENIPPEL (TYP "K") FEMMINA IDROPULITRICE	559

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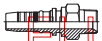
VISUAL INDEX - BLASTING

REFERENCE	DESCRIPTION	PAGE

MF2000® BLASTLOCK TYPE FERRULE

M01500 	**DOUBLE SKIVE FERRULE FOR HEAVY DUTY SPIRAL HOSES (4 PLY)** CASQUILLO DE PELADO INTERNO Y EXTERNO PARA MANGUERAS CON REFUERZO EN ESPIRAL (4 ESPIRALES) PRESSFASSUNG INNEN- UND AUSSENSCHÄLUNG FÜR HÖCHSTDRUCKSCHLÄUCHE (4-LAGIG) GHIERA PER TUBI SPIRALATI CON DOPPIA PELATURA (4 SPIRALI)	560
M01700 	**DOUBLE SKIVE FERRULE FOR HEAVY DUTY SPIRAL HOSES (4 PLY)** CASQUILLO DE PELADO INTERNO Y EXTERNO PARA MANGUERAS CON REFUERZO EN ESPIRAL (4 ESPIRALES) PRESSFASSUNG FÜR INNEN- UND AUSSENSCHÄLUNG FÜR SPEZIAL-SPIRALSCHLÄUCHE (4-LAGIG) GHIERE A PELARE INTERNO/ESTERNO PER TUBI SPIRALATI (4 SPIRALI) PER APPLICAZIONI ESTREMAMENTE SEVERE	560
M01800 	**DOUBLE SKIVE FERRULE FOR EXTRA DUTY SPIRAL HOSES (6 PLY)** CASQUILLO DE PELADO INTERNO Y EXTERNO PARA MANGUERAS CON REFUERZO EN ESPIRAL (6 ESPIRALES) PRESSFASSUNG FÜR INNEN- UND AUSSENSCHÄLUNG FÜR SPEZIAL-SPIRALSCHLÄUCHE (6-LAGIG) GHIERA A PELATURA INTERNA/ESTERNA PER TUBI SPIRALATI (6 SPIRALI) PER APPLICAZIONI ESTREMAMENTE SEVERE	560

MF2000® BLASTLOCK TYPE INSERT

M57810 	**NPTF MALE 60° CONE SEAT - SAE J516/J514** MACHO NPTF ASIENTO A 60° - SAE J516/J514 AG. NPTF KONUS 60° - SAE J516/J514 MASCHIO NPTF CONO 60° - SAE J516/J514	561
M66613 	**METRIC O-RING FEMALE 24° CONE HEAVY DUTY - DIN 20066/ISO 12151-2 (SLIP-ON NUT)** HEMBRA MÉTRICA CON O-RING ASIENTO A 24° SERIE PESADA DIN 20066/ISO 12151-2 (TUERCA LIBRE) DKOS - DIN 20066/ISO 12151-2 (HINTERLEGTE MUTTER) FEMMINA METRICA O-RING 24° SERIE PESANTE - DIN 20066/ISO 12151-2 (DADO PASSANTE)	561

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K-JET new

PRESSURE WASH - BLACK VERSION



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H02003006*	6	-04	1/4"	10,3	0,41	12,4	0,49	210	3040	840	12180	50	1,97	165	0,11	MF + M00830-04
H02003008*	8	-05	5/16"	11,9	0,47	14,0	0,55	210	3040	840	12180	55	2,17	205	0,14	MF + M00830-05
H02003010*	10	-06	3/8"	14,5	0,57	16,5	0,65	210	3040	840	12180	65	2,56	300	0,20	MF + M03400-06
H02003012*	12	-08	1/2"	17,7	0,70	19,9	0,78	210	3040	840	12180	90	3,54	410	0,28	MF + M03400-08

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

K-JET new

PRESSURE WASH - BLUE VERSION



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H02008006*	6	-04	1/4"	10,3	0,41	12,4	0,49	210	3040	840	12180	50	1,97	165	0,11	MF + M00830-04
H02008008*	8	-05	5/16"	11,9	0,47	14,0	0,55	210	3040	840	12180	55	2,17	200	0,13	MF + M00830-05
H02008010*	10	-06	3/8"	14,5	0,57	16,5	0,65	210	3040	840	12180	65	2,56	295	0,20	MF + M03400-06
H02008012*	12	-08	1/2"	17,7	0,70	19,9	0,78	210	3040	840	12180	90	3,54	405	0,27	MF + M03400-08

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Dust free smooth surface ■ Indelible branding ■ Compact structure: easy handling, reduced bend radius ■ Good abrasion resistance ■ Designed to meet IEC-2 (safety factor 4:1)

Superficie lisa ■ Marcado en relieve ■ Estructura compacta: fácil manejo, radio de curvatura reducido ■ Buena resistencia a la abrasión ■ Diseñado para cumplir IEC-2 (factor de seguridad 4:1)

Staubfreie, glatte Oberfläche ■ Dauerhafte Kennzeichnung ■ Kompakte Struktur: einfache Handhabung, reduzierter Biegeradius ■ Gute Abriebbeständigkeit ■ Design entspricht IEC-2 (Sicherheitsfaktor 4:1)

Superficie esterna liscia resistente alla polvere ■ Marcatura indelebile ■ Struttura compatta: semplicità di utilizzo e raggi di curvatura ridotti ■ Buona resistenza all'abrasione ■ Progettato in accordo alle norme IEC-2 (fattore di sicurezza 4:1)

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GB

MAIN APPLICATIONS
Water-cleaning equipment, ideal for hobby and semi-professional machines
CONTINUOUS SERVICE TEMPERATURE RANGE
+15°F / +275°F -10°C / +135°C
RECOMMENDED FLUIDS
Water, mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion
REMARK: Halogen-Free hose line (only black cover)

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Water resistant synthetic rubber
REINFORCEMENT: One high tensile steel braid
COVER: Environment resistant synthetic rubber.
APPLICABLE SPECS.: MANULI® Design
TYPE APPROVALS: GOST-R

Product designed for pressure wash applications. Any different use may reduce service life. Please contact Manuli Hydraulics for more information.

ES

PRINCIPALES APLICACIONES
Equipos para lavar con agua, ideal para máquinas semi-profesionales
TEMPERATURA CONTINUA DE SERVICIO
+15°F / +275°F -10°C / +135°C
FLUIDOS RECOMENDADOS
Agua, aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceites con base en éster sintético, aceite en emulsión acuosa
COMENTARIO: gama de mangueras "Halogen-Free" (sólo cubierta negra)

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al agua
REFUERZO: Un refuerzo trenzado de acero de alta resistencia
CUBIERTA: Caucho sintético resistente a intemperie.
ESPECIFICACIONES APLICABLES: Diseño MANULI®
APROBACIONES: GOST-R

Producto diseñado para aplicaciones de lavado a presión. Cualquier otro uso, quizás reduzca el tiempo de vida útil. Consulte a Manuli Hydraulics, para mayor información.

FLUIDTECHNIK S.R.L 0723 382 199

D

HAUPTANWENDUNGEN
Wasser Reinigung ideal für Hobby und für Semi Profi-Maschinen
TEMPERATURBEREICH
+15°F / +275°F -10°C / +135°C
EMPFOHLENE FLÜSSIGKEITEN
Mineralöl, Wasser, Öl auf Polyglykolbasis, Synthetik-Esterbasis, Rapsöl Wasser-/Ölemulsionen
WICHTIG: hydraulikschläuche "Halogen-Free" (nur schwarze Decke)

NIPPEL: MF2000® - MULTIFIT
SCHLAUCH: Wasserbeständiges synthetisches Gummi
VERSTÄRKUNG: Ein hochzugfestes Stahldrahtgeflecht
DECKE: Umweltverträgliches synthetisches Gummi
ANGEWANDTE NORMEN: MANULI® Design
ZULASSUNGEN: GOST-R

Dieses Produkt ist für Waschgeräteanwendung entwickelt und getestet worden. Anderweitige Benutzung führt zur Verringerung der Lebensdauer.

IT

PRINCIPALI APPLICAZIONI
Linee lavaggio, ideale per macchine semiprofessionali e per l'hobbistica
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
+15°F / +275°F -10°C / +135°C
FLUIDI RACCOMANDATI
Acqua, oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa
ATTENZIONE: gamma di tubi "Halogen-Free" (solo copertura nera)

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente all'acqua
RINFORZO: Una treccia di acciaio ad alto carico
COPERTURA: Gomma sintetica resistente agli agenti atmosferici.
SPECIFICHE: Design MANULI®
OMOLOGAZIONI: GOST-R

Prodotto progettato per applicazioni lavaggio ad alta pressione. Ogni altro tipo di utilizzo può ridurre la durata in esercizio. Per maggiori informazioni si prega di contattare Manuli Hydraulics.

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SUPERJET

PRESSURE WASH - BLACK VERSION



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H02001006*	6	-04	1/4"	11,2	0,44	13,3	0,52	280	4060	1120	16240	100	3,94	225	0,15	MF + M03400-04
H02001008*	8	-05	5/16"	12,8	0,50	14,9	0,59	250	3620	1000	14500	114	4,49	260	0,17	MF + M03400-05

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

SUPERJET

PRESSURE WASH - BLUE VERSION



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H02002006*	6	-04	1/4"	11,2	0,44	13,4	0,53	280	4060	1120	16240	100	3,94	225	0,15	MF + M03400-04
H02002008*	8	-05	5/16"	12,8	0,50	15,0	0,59	250	3620	1000	14500	114	4,49	265	0,18	MF + M03400-05

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

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Dust free smooth surface ■ Indelible branding ■ Easy handling ■ Good abrasion resistance ■ Designed to meet IEC-2 (safety factor 4:1)

Superficie externa lisa ■ Marcado en relieve ■ Fácil manejo ■ Buena resistencia a la abrasión ■ Fabricada según la Norma IEC-2 (factor de seguridad 4:1)

Staubfreie glatte Oberfläche ■ Dauerhafte Markierung ■ Leichte Handhabung ■ Gute Abriebfestigkeit ■ Entworfen um IEC-2 zu erfüllen (Sicherheitsfaktor 4:1)

Superficie esterna liscia resistente alla polvere ■ Marcatura indelebile ■ Semplicità d'uso ■ Buona resistenza all'abrasione ■ Progettato secondo la norma IEC-2 (coefficiente di sicurezza 4:1)

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GB

MAIN APPLICATIONS
Water-cleaning equipment, ideal for hobby and semi-professional machines
CONTINUOUS SERVICE TEMPERATURE RANGE
+15°F / +275°F -10°C / +135°C
MAX OPERATING TEMPERATURE
(Intermittent service) 300°F 150°C
RECOMMENDED FLUIDS
Water, mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion
REMARK: Halogen-Free hose line (only black cover)

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Water resistant synthetic rubber
REINFORCEMENT: One high tensile steel braid
COVER: Environment resistant synthetic rubber.
APPLICABLE SPECS.: MANULI® Design
TYPE APPROVALS: GOST-R

Product designed for pressure wash applications. Any different use may reduce service life. Please contact Manuli Hydraulics for more information.

ES

PRINCIPALES APLICACIONES
Equipos para lavar con agua, ideal para máquinas semi-profesionales
TEMPERATURA CONTINUA DE SERVICIO
+15°F / +275°F -10°C / +135°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) 300°F 150°C
FLUIDOS RECOMENDADOS
Agua, aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceites con base en éster sintético, aceite en emulsión acuosa
COMENTARIO: gama de mangueras "Halogen-Free" (sólo cubierta negra)

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al agua
REFUERZO: Un refuerzo trenzado de acero de alta resistencia
CUBIERTA: Caucho sintético resistente a intemperie.
ESPECIFICACIONES APLICABLES: Diseño MANULI®
APROBACIONES: GOST-R

Producto diseñado para aplicaciones de lavado a presión. Cualquier otro uso, quizás reduzca el tiempo de vida útil. Consulte a Manuli Hydraulics, para mayor información.

FLUIDTECHNIK S.R.L 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Wasser Reinigung ideal für Hobby und für Semi Profi-Maschinen
DAUERBETRIEB
+15°F / +275°F -10°C / +135°C
MAX. BETRIEBSTEMPERATUR
300°F 150°C
EMPFOHLENE MEDIEN
Mineralöl, Wasser, Öl auf Polyglykolbasis, Synthetik-Esterbasis, Rapsöl Wasser-/Ölemulsionen
WICHTIG: hydraulikschläuche "Halogen-Free" (nur schwarze Decke)

NIPPEL: MF2000® - MULTIFIT
SEELE: Wasserbeständiges synthetisches Gummi
DRUCKTRÄGER: Ein hochzugfestes Stahldrahtgeflecht
DECKE: Umweltverträgliches synthetisches Gummi.
ANGEWANDTE NORM: MANULI® Design
ZULASSUNGEN: GOST-R

Dieses Produkt ist für Waschgeräteanwendung entwickelt und getestet worden. Anderweitige Benutzung führt zur Verringerung der Lebensdauer.

IT

PRINCIPALI APPLICAZIONI
Linee lavaggio, ideale per macchine semiprofessionali e per l'hobbistica
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
+15°F / +275°F -10°C / +135°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) 300°F 150°C
FLUIDI RACCOMANDATI
Acqua, oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa
ATTENZIONE: gamma di tubi "Halogen-Free" (solo copertura nera)

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente all'acqua
RINFORZO: Una treccia di acciaio ad alto carico
COPERTURA: Gomma sintetica resistente agli agenti atmosferici.
SPECIFICHE: Design MANULI®
OMOLOGAZIONI: GOST-R

Prodotto progettato per applicazioni lavaggio ad alta pressione. Ogni altro tipo di utilizzo può ridurre la durata in esercizio. Per maggiori informazioni si prega di contattare Manuli Hydraulics.

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SUPERJET/PLUS

PRESSURE WASH - BLACK VERSION



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01A78006*	6	-04	1/4"	12,7	0,50	14,7	0,58	400	5800	1600	23200	55	2,17	370	0,25	MF + M03400-04
H01A78008*	8	-05	5/16"	14,3	0,56	16,3	0,64	350	5070	1400	20300	60	2,36	410	0,28	MF + M03400-05
H01A78010*	10	-06	3/8"	15,0	0,59	16,8	0,66	330	4780	1320	19140	65	2,56	390	0,26	MF + M03400-06
H01A78012*	12	-08	1/2"	18,5	0,73	20,3	0,80	275	3980	1100	15950	80	3,15	480	0,32	MF + M03400-08

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

SUPERJET/PLUS

PRESSURE WASH - BLUE VERSION



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01A79006*	6	-04	1/4"	12,7	0,50	14,7	0,58	400	5800	1600	23200	55	2,17	365	0,25	MF + M03400-04
H01A79008*	8	-05	5/16"	14,3	0,56	16,3	0,64	350	5070	1400	20300	60	2,36	405	0,27	MF + M03400-05
H01A79010*	10	-06	3/8"	15,0	0,59	16,8	0,66	330	4780	1320	19140	65	2,56	390	0,26	MF + M03400-06
H01A79012*	12	-08	1/2"	18,5	0,73	20,3	0,80	275	3980	1100	15950	80	3,15	475	0,32	MF + M03400-08

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Very high pressure resistance ■ Lightness and flexibility ■ Easy handling ■ Good abrasion resistance ■ Designed to meet IEC-2 (safety factor 4:1)

Elevada resistencia a la presión ■ Bajo peso y flexibilidad ■ Fácil manejo ■ Buena resistencia a la abrasión ■ Fabricada acorde a Norma IEC-2 (factor de seguridad 4:1)

Sehr hohe Druckbeständigkeit ■ Leicht und flexibel ■ Einfaches Handling ■ Gute Abriebbeständigkeit ■ Entworfen um die IEC-2 Norm zu erfüllen (Sicherheitsfaktor 4:1)

Ottima resistenza alle pressioni elevate ■ Leggerezza e flessibilità ■ Semplicità d'uso ■ Buona resistenza all'abrasione ■ Progettato secondo la norma IEC-2 (coefficiente di sicurezza 4:1)

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MAIN APPLICATIONS
Professional water-cleaning machines
CONTINUOUS SERVICE TEMPERATURE RANGE
+15°F / +275°F -10°C / +135°C
MAX OPERATING TEMPERATURE
(Intermittent service) 300°F 150°C
RECOMMENDED FLUIDS
Water, mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion
REMARK: Halogen-Free hose line (only black cover)

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Water resistant synthetic rubber
REINFORCEMENT: Two high tensile steel braids
COVER: Environment resistant synthetic rubber.
APPLICABLE SPECS.: MANULI® Design
TYPE APPROVALS: GOST-R

Product designed for pressure wash applications. Any different use may reduce service life. Please contact Manuli Hydraulics for more information.

ES

PRINCIPALES APLICACIONES
Equipos para lavar con agua, ideal para máquinas profesionales
TEMPERATURA CONTINUA DE SERVICIO
+15°F / +275°F -10°C / +135°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) 300°F 150°C
FLUIDOS RECOMENDADOS
Agua, aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceites con base en éster sintético, aceite en emulsión acuosa
COMENTARIO: gama de mangueras "Halogen-Free" (sólo cubierta negra)

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al agua
REFUERZO: Dos refuerzos trenzados de acero de alta resistencia
CUBIERTA: Caucho sintético resistente a intemperie.
ESPECIFICACIONES APLICABLES: Diseño MANULI®
APROBACIONES: GOST-R

Producto diseñado para aplicaciones de lavado a presión. Cualquier otro uso, quizás reduzca el tiempo de vida útil. Consulte a Manuli Hydraulics, para mayor información.

FLUIDTECHNIK S.R.L 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Professionelle Wasser-Hochdruck Reinigung
DAUERBETRIEB
+15°F / +275°F -10°C / +135°C
MAX. BETRIEBSTEMPERATUR
300°F 150°C
EMPFOHLENE MEDIEN
Mineralöl, Wasser, Öl auf Polyglykolbasis, Synthetik-Esterbasis, Rapsöl Wasser-/Ölemulsionen
WICHTIG: hydraulikschläuche "Halogen-Free" (nur schwarze Decke)

NIPPEL: MF2000® - MULTIFIT
SEELE: Wasserbeständiges synthetisches Gummi
DRUCKTRÄGER: Zwei hochzugfeste Stahldrahtgeflechte
DECKE: Umweltverträgliches synthetisches Gummi.
ANGEWANDTE NORM: MANULI® Design
ZULASSUNGEN: GOST-R

Dieses Produkt ist für Waschgeräteanwendung entwickelt und getestet worden. Anderweitige Benutzung führt zur Verringerung der Lebensdauer.

IT

PRINCIPALI APPLICAZIONI
Macchine idropulitrici professionali
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
+15°F / +275°F -10°C / +135°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) 300°F 150°C
FLUIDI RACCOMANDATI
Acqua, oli minerali,oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa
ATTENZIONE: gamma di tubi "Halogen-Free" (solo copertura nera)

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente all'acqua
RINFORZO: Due trecce di acciaio ad alto carico
COPERTURA: Gomma sintetica resistente agli agenti atmosferici.
SPECIFICHE: Design MANULI®
OMOLOGAZIONI: GOST-R

Prodotto progettato per applicazioni lavaggio ad alta pressione. Ogni altro tipo di utilizzo può ridurre la durata in esercizio. Per maggiori informazioni si prega di contattare Manuli Hydraulics.

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PROJET

PRESSURE WASH - BLACK VERSION



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01A94006*	6	-04	1/4"	11,3	0,44	13,1	0,52	400	5800	1600	23200	45	1,77	280	0,19	MF + M00120-04
H01A94008*	8	-05	5/16"	12,9	0,51	14,6	0,57	400	5800	1600	23200	100	3,94	315	0,21	MF + M00120-05
H01A94010*	10	-06	3/8"	16,7	0,66	18,5	0,73	400	5800	1600	23200	130	5,12	520	0,35	MF + M00910-06
H01A94012*	12	-08	1/2"	19,8	0,78	21,8	0,86	350	5070	1400	20300	178	7,01	660	0,44	MF + M00910-08

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

PROJET

PRESSURE WASH - BLUE VERSION



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01A95006*	6	-04	1/4"	11,3	0,44	13,1	0,52	400	5800	1600	23200	45	1,77	275	0,18	MF + M00120-04
H01A95008*	8	-05	5/16"	12,9	0,51	14,6	0,57	400	5800	1600	23200	100	3,94	310	0,21	MF + M00120-05
H01A95010*	10	-06	3/8"	16,7	0,66	18,5	0,73	400	5800	1600	23200	130	5,12	520	0,35	MF + M00910-06
H01A95012*	12	-08	1/2"	19,8	0,78	21,8	0,86	350	5070	1400	20300	178	7,01	650	0,44	MF + M00910-08

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Very high pressure resistance ■ Lightness and flexibility ■ Easy handling ■ Good abrasion resistance ■ Designed to meet IEC-2 (safety factor 4:1)

Elevada resistencia a la presión ■ Bajo peso y flexibilidad ■ Fácil manejo ■ Buena resistencia a la abrasión ■ Fabricada acorde a Norma IEC-2 (factor de seguridad 4:1)

Hohe Druckbeständikeit ■ Geringes Gewicht und Flexibilität ■ Leicht zu handhaben ■ Gute Abriebbeständigkeit ■ Entworfen um die IEC-2 Norm zu erfüllen (Sicherheitsfaktor 4:1)

Ottima resistenza alle pressioni elevate ■ Leggerezza e flessibilità ■ Semplicità d'uso ■ Buona resistenza all'abrasione ■ Progettato secondo la norma IEC-2 (coefficiente di sicurezza 4:1)

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MAIN APPLICATIONS
Professional water-cleaning machines
CONTINUOUS SERVICE TEMPERATURE RANGE
+15°F / +275°F -10°C / +135°C
MAX OPERATING TEMPERATURE
(Intermittent service) 300°F 150°C
RECOMMENDED FLUIDS
Water, mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion
REMARK: Halogen-Free hose line (only black cover)

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Water resistant synthetic rubber
REINFORCEMENT: Two high tensile steel braids
COVER: Environment resistant synthetic rubber.
APPLICABLE SPECS.: MANULI® Design
TYPE APPROVALS: GOST-R

Product designed for pressure wash applications. Any different use may reduce service life. Please contact Manuli Hydraulics for more information.

ES

PRINCIPALES APLICACIONES
Equipos para lavar con agua, ideal para máquinas profesionales
TEMPERATURA CONTINUA DE SERVICIO
+15°F / +375°F -10°C / +135°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) 300°F 150°C
FLUIDOS RECOMENDADOS
Agua, aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceites con base en éster sintético, aceite en emulsión acuosa
COMENTARIO: gama de mangueras "Halogen-Free" (sólo cubierta negra)

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al agua
REFUERZO: Dos refuerzos trenzados de acero de alta resistencia
CUBIERTA: Caucho sintético resistente a intemperie.
ESPECIFICACIONES APLICABLES: Diseño MANULI®
APROBACIONES: GOST-R

Producto diseñado para aplicaciones de lavado a presión. Cualquier otro uso, quizás reduzca el tiempo de vida útil. Consulte a Manuli Hydraulics, para mayor información.

FLUIDTECHNIK S.R.L 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Professionelle Wasser-Hochdruck Reinigungsmaschinen
DAUERBETRIEB
+15°F / +375°F -10°C / +135°C
MAX. BETRIEBSTEMPERATUR
300°F 150°C
EMPFOHLENE MEDIEN
Mineralöl, Wasser, Öl auf Polyglykolbasis, Synthetik-Esterbasis, Rapsöl Wasser-/Ölemulsionen, Pflanzenöl
WICHTIG: hydraulikschläuche "Halogen-Free" (nur schwarze Decke)

NIPPEL: MF2000® - MULTIFIT
SEELE: Wasserbeständiges synthetisches Gummi
DRUCKTRÄGER: Zwei hochzugfeste Stahldrahtgeflechte
DECKE: Umweltverträgliches synthetisches Gummi.
ANGEWANDTE NORM: MANULI® Design
ZULASSUNGEN: GOST-R

Dieses Produkt ist für Waschgeräteanwendung entwickelt und getestet worden. Anderweitige Benutzung führt zur Verringerung der Lebensdauer.

IT

PRINCIPALI APPLICAZIONI
Macchine idropulitrici professionali
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
+15°F / +275°F -10°C / +135°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) 300°F 150°C
FLUIDI RACCOMANDATI
Acqua, oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa
ATTENZIONE: gamma di tubi "Halogen-Free" (solo copertura nera)

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente all'acqua
RINFORZO: Due trecce di acciaio ad alto carico
COPERTURA: Gomma sintetica resistente agli agenti atmosferici.
SPECIFICHE: Design MANULI®
OMOLOGAZIONI: GOST-R

Prodotto progettato per applicazioni lavaggio ad alta pressione. Ogni altro tipo di utilizzo può ridurre la durata in esercizio. Per maggiori informazioni si prega di contattare Manuli Hydraulics.

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GOLDENBLAST™

SAFE WATERBLAST TECHNOLOGY



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H10072010*	10	-06	3/8"	17,6	0,69	20,2	0,80	750	10870	1875	27190	180	7,09	700	0,47	BL+ M01700-06
H10072A12*	12	-08	1/2"	20,4	0,80	23,0	0,91	750	10870	1875	27190	220	8,66	820	0,55	BL+ M01700-08

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Basic hose line for scale removing applications ■ Compactness, lightness and flexibility ■ Safety factor 2,5:1 (accepted world standard as specified by RMA-USA, BFPA-UK, DIN-Germany, ISO 7751) ■ High abrasion resistance cover

Gama de manguera para desincrustación ■ Compacta, liviana y flexible ■ Factor de seguridad 2,5:1 (especificaciones mundiales aceptadas como las especificadas por RMA-USA, BFPA-UK, DIN-Alemania, ISO 7751) ■ Cubierta de alta resistencia a la abrasión

Standard Schlauchtyp für Materialabtragung ■ Kompakt, leicht und flexibel ■ Sicherheitsfaktor 2,5:1 (weltweit anerkannter Normwert festgelegt z.B. durch RMA-USA, BFPA-UK, DIN. ISO 7751) ■ Hohe Abriebbeständigkeit

Linea tubi base per disincrostazione ■ Compattezza, leggerezza e flessibilità ■ Coefficiente di sicurezza 2,5:1 (standard accettato su scala mondiale come da specifiche RMA-USA, BFPA-UK, DIN-Germania, ISO 7751) ■ Elevata resistenza all'abrasione

Fixed lenghts: 20 mt, 40 mt

Longitudes fijas: 20 mt, 40 mt

Fixlängen: 20 mt, 40 mt

Lunghezze fisse: 20 mt, 40 mt

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MAIN APPLICATIONS
Scale removing applications using extreme high working pressure such as:
- building and industrial sectors (roadworks, removal of concrete from reinforced concrete structures safeguarding metal components)
- scale removal ships hulls in shipyard
- dust elimination

CONTINUOUS SERVICE TEMPERATURE RANGE
+15°F / +158°F -10°C / +70°C
MAX OPERATING TEMPERATURE
200°F 93°C
RECOMMENDED FLUIDS
Water, water soap, emulsions

INSERT: MF2000® - BLASTLOCK TYPE
TUBE: Water resistant synthetic rubber
REINFORCEMENT: Four high tensile steel spirals
COVER: Synthetic rubber with high temperature, ozone and abrasion resistance
APPLICABLE SPECS.: MANULI® Design, Australian Std. AS/NZS 4233.2
TYPE APPROVALS: GOST-R, MSHA

ES

PRINCIPALES APLICACIONES
Aplicaciones para remoción de escala usando presión de trabajo extremadamente alta como:
- sectores de construcción e industriales (trabajos en carreteras, remoción de concreto de estructuras de concreto reforzado, salvaguardando los componentes metálicos)
- remoción de escala de cascos de barcos en astilleros
- eliminación de suciedad

TEMPERATURA CONTINUA DE SERVICIO
+15°F / +158°F -10°C / +70°C
MÁXIMA TEMPERATURA DE OPERACIÓN
200°F 93°C
FLUIDOS RECOMENDADOS
Agua, agua jabonosa, emulsiones

ESPIGA: MF2000® - TIPO BLASTLOCK
TUBO: Caucho sintético, resistente al agua
REFUERZO: 4 refuerzos en espiral de acero de alta resistencia
CUBIERTA: Caucho sintético resistente a altas temperaturas, ozono y abrasion
ESPECIFICACIONES APLICABLES: Diseño MANULI®, Australian Std. AS/NZS 4233.2
APROBACIONES: GOST-R, MSHA

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Oberflächenbehandlung durch extrem hohem Betriebsdruck wie in:
- Bau- und Industriebereich (Straßenbau, Betonentfernung, Betonschneiden)
- Reinigung und Bearbeitung der Schiffsrumpfsoberfläche
- Schmutzentfernung

DAUERBETRIEB
+15°F / +158°F -10°C / +70°C
MAX. BETRIEBSTEMPERATUR
200°F 93°C
EMPFOHLENE MEDIEN
Wasser, Seifenwasser-Emulsionen

NIPPEL: MF2000® - TIPO BLASTLOCK
SEELE: Wasserbeständiges Gummi
DRUCKTRÄGER: Vier hochzugfeste Stahldrahtspiralen
DECKE: Synthetisches Gummi mit hoher Temperatur- und Ozonbeständigkeit.
ANGEWANDTE NORM: MANULI® Design, Australian Std. AS/NZS 4233.2
ZULASSUNGEN: GOST-R, MSHA

IT

PRINCIPALI APPLICAZIONI
Applicazioni disincrostazione grazie all'utilizzo di elevatissime pressioni d'esercizio come:
- settori edile ed industriale, (lavori stradali, rimozione calcestruzzo da strutture in cemento armato a salvaguardia di componenti metallici)
- disincrostazione scafi di navi nei cantieri navali
- eliminazione della polvere

RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
+15°F / +158°F -10°C / +70°C
PICCO DI TEMPERATURA MASSIMA
200°F 93°C
FLUIDI RACCOMANDATI
Acqua, acqua saponata, emulsioni

INSERTO: MF2000® - BLASTLOCK TYPE
SOTTOSTRATO: Gomma sintetica resistente all'acqua
RINFORZO: Quattro spirali di acciaio ad alto carico
COPERTURA: Gomma sintetica con elevata resistenza all'ozono, all'abrasione ed agli agenti atmosferici
SPECIFICHE: Design MANULI®, Australian Std. AS/NZS 4233.2
OMOLOGAZIONI: GOST-R, MSHA

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GOLDENBLAST™/PLUS

SAFE WATERBLAST TECHNOLOGY



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H10066010*	10	-06	3/8"	17,4	0,69	20,0	0,79	1250	18120	3125	45320	230	9,06	800	0,54	BL+ M01700-06
H10066A12*	12	-08	1/2"	21,5	0,85	24,1	0,95	1100	15950	2750	39880	230	9,06	1110	0,75	BL+ M01700-08
H10066019*	19	-12	3/4"	29,0	1,14	32,0	1,26	1000	14500	2500	36250	250	9,84	1730	1,16	BL+ M01700-12
NEW H10066025*	25	-16	1"	35,1	1,38	38,1	1,50	700	10150	1750	25370	250	9,84	2040	1,37	BL+ M01500-16

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Hose line for waterblasting with pressures up to 1250 bar ■ Compactness, lightness and flexibility ■ Safety factor 2,5:1 (accepted world standard as specified by RMA-USA, BFPA-UK, DIN-Germany, ISO 7751) ■ High abrasion resistance cover

Gama de mangueras para agua a presión con presiones hasta de 1250 bar ■ Compacta, liviana y flexible ■ Factor de seguridad 2,5:1 (especificaciones mundialmente aceptadas como las especificadas por RMA-USA, BFPA-UK, DIN-Alemania, ISO 7751) ■ Cubierta resistente a la alta abrasión

Schlauchtyp für Materialabtragung mit Wasserstrahl bis 1250 bar ■ Kompakt, leicht und flexibel ■ Sicherheitsfaktor 2,5:1 (weltweit anerkannter Normwert festgelegt z.B. durch RMA-USA, BFPA-UK, DIN. ISO 7751) ■ Hohe Abriebbeständigkeit

Linea tubi per getto d'acqua con pressione fino a 1250 bar ■ Compattezza, leggerezza e flessibilità ■ Coefficiente di sicurezza 2,5:1 (standard accettato su scala mondiale come da specifiche RMA-USA, BFPA-UK, DIN-Germania, ISO 7751) ■ Elevata resistenza all'abrasione

FLUIDTECHNIK S.R.L. 0723 382 199

Fixed lenghts: 20 mt, 40 mt

Longitudes fijas: 20 mt, 40 mt

Fixlängen: 20 mt, 40 mt

Lunghezze fisse: 20 mt, 40 mt

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GOLDENBLAST™/PLUS

TECHNICAL INFO

GB

MAIN APPLICATIONS
Scale removing applications using extreme high working pressure such as:
- building and industrial sectors (roadworks, removal of concrete from reinforced concrete structures safeguarding metal components)
- scale removal ships hulls in shipyard
- dust elimination

CONTINUOUS SERVICE TEMPERATURE RANGE
+15°F / +158°F -10°C / +70°C
MAX OPERATING TEMPERATURE
200°F 93°C
RECOMMENDED FLUIDS
Water, water soap, emulsions

INSERT: MF2000® - BLASTLOCK TYPE
TUBE: Water resistant synthetic rubber
REINFORCEMENT: Four high tensile steel spirals
COVER: Synthetic rubber with very high temperature, ozone and abrasion resistance
APPLICABLE SPECS.: MANULI® Design, Australian Std. AS/NZS 4233.2
TYPE APPROVALS: GOST-R, MSHA

ES

PRINCIPALES APLICACIONES
Aplicaciones para remoción de escala usando presión de trabajo extremadamente alta como:
- sectores de construcción e industriales (trabajos en carreteras, remoción de concreto de estructuras de concreto reforzado, salvaguardando los componentes metálicos)
- remoción de escala de cascos de barcos en astilleros
- eliminación de suciedad

TEMPERATURA CONTINUA DE SERVICIO
+15°F / +158°F -10°C / +70°C
MÁXIMA TEMPERATURA DE OPERACIÓN
200°F 93°C
FLUIDOS RECOMENDADOS
Agua, agua jabonosa, emulsiones

ESPIGA: MF2000® - TIPO BLASTLOCK
TUBO: Caucho sintético, resistente al agua
REFUERZO: 4 refuerzos en espiral de acero de alta resistencia
CUBIERTA: Caucho sintético resistente a altas temperaturas, ozono y abrasion
ESPECIFICACIONES APLICABLES: Diseño MANULI®, Australian Std. AS/NZS 4233.2
APROBACIONES: GOST-R, MSHA

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Oberflächenbehandlung durch extrem hohemBetriebsdruck wie in:
- Bau- und Industriebereich (Straßenbau, Betonentfernung, Betonschneiden)
- Reinigung und Bearbeitung der Schiffsrumpfsoberfläche
- Schmutzentfernung

DAUERBETRIEB
+15°F / +158°F -10°C / +70°C
MAX. BETRIEBSTEMPERATUR
200°F 93°C
EMPFOHLENE MEDIEN
Wasser, Seifenwasser-Emulsionen

NIPPEL: MF2000® - TIPO BLASTLOCK
SEELE: Wasserbeständiges Gummi
DRUCKTRÄGER: Vier hochzugfeste Stahldrahtspiralen
DECKE: Synthetisches Gummi mit sehr hoher Temperatur- und Ozonbeständigkeit
ANGEWANDTE NORM: MANULI® Spec., Australian Std. AS/NZS 4233.2
ZULASSUNGEN: GOST-R, MSHA

IT

PRINCIPALI APPLICAZIONI
Applicazioni disincrostazione grazie all'utilizzo di elevatissime pressioni d'esercizio come:
- settori edile ed industriale, (lavori stradali, rimozione calcestruzzo da strutture in cemento armato a salvaguardia di componenti metallici)
- disincrostazione scafi di navi nei cantieri navali
- eliminazione della polvere

RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
+15°F / +158°F -10°C / +70°C
PICCO DI TEMPERATURA MASSIMA
200°F 93°C
FLUIDI RACCOMANDATI
Acqua, acqua saponata, emulsioni

INSERTO: MF2000® - BLASTLOCK TYPE
SOTTOSTRATO: Gomma sintetica resistente all'acqua
RINFORZO: Quattro spirali di acciaio ad alto carico
COPERTURA: Gomma sintetica con elevata resistenza all'ozono, all'abrasione ed agli agenti atmosferici
SPECIFICHE: Design MANULI®, Australian Std. AS/NZS 4233.2
OMOLOGAZIONI: GOST-R, MSHA

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FLUIDTECHNIK S.R.L.0723 382 199

GOLDENBLAST™/SIX

SAFE WATERBLAST TECHNOLOGY



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H10067012*	12	-08	1/2"	25,9	1,02	28,9	1,14	1450	21030	3625	52570	250	9,84	1880	1,26	BL+ M01800-08
H10067019*	19	-12	3/4"	32,4	1,28	35,4	1,39	1350	19580	3375	48950	280	11,02	2630	1,77	BL+ M01800-12

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Six wire spiral hose dedicated to severe applications with pressures up to 1450 bar ■ Compactness, lightness and flexibility ■ Safety factor 2,5:1 (accepted world standard as specified by RMA-USA, BFPA-UK, DIN-Germany, ISO 7751) ■ High abrasion resistance cover

Manguera de seis alambres en espiral dedicada a aplicaciones severas con presiones hasta de 1450 bar ■ Compacta, liviana y flexible ■ Factor de seguridad 2,5:1 (especificaciones mundialmente aceptadas como las especificadas por RMA-USA, BFPA-UK, DIN-Alemania, ISO 7751) ■ Cubierta resistente a la alta abrasión

Sechspiralschlauch für hochanspruchsvolle Wasserstrahlanwendungen bis 1450 bar ■ Kompakt, leicht und flexibel ■ Sicherheitsfaktor 2,5:1 (weltweit anerkannter Normwert festgelegt z.B. durch RMA-USA, BFPA-UK, DIN. ISO 7751) ■ Hohe Abriebbeständigkeit

Tubo a sei spirali ideato per applicazioni severe con pressione fino a 1450 bar ■ Compattezza, leggerezza e flessibilità ■ Coefficiente di sicurezza 2,5:1 (standard accettato su scala mondiale come da specifiche RMA-USA, BFPA-UK, DIN-Germania, ISO 7751) ■ Elevata resistenza all'abrasione

FLUIDTECHNIK S.R.L. 0723 382 199

Fixed lenghts: 20 mt, 40 mt

Longitudes fijas: 20 mt, 40 mt

Fixlängen: 20 mt, 40 mt

Lunghezze fisse: 20 mt, 40 mt

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FLUIDTECHNIK S.R.L.0723 382 199

GOLDENBLAST™/SIX

TECHNICAL INFO

GB

MAIN APPLICATIONS
Scale removing applications using extreme high working pressure such as:
- building and industrial sectors (roadworks, removal of concrete from reinforced concrete structures safeguarding metal components)
- scale removal ships hulls in shipyard
- dust elimination

CONTINUOUS SERVICE TEMPERATURE RANGE
+15°F / +158°F -10°C / +70°C
MAX OPERATING TEMPERATURE
200°F 93°C
RECOMMENDED FLUIDS
Water, water soap emulsions

INSERT: MF2000® - BLASTLOCK TYPE
TUBE: Water resistant synthetic rubber
REINFORCEMENT: Six high tensile steel spirals
COVER: Synthetic rubber with very high temperature, ozone and abrasion resistance
APPLICABLE SPECS.: MANULI® Design, Australian Std. AS/NZS 4233.2
TYPE APPROVALS: GOST-R, MSHA

ES

PRINCIPALES APLICACIONES
Aplicaciones para remoción de escala usando presión de trabajo extremadamente alta como:
- sectores de construcción e industriales (trabajos en carreteras, remoción de concreto de estructuras de concreto reforzado, salvaguardando los componentes metálicos)
- remoción de escala de cascos de barcos en astilleros
- eliminación de suciedad

TEMPERATURA CONTINUA DE SERVICIO
+15°F / +158°F -10°C / +70°C
MÁXIMA TEMPERATURA DE OPERACIÓN
200°F 93°C
FLUIDOS RECOMENDADOS
Agua, agua jabonosa, emulsiones

ESPIGA: MF2000® - TIPO BLASTLOCK
TUBO: Caucho sintético, resistente al agua
REFUERZO: 6 refuerzos en espiral de acero de alta resistencia
CUBIERTA: Caucho sintético resistente a altas temperaturas, ozono y abrasion
ESPECIFICACIONES APLICABLES: Diseño MANULI®, Australian Std. AS/NZS 4233.2
APROBACIONES: GOST-R, MSHA

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Oberflächenbehandlung durch extrem hohem Betriebsdruck wie in:
- Bau- und Industriebereich (Straßenbau, Betonentfernung, Betonschneiden)
- Reinigung und Bearbeitung der Schiffsrumpfsoberfläche
- Schmutzentfernung

DAUERBETRIEB
+15°F / +158°F -10°C / +70°C
MAX. BETRIEBSTEMPERATUR
200°F 93°C
EMPFOHLENE MEDIEN
Wasser, Seifenwasser-Emulsionen

NIPPEL: MF2000® - BLASTLOCK TYPE
SEELE: Wasserbeständiges Gummi
DRUCKTRÄGER: Sechs hochzugfeste Stahldrahtspiralen
DECKE: Synthetisches Gummi mit sehr hoher Temperatur- und Ozonbeständigkeit
ANGEWANDTE NORM: MANULI® Spec., Australian Std. AS/NZS 4233.2
ZULASSUNGEN: GOST-R, MSHA

IT

PRINCIPALI APPLICAZIONI
Applicazioni disincrostazione grazie all'utilizzo di elevatissime pressioni d'esercizio come:
- settori edile ed industriale, (lavori stradali, rimozione calcestruzzo da strutture in cemento armato a salvaguardia di componenti metallici)
- disincrostazione scafi di navi nei cantieri navali
- eliminazione della polvere

RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
+15°F / +158°F -10°C / +70°C
PICCO DI TEMPERATURA MASSIMA
200°F 93°C
FLUIDI RACCOMANDATI
Acqua, acqua saponata, emulsioni

INSERTO: MF2000® - TIPO BLASTLOCK
SOTTOSTRATO: Gomma sintetica resistente all'acqua
RINFORZO: Sei spirali di acciaio ad alto carico
COPERTURA: Gomma sintetica con elevata resistenza all'ozono, all'abrasione ed agli agenti atmosferici
SPECIFICHE: Design MANULI®, Australian Std. AS/NZS 4233.2
OMOLOGAZIONI: GOST-R, MSHA

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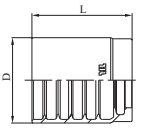
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MULTIFIT TYPE

FERRULE - CLEANING

M03400

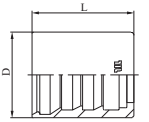
NO-SKIVE FERRULE FOR WIRE BRAID HOSES
CASQUILLO SIN PELADO PARA MANGUERAS CON TRENZA DE ACERO
NICHT-SCHÄLFASSUNG FÜR STAHLGEFLECHTSCHLÄUCHE
GHIERA PER TUBI TRECCIATI SENZA PELATURA



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		D	L				
M03400-04	6	1/4"	- 04		23,0	30,1				
M03400-05	8	5/16"	- 05		24,0	30,0				
M03400-06	10	3/8"	- 06		26,0	31,1				
M03400-08	12	1/2"	- 08		29,0	33,4				

M00120

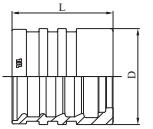
SKIVE FERRULE FOR WIRE BRAID HOSES
CASQUILLO CON PELADO PARA MANGUERAS CON TRENZA DE ACERO
SCHÄLFASSUNG FÜR STAHLGEFLECHTSCHLÄUCHE
GHIERA PER TUBI TRECCIATI CON PELATURA



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		D	L				
M00120-04	6	1/4"	- 04		19,5	28,0				
M00120-05	8	5/16"	- 05		20,0	28,6				

M00910

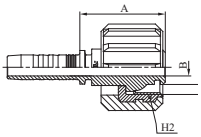
SKIVE FERRULE FOR WIRE BRAID AND SPIRAL HOSES
CASQUILLO CON PELADO PARA MANGUERAS CON TRENZA Y ESPIRAL DE ACERO
SCHÄLFASSUNG FÜR STAHLGEFLECHT- UND SPIRALSCHLÄUCHE
GHIERA PER TUBI TRECCIATI E SPIRALATI CON PELATURA



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		D	L				
M00910-06	10	3/8"	- 06		26,0	33,0				
M00910-08	12	1/2"	- 08		30,0	34,0				

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M24913

WASH CLEANER FEMALE
WASH CLEANER HEMBRA
WASCHGERÄTENIPPEL (TYP "K")
FEMMINA IDROPULITRICE

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	D	H_2		
M24913-04-22	6	1/4"	- 04	M 22x1.5	5,0	34,0	13,9	27		
M24913-05-22	8	5/16"	- 05	M 22x1.5	5,5	34,0	13,9	27		
M24913-06-22	10	3/8"	- 06	M 22x1.5	7,0	34,0	13,9	27		

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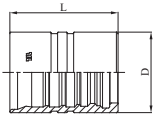
BLASTLOCK TYPE

MF2000®

FERRULE - BLASTING

M01500

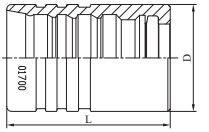
DOUBLE SKIVE FERRULE FOR HEAVY DUTY SPIRAL HOSES (4 PLY)
CASQUILLO DE PELADO INTERNO Y EXTERNO PARA MANGUERAS
CON REFUERZO EN ESPIRAL (4 ESPIRALES)
PRESSFASSUNG INNEN- UND AUSSENSCHÄLUNG FÜR HÖCHSTDRUCKSCHLÄUCHE (4-LAGIG)
GHIERA PER TUBI SPIRALATI CON DOPPIA PELATURA (4 SPIRALI)



PART. REF.	HOSE BORE				DIMENSIONS mm					
	DN	inch	Size		D	L				
M01500-16	25	1"	- 16		48,0	64,5				

M01700

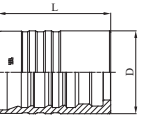
DOUBLE SKIVE FERRULE FOR EXTRA DUTY SPIRAL HOSES (4 PLY)
CASQUILLO DE PELADO INTERNO Y EXTERNO PARA MANGUERAS
CON REFUERZO EN ESPIRAL (4 ESPIRALES)
PRESSFASSUNG FÜR INNEN- UND AUSSENSCHÄLUNG FÜR SPEZIAL-SPIRALSCHLÄUCHE (4-LAGIG)
GHIERE A PELARE INTERNO/ESTERNO PER TUBI SPIRALATI (4 SPIRALI)
PER APPLICAZIONI ESTREMAMENTE SEVERE



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		D	L				
M01700-06	10	3/8"	- 06		29,7	57,5				
M01700-08	12	1/2"	- 08		34,0	65,0				
M01700-12	19	3/4"	- 12		45,1	69,0				

M01800

DOUBLE SKIVE FERRULE FOR EXTRA DUTY SPIRAL HOSES (6 PLY)
CASQUILLO DE PELADO INTERNO Y EXTERNO PARA MANGUERAS
CON REFUERZO EN ESPIRAL (6 ESPIRALES)
PRESSFASSUNG FÜR INNEN- UND AUSSENSCHÄLUNG FÜR SPEZIAL-SPIRALSCHLÄUCHE (6-LAGIG)
GHIERA A PELATURA INTERNA/ESTERNA PER TUBI SPIRALATI
(6 SPIRALI) PER APPLICAZIONI ESTREMAMENTE SEVERE



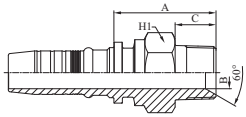
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		D	L				
M01800-08	12	1/2"	- 08		38,3	64,4				
M01800-12	19	3/4"	- 12		48,6	69,0				

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BLASTLOCK TYPE

CONNECTIONS - BLASTING

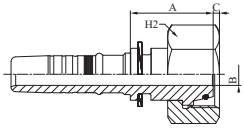


M57810

NPTF MALE 60° CONE SEAT - SAE J516/J514
MACHO NPTF ASIENTO A 60° - SAE J516/J514
AG NPTF KONUS 60° - SAE J516/J514
MASCHIO NPTF CONO 60° - SAE J516/J514

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	H_1		
M57810-06-06	10	3/8"	- 06	3/8" - 18	8,5	38,0	15,5	22		
M57810-08-08	12	1/2"	- 08	1/2" - 14	10,0	44,6	21,0	27		
M57810-12-12	20	3/4"	- 12	3/4" - 14	15,0	49,4	21,0	32		
M52810-16-16	25	1"	- 16	1" - 11.5	19,5	55,0	24,2	41		

M66613



METRIC O-RING FEMALE 24° CONE HEAVY DUTY - DIN 20066/ISO 12151-2 (SLIP-ON NUT)
HEMBRA MÉTRICA CON O-RING ASIENTO A 24° SERIE PESADA
DIN 20066/ISO 12151-2 (TUERCA LIBRE)
DKOS - DIN 20066/ISO 12151-2 (HINTERLEGTE MUTTER)
FEMMINA METRICA O-RING 24° SERIE PESANTE - DIN 20066/ISO 12151-2 (DADO PASSANTE)

PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm				
	DN	inch	Size	T	mm	B	A	C	H_2	
M66613-06-22	10	3/8"	- 06	M 22x1.5	14	4,8	32,0	3,5	27	
M66613-06-24	10	3/8"	- 06	M 24x1.5	16	6,3	34,2	4,0	32	
M66613-08-24	12	1/2"	- 08	M 24x1.5	16	7,5	35,4	4,0	32	
M66613-12-36	20	3/4"	- 12	M 36x2	25	12,0	44,7	3,4	46	
M66613-16-42	25	1"	- 16	M 42x2	30	19,5	43,5	5,3	50	

The BLASTLOCK fittings have to be used with the GOLDENBLAST hoses only, that are suggested for waterblasting applications. Please refer to XTRALOCK fittings dedicated to DIAMONDSPIR For hydraulic applications.

Los racores BLASTLOCK solo deben ser usados con las mangueras GOLDENBLAST, que son apropiadas para las aplicaciones de inyección de agua. Por favor, monte los racores XTRALOCK apropiados para la DIAMONDSPIR, para aplicaciones hidráulicas.

Die BLASTLOCK-Anschlüsse dürfen nur zusammen mit GOLDENBLAST-Schläuchen eingesetzt werden, die für Wasserstrahlanwendungen empfohlen werden. Verwenden Sie für hydraulische Anwendungen XTRALOCK-Anschlüsse speziell für DIAMONDSPIR.

I raccordi BLASTLOCK devono essere utiliazzati esclusivamente con i tubi GOLDENBLAST, ideali per le applicazioni waterblasting. Per le applicazioni idrauliche far riferimento ai raccordi XTRALOCK, dedicati al DIAMONDSPIR.

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FLUIDTECHNIK S.R.L.0723 382 199

BLASTLOCK TYPE

ASSEMBLING INSTRUCTIONS

The crimping operation to apply BLASTLOCK fittings must be carried out with proper high performance crimping/assembling machines (crimping force higher than 2800-3000 kN) and approved by Manuli Hydraulics, in order to guarantee the optimum coupling assembly deformations and hose gripping ■ It is recommended to follow the detailed assembling instructions supplied by Manuli Hydraulics to customers, assemblers and operators using the integrated package GOLDENBLAST hose & BLASTLOCK fittings ■ Each assembly must be pressure tested at the pressure level according to the reference specification (at least 1,25 times the WP for minimum 30 seconds) considering safety implications ■ Specialised personnel is recommended for the assembling operation of BLASTLOCK fittings

La operación de prensado para aplicar los acoples BLASTLOCK debe ser llevada a cabo con máquinas de alto desempeño para prensado/ensamble (fuerza de prensado mayor que 2800-3000 kN) y aprobadas por Manuli Hydraulics, para garantizar las óptimas deformaciones de acople y ensamble y agarre de la manguera ■ Se recomienda seguir las instrucciones detalladas de ensamble suministradas por Manuli Hydraulics a los clientes, ensambladores y operadores usando el paquete integrado Mangueras GOLDENBLAST & Acoples BLASTLOCK ■ Cada ensamble debe ser probado de acuerdo con las especificaciones de la referencia (al menos 1,25 veces la presión de trabajo por un mínimo de 30 segundos) considerando las implicaciones de seguridad ■ Se recomienda utilizar personal especializado para la operación de ensamble de los acoples BLASTLOCK

Die Verpressung von BLASTLOCK Armaturen muß mit einwandfreien Hochleistungs-Montagemaschinen (Presskraft mind. 2800-3000 kN) und mit Freigabe durch Manuli Hydraulics erfolgen um eine optimale Verformung der Armaturen und eine optimale Verankerung des Schlauches sicherzustellen ■ Wir empfehlen sich strikt an die Anweisungen zur Einbindung zu halten, wie sie von Manuli Hydraulics zur Verfügung gestellt werden und ausschl. die integrierte Lösung GOLDENBLAST™ Schlauch & BLASTLOCK Armatur zu verwenden ■ Aus Sicherheitsaspekten ist jede Schlauchleitung einem Drucktest entsprechend den Spezifikationen zu unterziehen (mindestens 1,25-facher WP für min. 30 sec.) ■ Die Einbindung sollte nur von speziell geschultem Fachpersonal durchgeführt werden

Il crimpaggio per applicare i raccordi BLASTLOCK deve avvenire su presse che possano garantire performance di un certo livello (forza di crimpaggio superiore a 2800-3000 kN) e che siano approvate da Manuli Hydraulics al fine di garantire un'ottima deformazione dei raccordi nonché una perfetta presa degli stessi sul tubo ■ Si consiglia di seguire le istruzioni dettagliate che Manuli Hydraulics fornisce ai clienti, agli assemblatori e a tutti gli operatori che utilizzano il pacchetto integrato formato da tubo GOLDENBLAST™ & raccordi BLASTLOCK ■ Ogni assemblato deve essere testato a pressione in particolare il livello di pressione deve essere conforme alle specifiche di riferimento (almeno 1.25 volte la pressione d'esercizio per minimo 30 secondi) sempre tenendo conto i parametri di sicurezza ■ Si raccomanda di far assemblare i raccordi BLASTLOCK a personale specializzato

PART. REF.	THREAD SIZE	OR SUPPLIED (NBR 90 ShA)	TIGHTENING TORQUE (Nm)
M66613-06-22	M 22x1,5	10x2	70
M66613-08-24	M 24x1,5	12x2	100
M66613-12-36	M 36x2	20,3x2,4	190
M66613-16-42	M 42x2	25,3x2,4	220

The following assembling instructions are strongly recommended on heavy-duty applications.

Debido al exigente desempeño de la aplicación, estas instrucciones de ensamble son recomendadas ampliamente.

Beï der Schwere der Anwendungen mit Extrembelastungen empfehlen wir unbedingt die folgenden Verarbeitungshinweise einzuhalten.

Si raccomanda di seguire attentamente le seguenti istruzioni d'assemblaggio in particolare in caso di applicazioni estremamente severe.

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GB RECOMMENDATIONS

Please find enclosed the following recommendations for the safe and correct use of Manuli Goldenblast product line.

- **DON'T MIX AND MATCH:** MRI strictly recommends the use of its integrated waterblasting package. The use of alternative hose or fittings can result in the assembly poor quality and reliability.
- In line with international regulations, **all waterblasting assemblies should be tested** to 150% of the indicated maximum static working pressure before using.
- If waterblast assemblies are used with a pressure rate exceeding the maximum working pressure indicated, the assemblies structure suffers for over-stressed situation.
  For the same reason, also **pulsating pressure** situations need to be avoided.
- **Relief valves** should be used to preserve waterblast equipment and hose assemblies.
- When **safety devices** are applied to prevent fitting blow-off, hose elongation and contraction need to be taken in consideration.
  Under pressure, the hose can vary from -4% up to +2% in lenght!
- **Waterblast assemblies should never be used in "hang down" position** because it brings hose reinforcement restriction to contraction/elongation and fittings over-stress to support the weight of the hanging hose.
- Strictly avoid to apply any **external force** on the hose assembly, such as axial tension, twisting, kinking or crushing.
- **Temperature** influences the resistance to leakage. Working temperature should be maintained below 70°C.
- Hose assemblies need to be replaced in case of **damage**, such as:
  - hose cover abrasion, cuts, chemical attack, corrosion
  - reinforcement crushing or twisting
- **High pressure water has always to be considered extremely dangerous.**
  Anyone handling waterblasting equipment should wear proper protective clothing, boots and eyes protection.



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ES RECOMENDACIONES

Para **el uso correcto y seguro** de los ensambles con GOLDENBLAST para agua a presión, MRI establece las siguientes recomendaciones:

- **NO MEZCLE:** MRI recomienda estrictamente el uso de su paquete integrado para agua a presión. El uso de mangueras y acoples alternativos con productos MRI pueden resultar en una pobre calidad del ensamble y dudosa fiabilidad.
- En línea con las regulaciones internacionales, **todos los ensambles para agua a presión deben ser examinados** al 150% de la presión de trabajo estática máxima antes de ponerlo en servicio.
- Usar acoples para agua a presión con presiones que exceden las presiones máximas de trabajo establecidas lleva a un sobre-recargo de la estructura interna. **Las válvulas de alivio** deben ser usadas para preservar el equipo para agua a presión y los ensambles de las mangueras.
- **Presión pulsante** también lleva a sobre-recargo de la estructura interna de la manguera y necesita ser evitada en el uso del equipo para agua a presión.
- El **uso de implementos de seguridad** contra desprendimiento de acoples o tramos de cadena para juntar mangueras debe permitir la elongación o contracción de la manguera. Bajo presión la manguera puede variar en longitud desde -4% hasta +2%
- **Los ensambles para agua a presión nunca deben ser usados colgando hacia abajo;** esto parece ser un hábito ampliamente difundido, sin embargo, lleva a sobre-recarga de esfuerzo de la manguera, restricción de la libre contracción/elongación y recargo excesivo en el acople, el cual está soportando el peso de la manguera colgando.
- **Las fuerzas externas** que llevan a tensión axial, torceduras, aplastamiento o enroscamiento de la manguera, deben ser estrictamente evitadas.
- La resistencia al goteo en los acoples de los ensambles está influenciada por la **temperatura**: para evitar pérdida de rendimiento, la temperatura de trabajo debe ser mantenida por debajo de los 70°C.
- Cualquier **daño de la cubierta de la manguera** (abrasión, cortes, ataque de químicos ácidos, corrosión de los alambres de acero al carbón) o el refuerzo (aplastamiento, torceduras) requiere el reemplazo del ensamble para evitar el riesgo de fallos inesperadas de la manguera.
- **El agua con alta presión ha sido siempre considerada como extremadamente peligrosa.** Cualquier persona que maneje un equipo con agua a presión debe usar la ropa de protección apropiada, botas y protector para los ojos.

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D EMPFEHLUNGEN

Für einen korrekten und sicheren Einsatz der Manuli Goldenblast-Schläuche muss man folgenden Empfehlungen von MRI folgen:

- **DON'T MIX AND MATCH:** es wird streng empfohlen von **GOLDENBLAST™** Schläuche mit den integrierten und spezifischen Armaturen Zu verwenden. Die Vermischung von Manuli Schläuchen oder Armaturen mit fremden Fabrikaten gefährdet die Qualität und die Sicherheit des Systems.
- Nach der internationalen Standards sollen **alle** Superhochdruckwasser-Schlauchleitungen vor der Inbetriebnahme mit einem Prüfdruck von **150%** des maximalen Betriebsdruckes geprüft werden
- Das Benutzen von Superhochdruckwasser- Schlauchleitungen mit Drücken, die den maximalen Betriebsdruck übersteigen, wird zur Überlastung der inneren Struktur führen. **Sicherheits** sollen eingesetzt werden, um die Überbeanspruchung von Geräten und Leitungen auszuschließen. Pulsierende Drücke müssen ebenfalls vermieden werden.
- Sicherheitsventile sollten verwendet werden, um eine Unversehrtheit der Schlauchleitungen und der Anlage zu gewährleisten.
- Bei Verwendung von **Sicherheitsvorrichtungen** gegen das Abrutschen der Armaturen und bei der Bündelung mehrerer Schläuche mit Ketten- bzw. Kabelsicherungen muss die Dehnung oder die Kürzung des Schlauches berücksichtigt werden.
- Unter Druck muss die Schlauchlänge zwischen –4% bis zu +2% variieren können.
- Superhochdruckwasserleitungen sollten **niemals vertikal hängen**. Diese weitverbreitete Angewohnheit führt zu einer verstärkten Überbelastung der Drahtverstärkung und zusätzlichen Stress in den Aussreisssicherungen der Armaturen, die das Gewicht des hängenden Schlauches halten müssen. Außerdem wird durch das ziehende Gewicht die oben erwähnte Ausdehnung und Kontraktion des Schlauches behindert.
- **Äußere Einflüsse**, die zu axialer Spannungen, Verdrehungen und Quetschungen oder Knicken der Schläuche führen könnten, müssen strengsten vermieden werden.
- Die Dichtigkeit der Schlauchleitung im Bereich der Einbindung wird durch die **Betriebstemperatur** stark beeinflusst: um einen Leistungsverlust zu verhindern, sollte die Betriebstemperatur unter 70°C liegen.
- Jede **Beschädigung der Schlauchdecke** (Abrieb, Schnitte, ätzende chemische Einflüsse, Wasserkorrosion von Kohlenstoffhaltigen-Stahldrähten) oder der Drahteinlage (Zerquetschungen, Torsionen) erfordert einen Austausch der Schlauchleitung, um das Risiko eines unerwarteten Ausfalls zu vermeiden.
- **Superhochdruckwasser-Arbeiten müssen immer als äußerst gefährlich eingestuft** werden. Jeder sollte vor der Handhabung von Wasserhochdruckleitungen geeignete Schutzbekleidung, Stiefel und Augenschutz tragen.

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IT RACCOMANDAZIONI

Per un corretto e sicuro utilizzo della linea Manuli Goldenblast, occorre tenere presente le seguenti raccomandazioni:

- **DON'T MIX AND MATCH:** MRI raccomanda lo stretto utilizzo del pacchetto integrato waterblasting. L'assemblato prodotto utilizzando tubi o raccordi alternativi potrebbe risultare di scarsa qualità e affidabilità.
- In linea con le vigenti regolamentazioni internazionali, prima della messa in servizio **tutti gli assemblati waterblasting dovrebbero essere testati al 150%** della pressione d'esercizio statica massima indicata.
- L'utilizzo di assemblati waterblasting con pressioni eccedenti i parametri massimi riportati provoca un eccessivo stress della struttura interna. Per lo stesso motivo, anche le pressioni intermittenti devono essere evitate.
- **Valvole di taratura** dovrebbero essere usate per conservare l'integrità dell'impianto waterblasting e degli assemblati.
- Quando si utilizzano dispositivi di sicurezza per evitare fuoriuscite dai raccordi, occorre considerare l'allungamento e la contrazione del tubo. Sotto pressione la lunghezza del tubo può variare da -4% a +4%!
- **Gli assemblai waterblasting non dovrebbero mai essere usati in sospensione**, perché tale posizione provoca il restringimento del rinforzo e la contrazione/l'allungamento del tubo, nonché un eccessivo stress al raccordo che supporta il peso del tubo pendente.
- Si raccomanda fortemente di evitare qualunque **forza esterna** che possa generare tensioni assiali, torsioni, compressioni o schiacciamenti dell'assemblato.
- La **temperatura** influisce sulla resistenza alle perdite, di conseguenza è consigliabile mantenere la temperatura sotto ai 70° C.
- Gli assemblati devono essere sostituiti in caso di danni quali:
  -abrasione, tagli, attacco di acidi chimici o corrosione della copertura del tubo
  -compressione o torsione del rinforzo.
- **L'elevata pressione dell'acqua è sempre da ritenersi estremamente pericolosa**. Chiunque movimenti l'impianto waterblasting dovrebbe indossare abiti protettivi, calzature antinfortunistiche e protezioni per gli occhi.

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REFRIGERATION

1935 - 2010 75°



Fluid connectors, solid solutions

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REFRIGERATION

INTRODUCTION - PRODUCT RANGE

GB

Manuli Refrigeration offer consists of reinforced rubber hoses, fittings, hose assemblies and kits.

The Refrigeration **offer** is designed specifically to satisfy the most restricted requirements aimed to the development of:

- **bus air conditioning** and **mobile refrigeration** systems for "on-road industrial vehicles"
- **air conditioning systems** applied on off-highway industrial vehicles such as: agricultural machines, earth-moving machines, forestry machines, etc.

The above systems are supplied both directly to manufacturers which need significant product volumes and through the sales service Manuli Hydraulics network.



Bus air conditioning
Aire acondicionado para buses
Klimatisierung von Bussen
Aria condizionata per bus

ES

La oferta de Refrigeración consiste en las reconocidas mangueras de caucho reforzado Manuli, acoples, ensambles de mangueras y kits.

La **oferta** de Refrigeración está diseñada específicamente para satisfacer los requerimientos más estrictos enfocados al desarrollo de:

- **aire acondicionado para buses** y sistemas móviles de refrigeración para "vehículos industriales en movimiento"
- **sistemas de aire acondicionado** aplicado en vehículos industriales fuera de carretera como: máquinas para la agricultura, máquinas para mover tierra, máquinas cosechadoras, etc.

Los sistemas arriba mencionados son suministrados directamente a los fabricantes que necesitan volúmenes significativos de producto y a través la red de ventas y servicio Manuli Hydraulics.

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Off highway air conditioning
Aire acondicionado para vehículos fuera de carretera
Klimatisierung von Land-, Forst und Baumaschinen
Aria condizionata per applicazioni off highway

D

Das Kältemittelschlauch-Angebot besteht aus den wohlbekannten Manuli Gummischläuchen mit Einlage, Armaturen, Schlauchleitungen und einem Kit für Klima- und mobile Kühlanlagen.

Das Kältemittelschlauch-**Angebot** wurde entwickelt um die härtesten Anforderungen zu erfüllen in folgenden Bereichen:

- **Klimatisierung von Bussen** und **mobile Kühlsysteme** für den Einsatz in Straßenfahrzeugen.
- **Klimaanlagen** für Nicht-Straßenfahrzeuge wie Land-, Forst- und Baumaschinen, etc.

Die oben genannten Komponenten werden sowohl direkt an Hersteller mit entsprechendem Bedarf als auch von unsere Verkauf und Service Netzwerk Manuli Hydraulics.

IT

L'offerta Refrigeration è composta dalla gamma di tubi in gomma rinforzati, raccordi, assemblati flessibili e kit per applicazioni aria condizionata e refrigerazione mobile.

L'**offerta** Refrigeration è studiata per soddisfare le richieste più esigenti relative allo sviluppo di:

- sistemi **aria condizionata** per veicoli "on-road" (bus) e sistemi per la **refrigerazione mobile**
- sistemi **aria condizionata** per veicoli "offhighway" (macchine agricole, macchine movimento terra, macchine forestali, ecc.).

Tali sistemi vengono forniti sia direttamente ai costruttori che necessitano di volumi significativi di prodotto sia tramite la rete di vendita e di servizio Manuli Hydraulics.



Mobile refrigeration
Refrigeración móvil
Mobile Kühlanlagen
Refrigerazione mobile

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GB

Manuli Hydraulics, which has always been committed to offering its customers the best possible service, has developed: a special "field-attachable" fitting technology allowing a convenient mounting and disassembly operation, in particular:

- **Frigoclic® fitting range technology**
- **Reusable fitting range technology**

Furthermore crimped fitting solution is completely integrated on all hose lines.
The appendix describes the main steps to assemble correctly our products.
Please browse through the above procedures before consulting our catalogue and selecting the most suitable product for your need.
Manuli Hydraulics supplies also full-equipped fittings (you can order 1 code receiving the insert plus the correspondent clamp/ferrule).
On demand fitting for special application can be manufactured (codesign with the custode will be very appreciate).

ES

Manuli Hydraulics, que ha estado siempre comprometida a ofrecer a sus clientes el mejor servicio posible, ha desarrollado: una tecnología especial "acorde a la necesidad" permitiendo un montaje conveniente y operación de desensamblaje, en particular:

- tecnología para la gama de racors Frigoclic®
- tecnología para la gama de racors reusables

Además la solución de racores prensados está integrado en todas las lineas de manguera.
El apéndice describe los pasos principales para ensamblar correctamente nuestros productos.
Por favor examine los procedimientos antes de consultar nuestro catálogo y seleccionar el producto más conveniente para sus necesidades.
Manuli Hydraulics suministra también racores completos (usted puede pedir 1 referencia, recibiendo la espiga y el correspondiente casquillo/abrazadera).
A solicitud racores para applicaciones especiales pueden ser fabricados (el codiseno con el cliente sera muy apreciado).

D

Manuli Hydraulics die Ihren Kunden stets den optimalen Service bieten möchte, hat eine spezielle vor Ort anwendbare Armaturen-Technologie entwickelt, in Speziellen:

- Frigoclic® Armaturen Technologie
- wiederverwendbare Armaturen Technologie (Schraubarmaturen).

Für alle Anwendungen die eine Verpressung erfordern, steht eine eigene Armaturen-Reihe zur Verfügung, voll integriert mit unseren Schlauch-Reihen.
Im Anhang finden Sie die Anleitung für die korrekte Montage unserer Produkte.
Bitte lesen Sie diese Seiten aufmerksam durch, bevor Sie in der Produktübersicht die für Sie am besten geeigneten Produkte auswählen.
Manuli Hydraulics liefert auch Komplettarmaturen (mit nur einer Teilenummer erhalten Sie Nippel und zugehörige Fassung komplett).
Auf anfrage sonderarmaturen nach Kundenwunsch auf Anfrage eraltlich.

IT

Da sempre orientato a fornire al Cliente il miglior servizio possibile, Manuli Hydraulics ha sviluppato una speciale tecnologia di raccordi "field-attachable" che consentono di effettuare in modo semplice le operazioni di montaggio e smontaggio sul veicolo, in particolare:

- tecnologia con raccordi tipo Frigoclic®
- tecnologia con raccordi tipo recuperabili.

Per tutte le applicazioni che non necessitano di tale funzione, è disponibile una gamma mirata di raccordi a pressare totalmente integrata su ogni linea di tubi.
Nell'appendice sono descritti i principali passi necessari per effettuare le corrette operazioni di assemblaggio.
Vi invitiamo a visionare tali procedure prima di consultare il catalogo e scegliere il prodotto più rispondente alle vostre necessità.
Manuli Hydraulics fornisce anche raccordi completi (ordinando 1 codice si riceve l'inserto e la corrispondente boccola o fascetta).
Su richiesta é possibile produrre raccordi per applicazioni speciali 8la progettazione in collaborazione col cliente é apprezzata).

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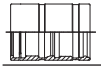
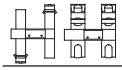
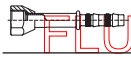
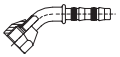
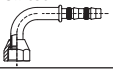
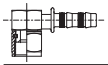
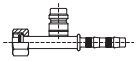
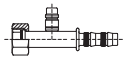
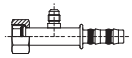
HOSE	INSERT	CLAMP	FERRULE	ONE-PIECE
REFRIMASTER	FRIGOCLIC (field attachable solution)	C01000	C00700	-
REFRIMASTER PLUS		C01050	C00750	-
REFRISTAR	STAR-FIT (reusable solution)	-	K00400	-
	STAR-CRIMP (crimped solution)	-	C00300	-
REFRIFAST	-	-	-	FAST-CRIMP (OPC serie)

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FITTINGS

REFRI

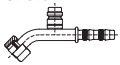
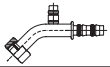
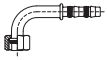
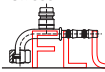
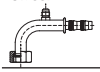
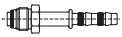
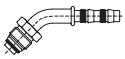
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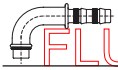
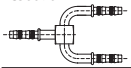
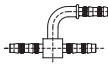
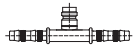
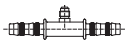
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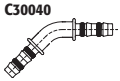
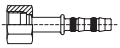
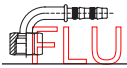
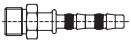
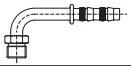
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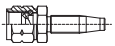
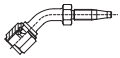
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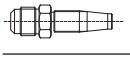
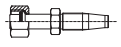
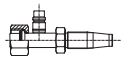
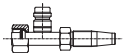
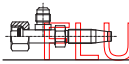
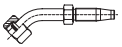
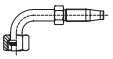
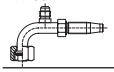
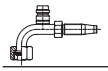
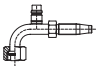
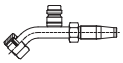
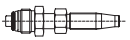
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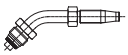
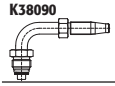
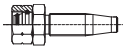
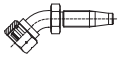
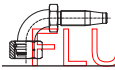
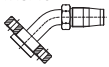
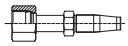
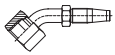
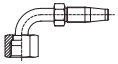
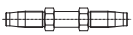
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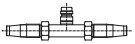
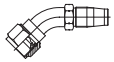
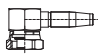
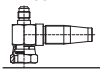
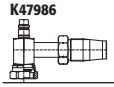
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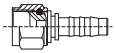
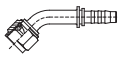
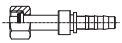
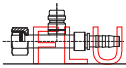
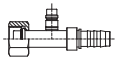
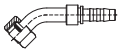
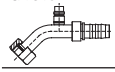
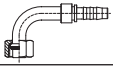
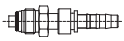
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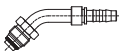
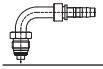
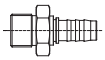
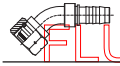
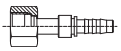
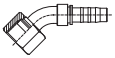
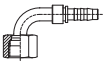
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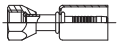
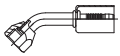
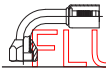
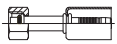
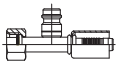
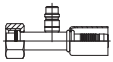
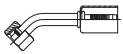
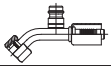
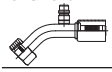
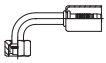
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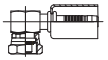
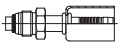
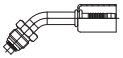
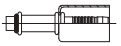
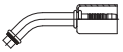
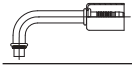
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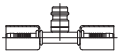
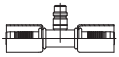
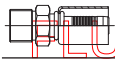
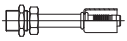
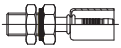
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REFRIMASTER

SAE J2064 TYPE E



PART. REF.	HOSE SIZE	O.D.	WORKING PRESSURE	BURST PRESSURE	MIN. BEND RADIUS	WEIGHT	REFRIMASTER FERRULE	REFRIMASTER CLAMP

	DN	dash	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	code	code
H09002008*	8	- 06	5/16"	12,7	0,50	35	500	250	3620	40,0	1,57	80	0,05	C00700-06	C01000-06
H09002010*	10	- 08	13/32"	16,0	0,63	35	500	250	3620	50,0	1,97	140	0,09	C00700-08	C01000-08
H09002013*	13	- 10	1/2"	18,1	0,71	35	500	150	2170	80,0	3,15	140	0,09	C00700-10	C01000-10
H09002016*	16	- 12	5/8"	21,7	0,85	35	500	150	2170	90,0	3,54	195	0,13	C00700-12	C01000-12

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Universal hose, compatible with the most common refrigerants and compressor lubricants ■ Low permeability to refrigerant fluid ■ Compact dimensions ■ Low weight and high flexibility ■ Field attachable and crimped solutions available with Frigoclic® insert

Manguera universal, compatible con los mas comunes refrigerantes y lubricantes para compresores ■ Baja permeabilidad al fluido refrigerante ■ Dimensiones compactas ■ Bajo peso, alta flexibilidad ■ Gama de racores integrados con inserto Frigoclic® estandarizado

Universalschlauch, kompatibel mit den gebräuchlichsten Kühlmitteln & Kompressorschmierstoffen ■ Geringe Kühlmittel-Durchlässigkeit ■ Kompakte Abmessungen ■ Geringes Gewicht und hohe Flexibilität ■ Zwei Alternativeinbindungen möglich, mit Schellen oder mit Pressfassung dank der Frigoclic® Armaturen

Tubo universale, compatibile con i più comuni refrigeranti e lubrificanti per compressori ■ Bassa permeabilità a fluidi refrigeranti ■ Dimensioni compatte ■ Peso contenuto e flessibilità elevata ■ Disponibilità della doppia soluzione di raccordatura, con fascetta e con boccola pressata, grazie ai raccordi Frigoclic®

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GB

MAIN APPLICATIONS: Air conditioning systems (Off-Highway machines, busses, ...). Mobile Refrigeration systems
CONTINUOUS WORKING TEMPERATURE:
-40°F / +257°F -40°C / +125°C
MAX. PEAK TEMPERATURE:
+284°F +140°C
REFRIGERANTS: Compatibility with a wide range of refrigerants (eg. R134a, R404A, R407C)
LUBRICANTS: Compatibility with the most common compressor lubricants (e.g. PAG, POE, Mineral Oils)

INSERT: FRIGOCLIC®
TUBE: high temperature resistant thermoplastic (PA) veneer
REINFORCEMENT: one textile braid
COVER: high temperature and environmental resistant syntethic rubber (EPDM)
SPECIFICATIONS: SAE J2064 Type E Class I

NOTE: Guaranteed performance only with Manuli fittings.
WARNING: Ask Manuli Hydraulics about other refrigerants and lubrificants

ES

PRINCIPALES APLICACIONES: Refrigeración móvil y sistemas de aire acondicionado en: bus, equipo fuera de carretera
TEMPERATURA DE TRABAJO CONTINUO:
-40°F / +257°F -40°C / +125°C
PICO MAXIMO DE TEMPERATURA:
+284°F +140°C
REFRIGERANTES: Compatibilidad con un amplio rango de refrigerantes (ej. R134a, R404A, R407C)
LUBRICANTES: Compatibilidad con los lubricantes de compresores más comunes (ej. PAG, POE, Aceites Minerales)

ESPIGA: FRIGOCLIC®
TUBO: termoplástico resistente a las altas temperaturas (PA)
REFUERZO: una trenza textil
CUBIERTA: caucho sintético resistente a las altas temperaturas y al ambiente (EPDM)
ESPECIFICACIONES: SAE J2064 Tipo E Clase I

NOTE: Comportamiento garantizado solamente con conexiones Manuli.
PRECAUCION: Pregunte a Manuli Hydraulics acerca de otros refrigerantes y lubricantes

FLUIDTECHNIK S.R.L 0723 382 199

D

HAUPTANWENDUNGEN: mobile Kühl- und Klimaanlagen in: Bussen, Baumaschinen
DAUERBETRIEBSTEMPERATUR:
-40°F / +257°F -40°C / +125°C
MAX. BETRIEBSTEMPERATUR (kurzzeitig):
+284°F +140°C
KÜHLMITTEL: beständig gegen ein weites Spektrum von Kühlmitteln (z.b. R134a, R404A, R407C)
SCHMIERMITTEL: beständig gegen die gebräuchlichsten Kompressorschmierstoffe (z.b. PAG, POE, Mineralöle)

NIPPEL: FRIGOCLIC®
SEELE: hochtemperaturbeständiges Thermoplastik (PA)
DRUCKTRÄGER: ein Textilgeflecht
DECKE: Gegen hohe Temperaturen und Umwelteinflüsse beständiges, synthetisches Gummi (EPDM)
SPEZIFAKATIONEN: SAE J2064 Type E Class I

ANMERKUNG: Garantierte Performance nur mit unseren Armaturen.
WARNUNG: Bezüglich anderer Kühlmittel & Kompressorschmierstoffe fragen Sie bitte Manuli Hydraulics

IT

PRINCIPALI APPLICAZIONI: Refrigerazione mobile e Impianti di A/C per autobus e macchine movimento terra (Off-Highway)
SPETTRO DI TEMPERATURA CONTINUA:
-40°F / +257°F -40°C / +125°C
PICCO DI TEMPERATURA MASSIMA:
+284°F +140°C
REFRIGERANTI: Compatibilità con un'ampia gamma di refrigeranti (e.g. R134a, R404A, R407C)
LUBRIFICANTI: Compatibilità con i più comuni lubrificanti per compressori, come PAG, POE e olii minerali

INSERTO: FRIGOCLIC®
SOTTOSTRATO: termoplastico veneer (PA) resistente alle alte temperature
RINFORZO: una treccia tessile
COPERTURA: gomma sintetica resistente alle alte temperature (EPDM) e agli agenti ambientali
SPECIFICHE: SAE J2064 Type E Class I

NOTE: Prestazioni garantite solo con i raccordi Manuli.
AVVERTENZA: Chiedere a Manuli Hydraulics riguardo ad altri refrigeranti e lubrificanti

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REFRIMASTER PLUS NEW

SAE J2064 TYPE E



PART. REF.	HOSE SIZE			O.D.		WORKING PRESSURE		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		REFRIMASTER PLUS FERRULE	REFRIMASTER PLUS CLAMP
	DN	dash	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	code	code
H09071013*	13	- 10	1/2"	20,4	0,80	35	500	150	2170	70,0	2,76	235	0,16	C00750-10	C01050-10
H09071016*	16	- 12	5/8"	23,8	0,94	35	500	150	2170	80,0	3,15	285	0,19	C00750-12	C01050-12
H09071022*	22	- 16	7/8"	31,0	1,22	35	500	150	2170	120,0	4,72	405	0,27	C00750-16	C01050-16

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Universal hose, compatible with the most common refrigerants and compressor lubricants ■ Low permeability to refrigerant fluid ■ Field attachable and crimped solutions available with Frigoclic® insert ■ Small bending radius. Improved resistance to kinking effect

Manguera universal, compatible con los mas comunes refrigerantes y lubricantes para compresores ■ Baja permeabilidad al fluido refrigerante ■ Gama de racores integrados con inserto Frigoclic® estandarizado ■ Menor radio de curvatura. Mejor resistencia a la rotura por flexibilidad

Universalschlauch, kompatibel mit den gebräuchlichsten Kühlmitteln & Kompressorschmierstoffen ■ Geringe Kühlmittel Permeabilität ■ Zwei Alternativeinbindungen möglich, mit Schellen oder mit Pressfassung dank der Frigoclic® Armaturen ■ Kleiner Biegeradius. Verbesserter Knickeffektschutz

Tubo universale, compatibile con i più comuni refrigeranti e lubrificanti per compressori ■ Bassa permeabilità a fluidi refrigeranti ■ Disponibilità della doppia soluzione di raccordatura, con fascetta e con boccola pressata, grazie ai raccordi Frigoclic® ■ Ridotto raggio di curvatura: migliore resistenza allo schiacciamento

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MAIN APPLICATIONS: Air conditioning systems (Off-Highway machines, busses, ...). Mobile Refrigeration systems
CONTINUOUS WORKING TEMPERATURE:
-40°F / +257°F -40°C / +125°C
MAX. PEAK TEMPERATURE:
+284°F +140°C
REFRIGERANTS: Compatibility with a wide range of refrigerants (eg. R134a, R404A, R407C)
LUBRICANTS: Compatibility with the most common compressor lubricants (e.g. PAG, POE, Mineral Oils)

INSERT: FRIGOCLIC®
TUBE: high temperature resistant thermoplastic (PA) veneer
REINFORCEMENT: one textile braid
COVER: high temperature and environmental resistant syntethic rubber (EPDM)
SPECIFICATIONS: SAE J2064 Type E Class I

NOTE: Guaranteed performance only with Manuli fittings.
WARNING: Ask Manuli Hydraulics about other refrigerants and lubrificants

ES

PRINCIPALES APLICACIONES: Refrigeración móvil y sistemas de aire acondicionado en: bus, equipo fuera de carretera
TEMPERATURA DE TRABAJO CONTINUO:
-40°F / +257°F -40°C / +125°C
PICO MAXIMO DE TEMPERATURA:
+284°F +140°C
REFRIGERANTES: Compatibilidad con un amplio rango de refrigerantes (ej. R134a, R404A, R407C)
LUBRICANTES: Compatibilidad con los lubricantes de compresores más comunes (ej. PAG, POE, Aceites Minerales)

ESPIGA: FRIGOCLIC®
TUBO: termoplástico resistente a las altas temperaturas (PA)
REFUERZO: una trenza textil
CUBIERTA: caucho sintético resistente a las altas temperaturas y al ambiente (EPDM)
ESPECIFICACIONES: SAE J2064 Tipo E Clase I

NOTE: Comportamiento garantizado solamente con conexiones Manuli.
PRECAUCION: Pregunte a Manuli Hydraulics acerca de otros refrigerantes y lubricantes

FLUIDTECHNIK S.R.L 0723 382 199

D

HAUPTANWENDUNGEN: Mobile Kühl- und Klimaanlagen in: Bussen, Baumaschinen
DAUERBETRIEBSTEMPERATUR:
-40°F / +257°F -40°C / +125°C
MAX. BETRIEBSTEMPERATUR (kurzzeitig):
+284°F +140°C
KÜHLMITTEL: Beständig gegen ein weites Spektrum von Kühlmitteln (z.b. R134a, R404A, R407C)
SCHMIERMITTEL: Beständig gegen die gebräuchlichsten Kompressorschmierstoffe (z.b. PAG, POE, Mineralöle)

NIPPEL: FRIGOCLIC®
SEELE: hitzebeständige thermoplastische (PA) Umhüllung
DRUCKTRÄGER: Ein Textilgeflecht
DECKE: Gegen hohe Temperaturen und Umwelteinflüsse beständiges, synthetisches Gummi (EPDM)
SPEZIFIKATIONEN: SAE J2064 Typ E Class I

ANMERKUNG: Garantierte Performance nur mit unseren Armaturen.
WARNUNG: Bezüglich anderer Kühlmittel & Kompressorschmierstoffe fragen Sie bitte Manuli Hydraulics

IT

PRINCIPALI APPLICAZIONI: Refrigerazione mobile e Impianti di A/C per autobus e macchine movimento terra (Off-Highway)
SPETTRO DI TEMPERATURA CONTINUA:
-40°F / +257°F -40°C / +125°C
PICCO DI TEMPERATURA MASSIMA:
+284°F +140°C
REFRIGERANTI: Compatibilità con un'ampia gamma di refrigeranti (e.g. R134a, R404A, R407C)
LUBRIFICANTI: Compatibilità con i più comuni lubrificanti per compressori, come PAG, POE e olii minerali

INSERTO: FRIGOCLIC®
SOTTOSTRATO: termoplastico veneer (PA) resistente alle alte temperature
RINFORZO: una treccia tessile
COPERTURA: gomma sintetica resistente alle alte temperature e agli agenti ambientali (EPDM)
SPECIFICHE: SAE J2064 Type E Class I

NOTE: Prestazioni garantite solo con i raccordi Manuli.
AVVERTENZA: Chiedere a Manuli Hydraulics riguardo ad altri refrigeranti e lubrificanti

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REFRI STAR

SAE J2064 TYPE B



PART. REF.	HOSE SIZE			O.D.		WORKING PRESSURE		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		STAR-FIT FERRULE (REUSABLE)	STAR-CRIMP FERRULE (CRIMPED)
	DN	dash	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	code	code
H01110005*	5	- 04	3/16"	13,0	0,51	35	500	150	2170	85	3,35	215	0,14	K00400-04	C00300-04
H01110008*	8	- 06	5/16"	17,2	0,68	35	500	150	2170	85	3,35	325	0,22	K00400-06	C00300-06
H01110010*	10	- 08	13/32"	19,3	0,76	35	500	150	2170	95	3,74	380	0,26	K00400-08	C00300-08
H01110012*	13	- 10	1/2"	23,4	0,92	35	500	150	2170	115	4,53	520	0,35	K00400-10	C00300-10
H01110016*	16	- 12	5/8"	27,3	1,07	35	500	150	2170	135	5,31	660	0,44	K00400-12	C00300-12
H01110022*	22	- 16	7/8"	31,2	1,23	35	500	150	2170	155	6,10	670	0,45	K00400-16	C00300-16
H01110028*	28	- 20	1.1/8"	38,0	1,50	35	500	150	2170	190	7,48	870	0,58	K00400-20	C00300-20
H01110035*	35	- 24	1.3/8"	44,8	1,76	35	500	150	2170	230	9,06	1200	0,81	K00400-24	

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Low permeability ■ High flexibility
Baja permeabilidad ■ Alta flexibilidad
Geringe Permeabilität ■ Hohe Flexibilität
Bassa permeabilità ■ Alta flessibilità

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MAIN APPLICATIONS: Bus and off-highway equipments air conditioning systems
CONTINUOUS WORKING TEMPERATURE:
-40°F / +257°F -40°C / +125°C
REFRIGERANTS: R134a
LUBRICANTS: PAG, POE
Ask Manuli Hydraulics about other refrigerants and lubrificants

INSERT: star-fit (Patent pending); star-crimp
TUBE: (IIR) low permeability to refrigerant fluid and compatibility with the most common compressor lubricant
REINFORCEMENT: one steel wire braid
COVER: high temperature and environmental resistant syntethic rubber (CSM)
SPECIFICATIONS: SAE J2064 Type B Class I
TYPE APPROVALS: GOST-R

NOTE: Guaranteed performance only with Manuli fittings.

ES

PRINCIPALES APLICACIONES: Sistemas de aire acondicionado en buses y equipo fuera de carretera
TEMPERATURA DE TRABAJO CONTINUO:
-40°F / +257°F -40°C / +125°C
REFRIGERANTES: R134a
LUBRICANTES: PAG, POE
Pregunte a Manuli Hydraulics acerca de otros refrigerantes y lubricantes

ESPIGA: star-fit (Patent pending); star-crimp
TUBO: (IIR) baja permeabilidad al fluido refrigerante y compatibilidad con los ms comunes lubricantes para compresor
REFUERZO: una trenza de acero
CUBIERTA: caucho sintético resistente a las altas temperaturas y al ambiente (CSM)
ESPECIFICACIONES: SAE J2064 Tipo B Clase I
APROBACIONES: GOST-R

NOTE: Comportamiento garantizado solamente con nuestras Manuli conexiones.

FLUIDTECHNIK S.R.L 0723 382 199

D

HAUPTANWENDUNGEN: Klimaanlagen in Bussen und Baumaschinen
DAUERBETRIEBSTEMPERATUR:
-40°F / +257°F -40°C / +125°C
KÜHLMITTEL: R134a
SCHMIERMITTEL: PAG, POE
Bezüglich anderer Kühlmittel & Kompressorschmierstoffe fragen Sie bitte Manuli Hydraulics

NIPPEL: star-fit (Patent angemeldet); star-crimp
SEELE: (IIR) geringe Kühlmittel-Durchlässigkeit, kompatibel mit den gebräuchlichsten Kühlmitteln & Kompressorschmierstoffen
DRUCKTRÄGER: ein Stahldrahtgeflecht
DECKE: Gegen hohe Temperaturen und Umwelteinflüsse beständiges, synthetisches Gummi (EPDM)
SPEZIFAKATIONEN: SAE J2064 Type B Class I
ZULASSUNGEN: GOST-R

ANMERKUNG: Garantierte Performance nur mit unseren Armaturen.

IT

PRINCIPALI APPLICAZIONI: Impianti di A/C per grandi bus e macchine movimento terra
SPETTRO DI TEMPERATURA CONTINUA:
-40°F / +257°F -40°C / +125°C
REFRIGERANTI: R134a
LUBRIFICANTI: PAG, POE
Chiedere a Manuli Hydraulics riguardo ad altri refrigeranti e lubrificanti

INSERTO: star-fit (Patent pending); star-crimp
SOTTOSTRATO: (IIR) bassa permeabilità ai fluidi refrigeranti e compatibilità con i più comuni lubrificanti per compressori
RINFORZO: una treccia in acciaio
COPERTURA: gomma sintetica resistente alle alte temperature e agli agenti ambientali (CSM)
SPECIFICHE: SAE J2064 Type B Class I
OMOLOGAZIONI: GOST-R

NOTE: Prestazioni garantite solo con i raccordi Manuli.

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REFRI FAST

SAE J2064 TYPE A



PART. REF.	HOSE SIZE			O.D.		WORKING PRESSURE		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	mm
H09068008*	8	- 06	5/16"	15,5	0,61	35	500	150	2170	30	1,18	165	0,11	OPC-06
H09068010*	10	- 08	13/32"	18,0	0,71	35	500	150	2170	50	1,97	200	0,13	OPC-08
H09068012*	13	- 10	1/2"	20,0	0,79	35	500	150	2170	60	2,36	230	0,15	OPC-10
H09068016*	16	- 12	5/8"	23,5	0,93	35	500	150	2170	80	3,15	295	0,20	OPC-12

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Higher compact dimensions within type A hoses and outside diameter comparable with reduced barrier hoses ■ Low weight ■ Easy installation in space constraints ■ High flexibility and low bend radius ■ Low refrigerants permeability and moisture ingression

Superior dimensión compacta en la manguera tipo A y diámetro exterior comparable con las mangueras compactas "barrier" ■ Fácil instalación en espacios reducidos ■ Alta flexibilidad y radio de curvatura ■ Baja permeabilidad al refrigerante y al incremento de humedad

Sehr kompakte Abmessung innerhalb der Klimaschläuche Typ A und Aussendurchmesser vergleichbar mit den Barrier-Schläuche mit geringerem Durchmesser ■ geringeres Gewicht ■ Einfachere Installation in engen Räumen ■ Hohe Flexibilität und geringer Biegeradius ■ Niedrige Durchlässigkeit gegenüber Kühlmittel und Feuchtigkeit

Dimensioni molto compatte all'interno della categoria dei tubi Type A e diametro esterno paragonabile a quello dei tubi barrier a sezione ridotta ■ Peso contenuto ■ Facilità di installazione in spazi ristretti ■ Flessibilità elevata e raggio di curvatura ridotto ■ Bassi valori di permeabilità ai refrigeranti e di ingresso dell'umidità

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GB

MAIN APPLICATIONS: A/C system for off-highway vehicles, small/medium busses and special vehicles such as recreation vehicles and military vehicles.
CONTINUOUS WORKING TEMPERATURE:
-40°F / +257°F -40°C / +125°C
REFRIGERANTS: R134a
LUBRICANTS: PAG, POE
Ask Manuli Hydraulics about other refrigerants and lubrificants

INSERT: fast-crimp
TUBE: (IIR) low refrigerant fluid permeability and compatibility with the most common compressor lubricant
REINFORCEMENT: one textile braid
COVER: high temperature (max 125°C) and environmental (ozone resistance) resistant synthetic rubber (EPDM)
SPECIFICATIONS: SAE J2064 Type A Class I

NOTE: Guaranteed performance only with Manuli fittings.

ES

PRINCIPALES APLICACIONES: vehículos en carretera, vehículos de recreación y especiales como, buses y vehículos del ejercito.
TEMPERATURA DE TRABAJO CONTINUO:
-40°F / +257°F -40°C / +125°C
REFRIGERANTES: R134a
LUBRICANTES: PAG, POE
Pregunte a Manuli Hydraulics acerca de otros refrigerantes y lubricantes

ESPIGA: fast-crimp
TUBO: (IIR) Baja permeabilidad al refrigerante y compatible con el lubricante más común del compresor
REFUERZO: una trenza textil
CUBIERTA: alta temperatura (max 125°C) y medioambiental (resistente al ozono). Caucho sintético resistente (EPDM)
ESPECIFICACIONES: SAE J2064 Tipo A Clase I

NOTE: Comportamiento garantizado solamente con nuestras Manuli conexiones.

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPTANWENDUNGEN: A/C Anlagen für Erdbewegungsmaschienen. kleine und mittlere Busse, Militärfahrzeuge
DAUERBETRIEBSTEMPERATUR:
-40°F / +257°F -40°C / +125°C
KÜHLMITTEL: R134A
SCHMIERMITTEL: PAG, POE
Bezüglich anderer Kühlmittel & Kompressorschmierstoffe fragen Sie bitte Manuli Hydraulics

NIPPEL: fast-crimp
SEELE: (IIR) geringe Kühlmittel-Durchlässigkeit, kompatibel mit den gebräuchlisten Kühlmitteln und Kompressorschmierstoffen
DRUCKTRÄGER: ein Textilgeflecht
DECKE: Gegen hohen Temperaturen (max 125°C) und Umwelteinflüsse (Ozon) beständiges, synthetisches Gummi (EPDM)
SPEZIFAKATIONEN: SAE J2064 Type A Class I

ANMERKUNG: Garantierte Performance nur mit unseren Armaturen.

IT

PRINCIPALI APPLICAZIONI: impianti di A/C per macchine movimento terra, bus di piccole e medie dimensioni, veicoli speciali come veicoli per il tempo libero e veicoli militari.
SPETTRO DI TEMPERATURA CONTINUA:
-40°F / +257°F -40°C / +125°C
REFRIGERANTI: R134a
LUBRIFICANTI: PAG, POE
Chiedere a Manuli Hydraulics riguardo ad altri refrigeranti e lubrificanti

INSERTO: fast-crimp
SOTTOSTRATO: (IIR) bassa permeabilità ai refrigeranti e compatibilità con i più comuni lubrificanti per compressori
RINFORZO: una treccia tessile
COPERTURA: gomma sintetica (EPDM) resistente alle alte temperature (max 125°C) e agli agenti ambientali (resistenza all'ozono)
SPECIFICHE: SAE J2064 Type A Class I

NOTE: Prestazioni garantite solo con i raccordi Manuli.

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FRIGOCLIC® FITTINGS

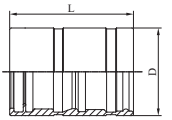
REFRIMASTER

REFRIMASTER PLUS

SAE J2064 TYPE E

C00700

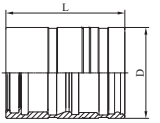
REFRIMASTER FERRULE
CASQUILLO REFRIMASTER
REFRIMASTER FASSUNG
BOCCOLA REFRIMASTER



PART. REF.	HOSE BORE				DIMENSIONS mm					
	DN	Dash	inch		D	L				
C00700-06	8	- 06	5/16"		19,5	39,6				
C00700-08	10	- 08	13/32"		22,5	40,3				
C00700-10	13	- 10	1/2"		25,0	40,3				
C00700-12	16	- 12	5/8"		29,0	41,0				

C00750

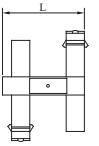
REFRIMASTER PLUS FERRULE
CASQUILLO REFRIMASTER PLUS
REFRIMASTER PLUS FASSUNG
BOCCOLA REFRIMASTER PLUS



PART. REF.	HOSE BORE				DIMENSIONS mm					
	DN	Dash	inch		D	L				
C00750-10	13	- 10	1/2"		27,5	40,3				
C00750-12	16	- 12	5/8"		31,3	41,0				
C00750-16	22	- 16	7/8"		38,0	48,5				

C01000

REFRIMASTER CLAMP
ABRAZADERA REFRIMASTER
REFRIMASTER KLAMMER
FASCETTA REFRIMASTER



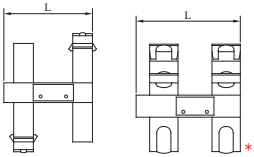
PART. REF.	HOSE BORE				DIMENSIONS mm					
	DN	Dash	inch		L					
C01000-06	8	- 06	5/16"		27,5					
C01000-08	10	- 08	13/32"		27,5					
C01000-10	13	- 10	1/2"		27,5					
C01000-12	16	- 12	5/8"		27,5					

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FRIGOCLIC® FITTINGS

SAE J2064 TYPE E



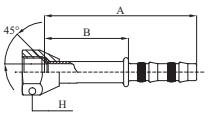
C01050

REFRIMASTER PLUS CLAMP
ABRAZADERA REFRIMASTER PLUS
REFRIMASTER PLUS KLAMMER
FASCETTA REFRIMASTER PLUS

PART. REF.	HOSE BORE		DIMENSIONS mm

	DN	Dash	inch		L
C01050-10	13	- 10	1/2"		27,5
C01050-12	16	- 12	5/8"		27,5
C01050-16	22	- 16	7/8"		33,1

* **For C01050-16 only** / Solo para el codigo C01050-16 / Nur für C01050-16 / Valida solo per il codice C01050-16.



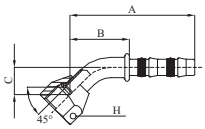
C42610

45° SAE STRAIGHT FEMALE
HEMBRA 45° SAE RECTO
45° SAE DICHTKOPF GERADE
FEMMINA 45° SAE - DRITTO

PART. REF.	HOSE SIZE		THREAD	DIMENSIONS mm			

FLUIDTECHNIK S.R.L. 0723 382 199

	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$		H
C42610-06-04	8	- 06	5/16"	7/16"-20-UNF-2B	78,5	39,9		14
C42610-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	77,8	39,2		19
C42610-08-06	10	- 08	13/32"	5/8"-18-UNF-2B	78,0	39,4		19
C42610-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	86,1	47,5		22
C42610-10-08	13	- 10	1/2"	3/4"-16-UNF-2B	84,0	45,4		22
C42610-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	86,3	47,7		27
C42610-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	87,0	48,4		27



C42640

45° SAE FEMALE 45° ELBOW
HEMBRA RECTA SAE CODO 45°
45° SAE DICHTKOPF - 45° BOGEN
FEMMINA 45° SAE - CURVA 45°

PART. REF.	HOSE SIZE		THREAD	DIMENSIONS mm			

	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	H
C42640-06-04	8	- 06	5/16"	7/16"-20-UNF-2B	82,5	43,9	18,0	14
C42640-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	83,6	45,0	14,0	19
C42640-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	91,3	52,7	16,0	22
C42640-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	102,3	63,7	16,0	27
C42640-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	100,5	61,9	16,0	27
C42640-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	95,7	57,1	26,5	32

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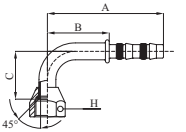
FRIGOCLIC® FITTINGS

REFRI MASTER
REFRI MASTER PLUS

SAE J2064 TYPE E

C42690

45° SAE FEMALE 90° ELBOW
HEMBRA 45° SAE CODO 90°
45° SAE DICHTKOPF - 90° BOGEN
FEMMINA 45° SAE - CURVA 90°

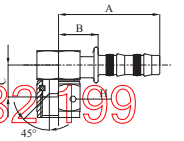


PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H
C42690-06-04	8	- 06	5/16"	7/16"-20-UNF-2B	70,5	31,9	33,0	14
C42690-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	81,8	43,2	26,0	19
C42690-08-06	10	- 08	13/32"	5/8"-18-UNF-2B	77,0	38,4	26,0	19
C42690-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	82,7	44,1	34,0	22
C42690-10-08	13	- 10	1/2"	3/4"-16-UNF-2B	86,0	47,4	34,0	22
C42690-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	103,1	64,5	37,0	27
C42690-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	99,0	60,4	37,0	27
C42690-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	85,1	46,5	53,0	32

C42680

SHORT VERSION 45° SAE FEMALE 90° ELBOW
HEMBRA 45° SAE TIPO CORTO CODO 90°
45° SAE DICHTKOPF KURZE VERSION - 90° BOGEN
FEMMINA 45° SAE - TIPO CORTO - CURVA 90°

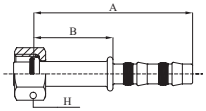
FLUIDTECHNIK S.R.L. 0723 382 199



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H
C42680-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	63,0	24,5	20,0	27

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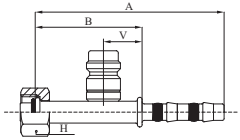


C47910

STRAIGHT O-RING FEMALE
HEMBRA O-RING RECTO
DICHTKOPF O-RING GERADE
FEMMINA O-RING - DRITTO

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	H	
C47910-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	68,9	30,3	19	
C47910-06-08	8	- 06	5/16"	3/4"-16-UNF-2B	83,5	44,9	22	
C47910-08-06	10	- 08	13/32"	5/8"-18-UNF-2B	74,0	35,4	19	
C47910-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	85,0	46,4	22	
C47910-08-08105	10	- 08	13/32"	3/4"-16-UNF-2B	105,0	66,4	22	
C47910-08-11	10	- 08	13/32"	1"-14-UNS-2B	86,0	44,4	25	
C47910-10-08	13	- 10	1/2"	3/4"-16-UNF-2B	103,0	64,4	22	
C47910-10-08103	13	- 10	1/2"	3/4"-16-UNF-2B	103,0	64,4	22	
C47910-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	85,0	46,5	27	
C47910-10-11	13	- 10	1/2"	1"-14-UNS-2B	82,4	43,8	29	
C47910-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	87,6	49,0	27	
C47910-12-11	16	- 12	5/8"	1"-14-UNS-2B	86,0	47,4	29	
C47910-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	94,2	55,6	32	
C47910-16-12	22	- 16	7/8"	1.1/16"-14-UNS-2B	104,5	58,2	32	

FLUIDTECHNIK S.R.L. 0723 382 199



C47915

STRAIGHT O-RING FEMALE WITH HIGH PRESSURE VALVE
HEMBRA O-RING RECTO CON VÁLVULA DE ALTA PRESION
DICHTKOPF O-RING GERADE MIT HOCHDRUCKVENTIL
FEMMINA O-RING - DRITTO CON VALVOLA ALTA PRESSIONE

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	H	V±1
C47915-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	88,9	50,3	19	18,1
C47915-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	95,0	56,5	22	24,0
C47915-08-11	10	- 08	13/32"	1"-14-UNS-2B	86,0	47,4	29	26,9
C47915-10-08	13	- 10	1/2"	3/4"-16-UNF-2B	97,0	58,4	22	26,0
C47915-12-10	16	- 10	5/8"	7/8"-14-UNF-2B	94,0	55,4	27	26,0

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FRIGOCLIC® FITTINGS

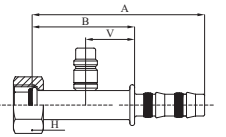
REFRI❄MASTER

REFRI❄MASTER PLUS

SAE J2064 TYPE E

C47916

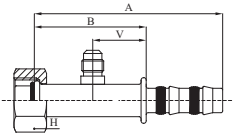
STRAIGHT O-RING FEMALE WITH LOW PRESSURE VALVE
HEMBRA O-RING RECTO CON VÁLVULA DE BAJA PRESION
DICHTKOPF O-RING GERADE MIT NIEDERDRUCKVENTIL
FEMMINA O-RING - DRITTO CON VALVOLA BASSA PRESSIONE



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	H	V±1
C47916-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	95,0	56,4	27	27,0
C47916-10-11	13	- 10	1/2"	1"-14-UNS-2B	82,4	43,8	29	22,3
C47916-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	94,0	55,4	27	26,0

C47912

STRAIGHT O-RING FEMALE 1/4" SAE CHARGE VALVE
HEMBRA O-RING RECTO CON VÁLVULA DE CARGA 1/4" SAE
DICHTKOPF O-RING GERADE MIT 1/4" SAE FÜLLVENTIL
FEMMINA O-RING - DRITTO CON VALVOLA DI CARICA 1/4" SAE

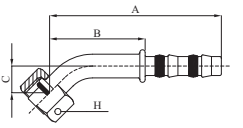


PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H
C47912-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	95,0	56,4	27,0	27

FLUIDTECHNIK S.R.L. 0723 382 199

C47940

O-RING FEMALE 45° ELBOW
HEMBRA O-RING CODO 45°
DICHTKOPF O-RING - 45° BOGEN
FEMMINA O-RING - CURVA 45°



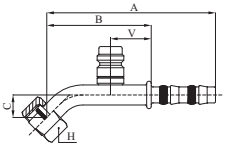
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H
C47940-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	84,9	46,3	12,5	19
C47940-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	91,3	52,7	13,5	22
C47940-08-11	10	- 08	13/32"	1"-14-UNS-2B	106,0	67,4	22,0	25
C47940-10-08	13	- 10	1/2"	3/4"-16-UNF-2B	87,0	48,4	13,5	22
C47940-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	107,7	69,1	24,0	27
C47940-10-11	13	- 10	1/2"	1"-14-UNS-2B	105,2	67,3	22,0	29
C47940-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	108,5	69,9	24,0	27
C47940-12-11	16	- 12	5/8"	1"-14-UNS-2B	106,5	67,9	22,0	29
C47940-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	115,9	77,3	27,0	32
C47940-16-12	22	- 16	7/8"	1.1/16"-14-UNS-2B	124,9	78,8	27,0	32

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FRIGOCLIC® FITTINGS

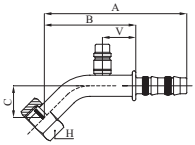
SAE J2064 TYPE E



C47945

O-RING FEMALE 45° ELBOW WITH HIGH PRESSURE VALVE
HEMBRA O-RING CODO 45° CON VÁLVULA DE ALTA PRESION
DICHTKOPF O-RING - 45° BOGEN MIT HOCHDRUCKVENTIL
FEMMINA O-RING - CURVA 45° CON VALVOLA ALTA PRESSIONE

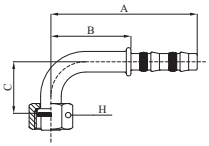
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H	V±1
C47945-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	101,3	62,7	13,5	22	24,4



C47946

O-RING FEMALE 45° ELBOW WITH LOW PRESSURE VALVE
HEMBRA O-RING CODO 45° CON VÁLVULA DE BAJA PRESION
DICHTKOPF O-RING - 45° BOGEN MIT NIEDERDRUCKVENTIL
FEMMINA O-RING - CURVA 45° CON VALVOLA BASSA PRESSIONE

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H	V±1
C47946-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	107,7	69,1	24,0	27	25,2
C47946-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	108,5	69,9	24,0	27	26,0



C47990

O-RING FEMALE 90° ELBOW
HEMBRA O-RING CODO 90°
DICHTKOPF O-RING - 90° BOGEN
FEMMINA O-RING - CURVA 90°

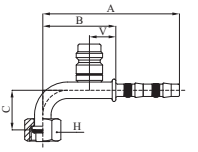
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H
C47990-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	72,9	34,3	24,0	19
C47990-06-08	8	- 06	5/16"	3/4"-16-UNF-2B	88,0	49,4	30,0	22
C47990-08-06	10	- 08	13/32"	5/8"-18-UNF-2B	79,0	40,4	24,0	19
C47990-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	85,6	47,0	30,0	22
C47990-08-08037	10	- 08	13/32"	3/4"-16-UNF-2B	89,1	50,5	36,5	22
C47990-08-11	10	- 08	13/32"	1"-14-UNS-2B	84,0	45,4	39,0	25
C47990-10-08	13	- 10	1/2"	3/4"-16-UNF-2B	90,5	51,9	36,5	22
C47990-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	104,0	65,4	45,0	27
C47990-10-11	13	- 10	1/2"	1"-14-UNS-2B	107,2	68,6	39,0	29
C47990-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	101,0	62,4	45,0	27
C47990-12-11	16	- 12	5/8"	1"-14-UNS-2B	99,1	60,5	39,0	29
C47990-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	104,9	66,3	54,5	32
C47990-16-10	22	- 16	7/8"	7/8"-14-UNF-2B	109,5	63,4	45,0	27

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C47995

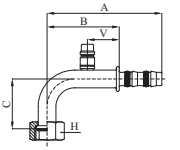
O-RING FEMALE 90° ELBOW WITH HIGH PRESSURE VALVE
HEMBRA O-RING CODO 90° CON VÁLVULA DE ALTA PRESION
DICHTKOPF O-RING - 90° BOGEN MIT HOCHDRUCKVENTIL
FEMMINA O-RING - CURVA 90° CON VALVOLA ALTA PRESSIONE



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H	V±1
C47995-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	82,9	44,3	24,0	19	16,0
C47995-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	89,1	50,5	36,5	22	24,5
C47995-10-08	13	- 10	1/2"	3/4"-16-UNF-2B	90,5	51,9	36,5	22	26,0

C47996

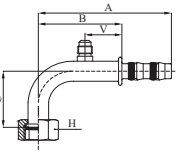
O-RING FEMALE 90° ELBOW WITH LOW PRESSURE VALVE
HEMBRA O-RING CODO 90° CON VÁLVULA DE BAJA PRESION
DICHTKOPF O-RING - 90° BOGEN MIT NIEDERDRUCKVENTIL
FEMMINA O-RING - CURVA 90° CON VALVOLA BASSA PRESSIONE



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H	V±1
C47996-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	103,9	65,3	45,0	27	28,8
C47996-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	101,0	62,4	45,0	27	26,0

C47992

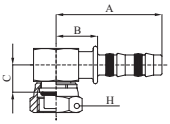
O-RING FEMALE 90° ELBOW WITH 1/4" SAE CHARGE VALVE
HEMBRA O-RING CODO 90° CON VÁLVULA DE CARGA 1/4" SAE
DICHTKOPF O-RING - 90° BOGEN MIT 1/4" SAE FÜLLVENTIL
FEMMINA O-RING - CURVA 90° CON VALVOLA DI CARICA 1/4" SAE



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H	V±1
C47992-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	89,1	50,5	36,5	22	24,6
C47992-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	103,8	65,2	45,0	27	28,8

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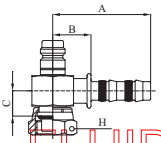
FLUIDTECHNIK S.R.L.0723 382 199



C47980

SHORT VERSION O-RING FEMALE 90° ELBOW
HEMBRA O-RING TIPO CORTO CODO 90°
DICHTKOPF O-RING KURZE VERSION - 90° BOGEN
FEMMINA O-RING TIPO CORTO - CURVA 90°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H
C47980-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	61,5	23,0	16,0	22
C47980-08-11	10	- 08	13/32"	1"-14-UNS-2B	63,5	25,0	16,4	29
C47980-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	62,0	23,5	16,4	27
C47980-10-11	13	- 10	1/2"	1"-14-UNS-2B	63,0	24,5	16,4	29
C47980-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	63,0	24,5	16,4	27
C47980-12-11	16	- 12	5/8"	1"-14-UNS-2B	63,5	25,0	24,2	29

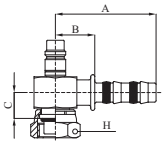


C47985

SHORT VERSION O-RING FEMALE 90° ELBOW WITH HIGH PRESSURE VALVE
HEMBRA O-RING TIPO CORTO CODO 90° CON VÁLVULA DE ALTA PRESION
DICHTKOPF O-RING KURZE VERSION - 90° BOGEN MIT HOCHDRUCKVENTIL
FEMMINA O-RING TIPO CORTO - CURVA 90° CON VALVOLA ALTA PRESSIONE

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PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H
C47985-08-11	10	- 08	13/32"	1"-14-UNS-2B	63,5	25,0	16,4	29



C47986

SHORT VERSION O-RING FEMALE 90° ELBOW WITH LOW PRESSURE VALVE
HEMBRA O-RING TIPO CORTO CODO 90° CON VÁLVULA DE BAJA PRESION
DICHTKOPF O-RING KURZE VERSION - 90° BOGEN MIT NIEDERDRUCKVENTIL
FEMMINA O-RING TIPO CORTO - CURVA 90° CON VALVOLA BASSA PRESSIONE

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H
C47986-10-11	13	- 10	12"	1"-14-UNS-2B	63,0	24,5	16,4	29
C47986-12-11	16	- 12	5/8"	1"-14-UNS-2B	63,5	25,0	24,2	25

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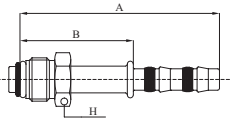
FRIGOCLIC® FITTINGS

REFRI MASTER
REFRI MASTER PLUS

SAE J2064 TYPE E

C38010

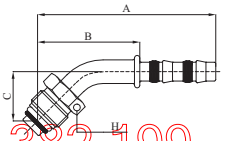
STRAIGHT O-RING MALE
MACHO O-RING RECTO
AUSSENGEWINDE O-RING GERADE
MASCHIO O-RING - DRITTO



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	H	
C38010-06-06	8	- 06	5/16"	5/8"-18-UNF-2A	70,2	31,6	17	
C38010-08-06	10	- 08	13/32"	5/8"-18-UNF-2A	74,0	35,4	17	
C38010-08-08	10	- 08	13/32"	3/4"-18-UNS-2A	89,4	50,8	22	
C38010-10-10	13	- 10	1/2"	7/8"-18-UNS-2A	91,6	53,0	22	
C38010-12-10	16	- 12	5/8"	7/8"-18-UNS-2A	86,0	47,4	22	
C38010-16-10	22	- 16	7/8"	7/8"-18-UNS-2A	94,5	48,4	22	

C38040

O-RING MALE 45° ELBOW
MACHO O-RING CODO 45°
AUSSENGEWINDE O-RING - 45° BOGEN
MASCHIO O-RING - CURVA 45°



FLUIDTECHNIK S.R.L. 0723 382 199

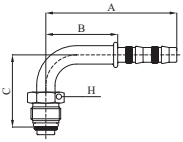
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	H	
C38040-06-06	8	- 06	5/16"	5/8"-18-UNF-2A	92,7	54,1	21,5	17	
C38040-08-06	10	- 08	13/32"	5/8"-18-UNF-2A	94,0	55,4	21,4	17	
C38040-08-08	10	- 08	13/32"	3/4"-18-UNS-2A	100,9	62,3	25,0	22	
C38040-10-10	13	- 10	1/2"	7/8"-18-UNS-2A	112,4	73,8	28,5	22	
C38040-12-10	16	- 12	5/8"	7/8"-18-UNS-2A	113,0	74,4	28,5	22	
C38040-12-12	16	- 12	5/8"	1.1/16"-16-UN-2A	123,0	84,3	33,4	27	

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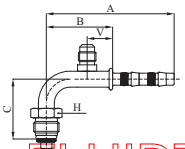
SAE J2064 TYPE E



C38090

O-RING MALE 90° ELBOW
MACHO O-RING CODO 90°
AUSSENGEWINDE O-RING - 90° BOGEN
MASCHIO O-RING - CURVA 90°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	H
C38090-06-06	8	- 06	5/16"	5/8"-18-UNF-2A	80,6	42,0	37,5	17
C38090-08-06	10	- 08	13/32"	5/8"-18-UNF-2A	77,0	38,4	37,5	17
C38090-08-08	10	- 08	13/32"	3/4"-18-UNS-2A	83,0	44,4	47,0	22
C38090-10-10	13	- 10	1/2"	7/8"-18-UNS-2A	100,9	62,3	54,5	22
C38090-12-10	16	- 12	5/8"	7/8"-18-UNS-2A	99,0	60,4	54,5	22
C38090-16-10	22	- 16	7/8"	7/8"-18-UNS-2A	109,0	62,9	54,5	22



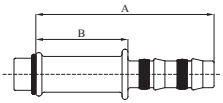
C38092

O-RING MALE 90° ELBOW WITH 1/4" SAE CHARGE VALVE
MACHO O-RING CODO 90° CON VÁLVULA DE CARGA 1/4" SAE
AUSSENGEWINDE O-RING - 90° BOGEN MIT 1/4" SAE FÜLLVENTIL
MASCHIO O-RING - CURVA 90° CON VALVOLA DI CARICA 1/4" SAE

FLUIDTECHNIK S.R.L. 0723 382 199

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	H	$V^{\pm 1}$
C38092-06-06	8	- 06	5/16"	5/8"-18-UNF-2A	80,2	41,6	37,5	17	16,0

C47610



STRAIGHT FITTING FOR EXPANSION VALVE
CONEXION RECTA PARA VÁLVULA DE EXPANSIÓN
ANSCHLUSS FÜR EXPANSIONSVENTIL GERADE
RACCORDO DRITTO PER VALVOLA D'ESPANSIONE

PART. REF.	HOSE SIZE				DIMENSIONS mm			
	DN	Dash	Inch		$A^{\pm 2.5}$	$B^{\pm 2.5}$		
C47610-06-06	8	- 06	5/16"		77,9	39,3		
C47610-08-06	10	- 08	13/32"		84,1	45,5		
C47610-10-12	13	- 10	1/2"		92,0	53,4		
C47610-12-12	16	- 12	5/8"		92,0	53,4		

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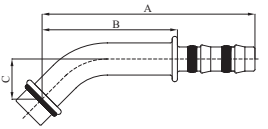
REFRI MASTER

REFRI MASTER PLUS

SAE J2064 TYPE E

C47640

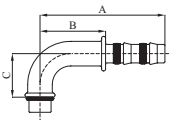
FITTING FOR EXPANSION VALVE 45° ELBOW
CONEXION PARA VÁLVULA DE EXPANSION CODO 45°
ANSCHLUSS FÜR EXPANSIONSVENTIL 45° BOGEN
RACCORDO PER VALVOLA D'ESPANSIONE CURVA 45°



PART. REF.	HOSE SIZE				DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	C±2	
C47640-06-06	8	- 06	5/16"		105,0	66,4	14,0	
C47640-10-12	13	- 10	1/2"		106,0	86,0	20,0	
C47640-12-12	16	- 12	5/8"		115,9	77,3	27,0	

C47690

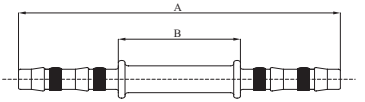
FITTING FOR EXPANSION VALVE 90° ELBOW
CONEXION PARA VÁLVULA DE EXPANSION CODO 90°
ANSCHLUSS FÜR EXPANSIONSVENTIL 90° BOGEN
RACCORDO PER VALVOLA D'ESPANSIONE CURVA 90°



PART. REF.	HOSE SIZE				DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5	C±2	
C47690-06-06	8	- 06	5/16"		93,9	55,3	22,0	
C47690-10-10	13	- 10	1/2"		103,8	65,2	45,0	
C47690-10-12	13	- 10	1/2"		104,3	65,7	41,5	
C47690-12-12	16	- 12	5/8"		99,0	60,4	41,5	

C30010

STRAIGHT CONNECTION FITTINGS
RACORES PARA CONEXION RECTOS
GERADER VERBINDER
GIUNZIONE DRITTA



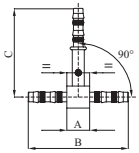
PART. REF.	HOSE SIZE				DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5		
C30010-06-06	8	- 06	5/16"		120,0	42,8		
C30010-08-08	10	- 08	13/32"		124,0	47,0		
C30010-10-10	13	- 10	1/2"		124,0	47,0		
C30010-12-12	16	- 12	5/8"		124,0	47,0		
C30010-16-16	22	- 16	7/8"		151,0	58,8		

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FRIGOCLIC® FITTINGS

SAE J2064 TYPE E



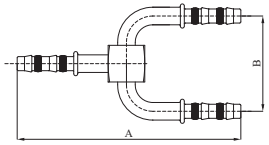
C300T0

3 WAYS CONNECTION FITTINGS
RACORES PARA CONEXION DE 3 VIAS
3 - WEGE VERBINDER
GIUNZIONE A TRE VIE

PART. REF.	HOSE SIZE 1			HOSE SIZE 2			HOSE SIZE 3			DIMENSIONS mm		
	DN	Dash	Inch	DN	Dash	Inch	DN	Dash	Inch	A±2.5	B±2.5	C±2
C300T0-06-06-06	08	- 06	5/16"	08	- 06	5/16"	08	- 06	5/16"	22,8	100,0	85,5
C300T0-06-06-08	08	- 06	5/16"	08	- 06	5/16"	08	- 06	5/16"	22,8	100,0	85,5
C300T0-08-08-08	08	- 06	5/16"	08	- 06	5/16"	08	- 06	5/16"	22,8	100,0	86,5
C300T0-08-08-10	10	- 08	13/32"	10	- 08	13/32"	13	- 10	1/2"	22,8	100,0	86,5
C300T0-08-10-10	13	- 10	1/2"	10	- 08	13/32"	10	- 08	13/32"	22,8	100,0	86,5
C300T0-08-10-12	10	- 08	13/32"	10	- 08	13/32"	16	- 12	5/8"	22,8	100,0	86,5
C300T0-10-10-10	13	- 10	1/2"	13	- 10	1/2"	13	- 10	1/2"	22,8	100,0	86,5
C300T0-10-10-12	13	- 10	1/2"	13	- 10	1/2"	16	- 12	5/8"	22,8	100,0	86,5
C300T0-10-12-12	16	- 12	5/8"	13	- 10	1/2"	16	- 12	5/8"	22,8	100,0	86,5
C300T0-12-12-12	16	- 12	5/8"	16	- 12	5/8"	16	- 12	5/8"	22,8	100,0	88,5

For clamp solution only / Unicamente para uso con abrazadera / Nur zur Anwendung mit Klemmen / Solo per applicazione fascetta

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C300Y0

"Y" CONNECTION FITTING
CONEXION EN "Y"
„Y" VERBINDER
GIUNZIONE A "Y"

PART. REF.	HOSE SIZE				DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5		
C300Y0-08-08-08	8	- 08	13/32"		152,5	65,0		
C300Y0-12-12-12	16	- 12	5/8"		152,0	83,0		

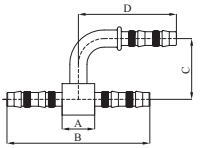
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C300H0

"H" CONNECTION FITTINGS
CONEXION EN "H"
„H" VERBINDER
GIUNZIONE AD "H"



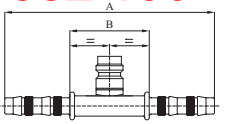
PART. REF.	HOSE SIZE 1			HOSE SIZE 2			HOSE SIZE 3			DIMENSIONS mm			
	DN	Dash	Inch	DN	Dash	Inch	DN	Dash	Inch	A±2.5	B±2.5	C±2	D±2.5
C300h0-06-06-10	08	- 06	5/16"	08	- 06	5/16"	13	- 10	1/2"	22,8	100,0	62,5	78,0
C300h0-08-08-08	10	- 08	13/32"	10	- 08	13/32"	10	- 08	13/32"	22,8	100,0	42,5	68,0
C300h0-08-08-06	10	- 08	13/32"	10	- 08	13/32"	08	- 06	5/16"	22,8	100,0	42,5	72,0
C300h0-06-10-06	13	- 10	1/2"	08	- 06	5/16"	08	- 06	5/16"	22,8	100,0	48,5	65,0
C300h0-10-10-06	13	- 10	1/2"	13	- 10	1/2"	08	- 06	5/16"	22,8	100,0	48,5	65,0
C300h0-10-10-12	13	- 10	1/2"	13	- 10	1/2"	16	- 12	5/8"	22,8	100,0	62,5	75,0
C300h0-10-12-10	16	- 12	5/8"	13	- 10	1/2"	13	- 10	1/2"	22,8	100,0	62,5	78,0
C300h0-12-12-10	16	- 12	5/8"	16	- 12	5/8"	13	- 10	1/2"	22,8	100,0	42,5	68,5
C300h0-12-12-12	16	- 12	5/8"	16	- 12	5/8"	16	- 12	5/8"	22,8	100,0	62,5	75,0

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C30015

STRAIGHT CONNECTION FITTING WITH HIGH PRESSURE VALVE
CONEXION RECTA CON VÁLVULA DE ALTA PRESION
GERADER VERBINDER MIT HOCHDRUCKVENTIL
GIUNZIONE DRITTA CON VALVOLA DI ALTA PRESSIONE

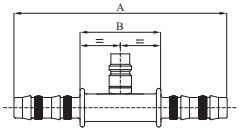


PART. REF.	HOSE SIZE				DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5		
C30015-06-06	8	- 06	5/16"		124,0	46,8		
C30015-08-08	10	- 08	13/32"		124,0	47,0		
C30015-10-10	13	- 10	1/2"		124,0	47,0		
C30015-12-12	16	- 12	5/8"		124,0	47,0		

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FRIGOCLIC® FITTINGS

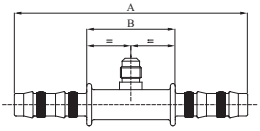
SAE J2064 TYPE E



C30016

STRAIGHT CONNECTION FITTING WITH LOW PRESSURE VALVE
CONEXION RECTA CON VÁLVULA DE BAJA PRESION
GERADER VERBINDER MIT NIEDERDRUCKVENTIL
GIUNZIONE DRITTA CON VALVOLA DI BASSA PRESSIONE

PART. REF.	HOSE SIZE				DIMENSIONS mm			
	DN	Dash	Inch		$A^{\pm 2.5}$	$B^{\pm 2.5}$		
C30016-10-10	13	- 10	1/2"		124,0	47,0		
C30016-12-12	16	- 12	5/8"		124,0	47,0		

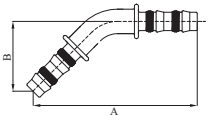


C30012

STRAIGHT CONNECTION FITTING 1/4" SAE CHARGE VALVE
CONEXION RECTA CON VÁLVULA DE CARGA 1/4" SAE
GERADER VERBINDER MIT 1/4" SAE FÜLLVENTIL
GIUNZIONE DRITTA CON VALVOLA DI CARICA 1/4" SAE

PART. REF.	HOSE SIZE				DIMENSIONS mm			
	DN	Dash	Inch		$A^{\pm 2.5}$	$B^{\pm 2.5}$		
C30012-06-06	8	- 06	5/16"		120,0	43,0		
C30012-08-08	10	- 08	13/32"		124,0	47,0		
C30012-10-10	13	- 10	1/2"		124,0	47,0		
C30012-12-12	16	- 12	5/8"		124,0	47,0		

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C30040

CONNECTION FITTING 45° ELBOW
CONEXION CODO 45
VERBINDER - 45° BOGEN
GIUNZIONE - CURVA 45°

PART. REF.	HOSE SIZE				DIMENSIONS mm			
	DN	Dash	Inch		$A^{\pm 2.5}$	$B^{\pm 2.5}$		
C30040-06-06	8	- 06	5/16"		113,5	47,0		
C30040-08-08	10	- 08	13/32"		121,0	50,0		
C30040-10-10	13	- 10	1/2"		118,5	49,0		
C30040-12-12	16	- 12	5/8"		106,0	44,0		

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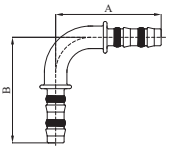
FRIGOCLIC® FITTINGS

REFRI❄MASTER
REFRI❄MASTER PLUS

SAE J2064 TYPE E

C30090

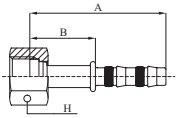
CONNECTION FITTING 90° ELBOW
CONEXION CODO 90°
VERBINDER - 90° BOGEN
GIUNZIONE - CURVA 90°



PART. REF.	HOSE SIZE				DIMENSIONS mm			
	DN	Dash	Inch		A±2.5	B±2.5		
C30090-06-06	8	- 06	5/16"		70,0	70,0		
C30090-08-08	10	- 08	13/32"		75,0	75,0		
C30090-10-10	13	- 10	1/2"		75,0	75,0		
C30090-12-12	16	- 12	5/8"		75,0	75,0		
C30090-16-16	22	- 16	7/8"		93,5	93,5		

C42410

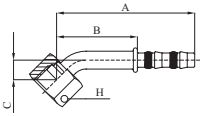
STRAIGHT ORS FLAT SEAL FEMALE
HEMBRA ORS ASIENTO PLANO RECTO
ORS DICHTKOPF FLACHDICHTEND
FEMMINA TENUTA FRONTALE ORS



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	H	
C42410-06-04	8	- 06	5/16"	9/16"-18-UNF-2B	72,0	33,4	19	
C42410-06-06	8	- 06	5/16"	11/16"-16-UN-2B	70,0	31,4	22	
C42410-08-08	10	- 08	13/32"	13/16"-16-UN-2B	74,5	35,9	27	
C42410-10-08	10	- 08	13/32"	13/16"-16-UN-2B	74,5	35,9	27	
C42410-10-10	13	- 10	1/2"	1"-14-UNS-2B	85,0	46,4	30	
C42410-12-12	16	- 12	5/8"	1.3/16"-12-UN-2B	85,0	46,4	36	
C42410-16-16	22	- 16	7/8"	1.7/16"-12-UN-2B	105,5	59,4	41	

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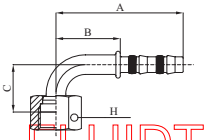
FLUIDTECHNIK S.R.L.0723 382 199



C42440

ORS FLAT SEAL FEMALE 45° ELBOW
HEMBRA ORS ASIENTO PLANO CODO 45°
ORS DICHTKOPF FLACHDICHTEND - 45° BOGEN°
FEMMINA TENUTA FRONTALE ORS - CURVA 45°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H
C42440-06-04	8	- 06	5/16"	9/16"-18-UNF	64,0	25,4	10,0	19
C42440-06-06	8	- 06	5/16"	11/16"-16-UN-2B	65,0	26,4	10,5	22
C42440-08-08	10	- 08	13/32"	13/16"-16-UN-2B	93,0	54,4	13,0	27
C42440-10-08	10	- 10	1/2"	13/16"-16-UN	93,0	54,4	13,0	27
C42440-10-10	13	- 10	1/2"	1"-14-UNS-2B	82,0	43,4	18,0	30
C42440-12-12	16	- 12	5/8"	1.3/16"-12-UN-2B	94,0	55,4	30,5	36



C42490

ORS FLAT SEAL FEMALE 90° ELBOW
HEMBRA ORS ASIENTO PLANO CODO 90°
ORS DICHTKOPF FLACHDICHTEND - 90° BOGEN°
FEMMINA TENUTA FRONTALE ORS - CURVA 90°

FLUIDTECHNIK S.R.L. 0723 382 199

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H
C42490-06-04	8	- 06	5/16"	9/16"-18-UNF-2B	61,5	22,9	22,5	19
C42490-06-06028	8	- 06	5/16"	11/16"-16-UN-2B	72,0	33,4	27,5	22
C42490-06-08	8	- 06	5/16"	13/16"-16-UN-2B	81,0	42,2	29,0	27
C42490-08-08	10	- 08	13/32"	13/16"-16-UN-2B	78,0	39,4	29,0	27
C42490-10-08	13	- 10	1/2"	13/16"-16-UN-2B	78,0	34,9	29,0	27
C42490-10-10	13	- 10	1/2"	1"-14-UNS-2B	75,0	36,4	36,0	30
C42490-12-10	16	- 12	5/8"	1"-14-UNS-2B	75,0	36,4	36,0	30
C42490-12-12	16	- 12	5/8"	1.3/16"-12-UN-2B	84,0	45,4	45,0	36
C42490-16-16	22	- 16	7/8"	1.7/16"-12-UN-2B	120,5	74,4	48,0	41

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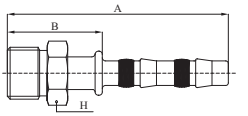
FRIGOCLIC® FITTINGS

REFRI MASTER
REFRI MASTER PLUS

SAE J2064 TYPE E

C37910

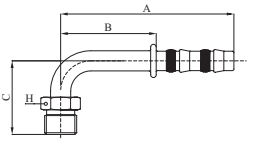
STRAIGHT MALE WITH O-RING SEAT
MACHO RECTO CON O-RING
AUSSENGEWINDE MIT O-RING SITZ GERADE
MASCHIO SEDE O-RING - DRITTO



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	H	
C37910-06-06	8	- 06	5/16"	5/8"-18-UNF-2A	67,7	29,1	17	
C37910-08-10	10	- 08	13/32"	7/8"-14-UNF-2A	75,0	36,4	24	
C37910-10-10	13	- 10	1/2"	7/8"-14-UNF-2A	77,8	36,6	24	

C37990

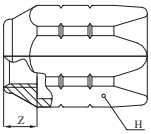
MALE WITH O-RING SEAT 90° ELBOW
MACHO CON O-RING CODO 90°
AUSSENGEWINDE MIT O-RING SITZ - 90° BOGEN
MASCHIO SEDE O-RING - CURVA 90°



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H
C37990-08-06	10	- 08	13/32"	5/8"-18-UNF-2A	86,0	47,4	36,5	17
C37990-10-08	13	- 10	1/2"	3/4"-16-UNF-2A	87,0	48,4	41,5	22

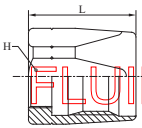
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CUT-OFF DIMENSION

HOSE BORE			DIMENSIONS mm	
DN	Dash	inch	Z	H
5	- 04	3/16"	9,0 ± 0,1	16
8	- 06	5/16"	10,0 ± 0,1	21
10	- 08	13/32"	12,5 ± 0,1	24
12	- 10	1/2"	9,0 ± 0,1	28
16	- 12	5/8"	11,5 ± 0,1	32
22	- 16	7/8"	10,0 ± 0,1	38
28	- 20	1.1/8"	10,0 ± 0,1	46
35	- 24	1.3/8"	10,0 ± 0,1	50



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K00400

STAR-FIT FERRULE
STAR-FIT CASQUILLO
STAR-FIT FASSUNG
BOCCOLA STAR-FIT

PART. REF.	HOSE BORE				DIMENSIONS mm					
	DN	Dash	inch		H	L				
K00400-04	5	- 04	3/16"		16	27,5				
K00400-06	8	- 06	5/16"		21	33,0				
K00400-08	10	- 08	13/32"		24	42,0				
K00400-10	13	- 10	1/2"		28	46,0				
K00400-12	16	- 12	5/8"		32	49,5				
K00400-16	22	- 16	7/8"		38	46,0				
K00400-20	28	- 20	1.1/8"		46	47,0				
K00400-24	35	- 24	1.3/8"		50	46,0				

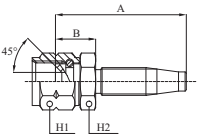
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SAE J2064 TYPE B

K42610

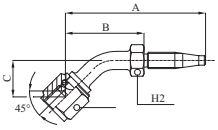
45° SAE STRAIGHT FEMALE
HEMBRA 45° SAE RECTO
45° SAE DICHTKOPF GERADE
FEMMINA 45° SAE - DRITTO



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	H_1	H_2
K42610-04-04	5	- 04	3/16"	7/16"-20-UNF-2B	41,0	14,0	15	15
K42610-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	50,5	15,5	19	19
K42610-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	59,0	18,0	22	22
K42610-10-08	13	- 10	1/2"	3/4"-16-UNF-2B	64,0	18,0	22	22
K42610-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	65,0	19,0	27	27
K42610-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	68,5	19,0	27	27
K42610-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	91,0	41,5	32	24
K42610-16-12	22	- 16	7/8"	1.1/16"-14-UNS-2B	67,5	29,5	32	32
K42610-16-16H00	22	- 16	7/8"	1.5/16"-14-UNS-2B	61,5	14,5	38	

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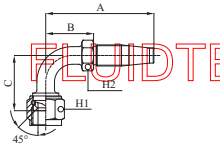
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K42640

45° SAE FEMALE 45° ELBOW
HEMBRA 45° SAE CODO 45°
45° SAE DICHTKOPF - 45° BOGEN
FEMMINA 45° SAE - CURVA 45°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H1	H2
K42640-04-04	5	- 04	3/16"	7/16"-20-UNF-2B	68,5	41,5	16,0	15	12
K42640-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	88,0	53,3	16,5	19	15
K42640-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	94,7	53,7	16,5	22	18
K42640-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	94,5	48,5	23,5	27	21
K42640-12-08	16	- 12	5/8"	3/4"-16-UNF-2B	113,0	63,5	26,5	22	24
K42640-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	99,5	50,0	23,5	27	24
K42640-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	104,5	55,0	26,5	32	24
K42640-16-10	22	- 16	7/8"	7/8"-14-UNF-2B	97,0	50,0	23,5	27	30
K42640-16-12	22	- 16	7/8"	1.1/16"-14-UNS-2B	101,5	54,5	26,5	32	30
K42640-16-16	22	- 16	7/8"	1.5/16"-14-UNS-2B	115,0	68,0	32,5	38	30



FLUIDTECHNIK S.R.L. 0723 382 199

K42690

45° SAE FEMALE 90° ELBOW
HEMBRA 45° SAE CODO 90°
45° SAE DICHTKOPF - 90° BOGEN°
FEMMINA 45° SAE - CURVA 90°

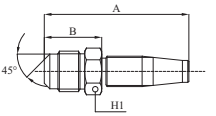
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H1	H2
K42690-04-04	5	- 04	3/16"	7/16"-20-UNF-2B	55,0	28,0	25,5	15	12
K42690-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	72,5	37,5	30,5	19	15
K42690-08-06	10	- 08	13/32"	5/8"-18-UNF-2B	73,5	32,5	37,5	19	18
K42690-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	73,5	32,5	37,5	22	18
K42690-10-08	13	- 10	1/2"	3/4"-16-UNF-2B	79,5	33,5	42,5	22	21
K42690-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	83,5	37,5	46,5	27	21
K42690-12-08	16	- 12	5/8"	3/4"-16-UNF-2B	84,0	34,5	42,5	22	24
K42690-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	89,0	39,5	46,5	27	24
K42690-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	94,0	44,5	53,0	32	24
K42690-16-10	22	- 16	7/8"	7/8"-14-UNF-2B	86,5	39,5	46,5	27	30
K42690-16-12	22	- 16	7/8"	1.1/16"-14-UNS-2B	90,5	43,5	53,0	32	30
K42690-16-16	22	- 16	7/8"	1.5/16"-14-UNS-2B	101,5	54,5	66,5	38	30

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SAE J2064 TYPE B

K32610

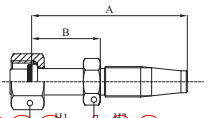
STRAIGHT 45° SAE FLARE MALE
MACHO CÓNICO 45° SAE RECTO
45° SAE AUSSENGEWINDE GERADE
MASCHIO SVASATO 45° SAE - DRITTO



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	H_1	
K32610-04-04	5	- 04	3/16"	7/16"-20-UNF-2B	47,5	18,7	12	
K32610-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	57,7	22,7	16	
K32610-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	68,0	27,0	19	
K32610-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	78,4	32,4	24	
K32610-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	85,9	36,4	27	
K32610-16-16	22	- 16	7/8"	1.5/16"-14-UNS-2B	85,0	39,0	36	

K47910

STRAIGHT O-RING FEMALE
HEMBRA O-RING RECTO
DICHTKOPF O-RING GERADE
FEMMINA O-RING - DRITTO

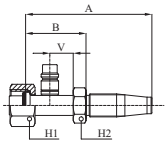


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PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	H_1	H_2
K47910-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	69,0	34,0	19	14
K47910-08-06	10	- 08	13/32"	5/8"-18-UNF-2B	76,5	35,5	19	18
K47910-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	85,5	44,5	22	18
K47910-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	96,0	50,0	27	21
K47910-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	101,5	52,0	27	24
K47910-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	110,0	60,5	32	24
K47910-16-12	22	- 16	7/8"	1.1/16"-14-UNS-2B	107,5	60,5	32	30

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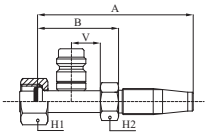
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K47916

STRAIGHT O-RING FEMALE WITH LOW PRESSURE VALVE
HEMBRA O-RING RECTO CON VÁLVULA DE BAJA PRESION
DICHTKOPF O-RING GERADE MIT NIEDERDRUCKVENTIL
FEMMINA O-RING - DRITTO CON VALVOLA BASSA PRESSIONE

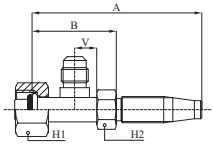
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$V^{\pm 1}$	H_1	H_2
K47916-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	101,5	52,0	16,0	27	24
K47916-16-12	22	- 16	7/8"	1.1/16"-14-UNF-2B	107,5	60,5	16,0	32	30



K47915

STRAIGHT O-RING FEMALE WITH HIGH PRESSURE VALVE
HEMBRA O-RING RECTO CON VÁLVULA DE ALTA PRESION
DICHTKOPF O-RING GERADE MIT HOCHDRUCKVENTIL
FEMMINA O-RING - DRITTO CON VALVOLA ALTA PRESSIONE

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$V^{\pm 1}$	H_1	H_2
K47915-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	85,5	44,5	16,0	22	18



K47912

STRAIGHT O-RING FEMALE WITH 1/4" SAE CHARGE VALVE
HEMBRA O-RING RECTO CON VÁLVULA DE CARGA 1/4" SAE
DICHTKOPF O-RING GERADE MIT 1/4" SAE FÜLLVENTIL
FEMMINA O-RING - DRITTO CON VALVOLA DI CARICA 1/4" SAE

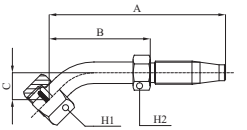
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$V^{\pm 1}$	H_1	H_2
K47912-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	67,3	32,3	9,0	19	14

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K47940

O-RING FEMALE 45° ELBOW
HEMBRA O-RING CODO 45°
DICHTKOPF O-RING - 45° BOGEN
FEMMINA O-RING - CURVA 45°

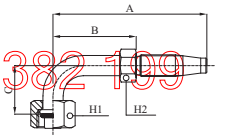


PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A±0.10	B±0.10	C±0.08	H1	H2
K47940-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	82,0	47,0	12,5	19	14
K47940-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	90,5	49,5	13,5	22	18
K47940-10-08	13	- 10	1/2"	3/4"-16-UNF-2B	95,5	49,5	13,5	22	21
K47940-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	117,0	71,0	24,0	27	21
K47940-10-11	13	- 10	1/2"	1"-14-UNF-2B	115,0	69,0	22,0	29	21
K47940-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	122,5	73,0	24,0	27	24
K47940-12-11	16	- 12	5/8"	1"-14-UNS-2B	120,5	71,0	22,0	29	24
K47940-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	130,5	81,0	27,0	32	24
K47940-16-12	22	- 16	7/8"	1.1/16"-14-UNS-2B	128,0	81,0	27,0	32	30

K47990

O-RING FEMALE 90° ELBOW
HEMBRA O-RING CODO 90°
DICHTKOPF O-RING - 90° BOGEN
FEMMINA O-RING - CURVA 90°

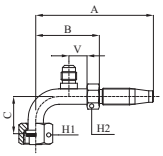
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PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A±0.10	B±0.10	C±0.08	H1	H2
K47990-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	74,0	39,0	24,0	19	14
K47990-08-06	10	- 08	13/32"	5/8"-18-UNF-2B	81,5	40,5	24,0	19	18
K47990-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	89,5	48,5	30,0	22	18
K47990-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	109,5	63,5	45,0	27	21
K47990-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	115,0	65,5	45,0	27	24
K47990-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	119,5	70,0	54,5	32	24
K47990-16-10	22	- 16	7/8"	7/8"-14-UNF-2B	112,5	65,5	45,0	27	30
K47990-16-12	22	- 16	7/8"	1.1/16"-14-UNS-2B	117,0	70,0	54,5	32	30
K47990-20-12	28	- 20	1.1/8"	1.1/16"-14-UNS-2B	115,0	69,0	54,5	32	36

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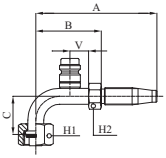
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K47992

O-RING FEMALE 90° ELBOW WITH 1/4" SAE CHARGE VALVE
HEMBRA O-RING CODO 90° CON VÁLVULA DE CARGA 1/4" SAE
DICHTKOPF O-RING - 90° BOGEN MIT 1/4" SAE FÜLLVENTIL
FEMMINA O-RING - CURVA 90° CON VALVOLA DI CARICA 1/4" SAE

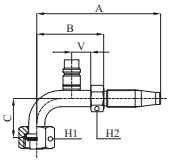
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm					
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	V±1	H1	H2
K47992-16-12	22	- 16	7/8"	1.1/16"-14-UNS-2B	117,0	70,0	54,5	16,0	32	30



K47995

O-RING FEMALE 90° ELBOW WITH HIGH PRESSURE VALVE
HEMBRA O-RING CODO 90° CON VÁLVULA DE ALTA PRESION
DICHTKOPF O-RING - 90° BOGEN MIT HOCHDRUCKVENTIL
FEMMINA O-RING - CURVA 90° CON VALVOLA ALTA PRESSIONE

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm					
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	V±1	H1	H2
K47995-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	94,0	53,0	36,5	16,0	22	18



K47996

O-RING FEMALE 90° ELBOW WITH LOW PRESSURE VALVE
HEMBRA O-RING CODO 90° CON VÁLVULA DE BAJA PRESION
DICHTKOPF O-RING - 90° BOGEN MIT NIEDERDRUCKVENTIL
FEMMINA O-RING - CURVA 90° CON VALVOLA BASSA PRESSIONE

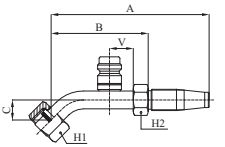
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm					
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	V±1	H1	H2
K47996-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	109,5	63,5	45,0	16,0	27	21
K47996-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	115,0	65,5	45,0	16,0	27	24
K47996-16-12	22	- 16	7/8"	1.1/16"-14-UNS-2B	116,0	69,0	54,5	16,0	32	30

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K47945

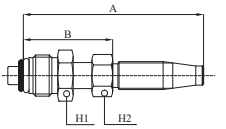
O-RING FEMALE 45° ELBOW WITH HIGH PRESSURE VALVE
HEMBRA O-RING CODO 45° CON VÁLVULA DE ALTA PRESION
DICHTKOPF O-RING - 45° BOGEN MIT HOCHDRUCKVENTIL
FEMMINA O-RING - CURVA 45° CON VALVOLA ALTA PRESSIONE



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm					
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	$V^{\pm 1}$	H_1	H_2
K47945-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	106,8	65,3	13,5	16,0	22	18

K38010

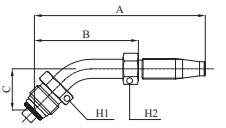
STRAIGHT O-RING MALE
MACHO O-RING RECTO
AUSSENGEWINDE O-RING GERADE
MASCHIO O-RING - DRITTO



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	H
K38010-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	69,4	34,4	17	14
K38010-08-08	10	- 08	13/32"	3/4"-18-UNS-2B	85,5	44,5	22	18
K38010-10-10	13	- 10	1/2"	7/8"-18-UNS-2B	94,5	48,5	22	21

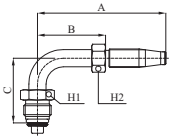
K38040

O-RING MALE 45° ELBOW
MACHO O-RING CODO 45°
AUSSENGEWINDE O-RING - 45° BOGEN
MASCHIO O-RING - CURVA 45°



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	H_1	H_2
K38040-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	89,5	54,5	21,5	17	14
K38040-08-08	10	- 08	13/32"	3/4"-18-UNS-2B	106,5	65,5	25,0	22	18
K38040-10-10	13	- 10	1/2"	7/8"-18-UNS-2B	121,5	75,5	28,5	22	21

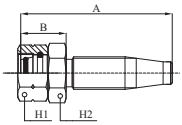
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K38090

O-RING MALE 90° ELBOW
MACHO O-RING CODO 90°
AUSSENGEWINDE O-RING - 90° BOGEN
MASCHIO O-RING - CURVA 90°

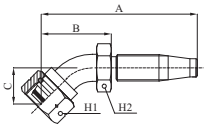
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	H_1	H_2
K38090-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	74,5	39,5	37,5	17	14
K38090-08-08	10	- 08	13/32"	3/4"-18-UNS-2B	89,5	48,5	47,0	22	18
K38090-10-10	13	- 10	1/2"	7/8"-18-UNS-2B	109,0	63,0	54,5	22	21



K41510

STRAIGHT 24° DIN FLARE O-RING OGIVAL FEMALE
HEMBRA O-RING OGIVA 24° DIN CÓNICO RECTO
DICHTKOPF 24° DIN KONUS MIT O-RING GERADE
FEMMINA O-RING OGIVA 24° DIN - DRITTO

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	H_1	H_2
K41510-12-26	16	- 12	5/8"	M 26x1.5	92,0	42,5	32	27	
K41510-12-30	16	- 12	5/8"	M 30x2	94,5	45,0	36	24	
K41510-16-30	22	- 16	7/8"	M 30x2	74,0	27,0	36	36	
K41510-16-36	22	- 16	7/8"	M 36x2	75,8	28,8	41	36	
K41510-20-36	28	- 20	1.1/8"	M 36x2	76,8	30,8	41	41	



K41540

24° DIN FLARE O-RING OGIVAL FEMALE 45° ELBOW
HEMBRA O-RING OGIVA 24° DIN CÓNICO CODO 45°
DICHTKOPF 24° DIN KONUS MIT O-RING - 45° BOGEN°
FEMMINA O-RING OGIVA 24° DIN - CURVA 45°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	H_1	H_2
K41540-12-26	16	- 12	5/8"	M 26x1.5	107,0	57,2	28,7	32	24
K41540-12-30	16	- 12	5/8"	M 30x2	107,0	57,5	29,0	36	34
K41540-16-30	22	- 16	7/8"	M 30x2	104,0	57,1	29,4	36	30
K41540-16-36	22	- 16	7/8"	M 36x2	117,0	69,9	30,0	41	30
K41540-20-36	28	- 20	1.1/8"	M 36x2	115,0	68,9	34,0	41	36

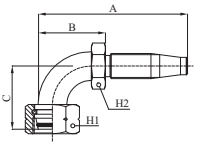
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SAE J2064 TYPE B

K41590

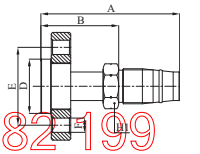
24° DIN FLARE O-RING OGIVAL FEMALE 90° ELBOW
HEMBRA O-RING OGIVA 24° DIN CÓNICO CODO 90°
DICHTKOPF 24° DIN KONUS MIT O-RING 90° BOGEN°
FEMMINA O-RING OGIVA 24° DIN - CURVA 90°



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	H_1	H_2
K41590-08-26	10	- 08	13/32"	M 26x1.5	86,5	45,5	60,0	32	24
K41590-12-26	16	- 12	5/8"	M 26x1.5	94,0	44,5	56,0	32	24
K41590-12-30	16	- 12	5/8"	M 30x2	91,0	41,5	56,5	36	30
K41590-16-30	22	- 16	7/8"	M 30x2	91,0	43,5	56,5	36	30
K41590-16-36	22	- 16	7/8"	M 36x2	101,5	54,5	69,3	41	30
K41590-20-30	28	- 20	1.1/8"	M 30x2	89,4	43,5	48,5	36	36
K41590-20-36	28	- 20	1.1/8"	M 36x2	101,0	54,5	69,3	41	36

K43710

STRAIGHT FLANGE FITTING
BRIDA RECTA
FLANSCHARMATUR GERADE
RACCORDO DRITTO CON FLANGIA

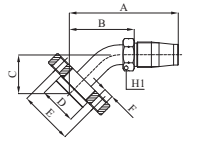


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PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm					
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	$V^{\pm 1}$	H_1	H_2
K43710-16-16	22	- 16	7/8"		107,0	60,0	41,8	60,0	Ø 11,0	30
K43710-20-16	28	- 20	1.1/8"		110,5	64,5	41,8	60,0	Ø 11,0	36

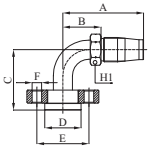
K43740

FLANGE FITTING 45° ELBOW
BRIDA 45°
FLANSCHARMATUR - 45° BOGEN
RACCORDO CON FLANGIA - CURVA 45°



PART. REF.	HOSE SIZE			DIMENSIONS mm						
	DN	Dash	Inch	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	D	E	F	H_1
K43740-16-16	22	- 16	7/8"	119,0	72,0	44,0	41,8	60,0	Ø 11,0	30
K43740-20-16	28	- 20	1.1/8"	122,5	76,5	44,0	41,8	60,0	Ø 11,0	36

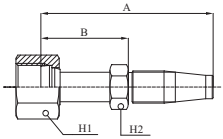
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K43790

FLANGE FITTING 90° ELBOW
BRIDA 90°
FLANSCHARMATUR - 90° BOGEN
RACCORDO CON FLANGIA - CURVA 90°

PART. REF.	HOSE SIZE			DIMENSIONS mm						
	DN	Dash	Inch	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	D	E	F	H_1
K43790-16-16	22	- 16	7/8"	90,5	43,5	79,5	41,8	60,0	Ø 11,0	30
K43790-20-16	28	- 20	1.1/8"	100,5	54,5	88,5	41,8	60,0	Ø 11,0	36
K43790-20-16097	28	- 20	1.1/8"	100,5	54,5	96,5	48,0	60,0	Ø 11,0	36



K42410

STRAIGHT ORS FLAT SEAL FEMALE
HEMBRA ASIENTO PLANO ORS RECTO
ORS DICHTKOPF FLACHDICHTEND
FEMMINA TENUTA FRONTALE ORS - DRITTO

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	H_1	H_2
K42410-04-04	5	- 04	3-16"	9/16"-18-UNF-2B	61,0	34,0	19	12
K42410-06-06	8	- 06	5-16"	11-16"-UN-2B	69,0	34,0	22	14
K42410-08-08	10	- 08	13/32"	13/16"-16-UN-2B	78,0	37,0	27	18
K42410-10-10	13	- 10	1/2"	1"-14-UNS-2B	93,5	47,5	30	21
K42410-12-12	16	- 12	5/8"	1.3/16"-12-UN-2B	99,0	49,5	36	24
K42410-12-16	16	- 12	5/8"	1.7/16"-12-UNF-2B	52,5	102,0	41	27
K42410-12-16079	16	- 12	5/8"	1.7/16"-12-UNF-2B	29,0	78,5	41	24
K42410-16-16	22	- 16	7/8"	1.7/16"-12-UN-2B	117,5	70,5	41	30
K42410-16-20	22	- 16	7/8"	1.11/16"-UN-2B	69,5	116,5	50	30
K42410-20-20	28	- 20	1.1/8"	1.11/16"-12-UN-2B	114,5	68,5	50	36
K42410-24-24	35	- 24	1.3/8"	2"-12-UN	115,5	70,5	60	46

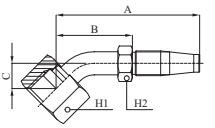
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K42440

ORS FLAT SEAL FEMALE 45° ELBOW
HEMBRA ASIENTO PLANO ORS CODO 45°
ORS DICHTKOPF FLACHDICHTEND - 45° BOGEN
FEMMINA TENUTA FRONTALE ORS - CURVA 45°

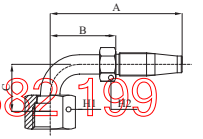


PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H1	H2
K42440-04-04	5	- 04	3/16"	9/16"-18-UNF-2B	52,2	25,2	10,0	19	12
K42440-06-06	8	- 05	5/16"	11/16"-16-UN-2B	62,3	27,3	10,5	22	14
K42440-08-08	10	- 08	13/32"	13/16"-16-UN-2B	96,5	55,5	13,0	27	18
K42440-10-10	13	- 10	1/2"	1"-14-UNS-2B	86,5	40,5	16,0	30	21
K42440-12-12	16	- 12	5/8"	1.3/16"-12-UN-2B	115,0	65,5	17,0	36	24
K42440-16-16	22	- 16	7/8"	1.7/16"-12-UN-2B	115,5	68,5	40,5	41	30
K42440-20-20	28	- 20	1.1/8"	1.11/16"-12-UN-2B	111,5	66,5	27,0	50	36
K42440-24-24	35	- 24	1.3/8"	2"-12-UN	115,5	70,5	29,0	60	46

K42490

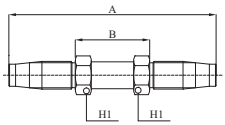
ORS FLAT SEAL FEMALE 90° ELBOW
HEMBRA ASIENTO PLANO ORS CODO 90°
ORS DICHTKOPF FLACHDICHTEND - 90° BOGEN
FEMMINA TENUTA FRONTALE ORS - CURVA 90°

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PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H1	H2
K42490-04-04	5	- 04	3/16"	9/16"-18-UNF-2B	50,5	23,5	22,5	19	12
K42490-06-06	8	- 06	5/16"	11/16"-16-UN-2B	62,5	27,5	25,5	22	14
K42490-08-08	10	- 08	13/32"	13/16"-16-UN-2B	81,5	40,5	29,0	27	18
K42490-10-10	13	- 10	1/2"	1"-14-UNS-2B	83,5	37,5	36,0	30	21
K42490-12-12	16	- 12	5/8"	1.3/16"-12-UN-2B	98,0	48,5	45,0	36	24
K42490-16-16	22	- 16	7/8"	1.7/16"-12-UN-2B	117,5	70,5	48,0	41	30
K42490-20-20	28	- 20	1.1/8"	1.11/16"-12-UN-2B	104,5	58,5	56,0	50	36

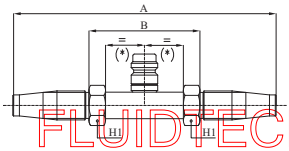
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K30010

STRAIGHT CONNECTION FITTING
RACOR RECTO
GERADER VERBINDER
GIUNZIONE DRITTA

PART. REF.	HOSE SIZE			DIMENSIONS mm			
	DN	Dash	Inch	$A^{\pm 2.5}$	$B^{\pm 2.5}$	H_1	
K30010-04-04	5	- 04	3/16″	89,0	35,0	12	
K30010-06-06	8	- 06	5/16″	115,0	45,0	14	
K30010-08-08	10	- 08	13/32″	128,0	46,0	18	
K30010-10-10	13	- 10	1/2″	141,0	49,0	21	
K30010-12-12	16	- 12	5/8″	154,5	55,5	24	
K30010-16-16	22	- 16	7/8″	145,0	51,0	30	
K30010-20-20	28	- 20	1.1/8″	163,0	71,0	36	

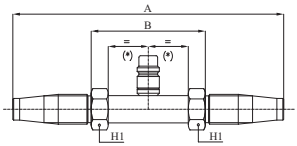


K30015

STRAIGHT CONNECTION FITTING WITH HIGH PRESSURE VALVE
RACOR RECTO CON VÁLVULA DE ALTA PRESION
GERADER VERBINDER MIT HOCHDRUCKVENTIL
GIUNZIONE DRITTA CON VALVOLA ALTA PRESSIONE

FLUIDTECHNIK S.R.L. 0723 382 199

PART. REF.	HOSE SIZE			DIMENSIONS mm			
	DN	Dash	Inch	$A^{\pm 2.5}$	$B^{\pm 2.5}$	H_1	
K30015-08-08	10	- 08	13/32″	150,0	68,0	18	
K30015-10-10	13	- 10	1/2″	159,0	67,0	21	



K30016

STRAIGHT CONNECTION FITTING WITH LOW PRESSURE VALVE
RACOR RECTO CON VÁLVULA DE BAJA PRESION
GERADER VERBINDER MIT NIEDERDRUCKVENTIL
GIUNZIONE DRITTA CON VALVOLA BASSA PRESSIONE

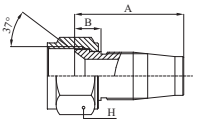
PART. REF.	HOSE SIZE			DIMENSIONS mm			
	DN	Dash	Inch	$A^{\pm 2.5}$	$B^{\pm 2.5}$	H_1	
K30016-10-10	13	- 10	1/2″	159,0	67,0	21	
K30016-12-12	16	- 12	5/8″	181,0	82,0	24	

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K42510

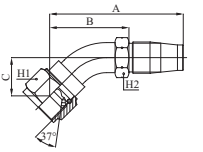
JIC 37° STRAIGHT FEMALE FITTING
HEMBRA JIC 37° RECTO
GERADER EINSCHRAUBER JIC 37°
FEMMINA JIC 37° - DRITTO



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	H_1	H_2
K42510-16-12	22	- 16	7/8"	1.1/16"-12-UNF-2B	78,5	31,5	32,0	30
K42510-16-16	22	- 16	7/8"	1.5/16"-12-UNF-2B	62,0	15,0	38,0	

K42540

JIC 37° FEMALE FITTING 45° ELBOW
HEMBRA JIC 37° CODO 45°
EINSCHRAUBER JIC 37° - 45° WINKELADAPTER
FEMMINA JIC 37° - CURVA 45°

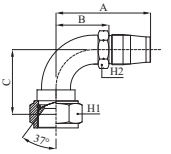


PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	H_1	H_2
K42540-16-16	22	- 16	7/8"	1.5/16"-12-UNF-2B	115,5	68,5	33,0	38	30

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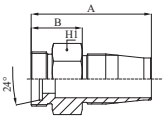
K42590

JIC 37° FEMALE FITTING 90° ELBOW
HEMBRA JIC 37° CODO 90°
DICHTKOPF JIC 37° - 90° BOGEN
FEMMINA JIC 37° - CURVA 90°



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	H_1	H_2
K42590-16-16	22	- 16	7/8"	1.5/16"-12-UNF-2B	101,5	54,5	67,5	38	30
K42590-20-20	28	- 20	1.1/8"	1.5/8"-12-UNF-2B	104,5	58,5	71,5	50	36

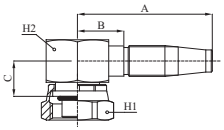
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K31110

STRAIGHT 24° MALE DIN
MACHO 24° DIN RECTO
AUSSENGEWINDE 24° DIN GERADE
MASCHIO 24° DIN - DRITTO

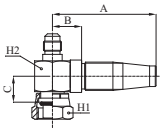
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	H_1	
K31110-16-30	22	- 16	7/8"	M 30x2	71,0	24,0	32	



K47980

SHORT VERSION O-RING FEMALE 90° ELBOW
HEMBRA O-RING TIPO CORTO CODO 90°
DICHTKOPF O-RING KURZE VERSION - 90° BOGEN
FEMMINA O-RING TIPO CORTO - CURVA 90°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	H_1	H_2
K47980-08-11	10	- 08	13/32"	1"-14-UNF-2B	62,5	21,5	16,4	29	29
K47980-10-11	13	- 10	1/2"	1"-14-UNS-2B	67,5	21,5	16,4	29	29
K47980-12-11	16	- 12	5/8"	1"-14-UNS-2B	75,5	26,0	24,2	29	25



K47982

SHORT VERSION O-RING FEMALE 90° ELBOW WITH 1/4" SAE CHARGE VALVE
HEMBRA O-RING TIPO CORTO CODO 90° CON VÁLVULA DE CARGA 1/4" SAE
DICHTKOPF O-RING KURZE VERSION - 90° BOGEN MIT 1/4" SAE FÜLLVENTIL
FEMMINA O-RING TIPO CORTO - CURVA 90° CON VALVOLA DI CARICA 1/4 "SAE

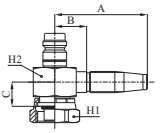
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	H_1	H_2
K47982-10-08	13	- 10	1/2"	3/4"-16-UNF-2B	64,0	18,0	16,0	22	22
K47982-10-11	13	- 10	1/2"	1"-14-UNS-2B	67,5	21,5	16,4	29	29
K47982-12-08	16	- 12	5/8"	3/4"-16-UNF-2B	52,5	102,0	16,0	22	22
K47982-16-10	22	- 16	7/8"	7/8"-14-UNF-2B	101,5	54,5	16,4	27	27
K47982-16-11	22	- 16	7/8"	1"-14-UNS-2B	54,0	101,0	24,2	29	25

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K47985

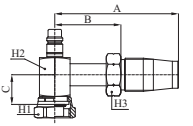
SHORT VERSION O-RING FEMALE 90° ELBOW WITH HIGH PRESSURE VALVE
HEMBRA O-RING TIPO CORTO CODO 90° CON VÁLVULA DE ALTA PRESION
DICHTKOPF O-RING KURZE VERSION - 90° BOGEN MIT HOCHDRUCKVENTIL
FEMMINA O-RING TIPO CORTO - CURVA 90° CON VALVOLA ALTA PRESSIONE



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	H_1	H_2
K47985-08-11	10	- 08	13/32"	1"-14-UNS-2B	21,5	62,5	16,4	29	29
K47985-12-11	16	- 12	5/8"	1"-14-UNS-2B	24,0	75,5	24,2	29	25

K47986

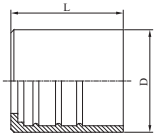
SHORT VERSION O-RING FEMALE 90° ELBOW WITH LOW PRESSURE VALVE
HEMBRA O-RING TIPO CORTO CODO 90° CON VÁLVULA DE BAJA PRESION
DICHTKOPF O-RING KURZE VERSION - 90° BOGEN MIT NIEDERDRUCKVENTIL
FEMMINA O-RING TIPO CORTO - CURVA 90° CON VALVOLA BASSA PRESSIONE



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	H_1	H_2
K47986-12-11	16	- 12	5/8"	1"-14-UNS-2B	24,0	75,5	24,2	29	25
K47986-16-11	22	- 16	7/8"	1"-14-UNS-2B	54,0	101,0	24,2	29	25

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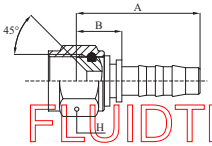
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C00300

STAR-CRIMP FERRULE
CASQUILLO STAR-CRIMP
STAR-CRIMP FASSUNG
BOCCOLA STAR-CRIMP

PART. REF.	HOSE BORE				DIMENSIONS mm					
	DN	Dash	inch		D	L				
C00300-04	5	- 04	3/16"		18,0	24,3				
C00300-06	8	- 06	5/16"		23,0	30,3				
C00300-08	10	- 08	13/32"		25,0	32,3				
C00300-10	13	- 10	1/2"		29,0	37,3				
C00300-12	16	- 12	5/8"		34,0	37,3				
C00300-16	22	- 16	7/8"		38,0	39,5				
C00300-20	28	- 20	1.1/8"		46,0	51,0				

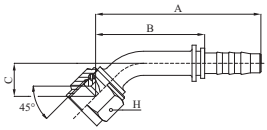


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C22610

45° SAE STRAIGHT FEMALE
HEMBRA 45° SAE RECTO
45° SAE DICHTKOPF GERADE
FEMMINA 45° SAE DRITTO

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	H	
C22610-04-04	5	- 04	3/16"	7/16"-20-UNF-2B	34,2	14,5	15	
C22610-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	42,0	16,0	19	
C22610-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	44,3	16,3	22	
C22610-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	50,3	17,3	27	
C22610-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	50,3	18,8	32	



C22640

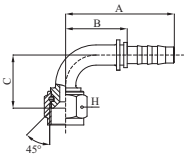
45° SAE FEMALE 45° ELBOW
HEMBRA 45° SAE CODO 45°
45° SAE DICHTKOPF - 45° BOGEN
FEMMINA 45° SAE - CURVA 45°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	H
C22640-04-04	5	- 04	3/16"	7/16"-20-UNF-2B	68,2	48,5	12,0	15
C22640-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	73,7	47,7	15,5	19
C22640-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	82,3	54,3	16,5	22
C22640-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	95,3	62,3	19,5	27
C22640-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	108,0	65,5	20,5	32

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C22690

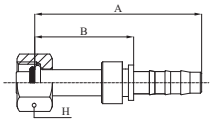
45° SAE FEMALE 90° ELBOW
HEMBRA 45° SAE CODO 90°
45° SAE DICHTKOPF - 90° BOGEN
FEMMINA 45° SAE - CURVA 90°



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H
C22690-04-04	5	- 04	3/16"	7/16"-20-UNF-2B	52,2	32,5	26,0	15
C22690-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	57,0	31,0	29,5	19
C22690-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	64,5	36,5	31,5	22
C22690-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	74,5	41,5	38,5	27
C22690-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	78,5	47,0	49,5	32

C27910

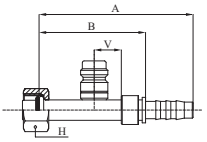
STRAIGHT O-RING FEMALE
HEMBRA O-RING RECTO
DICHTKOPF O-RING GERADE
FEMMINA O-RING - DRITTO



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H
C27910-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	64,0	38,0	19	
C27910-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	76,0	48,0	22	
C27910-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	86,5	53,5	27	
C27910-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	94,5	63,0	32	
C27910-16-12	22	- 16	7/8"	1.1/16"-14-UNS-2B	97,5	64,5	32	

C27915

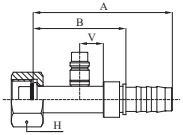
STRAIGHT O-RING FEMALE WITH HIGH PRESSURE VALVE
HEMBRA O-RING RECTA CON VÁLVULA DE ALTA PRESION
DICHTKOPF O-RING GERADE MIT HOCHDRUCKVENTIL
FEMMINA O-RING - DRITTO CON VALVOLA ALTA PRESSIONE



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	V±1	H
C27915-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	90.8	62.8	16,0	22
C27915-08-11	10	- 08	13/32"	1"-14-UNS-2B	78.0	50.0	16,0	29
C27915-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	94.5	63.0	16,0	32

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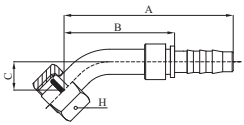
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C27916

STRAIGHT O-RING FEMALE WITH LOW PRESSURE VALVE
HEMBRA O-RING RECTO CON VÁLVULA DE BAJA PRESION
DICHTKOPF O-RING GERADE MIT NIEDERDRUCKVENTIL
FEMMINA O-RING - DRITTO CON VALVOLA BASSA PRESSIONE

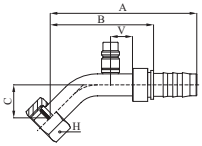
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	V±1	H
C27916-16-12	22	- 16	7/8"	1.1/16"-14-UNS-2B	97,5	64,5	16,0	32



C27940

O-RING FEMALE 45° ELBOW
HEMBRA O-RING CODO 45°
DICHTKOPF O-RING - 45° BOGEN
FEMMINA O-RING - CURVA 45°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H
C27940-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	77,0	51,0	12,5	19
C27940-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	81,0	53,0	13,5	22
C27940-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	107,0	74,0	24,0	27
C27940-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	106,5	75,0	24,0	27
C27940-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	114,5	83,0	27,0	32
C27940-16-12	22	- 16	7/8"	1.1/16"-14-UNS-2B	118,0	85,0	27,0	32



C27946

O-RING FEMALE 45° ELBOW WITH LOW PRESSURE VALVE
HEMBRA O-RING CODO 45° CON VÁLVULA DE BAJA PRESION
DICHTKOPF O-RING - 45° BOGEN MIT NIEDERDRUCKVENTIL
FEMMINA O-RING - CURVA 45° CON VALVOLA BASSA PRESSIONE

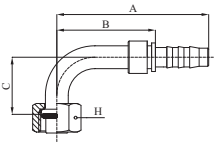
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H1	H2
C27946-12-10	13	- 12	5/8"	7/8"-14-UNF-2B	106,5	75,0	24,0	16,0	27

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C27990

O-RING FEMALE 90° ELBOW
HEMBRA O-RING CODO 90°
DICHTKOPF O-RING - 90° BOGEN
FEMMINA O-RING - CURVA 90°

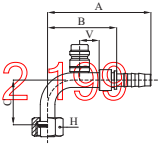


PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H
C27990-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	69,0	43,0	24,0	19
C27990-06-06036	8	- 06	5/16"	5/8"-18-UNF-2B	74,0	48,0	35,5	19
C27990-06-06060	8	- 06	5/16"	5/8"-18-UNF-2B	68,8	42,8	60,0	19
C27990-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	80,0	52,0	30,0	22
C27990-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	100,0	67,0	45,0	27
C27990-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	99,5	68,0	45,0	27
C27990-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2B	104,0	72,5	54,5	32
C27990-16-10	22	- 16	7/8"	7/8"-14-UNF-2B	104,0	70,0	45,0	27
C27990-16-12	22	- 16	7/8"	1.1/16"-14-UNS-2B	107,0	74,0	54,5	32

C27995

O-RING FEMALE 90° ELBOW WITH HIGH PRESSURE VALVE
HEMBRA O-RING CODO 90° CON VÁLVULA DE ALTA PRESION
DICHTKOPF O-RING - 90° BOGEN MIT HOCHDRUCKVENTIL
FEMMINA O-RING - CURVA 90° CON VALVOLA ALTA PRESSIONE

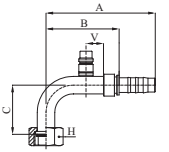
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PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	V±1	H
C27995-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	84,5	56,5	36,5	16,0	22
C27995-08-11	10	- 08	13/32"	1"-14-UNS-2B	92,8	64,8	39,0	16,0	29

C27996

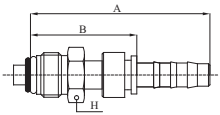
O-RING FEMALE 90° ELBOW WITH LOW PRESSURE VALVE
HEMBRA O-RING CODO 90° CON VÁLVULA DE BAJA PRESION
DICHTKOPF O-RING - 90° BOGEN MIT NIEDERDRUCKVENTIL
FEMMINA O-RING - CURVA 90° CON VALVOLA BASSA PRESSIONE



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	V±1	H
C27996-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	99,8	67,0	45,0	16,0	27

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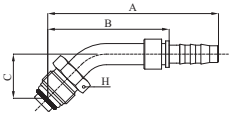
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C18010

STRAIGHT O-RING MALE
MACHO O-RING RECTO
AUSSENGEWINDE O-RING GERADE
MASCHIO O-RING - DRITTO

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5		H
C18010-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	63,8	38,0		17
C18010-16-10	22	- 16	7/8"	7/8"-14-UNF-2B	87,5	54,5		22

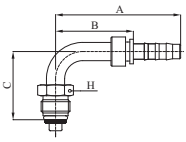


C18040

O-RING MALE 45° ELBOW
MACHO O-RING CODO 45°
AUSSENGEWINDE O-RING - 45° BOGEN
MASCHIO O-RING - CURVA 45°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H
C18040-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	83,5	57,5	21,5	17
C18040-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	11,5	78,5	28,5	22

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C18090

O-RING MALE 90° ELBOW
MACHO O-RING CODO 90°
AUSSENGEWINDE O-RING - 90° BOGEN
MASCHIO O-RING - CURVA 90°

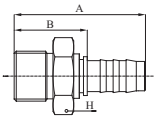
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H
C18090-06-06	8	- 06	5/16"	5/8"-18-UNF-2A	69,0	43,0	37,5	17
C18090-06-06060	8	- 06	5/16"	5/8"-18-UNF-2A	69,0	42,8	60,0	17
C18090-10-10	13	- 10	1/2"	7/8"-14-UNF-2A	99,5	66,5	54,5	22
C18090-16-10	22	- 16	7/8"	7/8"-14-UNF-2A	102,0	69,0	54,5	22
C18090-16-10072	22	- 16	7/8"	7/8"-14-UNF-2A	102,0	69,0	72,0	22

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C17910

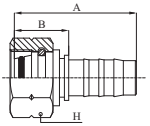
STRAIGHT MALE WITH O-RING SEAT
MACHO CON ASIENTO O-RING RECTO
AUSSENGEWINDE MIT O-RING SITZ GERADE
MASCHIO SEDE O-RING - DRITTO



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5		H
C17910-06-06	8	- 06	5/16"	5/8"-18-UNF-2A	50,5	24,5		17
C17910-12-12	16	- 12	5/8"	1.1/16"-14-UNS-2A	71,0	39,5		30

C21510

STRAIGHT 24° DIN FLARE O-RING OGIVAL FEMALE
HEMBRA O-RING OGIVA 24° DIN CÓNICO RECTO
DICHTKOPF 24° DIN KONUS MIT O-RING GERADE
FEMMINA O-RING OGIVA 24° DIN - DRITTO

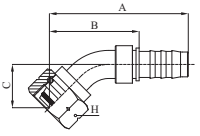


PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5		H
C21510-16-30	22	- 16	7/8"	M 30x2	61,0	28,0		36
C21510-20-36	28	- 20	1.1/8"	M 36x2	74,5	30,5		41

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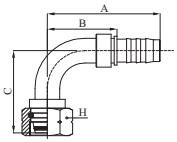
C21540

24° DIN FLARE O-RING OGIVAL FEMALE 45° ELBOW
HEMBRA O-RING OGIVA 24° DIN CÓNICO CODO 45°
DICHTKOPF 24° DIN KONUS MIT O-RING - 45° BOGEN
FEMMINA O-RING OGIVA 24° DIN - CURVA 45°



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H
C21540-16-30	22	- 16	7/8"	M 30x2	95,0	62,0	29,0	36
C21540-20-36	28	- 20	1.1/8"	M 36x2	118,5	74,5	34,5	41

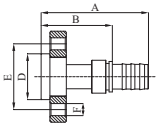
FLUIDTECHNIK S.R.L.0723 382 199



C21590

24° DIN FLARE O-RING OGIVAL FEMALE 90° ELBOW
HEMBRA O-RING OGIVA 24° DIN CÓNICO CODO 90°
DICHTKOPF 24° DIN KONUS MIT O-RING - 90° BOGEN
FEMMINA O-RING OGIVA 24° DIN - CURVA 90°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H
C21590-16-30	22	- 16	7/8"	M 30x2	81,5	48,5	56,5	36
C21590-20-36	28	- 20	1.1/8"	M 36x2	105,0	61,0	69,5	41

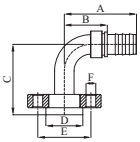


C23710

STRAIGHT FLANGE FITTING
BRIDA RECTA
FLANSCHARMATUR GERADE
RACCORDO DRITTO CON FLANGIA

PART. REF.	HOSE SIZE				DIMENSIONS mm				
	DN	Dash	Inch		A±2.5	B±2.5	D	E	F
C23710-16-16	22	- 16	7/8"		98,0	65,0	41,8	60,0	Ø 11,0
C23710-20-16	28	- 20	1.1/8"		115,0	71,0	41,8	60,0	Ø 11,0

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C23790

FLANGE FITTING 90° ELBOW
BRIDA 90°
FLANSCHARMATUR - 90° BOGEN
RACCORDO CON FLANGIA - CURVA 90°

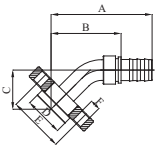
PART. REF.	HOSE SIZE				DIMENSIONS mm					
	DN	Dash	Inch		A±2.5	B±2.5	C±2	V±1	H1	H2
C23790-16-16	22	- 16	7/8"		81,5	48,5	79,5	41,8	60,0	Ø 11,0
C23790-20-16	28	- 20	1.1/8"		105,0	61,0	88,5	41,8	60,0	Ø 11,0

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C23740

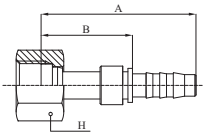
FLANGE FITTING 45° ELBOW
BRIDA 45°
FLANSCHARMATUR - 45° BOGEN
RACCORDO CON FLANGIA - CURVA 45°



PART. REF.	HOSE SIZE				DIMENSIONS mm					
	DN	Dash	Inch		A±2.5	B±2.5	C±2	D	E	F
C23740-16-16	22	- 16	7/8"		107,1	74,6	41,7	41,8	60,0	Ø 11,0
C23740-20-16	28	- 20	1.1/8"		126,4	82,9	44,3	41,8	60,0	Ø 11,0

C22410

STRAIGHT ORS FLAT SEAL FEMALE
HEMBRA ASIENTO PLANO ORS RECTO
ORS DICHTKOPF FLACHDICHTEND GERADE
FEMMINA TENUTA FRONTALE ORS - DRITTO

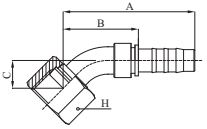


PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5		H
C22410-10-08	13	- 10	1/2"	13/16"-16-UN-2B	73,4	41,3		27
C22410-10-10	13	- 10	1/2"	1"-14-UNS-2B	84,0	51,0		30
C22410-16-16	22	- 16	7/8"	1.7/16"-12-UN-2B	108,5	75,5		41
C22410-20-20	28	- 20	1.1/8"	1.11/16"-12-UN-2B	119,0	75,0		50

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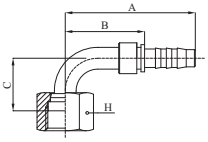
C22440

ORS FLAT SEAL FEMALE 45° ELBOW
HEMBRA ASIENTO PLANO ORS CODO 45°
ORS DICHTKOPF FLACHDICHTEND - 45° BOGEN
FEMMINA TENUTA FRONTALE ORS - CURVA 45°



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H
C22440-10-10	13	- 10	1/2"	1"-14-UNS-2B	77,0	44,0	16,0	30
C22440-16-16	22	- 16	7/8"	1.7/16"-12-UN-2B	106,5	73,5	40,5	41
C22440-20-20	28	- 20	1.1/8"	1.11/16"-12-UN-2B	115,0	71,0	25,5	50

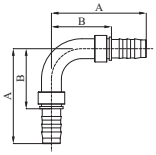
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C22490

ORS FLAT SEAL FEMALE 90° ELBOW
HEMBRA ASIENTO PLANO ORS CODO 90°
ORS DICHTKOPF FLACHDICHTEND - 90° BOGEN
FEMMINA TENUTA FRONTALE ORS - CURVA 90°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	H
C22490-16-16	22	- 16	7/8"	1.7/16"-12-UN-2B	108,5	75,5	48,0	41
C22490-20-20	28	- 20	1.1/8"	1.11/16"-12-UN-2B	109,0	65,0	56,0	50



C10090

CONNECTION 90° ELBOW
ACOPLE CODO 90°
VERBINDER 90° BOGEN
GIUNZIONE - CURVA 90°

PART. REF.	HOSE SIZE				DIMENSIONS mm			
	DN	Dash	Inch		$A^{\pm 2.5}$	$B^{\pm 2.5}$		
C10090-06-06	8	- 06	5/16"		74,8	48,8		
C10090-16-16	22	- 16	7/8"		91,0	58,5		

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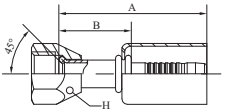
SAE J2064 TYPE A



HOSE SIZE			FERRULE EXTERNAL DIAMETER
DN	Dash	Inch	mm
8	- 06	5/16"	22,0
10	- 08	13/32"	22,0
13	- 10	1/2"	25,8
16	- 12	5/8"	28,4

OPC22610

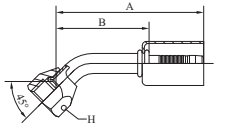
45° SAE STRAIGHT FEMALE
HEMBRA 45° SAE RECTO
SAE DICHTKOPF 45° BOGEN
FEMMINA 45° SAE DRITTO



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm		
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	H
OPC22610-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	53,2	26,0	19
OPC22610-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	58,7	28,5	22
OPC22610-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	60,7	30,0	27
OPC42610-12-12	16	- 12	5/8"	1.1/16"-14-UNS	94,3	59,5	32

OPC22640

45° SAE FEMALE 45° ELBOW
HEMBRA SAE 45° CODO 45°
SAE DICHTKOPF 45° BOGEN
FEMMINA 45° SAE CURVA 45°



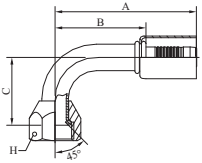
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	H
OPC22640-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	73,7	46,5	12,5	19
OPC22640-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	84,7	54,5	15,0	22
OPC22640-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	114,5	83,8	26,5	27

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FAST-CRIMP FITTINGS

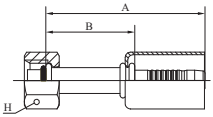
SAE J2064 TYPE A



OPC22690

45° SAE FEMALE 90° ELBOW
HEMBRA 45° SAE CODO 90°
SAE DICHTKOPF 90° BOGEN
FEMMINA 45° SAE CURVA 90°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H
OPC22690-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	69,2	42,0	26,0	19
OPC22690-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	75,2	45,0	35,0	22
OPC22690-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	85,7	55,0	41,0	27

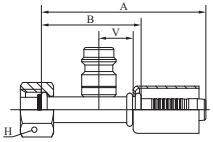


OPC27910

STRAIGHT O-RING FEMALE
HEMBRA O-RING RECTO
O-RING DICHTKOPF GERADE
FEMMINA O-RING DRITTO

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm		
	DN	Dash	Inch	T	A±2.5	B±2.5	H
OPC27910-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	61,2	34,0	19
OPC27910-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	66,2	36,0	22
OPC27910-08-11	10	- 08	13/32"	1"-14-UNS-2B	65,7	35,5	29
OPC27910-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	67,7	37,0	27
OPC27910-10-10078	13	- 10	1/2"	7/8"-14-UNF-2B	77,7	47,0	27
OPC27910-10-11	13	- 10	1/2"	1"-14-UNS-2B	56,2	25,5	29
OPC27910-10-11076	13	- 10	1/2"	1"-14-UNS-2B	76,2	45,5	29
OPC27910-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	68,96	39,6	27
OPC27910-12-10079	16	- 12	5/8"	7/8"-14-UNF-2B	78,9	46,9	27
OPC47910-12-11*	16	- 12	5/8"	1"-14-UNS-2B	51,2	16,4	29
OPC47910-12-12*	16	- 12	5/8"	1.1/16"-14-UNS	67,8	33,0	32

* **Obtained by brazing** / Obtenido por soldadura / Gelötet / Ottenuto tramite brasatura



OPC27915

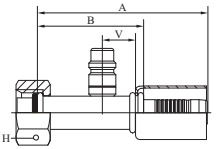
STRAIGHT O-RING FEMALE WITH HIGH PRESSURE VALVE
HEMBRA O-RING RECTO CON VÁLVULA DE ALTA PRESION
O-RING DICHTKOPF GERADE MIT HOCHDRUCKVENTIL
FEMMINA O-RING DRITTO CON VALVOLA AD ALTA PRESSIONE

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	V±1	H
OPC27915-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	70,7	43,5	16,0	19
OPC27915-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	76,7	46,5	16,0	22
OPC27915-08-11	10	- 08	13/32"	1"-14-UNS-2B	82,7	52,5	16,0	29

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OPC27916

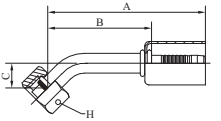
STRAIGHT O-RING FEMALE WITH LOW PRESSURE VALVE
HEMBRA O-RING RECTO CON VÁLVULA DE BAJA PRESION
O-RING DICHTKOPF GERADE MIT NIEDERDRUCKVENTIL
FEMMINA O-RING DRITTO CON VALVOLA A BASSA PRESSIONE



PART. REF.	HOSE SIZE		THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$V^{\pm 1}$	H
OPC27916-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	81,7	51	16,0	27
OPC27916-10-11	13	- 10	1/2"	1"-14-UNS-2B	78,7	48	16,0	29

OPC27940

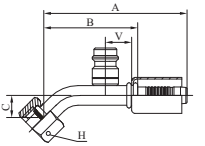
O-RING FEMALE 45° ELBOW
HEMBRA O-RING CODO 45°
O-RING DICHTKOPF 45° BOGEN
FEMMINA O-RING CURVA 45°



PART. REF.	HOSE SIZE		THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	H
OPC27940-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	79,7	52,5	12,5	19
OPC27940-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	87,7	57,5	13,5	22
OPC27940-08-11	10	- 08	13/32"	1"-14-UNS-2B	84,7	54,5	14,0	29
OPC27940-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	98,7	68,0	24,0	27
OPC27940-10-11	13	- 10	1/2"	1"-14-UNS-2B	97,7	67,0	22,0	29
OPC27940-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	98,7	66,7	24,0	27

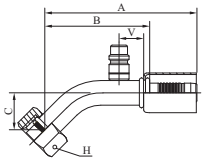
OPC27945

O-RING FEMALE WITH HIGH PRESSURE VALVE 45° ELBOW
HEMBRA O-RING CON VÁLVULA DE ALTA PRESION CODO 45°
O-RING DICHTKOPF 45° BOGEN MIT HOCHDRUCKVENTIL
FEMMINA O-RING CURVA 45° CON VALVOLA AD ALTA PRESSIONE



PART. REF.	HOSE SIZE		THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	$V^{\pm 1}$	H
OPC27945-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	79,7	52,5	12,5	16,0	19
OPC27945-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	87,7	57,5	13,5	16,0	22
OPC27945-08-11	10	- 08	13/32"	1"-14-UNS-2B	84,7	54,5	14,0	16,0	29

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OPC27946

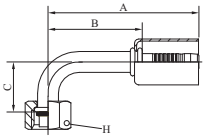
O-RING FEMALE WITH LOW PRESSURE VALVE 45° ELBOW

HEMBRA O-RING CON VÁLVULA DE BAJA PRESION CODO 45°

O-RING DICHTKOPF 45° BOGEN MIT NIEDRIGDRUCKVENTIL

FEMMINA O-RING CURVA 45° CON VALVOLA A BASSA PRESSIONE

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	$V^{\pm 1}$	H
OPC27946-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	98,7	68,0	24,0	16,0	27
OPC27946-10-11	13	- 10	1/2"	1"-14-UNS-2B	97,7	67,0	22,0	16,0	29



OPC27990

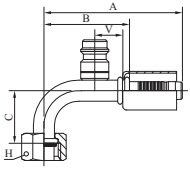
O-RING FEMALE 90° ELBOW

HEMBRA O-RING CODO 90°

O-RING DICHTKOPF 90° BOGEN

FEMMINA O-RING CURVA 90°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	H
OPC27990-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	72,2	45	24,0	19
OPC27990-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	78,7	48,5	30,0	22
OPC27990-08-11	10	- 08	13/32"	1"-14-UNS-2B	77,7	47,5	33,0	29
OPC27990-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	91,7	61,0	46,5	27
OPC27990-10-11	13	- 10	1/2"	1"-14-UNS-2B	92,7	62,0	39,0	29
OPC27990-12-10	16	- 12	5/8"	7/8"-14-UNF-2B	88,7	56,7	45,0	27
OPC27990-12-11	16	- 12	5/8"	1"-14-UNS-2B	92,2	60,2	38,0	29
OPC47990-12-12	16	- 12	5/8"	1.1/16"-14-UNS	102,8	68,0	54,5	32



OPC27995

O-RING FEMALE WITH HIGH PRESSURE VALVE 90° ELBOW

HEMBRA O-RING CON VÁLVULA DE ALTA PRESION CODO 90°

O-RING DICHTKOPF 90° BOGEN MIT HOCHDRUCKVENTIL

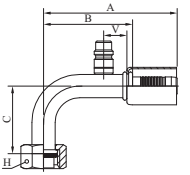
FEMMINA O-RING CURVA 90° CON VALVOLA AD ALTA PRESSIONE

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	$V^{\pm 1}$	H
OPC27995-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	72,2	45,0	24,0	16,0	19
OPC27995-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	78,8	48,5	30,0	16,0	22
OPC27995-08-11	10	- 08	13/32"	1"-14-UNS-2B	79,2	49,0	32,0	16,0	29

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OPC27996

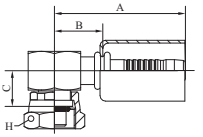
O-RING FEMALE WITH LOW PRESSURE VALVE 90° ELBOW
HEMBRA O-RING CON VÁLVULA DE BAJA PRESION CODO 90°
O-RING DICHTKOPF 90° BOGEN MIT NIEDRIGDRUCKVENTIL
FEMMINA O-RING CURVA 90° CON VALVOLA A BASSA PRESSIONE



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	$V^{\pm 1}$	H
OPC27996-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	91,7	61,0	46,5	16,0	27
OPC27996-10-11	13	- 10	1/2"	1"-14-UNS-2B	92,7	62,0	39,0	16,0	29

OPC27980

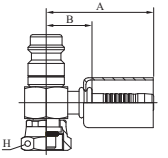
SHORT VERSION O-RING FEMALE
HEMBRA O-RING TIPO CORTO
O-RING DICHTKOPF 90° BOGEN KURZE VERSION
FEMMINA O-RING TIPO CORTO CURVA 90°



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	H
OPC27980-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	47,0	17,5	12,9	19
OPC27980-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	52,0	19,0	16,0	22
OPC27980-08-11	10	- 08	13/32"	1"-14-UNS-2B	55,5	22,5	16,4	29
OPC27980-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	55,0	21,5	16,4	27
OPC27980-10-11	13	- 10	1/2"	1"-14-UNS-2B	56,0	22,5	16,4	29
OPC47980-12-11	16	- 12	5/8"	1"-14-UNS-2B	56,3	21,5	24,2	29

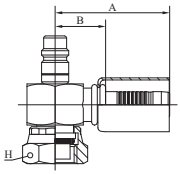
OPC27985

SHORT VERSION O-RING FEMALE WITH HIGH PRESSURE VALVE
HEMBRA O-RING TIPO CORTO CON VÁLVULA DE ALTA PRESION
O-RING DICHTKOPF 90° BOGEN MIT HOCHDRUCKVENTIL KURZE VERSION
FEMMINA O-RING TIPO CORTO CURVA 90° CON VALVOLA AD ALTA PRESSIONE



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	H
OPC27985-06-06	8	- 06	5/16"	5/8"-18-UNF-2B	47,0	17,5	12,9	19
OPC27985-08-08	10	- 08	13/32"	3/4"-16-UNF-2B	52,0	19,0	16,0	22
OPC27985-08-11	10	- 08	13/32"	1"-14-UNS-2B	55,5	22,5	16,4	29

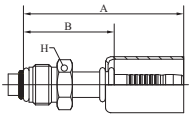
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OPC27986

SHORT VERSION O-RING FEMALE WITH LOW PRESSURE VALVE
HEMBRA O-RING TIPO CORTO CON VÁLVULA DE BAJA PRESION
O-RING DICHTKOPF 90° BOGEN MIT NIEDRIGDRUCKVENTIL KURZE VERSION
FEMMINA O-RING TIPO CORTO CURVA 90° CON VALVOLA A BASSA PRESSIONE

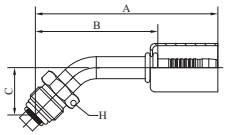
PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H
OPC27986-10-10	13	- 10	1/2"	7/8"-14-UNF-2B	55,0	21,5	16,4	27
OPC27986-10-11	13	- 10	1/2"	1"-14-UNS-2B	56,0	22,5	16,4	29
OPC47986-12-11	16	- 12	5/8"	1"-14-UNS-2B	56,3	21,5	24,2	29



OPC18010

STRAIGHT O-RING MALE
MACHO O-RING RECTO
O-RING AUSSENGEWINDE GERADE
MASCHIO O-RING DRITTO

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm		
	DN	Dash	Inch	T	A±2.5	B±2.5	H
OPC18010-06-06	8	- 06	5/16"	5/8"-18-UNF-2A	62,7	35,5	17
OPC18010-08-08	10	- 08	13/32"	3/4"-18-UNS-2A	82,2	52,0	22
OPC18010-10-10	13	- 10	1/2"	7/8"-18-UNS-2A	74,2	43,5	22
OPC18010-12-10	16	- 12	5/8"	7/8"-18-UNS-2A	69,7	37,7	22



OPC18040

O-RING MALE 45° ELBOW
MACHO O-RING CODO 45°
O-RING AUSSENGEWINDE 45° BOGEN
MASCHIO O-RING CURVA 45°

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H
OPC18040-06-06	8	- 06	5/16"	5/8"-18-UNF-2A	82,7	55,5	21,5	17
OPC18040-08-08	10	- 08	13/32"	3/4"-18-UNS-2A	96,7	66,5	25,0	22
OPC18040-10-10	13	- 10	1/2"	7/8"-18-UNS-2A	102,2	71,5	30,0	22
OPC18040-12-10	16	- 12	5/8"	7/8"-18-UNS-2A	132,2	100,2	27,0	22

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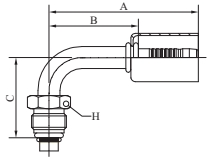
FAST-CRIMP FITTINGS

REFRI FAST

SAE J2064 TYPE A

OPC18090

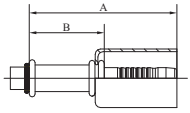
O-RING MALE 90° ELBOW
MACHO O-RING CODO 90°
O-RING AUSSENGEWINDE 90° BOGEN
MASCHIO O-RING CURVA 90°



PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	A±2.5	B±2.5	C±2	H
OPC18090-06-06	8	- 06	5/16"	5/8"-18-UNF-2A	67,7	40,5	36,5	17
OPC18090-08-08	10	- 08	13/32"	3/4"-18-UNS-2A	78,7	48,5	48,0	22
OPC18090-10-10	13	- 10	1/2"	7/8"-18-UNS-2A	86,7	56,0	54,5	22

OPC27610

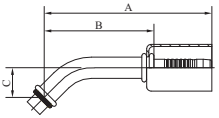
STRAIGHT FITTING FOR EXPANSION VALVE
CONEXION RECTA PARA VÁLVULA DE EXPANSIÓN
GERADE NIPPEL FÜR FÜLLVENTIL
RACCORDO DRITTO PER VALVOLA DI ESPANSIONE



PART. REF.	HOSE SIZE				DIMENSIONS mm		
	DN	Dash	Inch		A±2.5	B±2.5	
OPC27610-06-06	8	- 06	5/16"		55,2	28,0	
OPC27610-10-12	13	- 10	1/2"		56,7	26,0	

OPC27640

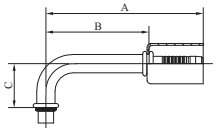
FITTING FOR EXPANSION VALVE 45° ELBOW
CONEXION PARA VÁLVULA DE EXPANSION CODO 45°
GERADE NIPPEL FÜR FÜLLVENTIL 45° BOGEN
RACCORDO PER VALVOLA DI ESPANSIONE CURVA 45°



PART. REF.	HOSE SIZE				DIMENSIONS mm		
	DN	Dash	Inch		A±2.5	B±2.5	C±2
OPC27640-06-06	8	- 06	5/16"		78,7	51,5	14,0
OPC27640-10-12	13	- 10	1/2"		98,7	68,0	18,5
OPC27640-12-12	16	- 12	5/8"		96,2	64,2	18,5

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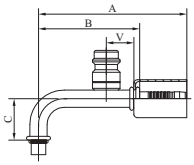
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OPC27690

FITTING FOR EXPANSION VALVE 90° ELBOW
CONEXION PARA VÁLVULA DE EXPANSION CODO 90°
GERADE NIPPEL FÜR FÜLLVENTIL 90° BOGEN
RACCORDO PER VALVOLA DI ESPANSIONE CURVA 90°

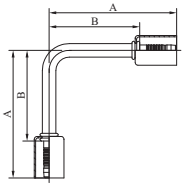
PART. REF.	HOSE SIZE				DIMENSIONS mm		
	DN	Dash	Inch		$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$
OPC27690-06-06	8	- 06	5/16"		85,7	58,5	24,0
OPC27690-10-12	13	- 10	1/2"		94,2	63,5	42,5



OPC27695

FITTING FOR EXPANSION VALVE WITH HIGH PRESSURE VALVE 90° ELBOW
CONEXION PARA VÁLVULA DE EXPANSION CON VÁLVULA DE ALTA PRESION CODO 90°
VERBINDUNGSSTÜCK FÜR AUSDEHNUNGSVENTIL 90° BOGEN MIT HOCHDRUCKVENTIL
RACCORDO PER VALVOLA DI ESPANSIONE CURVA 90° CON VALVOLA AD ALTA PRESSIONE

PART. REF.	HOSE SIZE				DIMENSIONS mm			
	DN	Dash	Inch		$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 2}$	$V^{\pm 1}$
OPC27695-06-06	8	- 06	5/16"		85,7	58,5	24,0	16,0



OPC10090

CONNECTION FITTING 90° ELBOW
CONEXION CODO 90°
VERBINDER 90° BOGEN
GIUNZIONE CURVA 90°

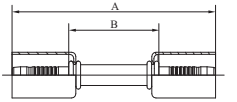
PART. REF.	HOSE SIZE				DIMENSIONS mm		
	DN	Dash	Inch		$A^{\pm 2.5}$	$B^{\pm 2.5}$	
OPC10090-06-06	8	- 06	5/16"		94,3	67,1	
OPC10090-08-08	10	- 08	13/32"		93,7	63,5	
OPC10090-10-10	13	- 10	1/2"		98,1	67,4	

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OPC10010

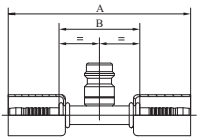
CONNECTION FITTING
UNIÓN RECTA
VERBINDER GERADE
GIUNZIONE DRITTA



PART. REF.	HOSE SIZE				DIMENSIONS mm		
	DN	Dash	Inch		A±2.5	B±2.5	
OPC10010-06-06	8	- 06	5/16"		97,4	43,0	
OPC10010-08-08	10	- 08	13/32"		99,4	39,0	
OPC10010-10-10	13	- 10	1/2"		101,4	40,0	
OPC10010-12-12	16	- 12	5/8"		105,4	41,4	

OPC10015

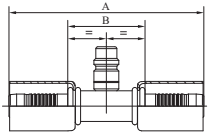
CONNECTION FITTING WITH HIGH PRESSURE VALVE
UNIÓN CON VÁLVULA DE ALTA PRESION
VERBINDER GERADE MIT HOCHDRUCKVENTIL
GIUNZIONE DRITTA CON VALVOLA AD ALTA PRESSIONE



PART. REF.	HOSE SIZE				DIMENSIONS mm		
	DN	Dash	Inch		A±2.5	B±2.5	
OPC10015-06-06	8	- 06	5/16"		97,4	43,0	
OPC10015-08-08	10	- 08	13/32"		94,0	33,6	

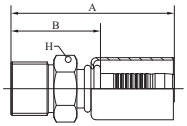
OPC10016

CONNECTION FITTING WITH LOW PRESSURE VALVE
UNIÓN CON VÁLVULA DE BAJA PRESION
VERBINDER GERADE MIT NIEDRIGDRUCKVENTIL
GIUNZIONE DRITTA CON VALVOLA A BASSA PRESSIONE



PART. REF.	HOSE SIZE				DIMENSIONS mm		
	DN	Dash	Inch		A±2.5	B±2.5	
OPC10016-10-10	13	- 10	1/2"		96,0	34,6	
OPC10016-12-12	16	- 12	5/8"		117,9	53,9	

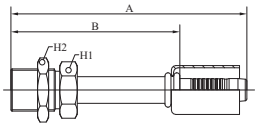
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OPC17910

STRAIGHT MALE WITH O-RING SEAT
MACHO RECTO CON O-RING
GERADES O-RING AUSSENGEWINDE
MASCHIO SEDE O-RING DRITTO

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm		
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	H
OPC17910-06-06	8	- 06	5/16"	5/8"-18-UNF-2A	56,0	28,5	17
OPC17910-10-10	13	- 10	1/2"	7/8"-14-UNF-2A	68,3	33,8	24

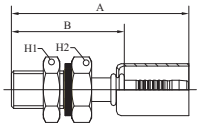


OPC17910...W

STRAIGHT MALE WITH O-RING SEAT WITH COUNTER NUT
MACHO RECTO PASATABIQUE CON O-RING
GERADES O-RING AUSSENGEWINDE MIT KONTERMUTTER
MASCHIO SEDE O-RING DRITTO CON CONTRODADO

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	H_1	H_2
OPC17910-08-08W25	10	- 08	13/32"	3/4"-16-UNF-2A	106,2	76,0	22	25

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OPC17910...W...Q

STRAIGHT MALE WITH O-RING SEAT WITH COUNTER NUT AND Q-RING
MACHO RECTO PASATABIQUE CON O-RING Y Q-RING
GERADES O-RING AUSSENGEWINDE MIT KONTERMUTTER UND Q-RING
MASCHIO SEDE O-RING DRITTO CON CONTRODADO E Q-RING

PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm			
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	H_1	H_2
OPC17910-06-06W24Q	8	- 06	5/16"	5/8"-18-UNF-2A	75,2	48,0	24	24
OPC17910-10-10W29Q	13	- 10	1/2"	7/8"-14-UNF-2A	82,7	52,0	29	29

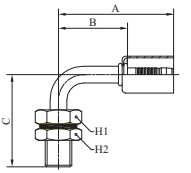
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SAE J2064 TYPE A

OPC17990...W...Q

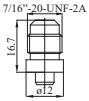
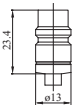
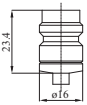
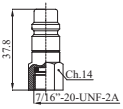
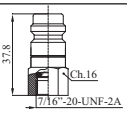
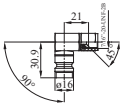
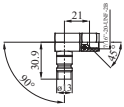
MALE WITH O-RING SEAT WITH COUNTER NUT AND Q-RING 90° ELBOW
CODO MACHO 90° PASATABIQUE CON O-RING Y Q-RING
O-RING AUSSENGEWINDE MIT KONTERMUTTER UND Q-RING - 90° BOGEN
MASCHIO CON O-RING, CONTRODATO E Q-RING CURVA 90°

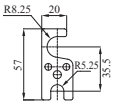
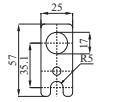


PART. REF.	HOSE SIZE			THREAD	DIMENSIONS mm				
	DN	Dash	Inch	T	$A^{\pm 2.5}$	$B^{\pm 2.5}$	$C^{\pm 21}$	H_1	H_2
OPC17990-06-06W24Q	8	- 06	5/16"	5/8"-18-UNF-2A	68,4	41,2	55,0	24	24
OPC17990-10-10W30Q	13	- 10	1/2"	7/8"-14-UNF-2A	85,4	54,7	64,0	29	30

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CODE	VALVE TYPE	CHARACTERISTICS	VALVE CORE	CAP
9000984		**CHARGE VALVE - 1/4" SAE FOR R134a** VÁLVULA DE CARGA - 1/4" SAE PARA R134a FÜLLVENTIL 1/4" SAE FÜR R134a VALVOLA DI CARICA 1/4" SAE PER R134a	 9001188	 HP 9001186 LP 9001187 1/4 SAE CHARGE VALVE 9001210
9000981		**LOW PRESSURE CHARGE VALVE FOR R134a** VÁLVULA DE CARGA DE BAJA PRESION PARA R134a NIEDERDRUCKFÜLLVENTIL FÜR R134a VALVOLA DI CARICA BASSA PRESSIONE PER R134a		
9000980		**HIGH PRESSURE CHARGE VALVE FOR R134a** VÁLVULA DE CARGA DE ALTA PRESION PARA R134a HOCHDRUCKFÜLLVENTIL FÜR R134a VALVOLA DI CARICA ALTA PRESSIONE PER R134a		
9000983		**LOW PRESSURE VALVE ADAPTER** ADAPTADOR PARA VÁLVULA DE BAJA PRESION NIEDERDRUCKVENTILADAPTER ADATTATORE PER VALVOLA BASSA PRESSIONE		
9000982		**HIGH PRESSURE VALVE ADAPTER** ADAPTADOR PARA VÁLVULA DE ALTA PRESION HOCHDRUCKVENTILADAPTER ADATTATORE PER VALVOLA ALTA PRESSIONE		
1003326		**90° LOW PRESSURE VALVE ADAPTER** 90° ADAPTADOR PARA VÁLVULA DE BAJA PRESION 90° NIEDERDRUCKVENTILADAPTER 90° ADATTATORE PER VALVOLA A BASSA PRESSIONE		
1004323		**90° HIGH PRESSURE VALVE ADAPTER** 90° ADAPTADOR PARA VÁLVULA DE ALTA PRESION 90° HOCHDRUCKVENTILADAPTER 90° ADATTATORE PER VALVOLA AD ALTA PRESSIONE		

CODE	PLATE	CHARACTERISTICS
9001181		**PLATE TO FIX THE TUBE TO THE EXPANSION VALVE** PLATINA PARA FIJAR EL TUBO A LA VÁLVULA DE EXPANSION PLATTE ZUR FIXIERUNG DES SCHLAUCHES AM EXPANSIONSVENTIL PIASTRINA DI FISSAGGIO TUBI ALLA VALVOLA DI ESPANSIONE
900182		**PLATE TO FIX THE TUBE TO THE EXPANSION VALVE** PLATINA PARA FIJAR EL TUBO A LA VÁLVULA DE EXPANSION PLATTE ZUR FIXIERUNG DES SCHLAUCHES AM EXPANSIONSVENTIL PIASTRINA DI FISSAGGIO TUBI ALLA VALVOLA DI ESPANSION

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ELASTOMERIC INSULATING SLEEVE

MANGA AISLANTE ELASTOMERICA
ISOLIERENDER ELASTOMER SCHUTZSCHLAUCH
GUAINA ISOLANTE DI NATURA ELASTOMERICA

CODE	DESCRIPTION	I.D.	WALL THICKNESS
9001132	ARMAFLEX D18X6	18,0	6,0
9001137	ARMAFLEX D28X9	28,0	9,0
9001140	ARMAFLEX D35X9	35,0	9,0
9001141	ARMAFLEX D42X9	42,0	9,0



FURTHER DIMENSIONS AVAILABLE ON REQUEST
OTRAS DIMENSIONES DISPONIBLES A SOLICITUD
WEITERE ABMESSUNGEN AUF ANFRAGE ERHÄLTLICH
ALTRE MISURE DISPONIBILI SU RICHIESTA

COMPOSITION: Elastomeric foam compounded by synthetic rubber MAIN APPLICATION: Protection to avoid condensation for refrigeration and air conditioning system TECHNICAL DATA: Temperaure resistance -40°C - +105°C

COMPOSICION: Espuma elastomérica a base de caucho sintético PRINCIPAL APLICACIÓN: Protección para evitar condensación
DATOS TÉCNICOS: Resistencia a la temperatura -40°C - +105°C

AUFBAU: Elastomerschaum im Verbund mit synthetischem Gummi HAUPTANWENDUNG: Schutz vor Kondensation in Kühl- und A/C Systemen
TECHNISCHE DATEN: Temperaturbeständigkeit -40°C - +105°C

COMPOSIZIONE: Schiuma elastomerica a base di gomme sintetiche PRINCIPALI APPLICAZIONI: Anticondensa per impianti di refrigerazione e condizionamento
DATI TECNICI: Resistenza alla temperatura -40°C - +105°C

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CORRUGATED TUBE

TUBO CORRUGADO
ISOLIERENDER ELASTOMER SCHUTZSCHLAUCH
GUAINA ISOLANTE DI NATURA ELASTOMERICA

CODE	DESCRIPTION	I.D.	WALL THICKNESS
2009051	DN17 SLITTED	16,8	1,8
2007947	DN19 SLITTED	19,4	2,0
2008438	DN22 SLITTED	21,8	1,7
2009064	DN23 SLITTED	23,7	2,0



FURTHER DIMENSIONS AVAILABLE ON REQUEST
OTRAS DIMENSIONES DISPONIBLES A SOLICITUD
WEITERE ABMESSUNGEN AUF ANFRAGE ERHÄLTLICH
ALTRE MISURE DISPONIBILI SU RICHIESTA

COMPOSITION: MODIFIED POLYPROPILEN MAIN APPLICATION: ABRASION RESISTANCE

COMPOSICION: Polipropileno modificado PRINCIPAL APLICACIÓN: Resistencia a la abrasión

AUFBAU: Modifiziertes Polypropylen HAUPTANWENDUNG: Abriebschutz

COMPOSIZIONE: Polipropilene modificato PRINCIPALI APPLICAZIONI: Resistenza all'abrasione

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SLEEVE FOR PROTECTION FROM RADIANT HEAT
MANGA DE PROTECCION DEL CALOR POR RADIACION
SCHLAUCH ZUM SCHUTZ GEGEN STRAHLUNGSWÄRME
GUAINA DI PROTEZIONE CONTRO IL CALORE IRRADIATO

CODE	DESCRIPTION	I.D.	WALL THICKNESS
2001265	WEST-SR-D20	20,0	1,4
2001266	WEST-SR-D24	24,5	1,4
9001267	WEST-SR-D26	26,5	1,5
9007095	WEST-SR-D28	28,0	1,5
9007156	WEST-SR-D30	30,0	1,6
9007096	WEST-SR-D32	32,0	1,6
9007154	WEST-SR-D34	34,0	1,6



FURTHER DIMENSIONS AVAILABLE ON REQUEST
OTRAS DIMENSIONES DISPONIBLES A SOLICITUD
WEITERE ABMESSUNGEN AUF ANFRAGE ERHÄLTLICH
ALTRE MISURE DISPONIBILI SU RICHIESTA

COMPOSITION: Inner layer: glassfabbric material laminated on aluminium - Outer layer: aluminium alloy
MAIN APPLICATION: Protection against heat radiation sources for A/C hose assemblies TECHNICAL DATA: Temperaure resistance -40°C - +250°C

COMPOSICION: Cubierta interior: fibra de vidrio laminado en aluminio Cubierta exterior: aleación de aluminio
PRINCIPAL APLICACIÓN: Protección contra el calor por radiacion DATOS TÉCNICOS: Resistencia a la temperatura -40°C - +250°C

AUFBAU: Innen: Glasfasergewebe auf Aluminium Außen: Aluminium HAUPTANWENDUNG: Schutz gegen Strahlungswärme für Klimaschläuche
TECHNISCHE DATEN: Temperaturbeständigkeit -40°C - +250°C

COMPOSIZIONE: Strato interno: fibra di vetro laminata su alluminio Strato esterno: lega di alluminio PRINCIPALI APPLICAZIONI: Protezione contro il calore irradiato di tubazioni assemablate per applicazioni aria condizionata DATI TECNICI: Resistenza alla temperatura -40°C - +250°C

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HTPS - HT PROTECTION SPRING
HTPS - PROTECCIONES PARA ALTA TEMPERATURA
HTPS - HITZEBESTÄNDIGE SCHUTZFEDER
HTPS - SPIRALE DI PROTEZIONE HT

CODE	DESCRIPTION	I.D.	WALL THICKNESS
JP12B03016I099	HT PROTECTION SPRING DN16	16,0	1,8
JP12B03019I099	HT PROTECTION SPRING DN19	19,0	2,3



FURTHER DIMENSIONS AVAILABLE ON REQUEST
OTRAS DIMENSIONES DISPONIBLES A SOLICITUD
WEITERE ABMESSUNGEN AUF ANFRAGE ERHÄLTLICH
ALTRE MISURE DISPONIBILI SU RICHIESTA

COMPOSITION: Black polyammide, rounded profile MAIN APPLICATION: Hose abrasion protection
TECHNICAL DATA: Service Temperaure range -40°C - +120°C

COMPOSICION: Poliamida negro, perfil redondeado PRINCIPAL APLICACIÓN: Protección contra abrasión tubos y conducción múltiple
DATOS TÉCNICOS: Temperatura de servicio -40°C - +120°C

AUFBAU: Schwarzes Polyamid, abgerundetes Profil HAUPTANWENDUNG: Schützt den Schlauch vor Abrieb
TECHNISCHE DATEN: Betriebstemperaturbereich -40°C - +120°C

COMPOSIZIONE: Poliamide nero PRINCIPALI APPLICAZIONI: Protezione del tubo dall'abrasione
DATI TECNICI: Temperatura di servizio -40°C - +120°C

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Fluid connectors, solid solutions

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HOSES

Manuli Hydraulics and MIP offer a complete package of hoses, inserts, staple-lock adaptors and ball valves specially designed for mining equipment and long walls installations (coal and soft rock mining), underground and open pit mines (soft-rock and hard-rock mines), high pressure and heavy duty hydraulic lines, medium pressure lines, return lines for mining applications.

The Manuli hose families specifically designed for mining applications are ROCKMASTER®, SHIELDMASTER®MINE, ETERNITY/2™, DIAMONDSPIR™ and new GOLDENMINE.
All of them feature high abrasion, ozone and ageing resistance (to temperatures), electrical anti-staticity property, flame retardant characteristic and low toxicity of smokes in case of fire.

In particular the ROCKMASTER® product range has been approved by mining safety Institutes all over the world, such as:
- MSHA (USA)
- FRAS (Australia)
- Polish Safety B (Poland)
- MA (China)
- DGMS (India)

Technical key-features of ROCKMASTER® and SHIELDMASTER®MINE families.

FEATURES	HOSE FAMILIES	
	ROCKMASTER®	SHIELDMASTER®MINE
ABRASION Resistance	Weight loss than 0,05 g with 25 N weight and 2000 cycles (method ISO 6945)	Weight loss negligible with 2000 cycles (method ISO 6945). Resistance up to 2 milion abrasion cycles (1000 times better than specifications requirement)
OZONE Resistance	More than 300 hours of dynamic ozone test ISO 10960 method	Higher performance is due to the external plastic material applied
ELECTRICAL ANTISTATIC property	Resistance lower than 1MOhm	Resistance lower than 1MOhm
FATIGUE Resistance	Excellent: more than 1 Million impulse test cycles for wire spiral structures. Heavy duty hoses tested with flexing impulse tests	Excellent: more than 1 Million impulse test cycles for wire spiral structures. Heavy duty hoses tested with flexing impulse tests

FITTINGS

Manuli Hydraulics fittings are specifically indicated for soft-rock mining and consist of:
- STAPLE-LOCK
- SUPER STAPLE-LOCK
- FLUSHFIT (low pressure)
- The new FLUSHFIT High Pressure type

The product features for the whole range are mainly:
- **Zinc plating treatment** that ensures a corrosion resistance higher than 500 hours before red corrosion (tested according to ASTM B117 (ISO 9227) method) – higher than international specifications requirements, e.g. MDG41 with 200 hours before red corrosion.

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- **High mechanical robustness** and **fatigue resistance**: safety factor burst/working pressure is higher than 4:1.
- **High robust staples** with smaller connection "footprint" and "high" fatigue resistance, thanks to the staple design that permits quick and easy connection in constrained environments.
- **Excellent hydraulic sealing, leak free solutions.**

ADAPTORS

Manuli Hydraulics and MIP offer for mining specific adaptors designed and manufactured for the soft-rock mining process.

In particular the adaptors range consists of: staple-lock, Super Staple-Lock, Flushfit connectors (standard and new very high pressure types).

STAPLE-LOCK adaptors are designed in favour of an easy connection in confined spaces. Available with male and female staple ends as well as threaded options.
These types of adaptors need to have a high corrosive protection surface finish to meet the requirements of a difficult environment. For this reason, staple adaptor in stainless steel are also available.
The standard staple-lock adaptors meet and exceed all international standards, including DIN 20043, SAE J1467 and NCB 638.
Manuli Hydraulics SUPER STAPLE-LOCK adaptors has been developed to satisfy high flow, high pressure system demands, necessary to achieve sensible cost saving.

FLUSH-FIT, low pressure style and the new high performance flushfit for large bore high pressure lines offers compact fittings for mining, with high mechanical robustness, snag free profile and easier handling. The type high performance is conceived to be used with DIAMONDSPIR hose in top level mining applications.

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Thanks to the hexavalent chromium free zinc plating Manuli flushfit and staple range grant superior performance, far exceeding specifications requirements. Moreover, materials used are environmental friendly, in compliance with new European Directives (ELV 2000/53/EC, RoHS 2002/95/EC).

BALL VALVES

Manuli Hydraulics and MIP ball valves are specifically designed for the soft-rock mining process and are designed to meet a variety of mining needs: from isolating sections of pipelines, to flow control.

Ball valves are available in:
- Staple-lock and Super Staple-lock versions (from DN6 (1/4") to DN63 (2 ½")
- Swivel female available also (together with fixed ones)
- 2-ways; 3-ways and 4-ways designs utilizing staple or threaded connections
- Provided with different handle styles (the lockable handle to be used with a padlock).

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HOSES

Manuli Hydraulics y MIP ofrecen un completo paquete de mangueras, terminales, adaptadores stape-lock y válvulas de bola especialmente diseñadas para equipos de minería y tunelación (carbón y piedra blanda para minas), subsuelo y minas abiertas (minas de piedra blanda y piedra dura), las líneas de alta presión y las líneas hidráulicas muy pesadas, media presión y líneas de retorno para aplicaciones de minería.

Las familias de mangueras Manuli especialmente diseñadas para la aplicación de minería son ROCKMASTER®, SHIELDMASTER®MINE, ETERNITY/2™, DIAMONDSPIR™ y GOLDENMINE.
Las características principales son la alta abrasión, la resistencia al envejecimiento (a las temperaturas), propiedades para la electricidad antiestática, característica del retardo a la llama y la baja toxicidad del humo en caso de fuego.

En particular la gama de productos ROCKMASTER® ha sido aceptada por los Institutos para la seguridad de todo el mundo, como:
- MSHA (USA)
- FRAS (Australia)
- Polish Safety B (Poland)
- MA (China)
- DGMS (India)

Las características técnicas de las familias ROCKMASTER® y SHIELDMASTER®MINE.

CARACTERÍSTICAS	FAMILIA DE MANGUERAS	
	ROCKMASTER®	SHIELDMASTER®MINE
Resistencia a la ABRASIÓN	Pérdida de peso menor que 0,05 gr con 25N de peso y 2000 ciclos (método ISO6945)	mínima pérdida de peso con 2000 ciclos (método ISO (6945). Resistencia hasta 2 Millones de ciclos de Abrasión (1000 veces mejor que los requisitos de la especificación.
Resistencia al OZONO	Más de 300 horas de Prueba Dinámica al ozono (método ISO 10960)	Excelente resistencia gracias a la protección plástica externa.
Propiedades ELECTRICIDAD ANTIESTÁTICA	Resistencia menor que 1MOhm	Resistencia menor que 1MOhm
Resistencia a la FATIGA	Excelente: más de 1 Millón de ciclos de impulsos para estructuras con refuerzo espiral. Las mangueras pesadas probadas con pruebas de impulsos flexibles	Excelente: más de 1 Millón de ciclos de impulsos para estructuras con refuerzo Espiral. Las mangueras pesadas probadas con pruebas de impulsos flexibles.

TERMINALES

Los racores Hydráulicos manuli están especialmente diseñados para la piedra blanda de mina y consisten en:
- STAPLE-LOCK
- SUPER STAPLE-LOCK
- FLUSHFIT (baja presión)
- El Nuevo FLUSHFIT Tipo alta presión

El producto ofrece para la gama completa:
- **Tratamiento cincado** que asegura una resistencia a la corrosión superior a 500 horas antes de la corrosión roja (prueba según el método ASTM B117 -ISO 9227-), mayor que el requerimiento internacional, ejemplo MDG41, con 200 horas antes que la corrosión roja.

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- **Alta robustez mecánica y Resistencia a la fatiga**: factor de seguridad rotura/presión de trabajo es mayor que 4:1.
- **Grapas robustas** con menor conexión "huella" y "alta" Resistencia a la fatiga, gracias al diseño principal que permite una fácil conexión en espacios reducidos.
- **Excelente estanqueidad hidráulica, soluciones sin fugas.**

ADAPTADORES

Manuli Hydraulics y MIP ofrece para minería adaptadores específicos diseñados y fabricados para procesos de minería de piedra blanda.

En particular la gama de adaptadores consiste en: staple-lock, Super Staple-Lock, conectores Flushfit (estándar y el nuevo tipo de alta presión).

Los adaptadores STAPLE-LOCK están diseñados para facilitar la conexión en espacios confinados. Disponible con terminaciones macho y hembra como también en las roscas.
Estos tipos de adaptadores necesitan tener un acabado exterior que permita protegerlos de la alta corrosión en un difícil ambiente. Por esta razón, los adaptadores staple también están disponibles en acero inoxidable.
El adaptador estándar staple-lock cumple y excede el estándar internacional, incluyendo el DIN 20043, SAE J1467 y NCB 638.
Los adaptadores SUPER STAPLE-LOCK de Manuli Hydraulics ha sido desarrollado para satisfacer un gran caudal, el sistema de alta presión, necesario para ahorrar un sensible ahorro de costos.

FLUSH-FIT, tipo baja presión y el Nuevo flushfit de alto rendimiento para tamaños grandes de líneas de alta presión ofrece racores para minería compactos, con alta robustez mecánica, enganche libre del perfil y mejor manejo. El tipo de alto rendimiento está concebido para ser usado con la manguera DIAMONDSPIR en aplicaciones de minería de alto nivel.

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Gracias al cromo hexavalente libre de cinc la gama de adaptadores Manuli flushfit y staple, garantizan mejores características, excediendo los requisitos de las especificaciones. Es más, los materiales usados son aptos para el medioambiente, conforme a las nuevas Directivas Europeas (ELV 2000/53/EC, RoHS 202/95/EC).

VALVULAS DE BOLA

Las válvulas de bola de Manuli Hydraulics y MIP están especialmente diseñadas para el proceso de minas de roca blanda y para las diferentes necesidades de la minería: aislar secciones de tubería, al control del fluido.

Las válvulas de bola están disponibles en:
- Versiones staple-lock y Super-lock (desde DN6 (1/4") a DN63 (2 ½")
- También disponibles con hembra giratoria (junto con la fija)
- Diseños de 2 vías, 3 vías y 4 vías utilizando las conexiones staple o rosca
- Proporcionadas con diferentes estilos de manillas (manilla de seguridad para ser usada con un candado)

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SCHLÄUCHE

Manuli Hydraulics und MIP bieten eine komplette Palette an Schläuchen, Einsätzen, Kupplungsadaptern und Kugelventilen, die speziell für die Geräteausstattung im Bergbau unf für lange Wandinstallationen (Kohle- und Weichgesteinbergbau), geschlossene und offene Bergwerke (Weich- und Hartgesteinsbergwerkemines), Hochdruck- und Hochleistungs-Druckleitungen, mittlere Druckleitungen, Minenrückflussleitungen.

Die speziell für den Bergbau entwickelte Schlauchproduktfamilien von Manuli sind ROCKMASTER®, SHIELDMASTER®MINE, ETERNITY/2™, DIAMONDSPIR™ und new GOLDENMINE.
Die wichtigsten Eigenschaften sind hohe Abrieb-, Ozon- und Alterungsbeständigkeit (gegen Temperaturen), antistatische Eigenschaften, verzögerte Flammenbildung und geringe Toxizität im Brandfall.

Insbesondere die Produktfamilie ROCKMASTER® wurde von Bergbau-Sicherheitsinstituten weltweit genehmigt, darunter:
- MSHA (USA)
- FRAS (Australia)
- Polish Safety B (Polen)
- MA (China)
- DGMS (Indien)

Technische Schlüsseleigenschaften der Produktfamilien ROCKMASTER® und SHIELDMASTER®MINE.

EIGENSCHAFTEN	SCHLAUCHFAMILIEN	
	ROCKMASTER®	SHIELDMASTER®MINE
Abriebbeständigkeit	Gewichtsverlust geringer als 0,05 g bei 25 N Gewicht und 2000 Zyklen (Methode ISO 6945)	Gewichtsverlust vernachlässigbar bei 2000 Zyklen (Methode ISO 6945) Beständigkeit bis zu 2 Milionen Abriebzyklen (1000 Mal besser als vorgegebene Anforderusngen)
Ozonbeständigkeit	Mehr als 300 Stunden dynamischer Ozontest, Methode ISO 10960	Höhere Leistungen dank extern angebrachtem Kunststoffmaterial
Elektrische antistatische Eigenschaften	Widerstand geringer als 1MOhm	Widerstand geringer als 1MOhm
Ermüdungsbeständigkeit	Hervorragend: Mehr als 1 Million Impuls-Testzyklen für Drahtspiralstrukturen. Hochleistungsschläuche mit Biegeimpulstests geprüft	Hervorragend: Mehr als 1 Million Impuls-Testzyklen für Drahtspiralstrukturen. Hochleistungsschläuche mit Biegeimpulstests geprüft

ANSCHLÜSSE

Manuli Hydraulikanschlüsse sind speziell für den Weichgesteinsbergbau geeignet und setzen sich wie folgt zusammen:
- Staple-Lock Verbindungen
- Super Staple-Lock Verbindungen
- FLUSHFIT (niedriger Druck)
- Der neue FLUSHFIT-Hochdrucktyp

Die Produkteigenschaften für die gesamte Palette sind im wesentlichen:
- Verzinkung, sichert eine Korrosionsbeständigkeit von über 500-Stunden bis roter Korrosion zu (Test nach ASTM B117 (ISO 9227)-Methode) – höher als internationale Anforderunge, z.B. MDG41 mit 200 Stunden bis roter Korrosion.
- **Hohe mechanische Widerstandsfähigkeit und Ermüdungsbeständigkeit**: Sicherheitsfaktor Berst-/Betriebsdruck über 4:1.

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- Hochrobuste Klammern mit kleinerem Anschlussprofil und hoher Ermüdungsbeständigkeit dank speziellem Design dadurch schneller und einfacher Anschluss in enger Umgebung.
- **Hervorragende hydraulische Dichtung, leckfreie Lösungen.**

ADAPTER

Manuli Hydraulics und MIP bieten spezifisch für den Weichgesteinsbergbau entwickelte und hergestellte Adapter.

Die Produktpalette der Adapter umfasst insbesondere: Staple-lock verbindungen, Super staple-lock verbindungen, Flushfit-Anschlüsse (Standard und Hochdruck).

KUPPLUNGS-Adapter sind ausgelegt, um einen einfachen Anschluss in engen Bereichen zu ermöglichen. Verfügbar mit Steckern und muffen sowie Gewindeoptionen.
Diese Adaptertypen haben einen hohen Korrosionsschutz, um den Anforderungen in schwierigen Arbeitsumgebungen gerecht zu werden. Aus diesem Grund sind auch Edelstahl-Kupplungsadapter verfügbar.
Die Standard-Kupplungsadapter entsprechen und übersteigen alle internationalen Standards, einschließlich DIN 20043, SAE J1467 und NCB 638.
Manuli Hydraulics SUPER-KUPPLUNGS-Adapter wurden speziell entwickelt, um hohe Fließwerte und hohe Systemdruckanforderungen zu erfüllen, die für eine deutliche Kosteneinsparung notwendig sind.

FLUSH-FIT, Niedrigdrucktyp und neuer Hochleistungs-Flushfit für große Hochdruck-Bohrleitungen mit hoher mechanischer Robustheit, glattem Profil und einfacher Handhabung. Der Hochleistungstyp wurde speziell für die Verwendung mit DIAMOND-SPIRtm-Schläuchen für den Bergbaueinsatz auf höchster Ebene entwickelt.

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Dank der Chromium-6-freien Verzinkung bieten die Flushfit-Anschlüsse und Kupplungen von Manuli eine hohe Leistungsfähigkeit, die weit über den Anforderungen der Vorschriften liegt. Darüber hinaus sind die verwendeten Materialien umweltfreundlich, in Übereinstimmung mit den neuen Europäischen Vorschriften (ELV 2000/53/EC, RoHS 2002/95/EC).

KUGELVENITLE

Kugelventile von Manuli Hydraulics und MIP sind speziell für den Weichgesteinsbergbau entwickelt und eignen sich für eine große Anzahl verschiedener Anwendungsbedürfnisse: Von der Isolierung von Rohrleitungen bis hin zur Fließkontrolle.

Kugelventile sind in folgenden Ausführungen verfügbar:
- Kupplungs- und Superkupplungsversionen (von DN6 (1/4") bis DN63 (2 ½")
- Ebenfalls verfügbar einstellbare Kupplungsmuffe (sowie feste Kupplung)
- 2-Wege; 3-Wege und 4-Wege-Designs unter Verwendung von Kupplungs- oder Gewindeanschlüssen
- Mit unterschiedlichen Griffen (der verschließbare Griff kann mit einem Vorhängeschloss gesichert werden)

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MINING

INTRODUCTION

IT

HOSES

Manuli Hydraulics e MIP offrono un pacchetto completo di tubi, raccordi, adattatori staple-lock, adattatori e valvole a sfera progettati appositamente per il settore miniera e le installazione long walls (miniere di carbone e roccia friabile), miniere sotterranee e a cielo aperto (miniere di roccia friabile e roccia dura), applicazioni miniera con linee idrauliche ad alta pressione e servizio di lunga durata, linee di media pressione e line di ritorno.

Le famiglie di tubi Manuli appositamente ideate per le applicazioni miniera sono ROCKMASTER®, SHIELDMASTER®MINE, ETERNITY/2™, DIAMONDSPIR™ e il nuovo GOLDENMINE.
Ognuna offre alta resistenza all'abrasione, all'ozono e alle temperature, proprietà antistatiche, caratteristiche ritardanti la propagazione delle fiamme, e una bassa tossicità di fumo in caso di incendio.

In particolare la famiglia ROCKMASTER® è stata approvata dagli istitituti di sicurezza mineraria di tutto il mondo, come:
- MSHA (USA)
- FRAS (Australia)
- Polish Safety B (Polonia)
- MA (Cina)
- DGMS (India)

Caratteristiche tecniche di ROCKMASTER® e SHIELDMASTER®MINE.

FEATURES	HOSE FAMILIES	
	ROCKMASTER®	SHIELDMASTER®MINE
Resistenza all'abrasione	perdita perso inferiore ai 0,05 g con 25N peso e 2000 cicli (metodo ISO 6945)	perdita perso irrilevante con 2000 cicli (metodo ISO 6945). Resistenza fino a 2 milioni di cicli abrasivi (1000 volte meglio dei requisiti di norma).
resistena all'ozono	più di 300 ore in ozono dinamico secondo metodo ISO 10960	performanca superiore grazie a materiali plastici applicati esternamente
proprietà antistatiche	resistenza inferiore a 1MOhm	resistenza inferiore a 1MOhm
resistenza alla fatica	Eccellente: più di un milione di impulsi per le strutture spiralate. I tubi per le applicazioni pesanti sono testati con test impulsi rotanti	Eccellente: più di un milione di impulsi per le strutture spiralate. I tubi per le applicazioni pesanti sono testati con test impulsi rotanti

FITTINGS

I raccordi Manuli Hydraulics sono specificatamente indicati per miniere di roccia friabile e consistono in:
- STAPLE-LOCK
- SUPER STAPLE-LOCK
- FLUSHFIT (bassa pressione)
- Nuovo FLUSHFIT alta pressione.

Le carattersitche di prodotto per l'intera gamma sono:
- **Zincatura** che assicura una resistenza alla corrosione maggiore di 500 ore prima della corrosione rossa (test secondo metodo ASTM B117 (ISO 9227)) – eccedente le norme internazionali, es. MSG41 con 200 ore prima della corrosione rossa).

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IT

- **Elevate resistenza meccanica e resistenza alla fatica**: fattore di sicurezza di scoppio / pressione di esercizio più alte di 4:1.
- **Staple ad elevata resistenza** con ridotte improntature e alta resistenza alla fatica, grazie al design staple.
- **Eccellente tenuta idraulica (soluzione "leak free")**.

ADAPTORS

Manuli Hydraulics e MIP offrono specifici adattatori per la miniera, ideate e prodotti per le applicazioni miniera a roccia morbida.

In particolare la gamma adattatori consiste in: staple-lock, Super Staple-Lock, connettori Flushfit.

Gli adattatori STAPLE-LOCK sono progettate e realizzate per una facile connesione in spazi ristretti. Disponibili con terminali staple maschio e femmina così come con opzioni "filettate"
Questo tipo di adattatori necessita di un'elevata superficie di protezione alla corrosione al fine di rispondere ai requisiti dettati da ambienti ostili. Per questo motivo, gli ad attori staple sono disponibili anche in acciaio inox.
Gli adattatori standard STAPLE-LOCK rispettano ed eccedono gli standard internazionali, incluse le norme DIN 20043, SAE J1467 e NCB 638.

Terminazioni FLUSHFIT standard e le nuove ad alta performance, adatte per linee ad alta pressione "large bore", offrono raccordi compatti per la miniera, con elevata resistenza meccanica, profilo "snag-free" e facile utilizzo. Sono concepite per essere usate con la linea DIAMONDSPIR per le applicazione miniera di alto livello.

Grazie alla zincatura esente da cromo esavalente, I flushfit Manuli e la gamma staple garantiscono performance, molto superiori a quelle previste dalle norme. Inoltre i materiali usati rispettano l'ambiente, in linea con le nuove direttive europee (ELV 2000/53/EC, RoHS 2002/95/EC).

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VALVOLE A SFERA

Le valvole Manuli Hydraulics e MIP sono specificatamente progettate per i processi miniera di roccia friabile e sono progettate per rispondere a una varietà di esigenze: dall'isolamento delle sezioni pipelines, al controllo del flusso.

Le valvole a sfera sono disponibili in:
- Versione staple-lock e Super Staple-lock - dal DN6 (1/4") al DN63 (2 ½")
- Disponibile anche femmina girevole (oltre che alla femmina fissa)
- Design a 2-vie; 3-vie e 4-vie , utilizzando connessioni staple o (filettate)

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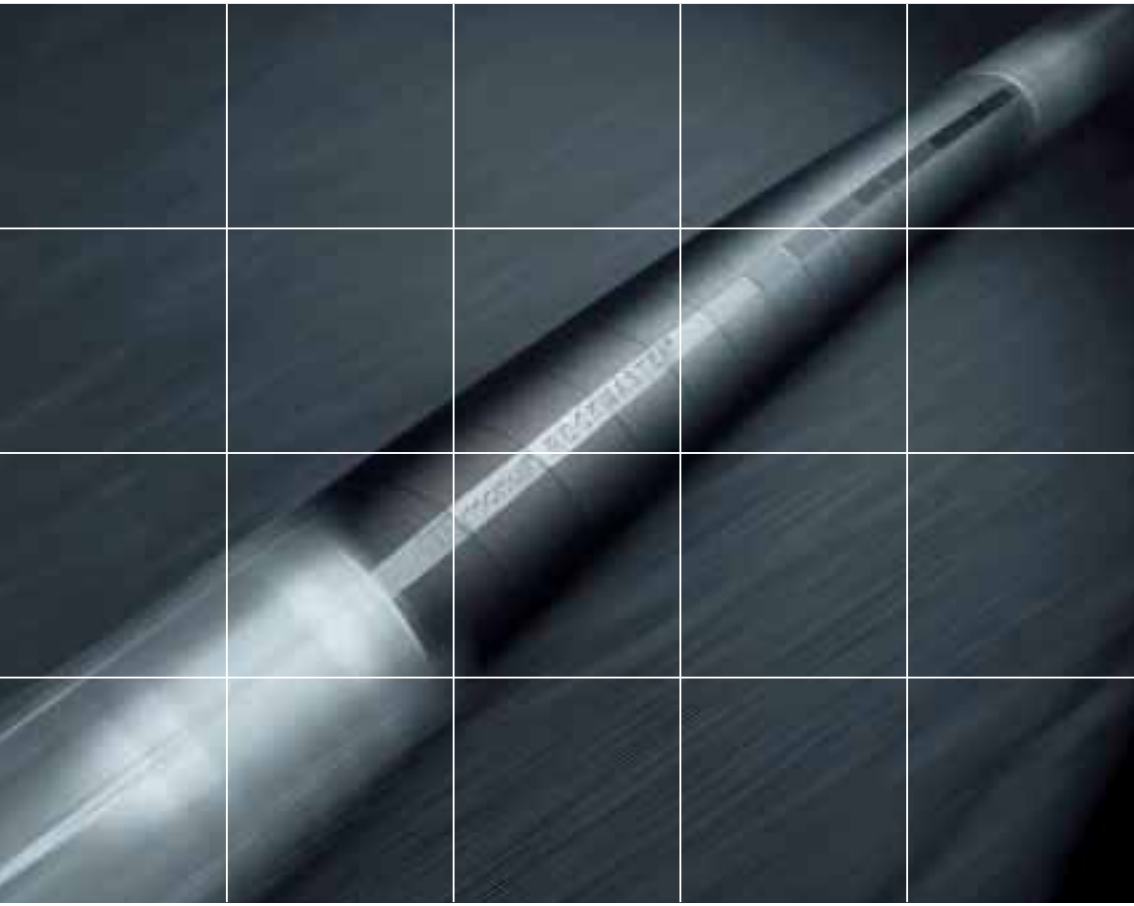
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MINING

Hoses



Fluid connectors, solid solutions
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manuli® HYDRAULICS
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INDEX

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ROCKMASTER®/1SN

ABRASION, WEATHER & HEAT RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01007006*	6	-04	1/4"	11,0	0,43	13,0	0,51	225	3260	1000	14500	100	3,94	215	0,14	MF+M03400-04
H01007008*	8	-05	5/16"	12,6	0,50	14,6	0,57	215	3110	950	13770	114	4,49	260	0,17	MF+M03400-05
H01007010*	10	-06	3/8"	15,0	0,59	17,0	0,67	180	2610	800	11600	127	5,00	320	0,22	MF+M03400-06
H01007012*	12	-08	1/2"	18,1	0,71	20,1	0,79	160	2320	680	9860	178	7,01	400	0,27	MF+M03400-08
H01007016*	16	-10	5/8"	21,3	0,84	23,3	0,92	130	1880	600	8700	200	7,87	480	0,32	MF+M03400-10
H01007019*	19	-12	3/4"	25,3	1,00	27,3	1,07	105	1520	500	7250	240	9,45	600	0,40	MF+M03400-12
H01007025*	25	-16	1"	33,1	1,30	35,1	1,38	90	1300	360	5220	300	11,81	910	0,61	MF+M03400-16
H01007032*	31	-20	1.1/4"	40,6	1,60	43,3	1,70	65	940	260	3770	419	16,50	1240	0,83	MF+M03400-20
H01007040*	38	-24	1.1/2"	47,0	1,85	49,7	1,96	50	720	260	3770	500	19,69	1450	0,97	MF+M03400-24
H01007051*	51	-32	2"	60,4	2,38	63,1	2,48	40	580	250	3620	630	24,80	2050	1,38	MF+ M03400-32
H01007060*	60	-38	2.3/8"	68,8	2,71	71,5	2,81	50	720	200	2900	650	25,59	2190	1,47	MF+M03400-38

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Superior abrasion resistance ■ High ozone and weather resistance ■ Flame resistance to a wide range of spec. ■ Antistatic and antitoxic cover

Superior resistencia a la abrasión ■ Alta resistencia al ozono y a la intemperie ■ Resistencia a la llama en una amplia gama de especificaciones ■ Cubierta antiestática y atóxica

Überragende Abriebbeständigkeit ■ Hohe Ozon und- Wetterbeständigkeit ■ Flammbeständig nach vielen Normen ■ Antistatisch und antitoxische Decke

Estrema resistenza all'abrasione ■ Elevata resistenza all'ozono e agli agenti atmosferici ■ Resistenza alla propagazione di fiamma in accordo a molteplici norme ■ Copertura antistatica e atossica

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ROCKMASTER®/1SN

TECHNICAL INFO

GB

MAIN APPLICATIONS
Low-medium pressure lines, return lines, in heavy duty environmental conditions, specific installations with severe abrasion conditions, marine applications, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: One high tensile steel braid
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: Exceed EN 853 1SN - SAE 100 R1AT - ISO 1436 1SN/R1AT
TYPE APPROVALS: BV, DNV, DNV MED (DN 5÷16), FRAS, GOST-R, LOBA, MSHA

ES

PRINCIPALES APLICACIONES
Líneas de baja y media presión, líneas de retorno, en condiciones ambientales de trabajo pesado, instalaciones especificas con condiciones de abrasión severa, aplicaciones marinas, en minas subterráneas y minas a cielo abierto
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceite basado en éster sintético, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético resistente al aceite
REFUERZO: Un refuerzo trenzado de acero de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Excede EN 853 1SN - SAE 100 R1AT - ISO 1436 1SN/R1AT
APROBACIONES: BV, DNV, DNV MED (DN 5÷16), FRAS, GOST-R, LOBA, MSHA

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D

HAUPT-ANWENDUNGSGEBIET
Niedriger und mittlerer Druckbereich, Rücklaufleitung, Installationen mit hohem Abrieb, Schiffbau, Bergbau und Tagebau
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Rapsöl, Glykol, Öl auf Polyglykolbasis, Synthetik-Esterbasis, Wasser/Ölemulsion, Wasser

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Ein hochzugfestes Stahldrahtgeflecht
DECKE: Synthetisches Gummi mit hoher Ozon-, Wetter- und Temperaturbeständigkeit
ANGEWANDTE NORM: Übertrifft EN 853 1SN - SAE 100 R1AT - ISO 1436 1SN/R1AT
ZULASSUNGEN: BV, DNV, DNV MED (DN 5÷16), FRAS, GOST-R, LOBA, MSHA

IT

PRINCIPALI APPLICAZIONI
Linee a medio-bassa pressione, linee di ritorno, applicazioni in severe condizioni ambientali e di abrasione, applicazioni marine, miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Una treccia di acciaio ad alto carico
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore
SPECIFICHE: Eccede EN 853 1SN - SAE 100 R1AT - ISO 1436 1SN/R1AT
OMOLOGAZIONI: BV, DNV, DNV MED (DN 5÷16), FRAS, GOST-R, LOBA, MSHA

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ROCKMASTER®/2SN

ABRASION, WEATHER & HEAT RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01038006*	6	-04	1/4"	12,7	0,50	14,7	0,58	400	5800	1750	25380	50	1,97	365	0,25	MF+M03400-04
H01038008*	8	-05	5/16"	14,3	0,56	16,3	0,64	350	5070	1480	21460	60	2,36	405	0,27	MF+M03400-05
H01038010*	10	-06	3/8"	16,7	0,66	18,7	0,74	350	5070	1400	20300	70	2,76	530	0,36	MF+M03400-06
H01038012*	12	-08	1/2"	19,8	0,78	21,8	0,86	350	5070	1400	20300	89	3,50	650	0,44	MF+M03400-08
H01038016*	16	-10	5/8"	23,0	0,91	25,0	0,98	250	3620	1020	14790	100	3,94	720	0,48	MF+M03400-10
H01038019*	19	-12	3/4"	27,0	1,06	29,0	1,14	215	3110	900	13050	130	5,12	930	0,62	MF+M03400-12
H01038025*	25	-16	1"	34,8	1,37	36,8	1,45	175	2530	670	9710	160	6,30	1290	0,87	MF+M03400-16
H01038032*	31	-20	1.1/4"	44,3	1,74	47,0	1,85	140	2030	600	8700	419	16,50	1930	1,30	MF+M03400-20
H01038040*	38	-24	1.1/2"	50,7	2,00	53,4	2,10	100	1450	500	7250	500	19,69	2230	1,50	MF+M03400-24
H01038051*	51	-32	2"	63,5	2,50	66,2	2,61	90	1300	420	6090	630	24,80	2880	1,94	MF+M03400-32
H01038060*	60	-38	2.3/8"	68,8	2,71	71,5	2,81	90	1300	360	5220	650	25,59	2670	1,79	MF+M03400-38

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Superior abrasion resistance ■ High ozone and weather resistance ■ Flame resistance to a wide range of spec. ■ Antistatic and antitoxic cover ■ Over standard pressure resistance

Superior resistencia a la abrasión ■ Alta resistencia al ozono y a la intemperie ■ Resistencia a la llama en una amplia gama de especificaciones ■ Cubierta antiestática y atóxica ■ Resistencia a la presión superior a lo indicado en la Norma

Überragende Abriebbeständigkeit ■ Hohe Ozon- und Wetterbeständigkeit ■ Flammbeständig nach vielen Normen ■ Antistatische und antitoxische Decke ■ Druckbeständigkeit über EN-Norm

Estrema resistenza all'abrasione ■ Elevata resistenza all'ozono e agli agenti atmosferici ■ Resistenza alla propagazione di fiamma in accordo a molteplici norme ■ Copertura antistastica e atossica ■ Resistenza a pressioni elevate

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ROCKMASTER®/2SN

TECHNICAL INFO

GB

MAIN APPLICATIONS
Medium-high pressure lines in heavy duty environmental conditions, specific installations with severe abrasion conditions, marine applications, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two high tensile steel braids
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: Exceed EN 853 2SN - SAE 100 R2AT - ISO 1436 2SN/R2AT
TYPE APPROVALS: BV, DNV, DNV MED (DN 5÷16), FRAS, GOST-R, LOBA, MSHA, RINA (DN 38÷51), Ⓑ (DN 6÷60), DGMS

ES

PRINCIPALES APLICACIONES
Líneas de media y alta presión en condiciones ambientales de trabajo pesado, instalaciones especificas con condiciones de abrasión severa, aplicaciones marinas, minas subterráneas y minas a cielo abierto
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceite basado en éster sintético, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético resistente al aceite
REFUERZO: Dos trenzas de acero de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Excede EN 853 2SN - SAE 100 R2AT - ISO 1436 2SN/R2AT
APROBACIONES: BV, DNV, DNV MED (DN 5÷16), FRAS, GOST-R, LOBA, MSHA, RINA (DN 38÷51), Ⓑ (DN 6÷60), DGMS

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Mittlerer Hochdruckbereich mit eingeschränkten Installationsmöglichkeiten bei schwersten Einsatzbedingungen, Installationen mit hohem Abrieb, Schiffbau, Bergbau und Tagebau
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Rapsöl, Glykol, Öl auf Polyglykolbasis, Synthetik-Esterbasis, Wasser/Ölemulsion, Wasser

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Zwei hochzugfeste Stahldrahtgeflechte
DECKE: Synthetisches Gummi mit hoher Ozon-, Wetter- und Temperaturbeständigkeit
ANGEWANDTE NORM: Übertrifft EN 853 2SN - SAE 100 R2AT - ISO 1436 2SN/R2AT
ZULASSUNGEN: BV, DNV, DNV MED (DN 5÷16), FRAS, GOST-R, LOBA, MSHA, RINA (DN 38÷51), Ⓑ (DN 6÷60), DGMS

IT

PRINCIPALI APPLICAZIONI
Linee a medio-alta pressione in severe condizioni ambientali, applicazioni specifiche in severe condizioni di abrasione, applicazioni marine, miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Due trecce di acciaio ad alto carico
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore
SPECIFICHE: Eccede EN 853 2SN -SAE 100 R2AT - ISO 1436 2SN/R2AT
OMOLOGAZIONI: BV, DNV, DNV MED (DN 5÷16), FRAS, GOST-R, LOBA, MSHA, RINA (DN 38÷51), Ⓑ (DN 6÷60), DGMS

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ROCKMASTER®/2ST

ABRASION, WEATHER & HEAT RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01035005*	5	-03	3/16"	11,3	0,44	15,6	0,61	415	6010	2000	29000	89	3,50	385	0,26	MF+M00910-03
H01035006*	6	-04	1/4"	12,7	0,50	17,2	0,68	400	5800	1750	25380	100	3,94	450	0,30	MF+M00910-04
H01035008*	8	-05	5/16"	14,3	0,56	18,9	0,74	350	5070	1480	21460	114	4,49	500	0,34	MF+M00910-05
H01035010*	10	-06	3/8"	16,7	0,66	21,3	0,84	350	5070	1400	20300	127	5,00	640	0,43	MF+M00910-06
H01035012*	12	-08	1/2"	19,8	0,78	24,5	0,96	350	5070	1400	20300	178	7,01	790	0,53	MF+M00910-08
H01035016*	16	-10	5/8"	23,0	0,91	27,7	1,09	250	3620	1020	14790	200	7,87	870	0,58	MF+M00910-10
H01035019*	19	-12	3/4"	27,0	1,06	31,6	1,24	215	3110	900	13050	240	9,45	1100	0,74	MF+M00920-12
H01035025*	25	-16	1"	34,8	1,37	39,5	1,56	175	2530	670	9710	300	11,81	1510	1,01	MF+M00920-16
H01035032*	31	-20	1.1/4"	44,3	1,74	50,6	1,99	140	2030	600	8700	419	16,50	2310	1,55	MF+M00920-20
H01035040*	38	-24	1.1/2"	50,7	2,00	57,0	2,24	100	1450	500	7250	500	19,69	2650	1,78	MF+M00910-24
H01035051*	51	-32	2"	63,5	2,50	69,8	2,75	90	1300	420	6090	630	24,80	3410	2,29	MF+M00910-32

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Superior abrasion resistance ■ High ozone and weather resistance ■ Flame resistance to a wide range of spec. ■ Antistatic and antitoxic cover ■ Over standard pressure resistance

Superior resistencia a la abrasión ■ Alta resistencia al ozono y a la intemperie ■ Resistencia a la llama en una amplia gama de especificaciones ■ Cubierta antiestática y atóxica ■ Resistencia a la presión superior a lo indicado en la Norma

Überragende Abriebbeständigkeit ■ Hohe Ozon- und Wetterbeständigkeit ■ Flammbeständig nach vielen Normen ■ Antistatische und antitoxische Decke ■ Druckbeständigkeit über EN-Norm

Estrema resistenza all'abrasione ■ Elevata resistenza all'ozono e agli agenti atmosferici ■ Resistenza alla propagazione di fiamma in accordo a molteplici norme ■ Copertura antistastica e atossica ■ Resistenza a pressioni superiori elevate

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ROCKMASTER®/2ST

TECHNICAL INFO

GB

MAIN APPLICATIONS
Medium-high pressure lines in heavy duty environmental conditions, specific installations with severe abrasion conditions, marine applications, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two high tensile steel braids
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: Exceed EN 853 2ST - SAE 100 R2A - ISO 1436 2ST/R2A
TYPE APPROVALS: BV, GOST-R, LOBA, LR, (B) (DN 6÷51), MSHA, FRAS

ES

PRINCIPALES APLICACIONES
Líneas de media y alta presión en condiciones ambientales de trabajo pesado, instalaciones especificas con condiciones de abrasión severa, aplicaciones marinas, minas subterráneas y minas a cielo abierto
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceite basado en éster sintético, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético resistente al aceite
REFUERZO: Dos trenzas de acero de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Excede EN 853 2ST - SAE 100 R2A - ISO 1436 2ST/R2A
APROBACIONES: BV, FRAS, GOST-R, LOBA, LR, (B) (DN 6÷51), MSHA, FRAS

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Mittlerer Hochdruckbereich, Rücklaufleitung, Installationen mit hohem Abrieb, Schiffbau, Bergbau und Tagebau
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Rapsöl, Glykol, Öl auf Polyglykolbasis, Synthetik-Esterbasis, Wasser/Ölemulsion, Wasser

NIPPEL: MF2000® - MULTIFIT
SEELE: Zwei hochzugfeste Stahldrahtgeflechte
DRUCKTRÄGER: Ölbeständiges synthetisches Gummi
DECKE: Synthetisches Gummi mit hoher Ozon-, Wetter- und Temperaturbeständigkeit
ANGEWANDTE NORM: Übertrifft EN 853 2ST - SAE 100 R2A - ISO 1436 2ST/R2A
ZULASSUNGEN: BV, GOST-R, LOBA, LR, (B) (DN 6÷51), MSHA, FRAS

IT

PRINCIPALI APPLICAZIONI
Linee a medio-alta pressione in severe condizioni ambientali, applicazioni specifiche in severe condizioni di abrasione, applicazioni marine, miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli
RINFORZO: Due trecce di acciaio ad alto carico
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore
SPECIFICHE: Eccede EN 853 2ST - SAE 100 R2A - ISO 1436 2ST/R2A
OMOLOGAZIONI: BV, GOST-R, LOBA, LR, (B) (DN 6÷51), MSHA, FRAS

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ROCKMASTER®/2PLUS

ABRASION, WEATHER & HEAT RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01101006*	6	-04	1/4"	11,3	0,44	13,1	0,52	450	6520	1800	26100	45	1,77	275	0,18	MF+M03400-04
H01101010*	10	-06	3/8"	16,7	0,66	18,5	0,73	400	5800	1600	23200	127	5,00	520	0,35	MF+M00910-06
H01101012*	12	-08	1/2"	20,1	0,79	22,1	0,87	362	5250	1450	21030	150	5,91	700	0,47	MF+M00910-08
H01101016*	16	-10	5/8"	23,2	0,91	25,2	0,99	340	4930	1360	19720	200	7,87	860	0,58	MF+M00910-10
H01101019*	19	-12	3/4"	27,1	1,07	29,3	1,15	310	4490	1240	17980	230	9,06	1060	0,71	MF+M00920-12
H01101025*	25	-16	1"	35,1	1,38	37,8	1,49	240	3480	960	13920	300	11,81	1570	1,06	MF+M00920-16
H01101032*	31	-20	1.1/4"	44,5	1,75	47,2	1,86	175	2530	700	10150	380	14,96	2120	1,42	MF+M00920-20
H01101038*	38	-24	1.1/2"	51,0	2,01	53,7	2,11	146	2110	584	8460	450	17,72	2460	1,65	MF+M00910-24
H01101051*	51	-32	2"	62,8	2,47	65,5	2,58	130	1880	530	7680	600	23,62	3090	2,08	MF+M00910-32
H01101076*	76	-48	3"	87,8	3,46	91,4	3,60	70	1010	280	4060	500	19,69	4030	2,71	MF+M03400-48 skive solution

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Superior abrasion resistance ■ High ozone and weather resistance ■ Flame resistance to a wide range of spec. ■ Antistatic and antitoxic cover ■ Superior pressure rating ■ Skive fittings solution

Superior resistencia a la abrasión ■ Alta resistencia al ozono y a la intemperie ■ Resistencia a la llama en una amplia gama de especificaciones ■ Cubierta antiestática y atóxica ■ Resistencia a la presión superior a lo indicado en la Norma ■ Conexiones para mangueras que requieren pelarse

Überragende Abrieb-, und Temperaturbeständigkeit Hohe Ozon- und Wetterbeständigkeit ■ Flammbeständig nach vielen Normen ■ Antistatische und antitoxische Decke ■ Höherer Druckleistungsbereich ■ Einbindungslösung mit Schälfassung

Estrema resistenza all'abrasione ■ Elevata resistenza all'ozono e agli agenti atmosferici ■ Resistenza alla propagazione di fiamma in accordo a molteplici norme ■ Copertura antistatica e atossica ■ Ottime pressioni d'esercizio ■ Soluzione di raccordi con asportazione copertura

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ROCKMASTER®/2PLUS

TECHNICAL INFO

GB

MAIN APPLICATIONS
High pressure lines with installation constraints in heavy duty environmental conditions, specific installations with severe abrasion conditions, marine applications, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two high tensile steel braids
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: MANULI® Design: Exceed ISO 1436-2SN, EN 853-2SN, SAE J517 type 100 R2 AT. Performance BCS 174, ISO 6805 type 4
TYPE APPROVALS: BV, DNV, GOST-R, LR, MSHA, FRAS, MA, LOBA

ES

PRINCIPALES APLICACIONES
Líneas de alta presión en condiciones ambientales de trabajo pesado, instalaciones especificas con condiciones de abrasión severa, aplicaciones marinas, minas subterráneas y minas a cielo abierto
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceite basado en éster sintético, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético resistente al aceite
REFUERZO: Dos refuerzos trenzados de acero de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Diseño MANULI®: Excede ISO 1436-2SN, EN 853-2SN, SAE J517 tipo 100 R2 AT. Performance BCS 174, ISO 6805 type 4
APROBACIONES: BV, DNV, GOST-R, LR, MSHA, FRAS, MA, LOBA

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Hochdruckbereich mit eingeschränkten Installationsmöglichkeiten bei schwersten Einsatzbedingungen, Installationen mit hohem Abrieb, Schiffbau, Bergbau und Tagebau
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Rapsöl, Glykol, Öl auf Polyglykolbasis, Synthetik-Esterbasis, Wasser/Ölemulsion, Wasser

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Zwei hochzugfeste Stahldrahtgeflechte
DECKE: Synthetisches Gummi mit hoher Ozon-, Wetter- und Temperaturbeständigkeit
ANGEWANDTE NORM: MANULI® Design: Übertrifft ISO 1436-2SN, EN 853-2SN, SAE J517 Typ 100 R2 AT. Performance BCS 174, ISO 6805 Typ 4
ZULASSUNGEN: BV, DNV, GOST-R, LR, MSHA, FRAS, MA, LOBA

IT

PRINCIPALI APPLICAZIONI
Linee ad alta pressione con difficoltà di installazione in severe condizioni ambientali, applicazioni specifiche in severe condizioni di abrasione, applicazioni marine, miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Due trecce di acciaio ad alto carico
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore
SPECIFICHE: MANULI® Design: Eccede ISO 1436-2SN, EN 853-2SN, SAE J517 tipo 100 R2 AT. Performance BCS 174, ISO 6805 tipo 4
OMOLOGAZIONI: BV, DNV, GOST-R, LR, MSHA, FRAS, MA, LOBA

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ROCKMASTER®/1SC

ABRASION, WEATHER & HEAT RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01108006*	6	-04	1/4"	10,2	0,40	12,0	0,47	260	3770	1050	15220	50	1,97	180	0,12	MF+M00120-04
H01108008*	8	-05	5/16"	11,5	0,45	13,6	0,54	250	3620	1000	14500	55	2,17	210	0,14	MF+M00120-05
H01108010*	10	-06	3/8"	13,6	0,54	15,5	0,61	225	3260	900	13050	60	2,36	255	0,17	MF+M00120-06
H01108012*	12	-08	1/2"	17,3	0,68	19,1	0,75	190	2750	760	11020	70	2,76	355	0,24	MF+M00820-08
H01108016*	16	-10	5/8"	20,6	0,81	22,4	0,88	150	2170	600	8700	90	3,54	430	0,29	MF+M00820-10
H01108019*	19	-12	3/4"	23,9	0,94	25,9	1,02	150	2170	600	8700	100	3,94	520	0,35	MF+M00820-12
H01108025*	25	-16	1"	31,3	1,23	33,1	1,30	110	1590	440	6380	160	6,30	730	0,49	MF+M00820-16
H01108031*	31	-20	1.1/4"	38,4	1,51	40,9	1,61	75	1080	300	4350	210	8,27	1040	0,70	MF+M00820-20
H01108038*	38	-24	1.1/2"	45,0	1,77	47,5	1,87	50	720	200	2900	300	11,81	1170	0,79	MF+M00820-24
H01108051*	51	-32	2"	58,0	2,28	60,5	2,38	50	720	200	2900	400	15,75	1560	1,05	MF+M00820-32

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

New compact one wire braid hose line ■ High temperature resistance for the most severe service and OEM applications ■ Working pressure exceeds 1SC standards ■ Superior protection with ROCKMASTER® cover compound ■ High ozone and weather resistance ■ Flame resistance to a wide range of spec. ■ Antistatic and antitoxic cover ■ Vacuum resistance with SAE 100 R4 performance approved on sizes up to DN 31

Nueva manguera compacta de una trenza de alambre ■ Resistencia a altas temperaturas, trabajo pesado y aplicaciones requeridas por fabricantes de equipo original (OEM) ■ La presión de trabajo excede los estándares 1SC ■ El compuesto de la cubierta de la ROCKMASTER® ofrece protección superior ■ Alta resistencia al ozono y a la intemperie ■ Resistencia a la llama en una amplia gama de especificaciones ■ Cubierta antiestática y atóxica ■ Resistencia al vacio (SAE 100 R4) aprobada para los tamaños hasta DN 31

Neuer, kompakter 1-Draht Schlauch ■ Hohe Temperaturbeständigkeit erfüllt auch schwere Einsatzbedingungen und OEM Anforderungen ■ Betriebsdruck übertrifft EN 857 1SC Standards um höheren Anforderungen gerecht zu werden ■ Bestmöglicher Schutz durch Rockmaster® Außengummi ■ Hohe Ozon- und Wetterbeständigkeit ■ Flammbeständig nach vielen Normen ■ Antistatische und antitoxische Decke ■ Unterdruckbeständigkeit gemäß SAE 100 R4 geprüft und und freigegeben für Nennweiten bis DN31

Gamma di tubi compatti a una treccia ■ Resistenza elevata alle alte temperature per le applicazioni OEM più severe ■ Pressione d'esercizio superiore alla norma EN 857 1SC ■ Ottima protezione grazie alla copertura Rockmaster® ■ Estrema resistenza all'abrasione ■ Elevata resistenza all'ozono e agli agenti atmosferici ■ Resistenza alla propagazione di fiamma in accordo a molteplici norme ■ Copertura antistastica e atossica

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ROCKMASTER®/1SC

TECHNICAL INFO

GB

MAIN APPLICATIONS
Low-medium pressure lines with installation constraints in heavy duty environmental conditions, specific installations with severe abrasion conditions, marine applications, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +250°F -40°C / +121°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: One high tensile steel braid
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: Exceed EN 857 1SC - ISO 11237 1SC
TYPE APPROVALS: LR, GOST-R, MSHA, FRAS, LOBA

ES

PRINCIPALES APLICACIONES
Líneas de baja y media presión, líneas de retorno, en condiciones ambientales de trabajo pesado, instalaciones especificas con condiciones de abrasión severa, aplicaciones marinas, en minas subterráneas y minas a cielo abierto
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +250°F -40°C / +121°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceite basado en éster sintético, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético resistente al aceite
REFUERZO: Un refuerzo trenzado de acero de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Exceed EN 857 1SC - ISO 11237 1SC
APROBACIONES: LR, GOST-R, MSHA, FRAS, LOBA

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Niedriger und mittlerer Druckbereich mit eingeschränkten Installationsmöglichkeiten bei schwersten Einsatzbedingungen, Installationen mit hohem Abrieb, Schiffbau, Bergbau und Tagebau
DAUERBETRIEB
-40°F / +250°F -40°C / +121°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Rapsöl, Glykol, Öl auf Polyglykolbasis, Synthetik-Esterbasis, Wasser/Ölemulsion, Wasser

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Ein hochzugfestes Stahldrahtgeflecht
DECKE: Synthetisches Gummi mit hoher Ozon-, Wetter- und Temperaturbeständigkeit
ANGEWANDTE NORM: Übertrifft EN 857 1SC - ISO 11237-1 1SC
ZULASSUNGEN: LR, GOST-R, MSHA, FRAS, LOBA

IT

PRINCIPALI APPLICAZIONI
Linee a medio-bassa pressione in severe condizioni ambientali, applicazioni specifiche in severe condizioni di abrasione, applicazioni marine, miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +250°F -40°C / +121°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Una treccia di acciaio ad alto carico
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore
SPECIFICHE: Eccede EN 857 1SC - ISO 11237-1 1SC
OMOLOGAZIONI: LR, GOST-R, MSHA, FRAS, LOBA

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ROCKMASTER®/2SC

ABRASION, WEATHER & HEAT RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01030005*	5	-03	3/16"	9,7	0,38	11,5	0,45	420	6090	2000	29000	40	1,57	220	0,15	MF+M03400-03
H01030006*	6	-04	1/4"	11,3	0,44	13,1	0,52	400	5800	1850	26830	45	1,77	275	0,18	MF+M03400-04
H01030008*	8	-05	5/16"	12,9	0,51	14,7	0,58	350	5070	1700	24650	55	2,17	325	0,22	MF+M03400-05
H01030010*	10	-06	3/8"	15,0	0,59	16,8	0,66	330	4780	1500	21750	65	2,56	390	0,26	MF+M03400-06
H01030012*	12	-08	1/2"	18,5	0,73	20,3	0,80	275	3980	1220	17690	80	3,15	500	0,34	MF+M03400-08
H01030016*	16	-10	5/8"	21,8	0,86	23,6	0,93	250	3620	1050	15220	90	3,54	620	0,42	MF+M03400-10
H01030019*	19	-12	3/4"	25,6	1,01	27,6	1,09	245	3550	980	14210	120	4,72	790	0,53	MF+M03400-12
H01030025*	25	-16	1"	33,0	1,30	35,2	1,39	210	3040	840	12180	150	5,91	1180	0,79	MF +M03400-16
H01030031*	31	-20	1.1/4"	41,1	1,62	43,6	1,72	140	2030	560	8120	250	9,84	1550	1,04	MF+M03400-20
H01030038*	38	-24	1.1/2"	47,7	1,88	50,7	2,00	100	1450	400	5800	300	11,81	1830	1,23	MF+M03400-24
H01030051*	51	-32	2"	60,4	2,38	63,4	2,50	90	1300	360	5220	400	15,75	2430	1,63	MF+M03400-32
H01030063*	63	-40	2.1/2"	73,0	2,87	76,0	2,99	70	1010	300	4350	760	29,92	2900	1,95	MFvM03400-40
H01030076*	76	-48	3"	87,8	3,46	90,5	3,56	45	650	180	2610	900	35,43	3120	2,10	MF+M03400-48

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Superior abrasion resistance ■ High ozone and weather resistance ■ Flame resistance to a wide range of spec. ■ Antistatic and antitoxic cover ■ Working pressure improvement ■ Range extension to DN 76 ■ Vacuum resistance with SAE 100 R4 performance approved on sizes up to DN 76

Superior resistencia a la abrasión ■ Alta resistencia al ozono y a la intemperie ■ Resistencia a la llama en una amplia gama de especificaciones ■ Cubierta antiestática y atóxica ■ Resistencia de presión superior a lo indicado a la norma ■ Tamaños hasta DN 76 ■ Resistencia al vacio (SAE 100 R4) aprobada para los tamaños hasta DN 76

Überragende Abriebbeständigkeit. Hohe Ozon- und Wetterbeständigkeit ■ Flammbeständig nach vielen Normen ■ Antistatische und antitoxische Decke ■ Verbesserung des Betriebsdruckes ■ Bis zur Nennweite DN 76 ■ Vakuumbestandig (SAE 100 R4) bis DN 76

Estrema resistenza all'abrasione ■ Elevata resistenza all'ozono e agli agenti atmosferici ■ Resistenza alla propagazione di fiamma in accordo a molteplici norme ■ Copertura antistastica e atossica ■ Pressioni d'esercizio migliorate ■ Estensione di gamma fino a DN 76 ■ Resistenza al vuoto (SAE 100 R4) fino a DN 76

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GB

MAIN APPLICATIONS
Medium-high pressure lines with installation constraints in heavy duty environmental conditions, specific installations with severe abrasion conditions, marine applications, underground and open pit mining, return and suction lines
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable and rape seed oils, glycol and polyglycol based oils, synthetic ester based oils, oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two high tensile steel braids
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: Exceed EN 857 2SC - ISO 11237-1 2SC, SAE 100 R 16S; in addition: DN 25 SAE 100 R17, ISO 11237-1 R17
TYPE APPROVALS: GOST-R, LOBA (DN 5÷25), LR, MSHA, RINA (DN 6÷31), (B) (DN 5÷76), MA, FRAS

ES

PRINCIPALES APLICACIONES
Líneas de presión de media y alta en espacios reducidos en condiciones ambientales de trabajo pesado, instalaciones especificas con condiciones de abrasión severa, aplicaciones marinas, minas subterráneas y minas a cielo abierto, líneas de retorno y de succión
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y de colza, aceites basados en glicoles y poliglicoles, aceite basado en éster sintético, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético resistente al aceite
REFUERZO: Dos refuerzos trenzados de acero de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor.
ESPECIFICACIONES APLICABLES: Excede EN 857 2SC - ISO 11237-1 2SC, SAE 100 R 16S; adicionalmente aplica para: DN 25 SAE 100 R17, ISO 11237-1 R17
APROBACIONES: GOST-R, LOBA (DN 5÷25), LR, MSHA, RINA (DN 6÷31), (B) (DN 5÷76), MA , FRAS

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HAUPT-ANWENDUNGSGEBIET
Mittlerer Hochdruckbereich mit eingeschränkten Installationsmöglichkeiten bei schwersten Einsatzbedingungen, Installationen mit hohem Abrieb, Schiffbau, Bergbau und Tagebau
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Rapsöl, Glykol, Öl auf Polyglykolbasis, Synthetik- Esterbasis, Wasser/Ölemulsion, Wasser

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Zwei hochzugfeste Stahldrahtgeflechte
DECKE: Synthetisches Gummi mit hoher Ozon-, Wetter- und Temperaturbeständigkeit
ANGEWANDTE NORM: Übertrifft EN 857 2SC - ISO 11237-1 2SC, SAE 100 R 16S; und dazu: DN 25 SAE 100 R17, ISO 11237-1 R17
ZULASSUNGEN: GOST-R, LOBA, LR, MSHA, RINA (DN 6÷31), (B) (DN 5÷76), MA, FRAS

IT

PRINCIPALI APPLICAZIONI
Linee a medio-alta pressione con difficoltà di installazione in severe condizioni ambientali, applicazioni specifiche in severe condizioni di abrasione, applicazioni marine, miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, oli a base di glicoli e poliglicoli, oli a base di esteri sintetici, oli in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Due trecce di acciaio ad alto carico
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore
SPECIFICHE: Eccede EN 857 2SC - ISO 11237-1 2SC, SAE 100 R 16S; inoltre: DN 25 SAE 100 R17, ISO 11237-1 R17
OMOLOGAZIONI: GOST-R, LOBA, LR, MSHA, RINA (DN 6÷31), (B) (DN 5÷76), MA , FRAS

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ROCKMASTER®/4SP

ABRASION, WEATHER & HEAT RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H10008006*	6	-04	1/4"	14,7	0,58	17,6	0,69	485	7030	2400	34800	125	4,92	590	0,40	MF+M00910-04
H10008010*	10	-06	3/8"	17,6	0,69	21,0	0,83	450	6520	2000	29000	125	4,92	740	0,50	MF+M00910-06
H10008012*	12	-08	1/2"	20,3	0,80	24,2	0,96	420	6090	1750	25380	175	6,89	880	0,59	MF+M00910-08
H10008016*	16	-10	5/8"	23,8	0,94	27,6	1,09	380	5510	1600	23200	200	7,87	1080	0,73	MF+M00910-10
H10008019*	19	-12	3/4"	28,2	1,11	31,7	1,25	380	5510	1600	23200	240	9,45	1450	0,97	MF+M00920-12
H10008025*	25	-16	1"	35,0	1,38	39,0	1,54	320	4640	1400	20300	340	13,39	1880	1,26	MF+M00920-16
H10008032*	31	-20	1.1/4"	46,1	1,81	49,7	1,96	210	3040	1250	18120	460	18,11	2990	2,01	MF+M00920-20
H10008038*	38	-24	1.1/2"	52,4	2,06	56,1	2,21	185	2680	1000	14500	560	22,05	3500	2,35	MF+M00910-24
H10008051*	51	-32	2"	65,4	2,57	69,0	2,72	175	2530	1000	14500	660	25,98	5010	3,37	MF+M00910-32

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Approved at 1.000.000 impulse cycles ■ Superior abrasion resistance ■ High ozone and weather resistance ■ Flame resistance to a wide range of spec. ■ Antistatic and antitoxic cover ■ Upgraded temperature resistance ■ Bio biological and mineral oils compatibility

Aprobada hasta 1.000.000 de ciclos de impulso ■ Mejora de la resistencia a la temperatura ■ Superior resistencia a la abrasión ■ Alta resistencia al ozono y a la intemperie ■ Resistencia a la llama en una amplia gama de especificaciones ■ Cubierta antiestática y atóxica ■ Bio compatible con aceites minerales y biológicos

Geprüft mit 1.000.000 Impulszyklen ■ Überragende Abriebfastigkeit-Hohe Ozon- und Wetterbeständigkeit ■ Flammbeständig nach vielen Normen ■ Antistatische und antitoxische Decke ■ Bio Beständigkeit gegen Bio- und Mineralöle

Approvato a 1.000.000 di cicli ■ Estrema resistenza all'abrasione ■ Elevata resistenza all'ozono e agli agenti atmosferici ■ Resistenza alla propagazione di fiamma in accordo a molteplici norme ■ Copertura antistatica e atossica ■ Migliorata resistenza alle escursioni termiche ■ Bio compatibilità con oli biologici e minerali

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MAIN APPLICATIONS
Very high pressure power lines in heavy duty environmental conditions, specific installations with severe abrasion conditions, marine applications, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +250°F -40°C / +121°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Four high tensile steel spirals
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: Exceed EN 856 4SP - ISO 3862 4SP
DN16&19: Thin cover style, exceeding performace EN 856 4SP and ISO 3862 4SP
TYPE APPROVALS: DNV, DNV (MED), FRAS, GOST-R, LOBA, MSHA, RINA (DN 6÷16), Ⓑ, MA
⚠ **If service temperature is lower than 100°C ROCKMASTER/4SP can be used with reduced Min. Bend Radius (see Goldenspir/4SP)**

FLUIDTECHNIK S.R.L. 0723 382 199

ES

PRINCIPALES APLICACIONES
Líneas de presión muy alta en condiciones ambientales de trabajo pesado, instalaciones específicas con condiciones de abrasión severa, aplicaciones marinas, subterráneas y minas a cielo abierto
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +250°F -40°C / +121°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y basado en éster sintético (hasta +212°F / +100°C), glicoles y poliglicoles, aceite basado en éster sintético, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Cuatro refuerzos de acero en espiral de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Excede EN 856 4SP – ISO 3862 4SP
DN16&19: El estilo de cubierta delgada, excede las características de EN 856 4SP y ISO 3862 4SP.
APROBACIONES: DNV, DNV (MED), FRAS, GOST-R, LOBA, MSHA, RINA (DN 6÷16), Ⓑ, MA
⚠ **Si la temperatura de servicio es menor de 100° ROCKMASTER/4SP puede ser usada con menor radio de curvatura (ver Goldenspir/4SP).**

D

HAUPT-ANWENDUNGSGEBIET
Hochdruckbereich mit eingeschränkten Installationsmöglichkeiten bei schwersten Einsatzbedingungen, Installationen mit hohem Abrieb, Schiffbau, Bergbau und Tagebau
DAUERBETRIEB
-40°F / +250°F -40°C / +121°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Rapsöl, Glykol, Öl auf Polyglykolbasis, Synthetik-Esterbasis (bis +212°F / +100°C) Wasser/Ölemulsion, Wasser

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Vier hochzugfeste Stahldrahtspiralen
DECKE: Synthetisches Gummi mit hoher Ozon-, Wetter- und Temperaturbeständigkeit
ANGEWANDTE NORM: Übertrifft EN 856 4SP - ISO 3862 4SP
DN16&19: Übersteigt Anforderungen EN 856 4SP - ISO 3862 4SP DN16&19: Dünner Ummantelungstyp, übersteigt Anforderungen EN 856 4SP und ISO 3862 4SP
ZULASSUNGEN: DNV, DNV (MED), FRAS, GOST-R, LOBA, MSHA, RINA (DN 6÷16), Ⓑ, MA
⚠ **Bleibt die Betriebstemperatur unter 100°C kann ROCKMASTER/4SP mit reduziertem Mindestbiegeradius (siehe Goldenspir/4SP) eingesetzt werden.**

IT

PRINCIPALI APPLICAZIONI
Linee ad alta pressione in severe condizioni ambientali, applicazioni specifiche in severe condizioni di abrasione, applicazioni marine, miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +250°F -40°C / +121°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e oli a base di esteri sintetici (fino a +212°F / +100°C), glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Quattro spirali di acciaio ad alto carico
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore
SPECIFICHE: Eccede EN 856 4SP - ISO 3862 4SP
DN16&19: Copertura sottile, eccede performace EN 856 4SP e ISO 3862 4SP
OMOLOGAZIONI: DNV, DNV (MED), FRAS, GOST-R, LOBA, MSHA, RINA (DN 6÷16), Ⓑ, MA
⚠ **Se la temperature di esercizio è minore di 100°C, ROCKMASTER/4SP può essere utilizzato con raggio di curvatura ridotto (vedi Goldenspir/4SP)**

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ROCKMASTER®/4SH

ABRASION, WEATHER & HEAT RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H10044016*	16	-10	5/8"	25,5	1,00	28,5	1,12	450	6520	1850	26830	180	7,09	1290	0,87	IP+M01500-10
H10044019*	19	-12	3/4"	28,2	1,11	31,9	1,26	420	6090	1750	25380	210	8,27	1500	1,01	IP+M01500-12
H10044025*	25	-16	1"	35,1	1,38	38,1	1,50	385	5580	1750	25380	220	8,66	2040	1,37	IP+M01500-16
H10044032*	31	-20	1.1/4"	42,2	1,66	45,0	1,77	350	5070	1400	20300	420	16,54	2410	1,62	IP+M01500-20
H10044038*	38	-24	1.1/2"	49,1	1,93	53,1	2,09	300	4350	1250	18120	560	22,05	3170	2,13	IP+M01500-24
H10044051*	51	-32	2"	63,5	2,50	67,5	2,66	250	3620	1000	14500	700	27,56	4460	3,00	IP+M01500-32

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Approved at 1.000.000 flexing impulse cycles ■ Superior abrasion resistance ■ High ozone and weather resistance ■ Flame resistance to a wide range of spec. ■ Antistatic and antitoxic cover ■ Upgraded temperature resistance ■ Bio biological and mineral oils compatibility

Aprobada hasta 1.000.000 de ciclos de impulso flexibles ■ Mejora de la resistencia a la temperatura ■ Superior resistencia a la abrasión ■ Alta resistencia al ozono y a la intemperie ■ Resistencia a la llama en una amplia gama de especificaciones ■ Cubierta antiestática y atóxica ■ Bio compatible con aceites minerales y biológicos

Geprüft mit 1.000.000 Flex Impulszyklen ■ Höhere Temperaturbeständigkeit ■ Überragende Abriebbeständigkeit-Hohe Ozon- und Wetterbeständigkeit ■ Flammbeständig nach vielen Normen ■ Antistatische und antitoxische Decke ■ Bio Beständigkeit gegen Bio- und Mineralöle

Approvato a 1.000.000 di cicli in condizioni rotanti ■ Estrema resistenza all'abrasione ■ Elevata resistenza all'ozono e agli agenti atmosferici ■ Resistenza alla propagazione di fiamma in accordo a molteplici norme ■ Copertura antistatica e atossica ■ Migliorata resistenza alle escursioni termiche ■ Bio compatibilità con oli biologici e minerali

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MAIN APPLICATIONS
Very high pressure power lines in heavy duty environmental conditions, specific installations with severe abrasion conditions, marine applications, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +250°F -40°C / +121°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water

INSERT: MF2000® - INTERLOCK PLUS TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Four high tensile steel spirals
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: Exceed EN 856 4SH -ISO 3862 4SH
TYPE APPROVALS: DNV, DNV (MED), FRAS, GOST-R, LOBA (DN 19÷51), LR, MSHA, (B) (DN 16÷51), RINA, MA, DGMS

ES

PRINCIPALES APLICACIONES
Líneas de alta presión en condiciones ambientales de trabajo pesado, instalaciones específicas con condiciones de abrasión severa, aplicaciones marinas, minas subterráneas y minas a cielo abierto
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +250°F -40°C / +121°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y basado en éster sintético (hasta +212°F / +100°C), glicoles y poliglicoles, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO INTERLOCK PLUS
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Cuatro refuerzos de acero en espiral de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Excede EN 856 4SH - ISO 3862 4SH
APROBACIONES: DNV, DNV (MED), FRAS, GOST-R, LOBA (DN 19÷51), LR, MSHA, (B) (DN 16÷51), RINA, MA, DGMS

FLUIDTECHNIK S.R.L. 0723 382 199

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HAUPT-ANWENDUNGSGEBIET
Sehr hoher Druckbereich mit eingeschränkten Installationsmöglichkeiten bei schwersten Einsatzbedingungen, Installationen mit hohem Abrieb, Schiffbau, Bergbau und Tagebau
DAUERBETRIEB
-40°F / +250°F -40°C / +121°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Rapsöl, Glykol, Öl auf Polyglykolbasis, Synthetik-Esterbasis bis +212°F / +100°C
Wasser/Ölemulsion, Wasser

NIPPEL: MF2000® - INTERLOCK PLUS
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Vier hochzugfeste Stahldrahtspiralen
DECKE: Synthetisches Gummi mit hoher Ozon-, Wetter- und Temperaturbeständigkeit
ANGEWANDTE NORM: Übertrifft EN 856 4SH - ISO 3862 4SH
ZULASSUNGEN: DNV, DNV (MED), FRAS, GOST-R, LOBA (DN 19÷51), LR, MSHA, (B) (DN 16÷51), RINA, MA, DGMS

IT

PRINCIPALI APPLICAZIONI
Linee ad alta pressione in severe condizioni ambientali, applicazioni specifiche in severe condizioni di abrasione, applicazioni marine, miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +250°F -40°C / +121°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e oli a base di esteri sintetici (fino a +212°F / +100°C), glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO INTERLOCK PLUS
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Quattro spirali di acciaio ad alto carico
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore
SPECIFICHE: Eccede EN 856 4SH -ISO 3862 4SH
OMOLOGAZIONI: DNV, DNV (MED), FRAS, GOST-R, LOBA (DN 19÷51), LR, MSHA, (B) (DN 16÷51), RINA, MA, DGMS

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ROCKMASTER®/12

ABRASION, WEATHER & HEAT RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H10031010*	10	-06	3/8"	17,3	0,68	20,0	0,79	280	4060	1600	23200	100	3,94	620	0,42	MF+M00910-06
H10031012*	12	-08	1/2"	20,4	0,80	23,5	0,93	280	4060	1350	19580	125	4,92	760	0,51	MF+M00910-08
H10031016*	16	-10	5/8"	24,4	0,96	27,1	1,07	280	4060	1300	18850	140	5,51	990	0,67	MF+M00910-10
H10031019*	19	-12	3/4"	27,4	1,08	30,4	1,20	280	4060	1300	18850	150	5,91	1160	0,78	MF+M00920-12
H10031025*	25	-16	1"	35,0	1,38	37,6	1,48	280	4060	1150	16670	225	8,86	1740	1,17	MF+M00920-16
H10031A32*	31	-20	1.1/4"	43,1	1,70	45,9	1,81	210	3040	1000	14500	250	9,84	2280	1,53	MF+M00920-20
H10031040*	38	-24	1.1/2"	50,0	1,97	53,3	2,10	175	2530	1000	14500	500	19,69	3130	2,10	MF+M00910-24
H10031051*	51	-32	2"	63,6	2,50	66,7	2,63	175	2530	800	11600	630	24,80	4440	2,98	MF+M00910-32

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Approved at 1.000.000 impulse cycles ■ Superior abrasion resistance ■ High ozone and weather resistance ■ Flame resistance to a wide range of spec. ■ Antistatic and antitoxic cover ■ bio biological and mineral oils compatibility

Aprobada hasta 1.000.000 de ciclos de impulso ■ Superior resistencia a la abrasión ■ Alta resistencia al ozono y a la intemperie ■ Resistencia a la llama en una amplia gama de especificaciones ■ Cubierta antiestática y atóxica ■ bio compatible con aceites minerales y biológicos

Geprüft mit 1.000.000 Impulszyklen ■ Überragende Abriebbeständigkeit ■ Hohe Ozon- und Wetterbeständigkeit ■ Flammbeständig nach vielen Normen ■ Antistatische und antitoxische Decke ■ bio Beständigkeit gegen Bio- und Mineralöle

Approvato a 1.000.000 di cicli ■ Estrema resistenza all'abrasione ■ Elevata resistenza all'ozono e agli agenti atmosferici ■ Resistenza alla propagazione di fiamma in accordo a molteplici norme ■ Copertura antistatica e atossica ■ bio compatibilità con oli biologici e minerali

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GB

MAIN APPLICATIONS
High pressure power lines in heavy duty environmental conditions, specific installations with severe abrasion conditions, marine applications, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +250°F -40°C / +121°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Four high tensile steel spirals
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: Exceed EN 856 R12 - SAE 100 R12 - ISO 3862 R12
TYPE APPROVALS: ABS, BV, BV (MED), FRAS, GOST-R, LR, MSHA, MA, LOBA

ES

PRINCIPALES APLICACIONES
Líneas de presión de trabajo pesado, transmisiones hidrostáticas, en condiciones ambientales de trabajo pesado, instalaciones específicas con condiciones de abrasión severa, aplicaciones marinas, minas subterráneas y minas a cielo abierto
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +250°F -40°C / +121°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y aceite basado en éster sintético (hasta +212°F / +100°C), glicoles y poliglicoles, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Cuatro refuerzos de acero en espiral de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Excede EN 856 R12 - SAE 100 R12 - ISO 3862 R12
APROBACIONES: ABS, BV, BV (MED), FRAS, GOST-R, LR, MSHA, MA, LOBA

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPT-ANWENDUNGSGEBIET
Hoher Druckbereich mit eingeschränkten Installationsmöglichkeiten bei schwersten Einsatzbedingungen, Installationen mit hohem Abrieb, Schiffbau, Bergbau und Tagebau
DAUERBETRIEB
-40°F / +250°F -40°C / +121°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Rapsöl, Glykol, Öl auf Polyglykolbasis, Synthetik-Esterbasis bis +212°F / +100°C
Wasser/Ölemulsion, Wasser

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Vier hochzugfeste Stahldrahtspiralen
DECKE: Synthetisches Gummi mit hoher Ozon-, Wetter- und Temperaturbeständigkeit
ANGEWANDTE NORM: Übertrifft EN 856 R12 - SAE 100 R12 - ISO 3862 R12
ZULASSUNGEN: ABS, BV, BV (MED), FRAS, GOST-R, LR, MSHA, MA, LOBA

IT

PRINCIPALI APPLICAZIONI
Linee ad alta pressione in severe condizioni ambientali, applicazioni specifiche in severe condizioni di abrasione, applicazioni marine, miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +250°F -40°C / +121°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e oli a base di esteri sintetici (fino a +212°F / +100°C), glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Quattro spirali di acciaio ad alto carico
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore
SPECIFICHE: Eccede EN 856 R12 - SAE 100 R12 - ISO 3862 R12
OMOLOGAZIONI: ABS, BV, BV (MED), FRAS, GOST-R, LR, MSHA, MA, LOBA

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ROCKMASTER®/13

ABRASION, WEATHER & HEAT RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H10035A06*	6	-04	1/4"	14,6	0,57	17,6	0,69	690	10000	3250	47130	120	4,72	660	0,44	*
H10035A10*	10	-06	3/8"	17,4	0,69	20,4	0,80	690	10000	2900	42060	150	5,91	830	0,56	*
H10035A12*	12	-08	1/2"	21,5	0,85	24,5	0,96	620	8990	2500	36250	200	7,87	1140	0,77	*
H10035019*	19	-12	3/4"	29,0	1,14	31,8	1,25	350	5070	1950	28280	240	9,45	1630	1,10	IP+M01500-12
H10035025*	25	-16	1"	36,0	1,42	39,2	1,54	350	5070	1650	23930	300	11,81	2190	1,47	IP+M01500-16
new H10035032*	31	-20	1.1/4"	47,0	1,85	50,0	1,97	350	5070	1500	21750	420	16,54	3600	2,42	IP+M01600-20
H10035040*	38	-24	1.1/2"	54,6	2,15	57,5	2,26	350	5070	1600	23200	500	19,69	4700	3,16	IP+M01600-24
H10035051*	51	-32	2"	68,4	2,69	72,0	2,83	350	5070	1500	21750	630	24,80	6800	4,57	IP+M01800-32

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Approved at 1.000.000 flexing impulse cycles ■ Superior abrasion resistance ■ High ozone and weather resistance ■ Flame resistance to a wide range of spec. ■ Antistatic and antitoxic cover ■ bio biological and mineral oils compatibility

Aprobada hasta 1.000.000 de ciclos de impulso flexibles ■ Superior resistencia a la abrasión ■ Alta resistencia al ozono y a la intemperie ■ Resistencia a la llama en una amplia gama de especificaciones ■ Cubierta antiestática y atóxica ■ bio compatible con aceites minerales y biológicos

Geprüft mit 1.000.000 Impulszyklen ■ Überragende Abriebbeständigkeit ■ Hohe Ozon- und Wetterbeständigkeit ■ Flammbeständig nach vielen Normen ■ Antistatische und antitoxische Decke ■ bio Beständigkeit gegen Bio- und Mineralöle

Approvato a 1.000.000 di cicli ■ Estrema resistenza all'abrasione ■ Elevata resistenza all'ozono e agli agenti atmosferici ■ Resistenza alla propagazione di fiamma in accordo a molteplici norme ■ Copertura antistatica e atossica ■ bio compatibilità con oli biologici e minerali

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GB

MAIN APPLICATIONS
Heavy duty power lines, hydrostatic transmissions, in heavy duty environmental conditions, specific installa-tions with severe abrasion conditions, marine applications, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +250°F -40°C / +121°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water

INSERT: MF2000® - INTERLOCK PLUS TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Four high tensile steel spirals (DN 6÷25). Six high tensile steel spirals (DN 31÷51)
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: Exceed EN 856 R13 - SAE 100 R13 - ISO 3862 R13
TYPE APPROVALS: ABS (DN 19÷51), BV (DN 19÷51), BV MED (DN 19÷51), FRAS, GOST-R, LOBA, RINA (DN 38÷51), Ⓑ (DN 19÷51), MSHA

ES

PRINCIPALES APLICACIONES
Líneas de presión de trabajo pesado, transmisiones hidrostáticas, en condiciones ambientales de trabajo pesado, instalaciones específicas con condiciones de abrasión severa, aplicaciones marinas, minas subterráneas y minas a cielo abierto
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +250°F -40°C / +121°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y aceite basado en éster sintético (hasta +212°F / +100°C), glicoles y poliglicoles, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO INTERLOCK PLUS
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Cuatro refuerzos de acero en espiral de alta resistencia (DN 6÷25). Seis refuerzos de acero en espiral de alta resistencia (DN 31÷51)
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Excede EN 856 R13 - SAE 100 R13 - ISO 3862 R13
APROBACIONES: ABS (DN 19÷51), BV (DN 19÷51), BV MED (DN 19÷51), FRAS, GOST-R, LOBA, RINA (DN 38÷51), Ⓑ (DN 19÷51), MSHA

FLUIDTECHNIK S.R.L. 0723 382 199

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HAUPT-ANWENDUNGSGEBIET
Hochdruck Kreisläufe, Hydrostatische Getriebe mit hoher Belastung, Installationen mit Abriebproblemen, Schiffbau, Bergbau und Tagebau
DAUERBETRIEB
-40°F / +250°F -40°C / +121°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Rapsöl, Glykol, Öl auf Polyglykolbasis, Synthetik-Esterbasis bis +212°F / +100°C
Wasser/Ölemulsion, Wasser

NIPPEL: MF2000® - INTERLOCK PLUS
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Vier hochzugfeste Stahldrahtspiralen (DN 6÷25).
Sechs hochzugfeste Stahldrahtspiralen (DN 31÷51)
DECKE: Synthetisches Gummi mit hoher Ozon-, Wetter-und Temperaturbeständigkeit
ANGEWANDTE NORM: Übertrifft EN 856 R13 - SAE 100 R13 - ISO 3862 R13
ZULASSUNGEN: ABS (DN 19÷51), BV (DN 19÷51), BV MED (DN 19÷51), FRAS, GOST-R, LOBA, RINA (DN 38÷51), Ⓑ (DN 19÷51), MSHA

IT

PRINCIPALI APPLICAZIONI
Ideale per applicazioni severe, trasmissioni idrostatiche, per applicazioni in severe condizioni ambientali, applicazioni specifiche in severe condizioni di abrasione, applicazioni marine, miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +250°F -40°C / +121°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e oli a base di esteri sintetici (fino a +212°F / +100°C), glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO INTERLOCK PLUS
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Quattro spirali di acciaio ad alto carico (DN 6÷25). Sei spirali di acciaio ad alto carico (DN 31÷51)
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore
SPECIFICHE: Eccede EN 856 R13 - SAE 100 R13 - ISO 3862 R13
OMOLOGAZIONI: ABS (DN 19÷51), BV (DN 19÷51), BV MED (DN 19÷51), FRAS, GOST-R, LOBA, RINA (DN 38÷51), Ⓑ (DN 19÷51), MSHA

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ROCKMASTER®/15

ABRASION, WEATHER & HEAT RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H10049019*	19	-12	3/4"	28,2	1,11	31,0	1,22	420	6090	1750	25380	265	10,43	1440	0,97	IP+M01500-12
H10049025*	25	-16	1"	35,1	1,38	38,1	1,50	420	6090	1750	25380	267	10,51	2040	1,37	IP+M01500-16
H10049A32*	31	-20	1.1/4"	46,3	1,82	49,5	1,95	420	6090	1680	24360	267	10,51	3660	2,46	IP+M01600-20
H10049040*	38	-24	1.1/2"	54,6	2,15	57,5	2,26	420	6090	1680	24360	315	12,40	4700	3,16	IP+M01600-24

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Approved at 1.000.000 flexing impulse cycles ■ Superior abrasion resistance ■ High ozone and weather resistance ■ Flame resistance to a wide range of spec. ■ Antistatic and antitoxic cover ■ bio biological and mineral oils compatibility

Aprobada hasta 1.000.000 de ciclos de impulso flexibles ■ Superior resistencia a la abrasión ■ Alta resistencia al ozono y a la intemperie ■ Resistencia a la llama en una amplia gama de especificaciones ■ Cubierta antiestática y atóxica ■ bio compatible con aceites minerales y biológicos

Geprüft mit 1.000.000 Flex Impulszyklen ■ Überragende Abriebbeständigkeit ■ Hohe Ozon- und Wetterbeständigkeit ■ Flammbeständig nach vielen Normen ■ Antistatische und antitoxische Decke ■ bio Beständigkeit gegen Bio- und Mineralöle

Approvato a 1.000.000 di cicli in condizioni rotanti ■ Estrema resistenza all'abrasione ■ Elevata resistenza all'ozono e agli agenti atmosferici ■ Resistenza alla propagazione di fiamma in accordo a molteplici norme ■ Copertura antistatica e atossica ■ bio compatibilità con oli biologici e minerali

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GB

MAIN APPLICATIONS
Heavy duty power lines, hydrostatic transmissions, in heavy duty environmental conditions, specific installations with severe abrasion conditions, marine applications, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +250°F -40°C / +121°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water

INSERT: MF2000® - INTERLOCK PLUS TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Four high tensile steel spirals (DN 19÷25). Six high tensile steel spirals (DN 31÷38)
COVER: Synthetic rubber with high ozone, weather and heat resistance
APPLICABLE SPECS.: Exceed SAE 100 R15 - ISO 3862 R15
TYPE APPROVALS: ABS, BV, BV (MED), DNV, FRAS, GL, GOST-R, LOBA, LR, MSHA, (B), MA

ES

PRINCIPALES APLICACIONES
Líneas de presión de trabajo pesado, transmisiones hidrostáticas, en condiciones ambientales de trabajo pesado, instalaciones específicas con condiciones de abrasión severa, aplicaciones marinas, minas subterráneas y minas a cielo abierto
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +250°F -40°C / +121°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y aceite basado en éster sintético (hasta +212°F / +100°C), glicoles y poliglicoles, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO INTERLOCK PLUS
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Cuatro refuerzos de acero en espiral de alta resistencia (DN 19÷25). Seis refuerzos de acero en espiral de alta resistencia(DN 31÷38)
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Excede SAE 100 R15 - ISO 3862 R15
APROBACIONES: ABS, BV, BV (MED), DNV, FRAS, GL, GOST-R, LOBA, LR, MSHA, (B), MA

FLUIDTECHNIK S.R.L. 0723 382 199

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HAUPT-ANWENDUNGSGEBIET
Hochdruck Kreisläufe, Hydrostatische Getriebe mit hoher Belastung, Installationen mit Abriebproblemen, Schiffbau, Bergbau und Tagebau
DAUERBETRIEB
-40°F / +250°F -40°C / +121°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Rapsöl, Glykol, Öl auf Polyglykolbasis, Synthetik-Esterbasis bis +212°F / +100°C
Wasser/Ölemulsion, Wasser

NIPPEL: MF2000® - INTERLOCK PLUS
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Vier hochzugfeste Stahldrahtspiralen (DN 19÷25).
Sechs hochzugfeste Stahldrahtspiralen (DN 31÷38)
DECKE: Synthetisches Gummi mit hoher Ozon-, Wetter- und Temperaturbeständigkeit
ANGEWANDTE NORM: Übertrifft SAE 100 R15 - ISO 3862 R15
ZULASSUNGEN: ABS, BV, BV (MED), DNV, FRAS, GL, GOST-R, LOBA, LR, MSHA, (B), MA

IT

PRINCIPALI APPLICAZIONI
Ideale per applicazioni severe, trasmissioni idrostatiche, per applicazioni in severe condizioni ambientali, applicazioni specifiche in severe condizioni di abrasione, applicazioni marine, miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +250°F -40°C / +121°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e oli a base di esteri sintetici (fino a +212°F / +100°C), glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO INTERLOCK PLUS
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Quattro spirali di acciaio ad alto carico (DN 19÷25).
Sei spirali di acciaio ad alto carico (DN 31÷38)
COPERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore
SPECIFICHE: Eccede SAE 100 R15 - ISO 3862 R15
OMOLOGAZIONI: ABS, BV, BV (MED), DNV, FRAS, GL, GOST-R, LOBA, LR, MSHA, (B), MA

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FLUIDTECHNIK S.R.L.0723 382 199

ETERNITY™/2

HIGH SERVICE LIFE AND RELIABILITY



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01102006*	6	-04	1/4"	11,3	0,44	13,1	0,52	450	6520	1800	26100	45	1,77	275	0,18	MF+M00120-04
H01102008*	8	-05	5/16"	12,9	0,50	14,7	0,58	400	5800	1600	23200	55	2,17	325	0,22	MF+M00120-05
H01102010*	10	-06	3/8"	15,0	0,59	16,8	0,66	365	5290	1460	21170	65	2,56	390	0,26	MF+M00120-06
NEW H01102A12*	12	-08	1/2"	18,6	0,73	20,4	0,80	350	5070	1400	20300	80	3,15	560	0,38	MF+M00120-08
H01102016*	16	-10	5/8"	22,7	0,89	24,7	0,97	300	4350	1200	17400	90	3,54	730	0,49	MF+M00120-10
H01102019*	19	-12	3/4"	27,1	1,07	29,3	1,15	300	4350	1200	17400	120	4,72	1070	0,72	MF+M00120-12
H01102025*	25	-16	1"	33,7	1,33	35,9	1,41	225	3260	900	13050	160	6,30	1340	0,90	MF+M00120-16

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

The Hi-Performance solution for toughest OEM specifications ■ Performance far exceeds EN 857-2SC ■ Improved impulse and service life duration ■ High temperature and environmental resistance ■ Enhanced flex impulse resistance with M00120 skive ferrule

La solución de alto rendimiento para las exigentes especificaciones de equipo original (OEM) ■ Su rendimiento excede la Norma EN857-2SC ■ Mejorada resistencia a impulsos y mayor vida útil ■ Resistencia a altas temperaturas y medio ambiente ■ Acentuado flexibilidad para asegurar una buena resistencia a impulsos con casquillo M00120 para pelado

Die Hi-Performance Lösung für härteste OEM-Spezifikationen ■ Übertrifft die EN 857 2SC bei weitem ■ Verbesserte Lebensdauer und Impulsfestigkeit ■ Hohe Resistenz gegen Umwelteinflüße und hohe Temperaturen ■ Erhöhte Beständigkeit gegen Fleximpulse mit spezieller Schälfassung (M00120)

Soluzione ad alta performance adatta per le specifiche OEM più difficili ■ Performance che eccedono di gran lunga le normative EN 857 2SC ■ Migliore resistenza agli impulsi e maggior durata ■ Resistenza ad elevate temperature e a situazioni ambientali sfavorevoli ■ Resistenza migliorata al testi di impulsi rotanti con ghiera con pelatura (M00120)

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MAIN APPLICATIONS
High pressure lines with installation constraints in severe OEM applications
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +250°F -40°C / +121°C
MAX OPERATING TEMPERATURE:
+275°F +135°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two high tensile steel braids
COVER: Synthetic rubber with high ozone, abrasion and weather resistance.
APPLICABLE SPECS.: Exceed EN 857 2SC, SAE 100 R16S and ISO 11237 2SC
TYPE APPROVALS: DNV, DNV (MED), GOST-R, MSHA, LOBA

ES

PRINCIPALES APLICACIONES
Líneas de alta presión con restricciones para la instalación en aplicaciones severas para equipo original (OEM)
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +250°F -40°C / +121°C
MÁXIMA TEMPERATURA DE OPERACIÓN:
+257°F +135°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y aceite basado en éster sintético (hasta +212°F / +100°C), glicoles y poliglicoles, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al aceite
REFUERZO: 2 refuerzos de acero en espiral de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor.
ESPECIFICACIONES APLICABLES: Excede EN 857 2SC, SAE 100 R16S y ISO 11237 2SC
APROBACIONES: DNV, DNV (MED), GOST-R, MSHA, LOBA

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D

HAUPT-ANWENDUNGSGEBIET
Hochdruckleitungen in schwierigen Einbausituationen und schweren OEM Anwendungen
DAUERBETRIEB
-40°F / +250°F -40°C / +121°C
MAX. BETRIEBSTEMPERATUR:
+257°F +135°C
EMPFOHLENE MEDIEN
Mineralöle, Pflanzenöle, Öle auf Basis synthetischer Ester (bis +212°F / +100°C), Glykole und Polyglykole, Wasser/Mineralölemulsion, Wasser

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges sythetisches Gummi
DRUCKTRÄGER: Zwei hochzugfeste Stahldrahtgeflechte
DECKE: Synthetisches Gummi mit hoher Ozon-, Abrieb- und Wetterbeständigkeit
ANGEWANDTE NORM: Übertrifft EN 857 2SC, SAE 100 R16S und ISO 11237 2SC
ZULASSUNGEN: DNV, DNV (MED), GOST-R, MSHA, LOBA

IT

PRINCIPALI APPLICAZIONI
Linee ad alta pressione con difficoltà di installazione in applicazioni OEM molto severe
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +250°F -40°C / +121°C
PICCO DI TEMPERATURA MASSIMA:
+275°F +135°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e oli a base di esteri sintetici (fino a +212°F / +100°C), glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Due trecce di acciaio ad alto carico
COPERTURA: Gomma sintetica con elevata resistenza all'ozono, all'abrasione ed agli agenti atmosferici
SPECIFICHE: Eccede EN 857 2SC, SAE 100 R16S e ISO 11237 2SC
OMOLOGAZIONI: DNV, DNV (MED), GOST-R, MSHA, LOBA

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DIAMONDSPIR™

VERY HIGH PRESSURE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H10018019*	19	-12	3/4"	29,1	1,15	32,1	1,26	560	8120	2240	32480	280	11,02	1660	1,12	XL+M01750-12
H10018025*	25	-16	1"	38,2	1,50	41,2	1,62	560	8120	2240	32480	350	13,78	2910	1,96	XL+M01800-16
H10018032*	31	-20	1.1/4"	47,7	1,88	50,9	2,00	525	7610	2100	30450	420	16,54	4210	2,83	XL+M01800-20
H10018038*	38	-24	1.1/2"	55,2	2,17	58,7	2,31	475	6880	1900	27550	500	19,69	5230	3,51	XL+M01800-24
H10018051*	51	-32	2"	68,4	2,69	71,9	2,83	420	6090	1680	24360	600	23,62	6680	4,49	XL+M01800-32
NEW H10018A63*	63	-40	2.1/2"	80,6	3,17	84,8	3,34	350	5070	1400	20300	800	31,50	8110	5,45	XL+M01800-40
H10018076*	76	-48	3"	90,8	3,57	94,6	3,72	210	3040	870	12610	900	35,43	7910	5,32	XL+M01800-48

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Very high pressure resistance ■ Approved with severe fatigue tests ■ Superior abrasion resistance ■ High ozone and weather resistance ■ Flame resistance to a wide range of spec. ■ Antistatic and antitoxic cover ■ bio biological and mineral oils compatibility

Superior resistencia a la presión ■ Aprobado con prueba de maximo esfuerzo ■ Superior resistencia a la abrasión ■ Alta resistencia al ozono y a la intemperie ■ Resistente a la llama ■ Cubierta antiestática y atoxica ■ bio compatible con aceite mineral y biológico

Für extreme Drücke ■ Erfolgreich unter extremen Bedingungen getestet ■ Hervorragende Abriebbeständigkeit ■ Hohe Ozon- und Wetterbeständigkeit ■ Erfüllt Flammtests nach verschiedenen Spezifikationen ■ Decke antistatisch und antitoxisch ■ bio Beständigkeit gegen Bio- und Mineralöle

Elevatissima resistenza alla pressione ■ Approvato con severi test a fatica ■ Superiore resistenza all'abrasione ■ Elevata resistenza all'ozono ed agli agenti atmosferici ■ Resistenza alla propagazione di fiamma in accordo a molteplici norme ■ Copertura antistatica e atossica ■ bio compatibilità con oli biologici e minerali

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MAIN APPLICATIONS
Heavy duty power lines, hydrostatic transmissions in heavy duty environmental conditions, specific installations with severe abrasion conditions, off-shore applications, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +250°F -40°C / +121°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +210°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water

INSERT: MF2000® - XTRALOCK TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Six high tensile steel spirals (DN 25÷76). Four high tensile steel spirals (DN 19)
COVER: Synthetic rubber with high abrasion, ozone, weather and heat resistance
APPLICABLE SPECS.: MANULI® Design - ISO 6807-D (DN 76), exceed ISO 3862 R15
TYPE APPROVALS: ABS (DN 25÷76), GOST-R, MSHA, LOBA, FRAS

ES

PRINCIPALES APLICACIONES
Líneas de muy extrema presión en condiciones ambientales de trabajo pesado, transmisión hidrostática, instalaciones específicas con condiciones de abrasión severa, aplicaciones marinas, minas subterráneas y minas a cielo abierto
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +250°F -40°C / +121°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y aceite basado en éster sintético (hasta +210°F / +100°C), glicoles y poliglicoles, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO XTRALOCK
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Seis refuerzos de acero en espiral de alta resistencia al ozono (DN 25÷76), Cuatro refuerzos de acero en espiral de alta resistencia al ozono (DN 19)
CUBIERTA: Caucho sintético con alta resistencia al ozono, intemperie y calor
ESPECIFICACIONES APLICABLES: Diseño MANULI® - ISO 6807-D (DN 76), excede ISO 3862 R15
APROBACIONES: ABS (DN 25÷76), GOST-R, MSHA, LOBA, FRAS

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D

HAUPT-ANWENDUNGSGEBIET
Höchstdruckleitungen unter erschwerten Umweltbedingungen, hydrostatische Getriebe, spezifische Einbausituationen mit starkem Abrieb, Offshoreanwendungen, Tage- und Untertagebau
DAUERBETRIEB
-40°F / +250°F -40°C / +121°C
MAX. BETRIEBSTEMPERATUR
+257°F +125°C
EMPFOHLENE MEDIEN
Mineralöle, Pflanzenöle, Öle auf Basis synthetischer Ester (bis +212°F / +100°C), Glykole und Polyglykole, Wasser/Mineralölemulsion, Wasser

NIPPEL: MF2000® - XTRALOCK
SEELE: Ölbeständiges sythetisches Gummi
DRUCKTRÄGER: Sechs hochzugfeste Stahldrahgeflechte (DN 25÷76), vier hochzugfeste Stahldrahgeflechte (DN 19)
DECKE: Synthetisches Gummi mit hoher Ozon-, Abrieb- und Wetterbeständigkeit
ANGEWANDTE NORM: MANULI® Design - ISO 6807-D (DN 76), Überschreiten ISO 3862 R15
ZULASSUNGEN: ABS (DN 25÷76), GOST-R, MSHA, LOBA, FRAS

IT

PRINCIPALI APPLICAZIONI
Linee di pressione estremamente severe, trasmissioni idrostatiche in condizioni ambientali difficili, installazioni specifiche in condizioni severe di abrasione, applicazioni marine, miniere sotterranee ed a cielo aperto, ecc.
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +250°F -40°C / +121°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e oli a base di esteri sintetici (fino a +212°F / +100°C), glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO XTRALOCK
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Sei spirali di acciaio ad alto carico (DN 25÷76), quattro spirali di acciaio ad alto carico (DN 19)
COPERTURA: Gomma sintetica con elevata resistenza all'ozono, all'abrasione ed agli agenti atmosferici
SPECIFICHE: MANULI® Design - ISO 6807-D (DN 76), eccede ISO 3862 R15
OMOLOGAZIONI: ABS (DN 25÷76), GOST-R, MSHA, LOBA, FRAS

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FIREND

FIRE SUPPRESSION SYSTEMS



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01124006*	6	-04	1/4"	11,0	0,43	13,0	0,51	225	3260	900	13050	100	3,94	220	0,15	MF+M03400-04
H01124010*	10	-06	3/8"	15,0	0,59	17,0	0,67	180	2610	720	10440	127	5,00	325	0,22	MF+M03400-06
H01124012*	12	-08	1/2"	18,1	0,71	20,1	0,79	160	2320	640	9280	178	7,01	410	0,28	MF+M03400-08
H01124019*	19	-12	3/4"	25,3	1,00	27,9	1,10	105	1520	420	6090	240	9,45	660	0,44	MF+M03400-12
new H01124025*	25	-16	1"	33,1	1,30	35,7	1,41	88	1270	350	5070	300	11,81	980	0,66	MF+M03400-16

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

SAE 100R1S and ISO 1SN rated working pressure ■ Flame retardant red cover ■ Excellent performance for standard hydraulic applications ■ Embossed indelible branding ■ No skive MF2000 (two-pieces)

Resistencia a la presión según SAE 100R1S y ISO 1SN ■ Cubierta roja con retardante a la llama ■ Excelentes características para aplicaciones hydráulicas estándar ■ Marcada en reliebe ■ Racores para No pelar MF2000 (dos piezas)

Extrem hohe Druckbeständigkeit gemäß SAE 100R1S und ISO 1SN ■ Feuerhemmende rote Außenhülle ■ Ausgezeichnete Leistung bei allen hydraulischen Standardanwendungen ■ Nicht entfernbare eingeprägte Kennzeichnung ■ MF2000 (zweiteilig) Nichtschäl-Fassungen und Armaturen

Resistenza alla pressione secondo le norme SAE 100R1S e ISO 1SN ■ Copertura rossa ritardante di infiammabilità ■ Eccellenti performance per tutte le comuni applicazioni idrauliche ■ Marcatura in rilievo indelebile ■ Raccordi senza pelatura esterna MF2000 (due pezzi)

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MAIN APPLICATIONS
Use in fire suppression systems of off-road vehicles, mining equipment, stationary engines. The hose present red cover for easy identification in the fire suppression system
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F 40°C / +100°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils, glycols and polyglycols, mineral oils in aqueous emulsion, water, water based fire extinguishing agents

INSERT: MF2000® (no-skive) – MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: One high tensile steel wire braid
COVER: Red synthetic rubber with high ozone, abrasion and weather resistance
APPLICABLE SPECS.: ISO 1436-1SN, SAE J517 type 100R1S and R1AT, EN 853 1SN
TYPE APPROVALS: MSHA, GOST-R

ES

PRINCIPALES APLICACIONES
Use en los sistemas de supresión de fuego de vehículos móbiles, equipos para mineria, artefactos estacionarios. La manguera presenta la cubierta roja para una identificación fácil en el sistema de supresión de fuego
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
FLUIDOS RECOMENDADOS
Aceites minerales, acetes vegetales y sintéticos con base ester, glicoles y polyglicoles, aceites minerales en emulsión de agua, agua, agua basada en agentes que extinguen el fuego

ESPIGA: MF2000® (no-skive) – MULTIFIT TYPE
TUBO: Caucho sintético resistente al aceite
REFUERZO: Una malla de acero reforzado
CUBIERTA: Caucho sisntético Rojo, resistente al ozono, abrasión y ambiente
ESPECIFICACIONES APLICABLES: ISO 1436-1SN, SAE J517 tipo 100R1S y R1AT, EN 853 1SN
APROBACIONES: MSHA, GOST-R

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D

HAUPT-ANWENDUNGSGEBIET
Ideal für Brandschutzsysteme in Offroad-Fahrzeugen, Bergbaugeräten und stationären Generatoren. Der Schlauch ist mit einer roten Außenhülle versehen, dadurch ist er in den Brandschutzsystemen einfach und schnell erkennbar
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl und Öl auf Synthetik-Esterbasis, Öl auf Glykol- und Polyglykolbasis, Mineralöl-/Wasseremulsionen, Wasser, flammenhemmende Substanzen auf Wasserbasis

NIPPEL: MF2000® (no-skive) – MULTIFIT TYPE
SEELE: Ölbeständiges synthetisches Elastomer
DRUCKTRÄGER: Ein hochzugfestes Stahldrahtgeflecht
DECKE: Rotes synthetisches Elastomer mit hoher Ozon-, Abrieb- und Wetterbeständigkeit
ANGEWANDTE NORM: ISO 1436-1SN, SAE J517 typ 100R1S und R1AT, EN 853 1SN
ZULASSUNGEN: MSHA, GOST-R

IT

PRINCIPALI APPLICAZIONI
Sistemi anti-incendio nei veicoli fuori-strada, macchinari per miniera, motori generatori stazionari. Il tubo ha una copertura di colore rosso per essere identificato facilmente all'interno dei sistemi anti-incendio
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e oli a base di esteri sintetici, oli a base di glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua, agenti anti-infiammabili di natura acquosa

INSERTO: MF2000® (no-skive) – MULTIFIT TYPE
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Una treccia di acciaio ad alto carico
COPERTURA: gomma sintetica rossa resistente a ozono, abrasione e agenti atmosferici
SPECIFICHE: ISO 1436-1SN, SAE J517 tipo 100R1S e R1AT, EN 853 1SN
OMOLOGAZIONI: MSHA, GOST-R

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GOLDENMINE new

OUTSTANDING ABRASION RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H10091063*	63	-40	2-1/2"	77,5	3,05	81,5	3,21	200	2900	800	11600	700	27,56	5890	3,96	IP+M01500-40
H10091076*	76	-48	3"	87,8	3,46	92,2	3,63	140	2030	560	8120	700	27,56	5900	3,96	IP+M01500-48

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

Extreme abrasion resistance ■ High ozone and weather resistance ■ Flame retardant and antistatic cover ■ Superior pressure rating ■ Structure robustness for tough handling

Extrema resistencia a la abrasión ■ Alta resistencia al ozono y a la intemperie ■ Cubierta con retardante a llama y electricidad antiestática ■ Alta presión de trabajo ■ Estructura robusta y resistente

Extreme Abriebbeständigkeit ■ Hohe Ozon- und Wetterbeständigkeit ■ Antistatische Decke ■ Exzellente Druckbeständigkeit ■ Robuste Struktur für widrige Verarbeit hungs - und Handlingsbedingungen

Estrema resistenza all'abrasione ■ Elevata resistenza all'ozono ed agli agenti atmosferici ■ Copertura resistente alla propagazione di fiamma e antistatica ■ Pressioni di esercizio superiori ■ Struttura robusta per severe manipolazioni

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MAIN APPLICATIONS
Mine hydraulic return lines, medium pressure hydraulic lines with high flow rates, long walls water lines
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils, glycols and polyglycols, mineral oils in aqueous emulsion, water

INSERT: MF2000® - INTERLOCK PLUS
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Four high tensile steel spirals
COVER: Synthetic rubber with high abrasion, ozone and weather resistance
APPLICABLE SPECS.: MANULI® design
TYPE APPROVALS: MSHA, GOST-R

ES

PRINCIPALES APLICACIONES
Líneas de retorno hidráulico en Minería, líneas de media presión hidráulica con gran caudal, líneas de refrigeración de agua
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal, aceites con base en éster sintético, aceites basados en glicoles y poliglicoles, aceite en emulsión acuosa, agua

ESPIGA: MF2000® - INTERLOCK PLUS
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Cuatro refuerzos en espiral de acero de alta resistencia
CUBIERTA: Caucho sintético con alta resistencia al ozono, a la abrasion y a la intemperie
ESPECIFICACIONES APLICABLES: Diseño MANULI®
APROBACIONES: MSHA, GOST-R

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D

ANWENDUNGSBEREICH
Rücklaufleitungen in Bergbau, Hydraulikleitungen mit durchschnittlichem Druck und hohen Volumenströmen, Longwall Wasserleitungen
KONTINUIERLICHER BETRIEBSTEMPERATURBEREICH
-40°F / +212°F -40°C / +100°C
EMPFOHLENE FLÜSSIGKEITEN
Mineralöle, pflanzliche und synthetische esterbasierende Öle, Glykole und Polyglykole, Mineralöle in wässriger Emulsion, Wasser

EINSATZ: MF2000® - INTERLOCK PLUS
SCHLAUCH: Ölbeständiges Synthetikgummi
DRUCKTRÄGER: Vier hochzugfeste Drahtspiralen
DECKE: Synthetikgummi mit hoher Abrieb-, Ozon- und Wetterbeständigkeit
ANGEWANDTE NORMEN: MANULI® design
ZULASSUNGEN: MSHA, GOST-R

IT

MAIN APPLICATIONS
Linee di ritorno idrauliche in applicazione miniera, linee idrauliche di media pressione con alto flusso - Linee acqua in applicazioni "long wall"
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
RECOMMENDED FLUIDS
Oli minerali, vegetali e sintetici a base di esteri, glicoli e poliglicoli, oli minerali in emulsione acquosa, acqua

INSERT: MF2000® - INTERLOCK PLUS
TUBE: Gomma sintetica resistente all'olio
REINFORCEMENT: Quattro spirali in acciaio ad alto carico
COVER: Gomma sintetica con alta resistenza all'ozono, all'abrasione ed agli agenti atmosferici
APPLICABLE SPECS.: MANULI® design
TYPE APPROVALS: MSHA, GOST-R

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SHIELDMASTER®/2 PLUS MINE

OUTSTANDING ABRASION RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01122006*	6	-04	1/4"	11,3	0,44	13,1	0,52	450	6520	1800	26100	45	1,77	285	0,19	MF+M03400-04
new H01122008*	8	-05	5/16"	12,9	0,51	14,7	0,58	400	5800	1600	23200	85	3,35	330	0,22	MF+M00120-05
H01122010*	10	-06	3/8"	16,7	0,66	18,5	0,73	400	5800	1600	23200	127	5,00	530	0,36	MF+M00910-06
H01122012*	12	-08	1/2"	20,1	0,79	22,1	0,87	362	5250	1450	21030	150	5,91	710	0,48	MF+M00910-08
H01122019*	19	-12	3/4"	27,1	1,07	29,3	1,15	310	4490	1240	17980	230	9,06	1090	0,73	MF+M00920-12
H01122025*	25	-16	1"	35,1	1,38	37,8	1,49	240	3480	960	13920	300	11,81	1610	1,08	MF+M00920-16
H01122031*	31	-20	1.1/4"	44,5	1,75	47,2	1,86	175	2530	700	10150	380	14,96	2170	1,46	MF+M00920-20
H01122038*	38	-24	1.1/2"	51,0	2,01	53,7	2,11	146	2110	584	8470	450	17,72	2520	1,69	MF+M00910-24
H01122051*	51	-32	2"	62,8	2,47	65,5	2,58	130	1880	520	7540	600	23,62	3170	2,13	MF+M00910-32

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

MSHA approved composite cover for mining applications ■ Outstanding abrasion and ozone resistance ■ Easy assembling and mounting operations, no protection sleeves are required ■ Indelible branding with embossed technology ■ Reduced bend radius for difficult installations ■ Flame retardant and electrical antistaticity cover properties

Aprovación MSHA cubierta compuesta para aplicaciones mineras ■ Excelente resistencia a la abrasión y al ozono ■ Fácil de ensamblar y montar, no se requiere protecciones ■ Marcado en reliebe indeleble ■ Radio de curvatura reducido para instalaciones difíciles ■ Cubierta con retardante a la llama y electricidad antiestática

Außenhülle mit MSHA-Zertifikat, ideal für Bergbauanwendungen geeignet ■ Überragende Ozon- und Abriebbeständigkeit ■ Einfache Montage und leichter Einbau (es sind keine Schutzhandschuhe erforderlich) ■ Nicht entfernbare eingeprägte Kennzeichnung ■ Verringerter Biegeradius, optimal für schwer zugängliche Einsatzbereiche ■ Antistatische Außenhülle mit flammenhemmenden Eigenschaften

Copertura esterna approvata MSHA, ideale per applicazioni miniera ■ Eccellente resistenza ad abrasione ed ozono ■ Semplicità di assemblaggio e montaggio (non sono necessarie guaine di protezione esterne) ■ Marcatura a rilievo indelebile ■ Raggio di curvatura ridotto, ottimale in caso di installazioni difficoltose ■ Copertura con proprietà ritardanti la propagazione delle fiamme e antistaticità elettrica

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SHIELDMASTER®/2 PLUS MINE

TECHNICAL INFO

GB

MAIN APPLICATIONS
High pressure lines with installations constraints in heavy duty environmental conditions, specific installations with severe abrasion conditions, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water

TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two wire braids of high tensile steel wire
COVER: Composite bi-layer structure with outstanding abrasion & ozone resistance
APPLICABLE SPECS.: EN 853 type 2SN - ISO 1436-1 type 2SN - SAE J517 type 100R2AT
Exceed performances of:
- BCS 174 (British Coal Specification 1992)
- ISO 6805 type 4 (Rubber hoses and hose assemblies for underground mining - Wire reinforced hydraulic types for coal mining)
TYPE APPROVALS: MSHA, LOBA, GOST-R (FRAS, MA requested)

ES

PRINCIPALES APLICACIONES
Líneas de alta presión con instalaciones constreñidas en condiciones medioambientales muy duras, instalaciones con severas condiciones de abrasión, minas de subsuelo y abiertas
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal y aceite con base en éster sintético (hasta +212°F / +100°C), glicoles y poliglicoles, aceite en emulsión acuosa, agua

TUBO: Caucho sintético, resistente al aceite
REFUERZO: Dos trenzas de acero de alta rersistencia
CUBIERTA: Estructura compuesta con bi-capa con excelente resistencia a la abrasión y al ozono
ESPECIFICACIONES APLICABLES: EN 853 tipo 2SN - ISO 1436-1 tipo 2SN - SAE J517 tipo 100R2AT
Excede las características de:
- BCS 174 (especificación 1992 del carbón británico)
- ISO 6805 tipo 4 (Mangueras de caucho y ensamblajes para minas - malla de acero reforzada tipo hidráulico para minas de carbón)
APROBACIONES: MSHA, LOBA, GOST-R (FRAS, MA requerido)

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D

HAUPTANWENDUNGSGEBIETE
Hochdruckleitungen in schwer zugänglichen Bereichen, die extremen Umweltbedingungen ausgesetzt sind, Anwendungsbereiche mit übermäßigem Abrieb, Übertage- und Untertagebergbau
TEMPERATURBEREICH FÜR DEN DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAXIMALE BETRIEBSTEMPERATUR
(Intermittierender Betrieb) +257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl und Öl auf Synthetik-Esterbasis (bis zu +212°F / +100°C), Glykol und Polyglykol, Mineralöl-/Wasseremulsionen, Wasser

SEELE: Ölbeständiges synthetisches Elastomer
DRUCKTRÄGER: Zwei hochzugfeste Streifen aus Stahldrahtgeflecht
DECKE: Zweischichtige Struktur mit ausgezeichneter Abrieb- und Ozonbeständigkeit
SPEZIFIZIERUNG: EN 853 2SN - ISO 1436-1 2SN - SAE J517 100R2AT
Übertrifft die Anforderungen der folgenden Normen:
- BCS 174 (British Coal Specification 1992)
- ISO 6805 Typ 4 (Gummischläuche und –schlauchleitungen für den untertägigen Bergbau – Hydraulikschläuche mit Stahldrahteinlagen für den Kohlebergbau)
ZULASSUNGEN: MSHA, LOBA, GOST-R (FRAS, MA requested)

IT

PRINCIPALI APPLICAZIONI
Linee ad alta pressione con difficoltà di installazione e condizioni ambientali estreme, installazioni con condizioni di abrasione estreme, miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e a base di esteri sintetici (fino a +212°F / +100°C), glicoli e poliglicoli, minerali in emulsione acquosa, acqua

SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Due trecce di acciaio ad alto carico
COPERTURA: Struttura bi-strato con eccellente resistenza all'abrasione e all'ozono
SPECIFICHE: EN 853 2SN - ISO 1436-1 2SN - SAE J517 100R2AT
Eccede:
- BCS 174 (British Coal Specification 1992)
- ISO 6805 tipo 4 (tubi in gomma e tubi assemblati per miniere sotterranee - modelli idraulici in acciaio rinforzato per estrazioni di carbone)
OMOLOGAZIONI: MSHA, LOBA, GOST-R (FRAS, MA richiesto)

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FLUIDTECHNIK S.R.L.0723 382 199

SHIELDMASTER®/5000 MINE

OUTSTANDING ABRASION RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H01104006*	6	-04	1/4"	11,6	0,46	13,6	0,54	345	5000	1380	20010	50	1,97	280	0,19	MF+M00120-04
H01104008*	8	-05	5/16"	12,9	0,51	15,1	0,59	345	5000	1380	20010	55	2,17	350	0,24	MF+M00120-05
H01104010*	10	-06	3/8"	15,0	0,59	17,2	0,68	345	5000	1380	20010	65	2,56	410	0,28	MF+M00120-06
H01104012*	12	-08	1/2"	19,8	0,78	22,2	0,87	345	5000	1380	20010	120	4,72	670	0,45	MF+M00910-08
H01104016*	16	-10	5/8"	24,4	0,96	27,2	1,07	345	5000	1380	20010	200	7,87	1030	0,69	MF+M00910-10
H01104019*	19	-12	3/4"	28,2	1,11	31,2	1,23	345	5000	1380	20010	230	9,06	1420	0,95	IP+M01500-12
H01104025*	25	-16	1"	35,1	1,38	38,1	1,50	345	5000	1380	20010	267	10,51	1990	1,34	IP+M01500-16
H01104031*	31	-20	1.1/4"	42,2	1,66	45,2	1,78	345	5000	1380	20010	350	13,78	2500	1,68	IP+M01500-20

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

MSHA approved cover for mining applications ■ Outstanding abrasion and ozone resistance ■ Compact overall dimensions ■ Easy assembly and mounting operations (no protection sleeves required) ■ Indelible branding with embossed technology

Cubierta especial, con aprobación MSHA para aplicaciones de minería ■ Gran resistencia a la abrasión y al ozono ■ Dimensiones generales estándar ■ Fácil ensamble y montaje (no se requiere protección externa) ■ Marcado en reliebe

Decke mit MSHA Zulassung für den Bergbau ■ Außerordentliche Abrieb- und Ozonbeständigkeit ■ Standardmaße ■ Leichte Montage (Keine Scheuerschutzwendel nötig) ■ Isobarische Druck-Reihe ■ Nicht entfernbare, eingeprägte Kennzeichnung

Copertura composita esterna approvata MSHA ideale per applicazioni miniera ■ Eccellente resistenza all'abrasione e all'ozono ■ Struttura compatta ■ Semplicità di assemblaggio e montaggio (non sono necessarie guaine di protezione esterne) ■ Pressioni di esercizio isobariche ■ Marcatura a rilievo indelebile

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SHIELDMASTER®/5000 MINE

TECHNICAL INFO

GB

MAIN APPLICATIONS
High pressure lines with installation contraints in heavy duty environmental conditions, specific installations with severe abrasion conditions, underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water

INSERT: MF2000® - MULTIFIT TYPE (DN 6÷16)
MF2000® - INTERLOCK PLUS TYPE (DN 19÷31)
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two high tensile steel braids (DN 6÷12). Four high tensile steel spirals (DN 16÷31)
COVER: Composite bi-layer structure with oustanding abrasion resistance
APPLICABLE SPECS.: MANULI® Design, ISO 3862-R13
TYPE APPROVALS: GOST-R, MSHA, LOBA

ES

PRINCIPALES APLICACIONES
Líneas de presión para trabajo pesado con extremas condiciones de abrasión (Ej. Mangueras rozando entre si, contactos con bordes cortantes y partículas/cuerpos extraños, abrasión debida a deslizamiento sobre el suelo, evita el uso de protectores de cubierta en espiral tipo coil
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceite vegetal, aceites con base en éster sintético (hasta +212°F / +100°C), aceites basados en glicoles y poliglicoles, aceite en emulsión acuosa y agua

ESPIGA: MF2000® - TIPO MULTIFIT (DN 6÷16)
MF2000® - TIPO INTERLOCK PLUS (DN 19÷31)
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Dos refuerzos trenzados de acero de alta resistencia (DN 6÷12). Cuatro refuerzos en espiral de acero de alta resistencia (DN 16÷31)
CUBIERTA: Estructura de compuesto de doble capa con gran resistencia a la abrasión
ESPECIFICACIONES APLICABLES: Diseño MANULI®, ISO 3862-R13
APROBACIONES: GOST-R, MSHA, LOBA

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D

HAUPT-ANWENDUNGSGEBIET
Hoch belastbare Leitung mit hoher Abriebbeständigkeit (gebündelte Schlauchleitungen, lokalisierte Kontakte mit scharfen Kanten und Fremdkörper Partikel, Verschleiß durch am Boden schleifen, alternativ zu Scheuerschutzwendel)
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAX. BETRIEBSTEMPERATUR
(Intermittierender Betrieb) +257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl, Glykol, Öl auf Polyglykolbasis, Wasser/Mineralölemulsion, Synthetik-Esterbasis bis +212°F / +100°C Wasser

NIPPEL: MF2000® - MULTIFIT (DN 6÷16)
MF2000® - INTERLOCK PLUS (DN 19÷31)
SEELE: Ölbeständiges synthetisches Gummi
DRUCKTRÄGER: Zwei hochzugfeste Stahldrahtgeflechte (DN 6÷12). Vier hochzugfeste Stahldrahtspiralen (DN 16÷31)
DECKE: Gemaischte Doppel-Lagen Struktur mit außerordentlicher Abriebbeständigkeit
ANGEWANDTE NORM: MANULI® Design, ISO 3862-R13
ZULASSUNGEN: GOST-R, MSHA, LOBA

IT

PRINCIPALI APPLICAZIONI
Ideale per applicazioni severe in condizioni di abrasione estreme (ad es. fasci di tubi, contatti con spigoli vivi e corpi/particelle esterne, usura dovuta a contatto continuo con il terreno, alternativa a molle/guaine di protezione)
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e di colza, glicoli e poliglicoli, oli a base di esteri sintetici (fino a +212°F / +100°C), oli in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO MULTIFIT (DN 6÷16)
MF2000® - TIPO INTERLOCK PLUS (DN 19÷31)
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Due trecce di acciaio ad alto carico (DN 6÷12). Quattro spirali di acciaio ad alto carico (DN 16÷31)
COPERTURA: Struttura composita bi-strato con eccellente resistenza all'abrasione
SPECIFICHE: MANULI® Design, ISO 3862-R13
OMOLOGAZIONI: GOST-R, MSHA, LOBA

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SHIELDMASTER®/6000 MINE

OUTSTANDING ABRASION RESISTANCE



PART. REF.	HOSE SIZE			R.O.D.		O.D.		MAX W.P.		BURST PRESSURE		MIN. BEND RADIUS		WEIGHT		FITTING
	DN	dash	inch	mm	inch	mm	inch	bar	psi	bar	psi	mm	inch	g/m	lb/ft	
H10086031*	31	-20	1.1/4"	46,3	1,82	49,5	1,95	420	6090	1680	24360	260	10,24	3760	2,53	IP+M01600-20
H10086038*	38	-24	1.1/2"	54,6	2,15	57,8	2,28	420	6090	1680	24360	310	12,20	4850	3,26	IP+M01600-24
H10086051*	51	-32	2"	68,4	2,69	72,0	2,83	420	6090	1680	24360	600	23,62	6860	4,61	XL+M01800-32

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

MSHA approved composite cover for mining applications ■ Outstanding abrasion and ozone resistance ■ Easy assembling and mounting operations ■ No protection sleeves are required ■ Indelible branding with embossed technology ■ Reduced bend radius for difficult installations ■ Flame retardant and electrical antistaticity cover properties

Aprovación MSHA cubierta compuesta para aplicaciones mineras ■ Excelente resistencia a la abrasión y al ozono ■ Fácil de ensamblar y montar, no se requiere protecciones ■ Marcado en reliebe indeleble ■ Radio de curvatura reducido para instalaciones difíciles ■ Cubierta con retardante a la llama y electricidad antiestática

Außenhülle mit MSHA-Zertifikat, ideal für den Einsatz in Bergbauanwendungen ■ Überragende Ozon- und Abriebbeständigkeit ■ Einfache Montage und leichter Einbau (es sind keine Schutzhandschuhe erforderlich) ■ Nicht entfernbare eingeprägte Kennzeichnung ■ Verringerter Biegeradius, optimal für schwer zugängliche Einsatzbereiche ■ Antistatische Außenhülle mit flammenhemmenden Eigenschaften

Copertura esterna approvata MSHA, ideale per applicazioni miniera ■ Eccellente resistenza ad abrasione ed ozono ■ Semplicità di assemblaggio e montaggio (non sono necessarie guaine di protezione esterne) ■ Marcatura a rilievo indelebile ■ Raggio di curvatura ridotto, ottimale in caso di installazioni difficoltose ■ Copertura con proprietà ritardanti la propagazione delle fiamme e antistaticità elettrica

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SHIELDMASTER®/6000 MINE

TECHNICAL INFO

GB

MAIN APPLICATIONS
Heavy duty power lines with extreme abrasion conditions (e.g. bunches of hoses, localised contacts with sharp edges, and extraneous bodies/particles, wear due to sliding over the ground, alternative to spring guards), underground and open pit mining
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C
MAX OPERATING TEMPERATURE
(Intermittent service) +257°F +125°C
RECOMMENDED FLUIDS
Mineral oils, vegetable oils and synthetic ester based oils (up to +212°F / +100°C), glycols and polyglycols, mineral oils in aqueous emulsion, water

INSERT: MF2000® - INTERLOCK PLUS TYPE (DN 31÷38)
MF2000® - XTRALOCK (DN 51)
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: 6 high tensile steel wire spirals
COVER: Composite bi-layer structure with outstanding abrasion and ozone resistance.
APPLICABLE SPECS.: ISO 3862-1 type R15 - SAE J517 type 100R15
Exceed performances of:
- BCS 174 (British Coal Specification 1992)
- ISO 6805 type 6 (Rubber hoses and hose assemblies for underground mining - Wire reinforced hydraulic types for coal mining)
TYPE APPROVALS: MSHA, LOBA, GOST-R (FRAS, B, MA requested)

ES

PRINCIPALES APLICACIONES
líneas de muy alta presión con condiciones extremas de abrasión (ejemplo, los manojos de mangueras, contactos localizados con bordes afilados, y cuerpos/partículas extraña, uso debido a resbalar encima de la tierra, alternativa a las protecciones), minas subterráneas y abiertas
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C
MÁXIMA TEMPERATURA DE OPERACIÓN
(Servicio intermitente) +257°F +125°C
FLUIDOS RECOMENDADOS
Aceite mineral, aceites vegetales y aceites basados en éster sintético (hasta +212°F / +100°C), glicoles y poliglicoles, aceite mineral en emulsión acuosa, agua

ESPIGA: MF2000® - TIPO INTERLOCK PLUS (DN 31÷38)
MF2000® - XTRALOCK (DN 51)
TUBO: Caucho sintético, resistente al aceite
REFUERZO: 6 espirales de acero reforzado
CUBIERTA: Estructura compuesta con bi-capa con excelente resistencia a la abrasión y al ozono.
ESPECIFICACIONES APLICABLES: ISO 3862-1 tipo R15 - SAE J517 tipo 100R15
Excede las características de:
- BCS 174 (especificación 1992 del carbón británico)
- ISO 6805 tipo 6 (Mangueras de caucho y ensamblajes para minas - malla de acero reforzada tipo hidráulico para minas de carbón)
APROBACIONES: MSHA, LOBA, GOST-R (FRAS, B, MA requerido

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPTANWENDUNGSBEREICHE
Ideal für hochbeanspruchte Anwendungen unter extremen Abriebbedingungen (z.B. Schlauchbündel, Kontakt mit scharfen Kanten und äußeren Einflüssen/Partikeln, Verschleiß durch kontinuierlichen Schleifkontakt mit dem Boden, Alternativen zu Schutzfedern), Untertage- und Übertagebergbau
TEMPERATURBEREICH FÜR DEN DAUERBETRIEB
-40°F / +212°F -40°C / +100°C
MAXIMALE BETRIEBSTEMPERATUR
(Intermittierender Betrieb) +257°F +125°C
EMPFOHLENE MEDIEN
Mineralöl, Pflanzenöl und Öl auf Synthetik-Esterbasis (bis zu +212°F / +100°C), Glykol und Polyglykol, Mineralöl-/Wasseremulsionen, Wasser

NIPPEL: MF2000® - INTERLOCK PLUS TYPE (DN 31÷38)
MF2000® - XTRALOCK (DN 51)
SEELE: Ölbeständiges synthetisches Elastomer
DRUCKTRÄGER: Sechs hochzugfeste Streifen aus Stahldrahtgeflecht
DECKE: Zweischichtiger Kompositaufbau mit ausgezeichneter Abrieb- und Ozonbeständigkeit.
SPEZIFIZIERUNG: ISO 3862-1R15 - SAE J517 100R16
Übertrifft die Anforderungen der folgenden Normen:
- BCS 174 (British Coal Specification 1992)
- ISO 6805 Typ 6 (Gummischläuche und – schlauchleitungen für den untertägigen Bergbau – Hydraulikschläuche mit Stahldrahteinlagen für den Kohlebergbau)
ZULASSUNGEN: MSHA, LOBA, GOST-R (FRAS, B, MA requested)

IT

PRINCIPALI APPLICAZIONI
Ideale per applicazioni severe in condizioni di abrasione estreme (ad es. fasci di tubi, contatti con spigoli vivi e corpi/particelle esterne, usura dovuta a contatto continuo con il terreno, alternativa a molle/guaine di protezione)
Miniere sotterranee e a cielo aperto
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C
PICCO DI TEMPERATURA MASSIMA
(Servizio Intermittente) +257°F +125°C
FLUIDI RACCOMANDATI
Oli minerali, oli vegetali e a base di esteri sintetici (fino a +212°F / +100°C), glicoli e poliglicoli, minerali in emulsione acquosa, acqua

INSERTO: MF2000® - TIPO INTERLOCK PLUS (DN 31÷38)
MF2000® - XTRALOCK (DN 51)
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: 6 trecce di acciaio ad alto carico
COPERTURA: Struttura composita bi-strato con eccellente resistenza all'abrasione e all'ozono.
SPECIFICHE: ISO 3862-1R15 - SAE J517 100R16
Eccede:
- BCS 174 (British Coal Specification 1992)
- ISO 6805 6 ((tubi in gomma e tubi assemblati per miniere sotterranee - modelli idraulici in acciaio rinforzato per estrazioni di carbone)
OMOLOGAZIONI: MSHA, LOBA, GOST-R (FRAS, B, MA richiesto)

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CPH/2SC

CABLE PROTECTION HOSE



PART. REF.	HOSE SIZE				R.O.D.		O.D.		WEIGHT		FERRULE
	DN	dash	mm	inch	mm	inch	mm	inch	g/m	lb/ft	
H01033010*	10	-06	9,5	3/8"	15,0	0,59	16,8	0,66	395	0,27	M03400-06
H01033012*	12	-08	12,7	1/2"	18,5	0,73	20,3	0,80	495	0,33	M03400-08
H01033019*	19	-12	19,0	3/4"	25,6	1,01	27,6	1,09	815	0,55	M03400-12

* **See appendix, page 938** / Ver nota en apéndice, página 938 / Siehe Anhang, Seite 938 / Vedi appendice, pagina 938.

High flexibility ■ Low weight ■ High-tech manufacturing process ■ Easy routing ■ Blue flame retardant cover ■ MSHA approved

Alta Flexibilidad ■ Bajo Peso ■ Proceso de alta tecnología ■ Ruta fácil ■ Cubierta azul con retardante a llama ■ aprovación MSHA

Extrem hohe Flexibilität ■ Reduziertes Gewicht ■ High-tech Produktionsprozess ■ Einfache Installation ■ Blaue flammenhemmende Außenhülle, MSHA-zertifiziert

Alta flessibilità ■ Peso ridotto ■ Processo produttivo high-tech ■ Semplicità di installazione ■ Copertura blu resistente alla propagazione di fiamma ■ Omologazione MSHA

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GB

MAIN APPLICATIONS
Cable protection hose for mining applications.
CONTINUOUS SERVICE TEMPERATURE RANGE
-40°F / +212°F -40°C / +100°C

INSERT: MF2000® - MULTIFIT TYPE
TUBE: Oil resistant synthetic rubber
REINFORCEMENT: Two high tensile steel braids
COVER: Blue synthetic rubber with high ozone and weather resistance
APPLICABLE SPECS.: MANULI design
TYPE APPROVALS: LOBA, MSHA, GOST-R

ES

PRINCIPALES APLICACIONES
Cable de protección de manguera para aplicaciones mineras.
TEMPERATURA CONTINUA DE SERVICIO
-40°F / +212°F -40°C / +100°C

ESPIGA: MF2000® - TIPO MULTIFIT
TUBO: Caucho sintético, resistente al aceite
REFUERZO: Dos trenzas de acero de alta rersistencia
CUBIERTA: Caucho sintético azul con alta resistencia al ozono y a la intemperie
ESPECIFICACIONES APLICABLES: diseño Manuli
APROBACIONES: LOBA, MSHA, GOST-R

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D

HAUPT-ANWENDUNGSGEBIET
Kabelschutzschläuche für Bergbauanwendungen
DAUERBETRIEB
-40°F / +212°F -40°C / +100°C

NIPPEL: MF2000® - MULTIFIT
SEELE: Ölbeständiges synthetisches Elastomer
DRUCKTRÄGER: Zwei hochzugfeste Streifen aus Stahldrahtgeflecht
DECKE: Blaues synthetisches Elastomer mit hoher Ozon- und Wetterbeständigkeit
ANGEWANDTE NORM: MANULI® Design
ZULASSUNGEN: LOBA, MSHA, GOST-R

IT

PRINCIPALI APPLICAZIONI
Tubo protettivo per cavi per applicazioni miniera.
RANGE DI TEMPERATURA IN SERVIZIO CONTINUO
-40°F / +212°F -40°C / +100°C

INSERTO: MF2000® - TIPO MULTIFIT
SOTTOSTRATO: Gomma sintetica resistente agli oli
RINFORZO: Due trecce di acciaio ad alto carico
COPERTURA: Gomma sintetica blu resistente a ozono e agenti atmosferici
SPECIFICHE: MANULI® Design
OMOLOGAZIONI: LOBA, MSHA, GOST-R

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MINING

Fittings



Fluid connectors, solid solutions

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manuli® HYDRAULICS

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MULTIFIT INSERT

VISUAL INDEX

REFERENCE	DESCRIPTION	PAGE
MF2000® MULTIFIT TYPE FERRULE		
M03400 	**NO-SKIVE FERRULE FOR WIRE BRAID HOSES** CASQUILLO SIN PELADO PARA MANGUERAS CON TRENZA DE ACERO NICHTSCHÄLFASSUNG FÜR DRAHTGEFLECHTSCHLÄUCHE GHIERA PER TUBI TRECCIATI SENZA PELATURA	716
M00820/M00830 	**NO-SKIVE FERRULE FOR COMPACT HOSES** CASQUILLO SIN PELADO PARA MANGUERAS COMPACTAS NICHTSCHÄLFASSUNG FÜR KOMPAKTSCHLÄUCHE GHIERA PER TUBI COMPATTI SENZA PELATURA	717
M00110/M00120 	**SKIVE FERRULE FOR WIRE BRAID HOSES** CASQUILLO CON PELADO PARA MANGUERAS CON TRENZA DE ACERO SCHÄLFASSUNG FÜR DRAHTGEFLECHTSCHLÄUCHE GHIERA PER TUBI TRECCIATI CON PELATURA	718
M00910/M00920 	**SKIVE FERRULE FOR WIRE BRAID AND SPIRAL HOSES** CASQUILLO CON PELADO PARA MANGUERAS CON TRENZA Y ESPIRAL DE ACERO SCHÄLFASSUNG FÜR DRAHTGEFLECHT UND SPIRALSCHLÄUCHE GHIERA PER TUBI TRECCIATI E SPIRALATI CON PELATURA	718
MF2000® MULTIFIT TYPE INSERT		
M14810 	**STAPLE-LOCK MALE SAE J1467** MACHO STAPLE-LOCK SAE J1467 STAPLE-LOCK STECKVERBINDUNGEN SAE J1467 STAPLE-LOCK MASCHIO SAE J1467	719
M14610 	**SUPER STAPLE-LOCK MALE** MACHO SUPER STAPLE-LOCK SUPER STAPLE-LOCK STECKVERBINDUNGEN SUPER STAPLE-LOCK MASCHIO	719
M15910 	**LOW PRESSURE FLUSHFIT MALE** MACHO FLUSHFIT BAJA PRESIÓN NIEDRIGDRUCK F-FLUSHFIT STECKER FLUSHFIT MASCHIO BASSA PRESSIONE	720
M25910 	**LOW PRESSURE FLUSHFIT FEMALE** HEMBRA FLUSHFIT BAJA PRESIÓN NIEDRIGDRUCK M-FLUSHFIT BUCHSE FLUSHFIT FEMMINA BASSA PRESSIONE	720
MF2000® INTERLOCK PLUS TYPE FERRULE		
M01500 	**DOUBLE SKIVE FERRULE FOR HEAVY DUTY SPIRAL HOSES (4 PLY)** CASQUILLOS DE PELADO INTERNO Y EXTERNO PARA MANGUERAS CON REFUERZO EN ESPIRAL TRABAJO PESADO (4 ESPIRALES) PRESSFASSUNG INNEN- UND AUSSENSCHÄLUNG FÜR HÖCHSTDRUCKSCHLÄUCHE (4-LAGIG) GHIERA PER TUBI SPIRALATI CON DOPPIA PELATURA (4 SPIRALI)	721
M01600 	**DOUBLE SKIVE FERRULE FOR HEAVY DUTY SPIRAL HOSES (6 PLY)** CASQUILLOS DE PELADO INTERNO Y EXTERNO PARA MANGUERAS CON REFUERZO EN ESPIRAL TRABAJO PESADO (6 ESPIRALES) PRESSFASSUNG INNEN- UND AUSSENSCHÄLUNG FÜR HÖCHSTDRUCKSCHLÄUCHE (6-LAGIG) GHIERA PER TUBI SPIRALATI CON DOPPIA PELATURA (6 SPIRALI)	721

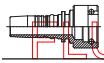
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REFERENCE	DESCRIPTION	PAGE
M01800 	**DOUBLE SKIVE FERRULE FOR EXTRA DUTY SPIRAL HOSES (6 PLY)** CASQUILLO DE PELADO INTERNO Y EXTERNO PARA MANGUERAS CON REFUERZO EN ESPIRAL (6 ESPIRALES) - TRABAJO PESADO FASSUNG FÜR INNEN/AUBENSCHÄLUNG FÜR HOCHLEISTUNGS-SPIRALSCHLÄUCHE (6-LAGIG) GHIERA A PELATURA INTERNA/ESTERNA PER TUBI SPIRALATI PER APPLICAZIONI ESTREMAMENTE SEVERE (6 SPIRALI)	721

MF2000® INTERLOCK PLUS TYPE INSERT

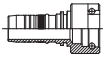
M34710 	**SUPER STAPLE-LOCK MALE** MACHO SUPER STAPLE-LOCK SUPER STAPLE-LOCK STECKVERBINDUNGEN ADATTATORE MACHIO SUPER STAPLE-LOCK	722
M36110 	**HIGH PRESSURE FLUSHFIT MALE** MACHO ALTA PRESIÓN FLUSHFIT FLUSHFIT HOCHDRUCKSTECKVERBINDUNG MASCHIO FLUSHFIT ALTA PRESSIONE	722
M46110 	**HIGH PRESSURE FLUSHFIT FEMALE** HEMBRA ALTA PRESIÓN FLUSHFIT FLUSHFIT HOCHDRUCKSTECKVERBINDUNG BUCHSE FLUSHFIT FEMMINA ALTA PRESSIONE	722

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MF2000® XTRALOCK TYPE FERRULE

M01800 	**DOUBLE SKIVE FERRULE FOR EXTRA DUTY SPIRAL HOSES (6 PLY)** CASQUILLO DE PELADO INTERNO Y EXTERNO PARA MANGUERAS CON REFUERZO EN ESPIRAL (6 ESPIRALES) - TRABAJO PESADO FASSUNG FÜR INNEN/AUBENSCHÄLUNG FÜR HOCHLEISTUNGS-SPIRALSCHLÄUCHE (6-LAGIG) GHIERA A PELATURA INTERNA/ESTERNA PER TUBI SPIRALATI PER APPLICAZIONI ESTREMAMENTE SEVERE (6 SPIRALI)	723

MF2000® XTRALOCK TYPE INSERT

M54610 	**SUPER STAPLE-LOCK MALE** MACHO SUPER STAPLE-LOCK SUPER STAPLE-LOCK STECKVERBINDUNGEN SUPER STAPLE-LOCK MASCHIO	724
M56110 	**HIGH PRESSURE FLUSHFIT MALE** MACHO ALTA PRESIÓN FLUSHFIT FLUSHFIT HOCHDRUCKSTECKVERBINDUNG MASCHIO FLUSHFIT ALTA PRESSIONE	724
M66110 	**HIGH PRESSURE FLUSHFIT FEMALE** HEMBRA ALTA PRESIÓN FLUSHFIT FLUSHFIT HOCHDRUCKSTECKVERBINDUNG BUCHSE FLUSHFIT FEMMINA ALTA PRESSIONE	724

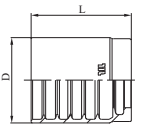
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MULTIFIT INSERT

FERRULE

M03400

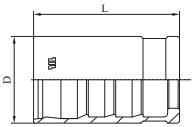
NO-SKIVE FERRULE FOR WIRE BRAID HOSES
CASQUILLO SIN PELADO PARA MANGUERAS CON TRENZA DE ACERO
NICHTSCHÄLFASSUNG FÜR DRAHTGEFLECHTSCHLÄUCHE
GHIERA PER TUBI TRECCIATI SENZA PELATURA



PART. REF.	HOSE BORE			DIMENSIONS mm					
	DN	inch	Size	D	L				
M03400-03	5	3/16″	- 03	21,0	23,0				
M03400-04	6	1/4″	- 04	23,0	30,1				
M03400-05	8	5/16″	- 05	24,0	30,0				
M03400-06	10	3/8″	- 06	26,0	31,1				
M03400-08	12	1/2″	- 08	29,0	33,4				
M03400-10	16	5/8″	- 10	33,0	37,0				
M03400-12	19	3/4″	- 12	37,0	42,0				
M03400-16	25	1″	- 16	46,0	51,0				
M03400-20	31	1.1/4″	- 20	59,0	57,2				
M03400-24	38	1.1/2″	- 24	67,0	64,8				
M03400-32	51	2″	- 32	80,0	68,3				
M03400-38	60	2.3/8″	- 38	82,5	69,0				
M03400-40	63	2.1/2″	- 40	88,2	68,8				
M03400-48	76	3″	- 48	103,0	75,0				

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M00820/M00830

NO-SKIVE FERRULE FOR COMPACT HOSES
CASQUILLO SIN PELADO PARA MANGUERAS COMPACTAS
NICHTSCHÄLFASSUNG FÜR KOMPAKTSCHLÄUCHE
GHIERA PER TUBI COMPATTI SENZA PELATURA

PART. REF.	HOSE BORE			DIMENSIONS mm					
	DN	inch	Size	D	L				
M00820-03	5	3/16"	- 03	14,0	26,4				
new M00830-04	6	1/4"	- 04	18,0	29,6				
new M00830-05	8	5/16"	- 05	19,0	31,9				
M00820-06	10	3/8"	- 06	22,0	33,0				
M00820-08	12	1/2"	- 08	26,0	33,9				
M00820-10	16	5/8"	- 10	29,0	35,9				
M00820-12	19	3/4"	- 12	33,0	41,7				
M00820-16	25	1"	- 16	41,0	49,7				
M00820-20	31	1.1/4"	- 20	48,0	57,0				
M00820-24	38	1.1/2"	- 24	55,5	66,0				
M00820-32	51	2"	- 32	68,6	70,0				

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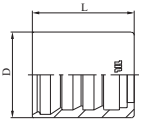
MULTIFIT INSERT

MF2000®

FERRULE

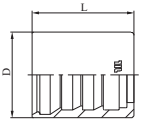
M00110

SKIVE FERRULE FOR WIRE BRAID HOSES
CASQUILLO CON PELADO PARA MANGUERAS CON TRENZA DE ACERO
SCHÄLFASSUNG FÜR DRAHTGEFLECHTSCHLÄUCHE
GHIERA PER TUBI TRECCIATI CON PELATURA



M00120

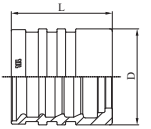
SKIVE FERRULE FOR WIRE BRAID HOSES
CASQUILLO CON PELADO PARA MANGUERAS CON TRENZA DE ACERO
SCHÄLFASSUNG FÜR DRAHTGEFLECHTSCHLÄUCHE
GHIERA PER TUBI TRECCIATI CON PELATURA



PART. REF.	HOSE BORE			DIMENSIONS mm					
	DN	inch	Size	D	L				
M00120-03	5	3/16″	- 03	17,0	23,9				
M00120-04	6	1/4″	- 04	19,5	28,0				
M00120-05	8	5/16″	- 05	20,0	28,6				
M00120-06	10	3/8″	- 06	23,0	30,0				
M00120-08	12	1/2″	- 08	26,7	32,0				
M00120-10	16	5/8″	- 10	32,0	38,0				
M00120-12	19	3/4″	- 12	35,8	41,7				
M00120-16	25	1″	- 16	43,0	47,0				
M00110-20	31	1.1/4″	- 20	50,5	59,0				
M00110-24	38	1.1/2″	- 24	57,0	70,0				
M00110-32	51	1″	- 32	70,0	72,0				

M00910/M00920

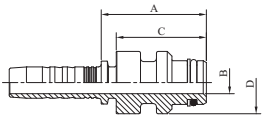
SKIVE FERRULE FOR WIRE BRAID AND SPIRAL HOSES
CASQUILLO CON PELADO PARA MANGUERAS CON TRENZA Y ESPIRAL DE ACERO
SCHÄLFASSUNG FÜR DRAHTGEFLECHT UND SPIRALSCHLÄUCHE
GHIERA PER TUBI TRECCIATI E SPIRALATI CON PELATURA



PART. REF.	HOSE BORE			DIMENSIONS mm					
	DN	inch	Size	D	L				
M00910-03	5	3/16″	- 03	20,6	26,0				
M00910-04	6	1/4″	- 04	22,0	30,0				
M00910-05	8	5/16″	- 05	24,0	31,0				
M00910-06	10	3/8″	- 06	26,0	33,0				
M00910-08	12	1/2″	- 08	30,0	34,0				
M00910-10	16	5/8″	- 10	33,0	39,0				
M00920-12	19	3/4″	- 12	38,0	40,0				
M00920-16	25	1″	- 16	46,0	54,0				
M00920-20	31	1.1/4″	- 20	57,0	60,0				
M00910-24	38	1.1/2″	- 24	65,0	70,0				
M00910-32	51	2″	- 32	79,0	72,0				

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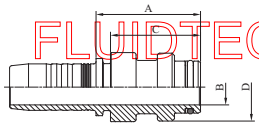
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M14810

STAPLE-LOCK MALE SAE J1467
MACHO STAPLE-LOCK SAE J1467
STAPLE-LOCK STECKVERBINDUNGEN SAE J1467
STAPLE-LOCK MASCHIO SAE J1467

PART. REF.	HOSE BORE			DIMENSIONS mm					
	DN	inch	Size	B	A	C	D		
M14810-04-04	6	1/4"	- 04	4,0	33,0	28,7	15,0		
M14810-06-06	10	3/8"	- 06	7,0	33,6	28,8	20,0		
M14810-08-08	12	1/2"	- 08	9,3	33,9	28,7	24,0		
M14810-12-12	19	3/4"	- 12	15,0	35,0	28,9	29,0		
M14810-16-16	25	1"	- 16	19,8	43,8	36,6	39,0		
M14810-20-20	31	1.1/4"	- 20	26,0	42,5	34,6	46,0		
M14810-24-24	38	1.1/2"	- 24	32,0	51,5	43,5	55,0		
M14810-32-32	51	2"	- 32	42,0	48,9	40,0	64,0		
M14810-40-40	63	2.1/2"	- 40	60,0	89,0	73,0	81,0		
M14810-48-48	76	3"	- 48	66,0	102,0	90,0	91,0		



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M14610

SUPER STAPLE-LOCK MALE
MACHO SUPER STAPLE-LOCK
SUPER STAPLE-LOCK STECKVERBINDUNGEN
SUPER STAPLE-LOCK MASCHIO

PART. REF.	HOSE BORE			DIMENSIONS mm					
	DN	inch	Size	B	A	C	D		
M14610-12-12	19	3/4"	- 12	15,0	44,1	38,0	28,6		
M14610-16-16	25	1"	- 16	22,0	62,2	55,0	38,4		
M14610-20-20	31	1.1/4"	- 20	26,0	67,9	60,0	45,4		

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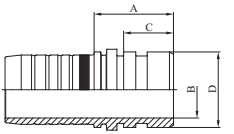
MULTIFIT TYPE

MF2000®

INSERT

M15910

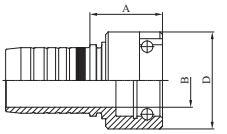
LOW PRESSURE FLUSHFIT MALE
MACHO FLUSHFIT BAJA PRESIÓN
NIEDRIGDRUCK F-FLUSHFIT STECKER
FLUSHFIT MASCHIO BASSA PRESSIONE



PART. REF.	HOSE BORE			DIMENSIONS mm					
	DN	inch	Size	B	A	C	D		
M15910-24-24	38	1.1/2"	- 24	32,0	65,0	27,0	42,0		
M15910-32-32	51	2"	- 32	42,0	59,0	37,0	56,0		
M15910-40-40	63	2.1/2"	- 40	60,0	79,0	51,0	76,0		

M25910

LOW PRESSURE FLUSHFIT FEMALE
HEMBRA FLUSHFIT BAJA PRESIÓN
NIEDRIGDRUCK M-FLUSHFIT BUCHSE
FLUSHFIT FEMMINA BASSA PRESSIONE



PART. REF.	HOSE BORE			DIMENSIONS mm					
	DN	inch	Size	B	A	D			
M25910-24-24	38	1.1/2"	- 24	32,0	67,0	70,0			
M25910-32-32	51	2"	- 32	42,0	57,0	76,0			
M25910-40-40	63	2.1/2"	- 40	60,0	72,0	106,0			

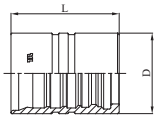
S.C. FLUIDTECHNIK s.r.l.
Hidraulica & Pneumatica
fluidtechnik@gmail.com

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INTERLOCK PLUS TYPE

FERRULE

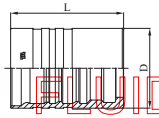
M01500



DOUBLE SKIVE FERRULE FOR HEAVY DUTY SPIRAL HOSES (4 PLY)
CASQUILLOS DE PELADO INTERNO Y EXTERNO PARA MANGUERAS CON REFUERZO EN ESPIRAL TRABAJO PESADO (4 ESPIRALES)
PRESSFASSUNG INNEN- UND AUSSENSCHÄLUNG FÜR HÖCHSTDRUCKSCHLÄUCHE (4-LAGIG)
GHIERA PER TUBI SPIRALATI CON DOPPIA PELATURA (4 SPIRALI)

PART. REF.	HOSE BORE			DIMENSIONS mm					
	DN	inch	Size	D	L				
M01500-12	19	3/4"	- 12	40,0	51,4				
M01500-16	25	1"	- 16	48,0	64,5				
M01500-20	31	1.1/4"	- 20	57,0	84,0				
M01500-24	38	1.1/2"	- 24	64,3	94,0				
M01500-32	51	2"	- 32	83,5	107,0				

M01600

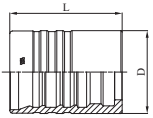


DOUBLE SKIVE FERRULE FOR HEAVY DUTY SPIRAL HOSES (6 PLY)
CASQUILLOS DE PELADO INTERNO Y EXTERNO PARA MANGUERAS CON REFUERZO EN ESPIRAL TRABAJO PESADO (6 ESPIRALES)
PRESSFASSUNG INNEN- UND AUSSENSCHÄLUNG FÜR HÖCHSTDRUCKSCHLÄUCHE (6-LAGIG)
GHIERA PER TUBI SPIRALATI CON DOPPIA PELATURA (6 SPIRALI)

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PART. REF.	HOSE BORE			DIMENSIONS mm					
	DN	inch	Size	D	L				
M01600-20	31	1.1/4"	- 20	60,0	85,0				
M01600-24	38	1.1/2"	- 24	69,0	96,0				

M01800



DOUBLE SKIVE FERRULE FOR EXTRA DUTY SPIRAL HOSES (6 PLY)
CASQUILLOS DE PELADO INTERNO Y EXTERNO PARA MANGUERAS CON REFUERZO EN ESPIRAL
PRESSFASSUNG FÜR INNEN- UND AUSSENSCHÄLUNG FÜR SPEZIAL-SPIRALSCHLÄUCHE (6-LAGIG)
GHIERA A PELATURA INTERNA/ESTERNA PER TUBI SPIRALATI (6 SPIRALI) PER APPLICAZIONI ESTREMAMENTE SEVERE

PART. REF.	HOSE BORE				DIMENSIONS mm					
	DN	inch	Size		D	L				
M01800-32	51	2"	- 32		86,5	108,0				

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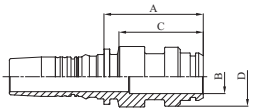
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INTERLOCK PLUS TYPE

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M34710

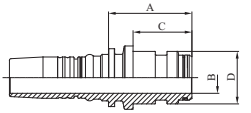
SUPER STAPLE-LOCK MALE
MACHO SUPER STAPLE-LOCK
SUPER STAPLE-LOCK STECKVERBINDUNGEN
ADATTATORE MACHIO SUPER STAPLE-LOCK



PART. REF.	HOSE BORE			DIMENSIONS mm					
	DN	inch	Size	B	A	C	D		
M34710-12-12	19	3/4"	- 12	15,0	46,3	38,5	28,6		
M34710-16-16	25	1"	- 16	22,0	68,8	55,0	38,4		
M34710-20-20	31	1.1/4"	- 20	26,0	72,0	60,0	45,4		
M34710-24-24	38	1.1/2"	- 24	30,5	73,8	61,5	54,4		
M34710-32-32	51	2"	- 32	38,0	84,4	72,0	63,4		

M36110

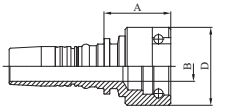
HIGH PRESSURE FLUSHFIT MALE
MACHO ALTA PRESIÓN FLUSHFIT
FLUSHFIT HOCHDRUCKSTECKVERBINDUNG
MASCHIO FLUSHFIT ALTA PRESSIONE



PART. REF.	HOSE BORE			DIMENSIONS mm					
	DN	inch	Size	B	A	C	D		
M36110-24-24	38	1.1/2"	- 24	31,0	80,0	61,5	54,5		
M36110-32-32	51	2"	- 32	38,2	90,5	68,0	54,5		

M46110

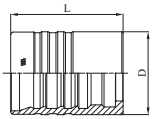
HIGH PRESSURE FLUSHFIT FEMALE
HEMBRA ALTA PRESIÓN FLUSHFIT
FLUSHFIT HOCHDRUCKSTECKVERBINDUNG BUCHSE
FLUSHFIT FEMMINA ALTA PRESSIONE



PART. REF.	HOSE BORE			DIMENSIONS mm					
	DN	inch	Size	B	A	D			
M46110-24-24	38	1.1/2"	- 24	31,0	90,0	88,9			
M46110-32-32	51	2"	- 32	41,0	90,0	95,3			

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M01800



DOUBLE SKIVE FERRULE FOR EXTRA DUTY SPIRAL HOSES (6 PLY)
CASQUILLO DE PELADO INTERNO Y EXTERNO PARA MANGUERAS CON REFUERZO EN ESPIRAL (6 ESPIRALES) - TRABAJO PESADO
FASSUNG FÜR INNEN/AUBENSCHÄLUNG FÜR HOCHLEISTUNGS-SPIRALSCHLÄUCHE (6-LAGIG)
GHIERA A PELATURA INTERNA/ESTERNA PER TUBI SPIRALATI (6 SPIRALI) PER APPLICAZIONI ESTREMAMENTE SEVERE

PART. REF.	HOSE BORE			DIMENSIONS mm					
	DN	inch	Size	D	L				
M01800-32	51	2"	- 32	86,5	108,0				
M01800-40	63	2.1/2"	- 40	103,0	135,0				

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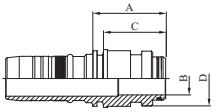
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XTRALOCK TYPE

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M54610

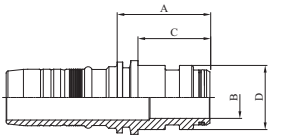
SUPER STAPLE-LOCK MALE
MACHO SUPER STAPLE-LOCK
SUPER STAPLE-LOCK STECKVERBINDUNGEN
SUPER STAPLE-LOCK MASCHIO



PART. REF.	HOSE BORE			DIMENSIONS mm					
	DN	inch	Size	B	A	C	D		
M54610-32-32	51	2"	- 32	38,0	54,4	72,0	63,4		
M54610-40-40	63	2.1/2"	- 40	51,0	93,0	77,5	76,4		

M56110

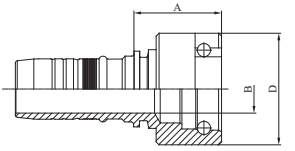
HIGH PRESSURE FLUSHFIT MALE
MACHO ALTA PRESIÓN FLUSHFIT
FLUSHFIT HOCHDRUCKSTECKVERBINDUNG
MASCHIO FLUSHFIT ALTA PRESSIONE



PART. REF.	HOSE BORE			DIMENSIONS mm					
	DN	inch	Size	B	A	C	D		
M56110-32-32	51	2"	- 32	38,2	90,5	68,0	54,5		
M56110-40-40	63	2.1/2"	- 40	49,7	112,5	79,0	77,5		

M66110

HIGH PRESSURE FLUSHFIT FEMALE
HEMBRA ALTA PRESIÓN FLUSHFIT
FLUSHFIT HOCHDRUCKSTECKVERBINDUNG BUCHSE
FLUSHFIT FEMMINA ALTA PRESSIONE



PART. REF.	HOSE BORE			DIMENSIONS mm					
	DN	inch	Size	B	A	D			
M66110-32-32	51	2"	- 32	41,0	90,0	95,3			
M66110-40-40	63	2.1/2"	- 40	51,5	100,0	112,0			

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ADAPTORS & VALVES

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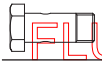
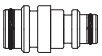
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STAPLE-LOCK ADAPTORS		
A514848 	**STRAIGHT STAPLE-LOCK FEMALE ADAPTOR** ADAPTADOR HEMBRA STAPLE-LOCK RECTO GERADE STAPLE-LOCK VERBINDUNGSBUCHSE ADATTATORE STAPLE-LOCK DRITTO FEMMINA	738
A574848 	**90° STAPLE-LOCK FEMALE ADAPTOR** ADAPTADOR HEMBRA STAPLE-LOCK A 90° 90° STAPLE-LOCK VERBINDUNGSBUCHSE ADATTATORE STAPLE-LOCK 90° FEMMINA	738
A734848 	**UNION TEE STAPLE-LOCK FEMALE** TE HEMBRA STAPLE-LOCK T-STÜCK STAPLE-LOCK VERBINDUNGSBUCHSE ADATTATORE STAPLE-LOCK "T" CENTRALE FEMMINA	739
A794848 	**BRANCH TEE STAPLE-LOCK FEMALE** TE HEMBRA REDUCCIÓN CENTRAL STAPLE-LOCK T-STÜCK STAPLE-LOCK VERBINDUNGSBUCHSE ADATTATORE STAPLE-LOCK "T" LATERALE FEMMINA	739
A7Y4848 	**Y ADAPTOR STAPLE-LOCK FEMALE** ADAPTADOR HEMBRA EN Y STAPLE-LOCK Y-STÜCK STAPLE-LOCK VERBINDUNGSBUCHSE ADATTATORE STAPLE-LOCK "Y" FEMMINA	740
A964848 	**CROSS ADAPTOR STAPLE-LOCK FEMALE** ADAPTADOR EN CRUZ HEMBRA STAPLE-LOCK KREUZADAPTER STAPLE-LOCK VERBINDUNGSBUCHSE ADATTATORE A CROCE STAPLE-LOCK FEMMINA	740
A414800 	**STAPLE-LOCK FEMALE END CAP** TAPON HEMBRA STAPLE-LOCK STAPLE-LOCK VERSCHLUBSTÜCK ALS BUCHSE TAPPO PER STAPLE-LOCK FEMMINA	741
JL4801SS 	**STANDARD STAPLE ZINC PLATED** GRAPA STANDARD ZINCADA STECKKLAMMER VERZINKT STAPLE CON ZINCATURA STANDARD	741
JL4810SS 	**STAINLESS STAPLE** GRAPA INOXIDABLE EDELSTAHLKLAMMER STANDARD STAPLE IN ACCIAIO INOX	742
JL4810DS 	**STAINLESS "D" STAPLE** GRAPA INOXIDABLE "D" EDELSTAHLKLAMMER HALBRUNDPROFIL STAPLE "D" IN ACCIAIO INOX	742
A518282 	**STRAIGHT ADAPTOR SWIVEL STAPLE-LOCK FEMALE** ADAPTADOR HEMBRA RECTO GIRATORIO STAPLE-LOCK GERADE DREHBARE STAPLE-LOCK VERBINDUNGSBUCHSE ADATTATORE STAPLE-LOCK DRITTO FEMMINA GIREVOLE	743
A578282 	**90° ADAPTOR SWIVEL STAPLE-LOCK FEMALE** ADAPTADOR HEMBRA GIRATORIO STAPLE-LOCK A 90° 90° DREHBARE STAPLE-LOCK VERBINDUNGSBUCHSE ADATTATORE STAPLE-LOCK 90° FEMMINA GIREVOLE	743

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A798282 	**BRANCH TEE SWIVEL STAPLE-LOCK FEMALE** TE HEMBRA GIRATORIA STAPLE-LOCK STAPLE-LOCK DREHBARE T-STÜCKVERBINDUNG ADATTATORE STAPLE-LOCK "T" LATERALE FEMMINA GIREVOLE	744
A548282 	**45° ADAPTOR SWIVEL STAPLE-LOCK FEMALE** ADAPTADOR HEMBRA GIRATORIO STAPLE-LOCK A 45° 45° DREHBARE VERBINDUNGSBUCHSE ADATTATORE STAPLE-LOCK 45° FEMMINA GIREVOLE	745
A510382 	**SWIVEL STAPLE-LOCK FEMALE - BSP BANJO ADAPTOR** HEMBRA GIRATORIA STAPLE-LOCK - ADAPTADOR BANJO BSP DREHBARE STAPLE-LOCK - BSP ADAPTERBUCHSE ADATTATORE STAPLE-LOCK FEMMINA GIREVOLE - OCCHIELLO BSP	745
O80211 	**BANJO BOLT FOR STAPLE-LOCK** PASADOR BANJO PARA STAPLE-LOCK HOHLSCHRAMBE FÜR STAPLE-LOCK VITE FORATA PER OCCHIELLO (GAMMA STAPLE-LOCK)	745
JO12	**BSP BONDED WASHER** ARANDELA SOLIDA BSP BSP VERBUND-UNTERLAGSCHEIBE RONDELLA-GUARNIZIONE SALDATA BSP (BONDED WASHER)	746
JO04 	**STAPLE-LOCK MALE END O-RING** O-RING PARA TERMINAL MACHO DE STAPLE-LOCK STAPLE-LOCK O-RING FÜR STECKKUPPLUNG O-RING PER STAPLE-LOCK MASCHIO	746
JO15 	**STAPLE-LOCK MALE END BACK-UP RING** BACK-UP RING PARA TERMINAL MACHO DE STAPLE-LOCK F-STECKENDKUPPLUNG STÜTZRING ANELLO BACK-UP PER STAPLE-LOCK MASCHIO	747/767
A504848 	**STRAIGHT ADAPTOR STAPLE-LOCK MALE** ADAPTADOR MACHO RECTO STAPLE-LOCK ADAPTER STECKKUPPLUNG ADATTATORE DRITTO MASCHIO STAPLE-LOCK	748
A404800 	**STAPLE-LOCK MALE END PLUG** TAPON MACHO STAPLE-LOCK STAPLE-LOCK BLIND-STECKER TAPPO STAPLE-LOCK MASCHIO	749
A524848 	**STRAIGHT ADAPTOR STAPLE-LOCK MALE - FEMALE** ADAPTADOR RECTO MACHO - HEMBRA STAPLE-LOCK GERADER STECKER - BUCHSE ADAPTER ADATTATORE STAPLE-LOCK DRITTO MASCHIO - FEMMINA	749
A524882 	**STRAIGHT ADAPTOR STAPLE-LOCK MALE - SWIVEL FEMALE** ADAPTADOR RECTO MACHO - HEMBRA GIRATORIA STAPLE-LOCK GERADER STECKER - DREHBARE BUCHSE ADAPTER ADATTATORE STAPLE-LOCK DRITTO MASCHIO - FEMMINA GIREVOLE	750

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ADAPTORS & VALVES

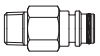
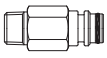
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A744882 	**BRANCH TEE STAPLE-LOCK SWIVEL FEMALE - MALE** STAPLE-LOCK EN TE CON HEMBRAS GIRATORIAS CENTRAL Y MACHO T-STÜCK DREHBARE BUCHSEN - STECKER ADATTATORE STAPLE-LOCK "T" CENTRALE A VITE FEMMINA GIREVOLE - MASCHIO	752
A754848 	**RUN TEE STAPLE-LOCK MALE - FEMALE** STAPLE-LOCK EN T CON HEMBRAS LATERAL Y MACHO T-STÜCK DREHBARE BUCHSEN - STECKER ADATTATORE STAPLE-LOCK "T" LATERALE MASCHIO - FEMMINA	752
A754882 	**RUN TEE STAPLE-LOCK MALE - SWIVEL FEMALE** STAPLE-LOCK EN T CON HEMBRAS GIRATORAS LATERAL Y MACHO DREHBARE BUCHSEN - STECKER ADATTATORE STAPLE-LOCK "T" LATERALE MASCHIO - FEMMINA GIREVOLE	752
A554848 	**45° ADAPTOR STAPLE-LOCK MALE - FEMALE** ADAPTADOR STAPLE-LOCK MACHO - HEMBRA A 45° 45° F-M-STECKKUPPLUNGADAPTER ADATTATORE STAPLE-LOCK 45° MASCHIO - FEMMINA	753
A554882 	**45° ADAPTOR STAPLE-LOCK MALE - SWIVEL FEMALE** ADAPTADOR STAPLE-LOCK MACHO - HEMBRA GIRATORIA A 45° 45° F-STECKKUPPLUNGADAPTER - M-GELENK ADATTATORE STAPLE-LOCK 45° MASCHIO - FEMMINA GIREVOLE	753
A524448 	**BSP MALE FLAT FACE FOR BONDED WASHER - STAPLE-LOCK FEMALE ADAPTOR** ADAPTADOR STAPLE-LOCK MACHO BSP CARA PLANA PARA ARANDELA SOLIDA Y HEMBRA BSP FLACHDICHTENDER STECKER FÜR VERBUNDUNTERLAGSCHEIBE - BUCHSE M-STECKKUPPLUNGADAPTER BSP MASCHIO FACCIA PIANA PER BONDED WASHER - STAPLE-LOCK FEMMINA	754
A524482 	**BSP MALE FLAT FACE FOR BONDED WASHER - STAPLE-LOCK SWIVEL FEMALE ADAPTOR** ADAPTADOR STAPLE-LOCK MACHO CARA PLANA BSP PARA ARANDELA SOLIDA Y HEMBRA GIRATORIA BSP FLACHDICHTENDER STECKER FÜR VERBUNDUNTERLAGSCHEIBE - BUCHSE M-STECKKUPPLUNGADAPTER BSP MASCHIO FACCIA PIANA PER BONDED WASHER - STAPLE-LOCK FEMMINA GIREVOLE	754
A526482E 	**BSP MALE FRONT SEAL HEX. SOCKET HEAD - STAPLE-LOCK SWIVEL FEMALE ADAPTOR** ADAPTADOR MACHO BSP Y HEMBRA GIRATORIA STAPLE-LOCK BSP F- FRONTDICHTUNG SECHSKANT-INBUSSCHRAUBE - DREHBARE BUCHSE ADAPTER ADATTATORE BSP MASCHIO "ESAGONO INCASSATO" - STAPLE-LOCK FEMMINA GIREVOLE	755
A520682 	**BSP MALE FLAT FACE DIN 3852-2 FORM A - STAPLE-LOCK SWIVEL FEMALE ADAPTOR** ADAPTADOR MACHO BSP CARA PLANA DIN 3852-2 FORMA A - HEMBRA GIRATORIA STAPLE-LOCK BSP FLACHDICHTENDER EINSCHRAUBZAPFEN DIN 3852-2 FORM A - DREHBARE BUCHSE ADAPTER ADATTATORE BSP MASCHIO FACCIA PIANA DIN 3852-2 FORMA A - STAPLE-LOCK FEMMINA GIREVOLE	755
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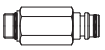
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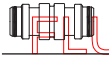
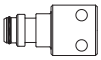
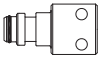
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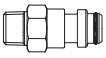
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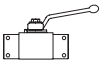
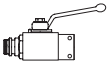
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AV48AB1N 	**STAPLE LOCK CUBIC SHAPED VALVE MALE - FIXED FEMALE** VÁLVULA CÚBICA MACHO STAPLE-LOCK - HEMBRA FIJA KUGELHAHN VIERECKIG STAPLE-LOCK STECKER - KOMPAKT BUCHSE VALVOLA STAPLE LOCK A FORMA CUBICA MASCHIO - FEMMINA FISSA	782
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AV72AB2N 	**STAPLE LOCK CUBIC SHAPED VALVE MALE - SWIVEL FEMALE** VÁLVULA CÚBICA MACHO STAPLE-LOCK - HEMBRA GIRATORIA KUGELHAHN VIERECKIG STAPLE-LOCK STECKER - DREHBARE BUCHSE VALVOLA MASCHIO STAPLE LOCK A FORMA CUBICA - FEMMINA GIREVOLE	783
AV72AF2N 	**STAPLE LOCK CUBIC SHAPED VALVE SWIVEL FEMALE** VÁLVULA CÚBICA MACHO STAPLE-LOCK - HEMBRA GIRATORIA KUGELHAHN VIERECKIG STAPLE-LOCK DREHBARE BUCHSEN VALVOLA STAPLE LOCK A FORMA CUBICA – FEMMINA GIREVOLE	783

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AV46DF1N 	**SUPER STAPLE LOCK CYLINDRICAL SHAPED VALVE FIXED FEMALE** VALVULA CILINDRICA HEMBRA FIJA SUPER STAPLE-LOCK KUGELHAHN SECHSKANTFORM SUPER STAPLE-LOCK BUCHSEN VALVOLA SUPER STAPLE-LOCK CILINDRICA FEMMINA FISSA	**784**
AV46AB1N 	**SUPER STAPLE LOCK CUBIC SHAPED VALVE MALE - FIXED FEMALE** VALVULA CUBICA MACHO - HEMBRA FIJA SUPER STAPLE-LOCK KUGELHAHN VIERECKIG SUPER STAPLE-LOCK - BUCHSE VALVOLA SUPER STAPLE-LOCK A FORMA CUBICA MASCHIO - FEMMINA FISSA	**784**
AV46DB1N 	**SUPER STAPLE LOCK CYLINDRICAL SHAPED VALVE MALE FIXED FEMALE** VALVULA CILINDRICA MACHO - HEMBRA FIJA SUPER STAPLE-LOCK KUGELHAHN ZYLINDRISCH SUPER STAPLE-LOCK STECKER - BUCHSE VALVOLA SUPER STAPLE-LOCK CILINDRICA MASCHIO - FEMMINA FISSA	**784**

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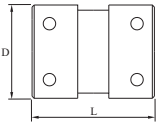
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STAPLE-LOCK

ADAPTORS

A514848

STRAIGHT STAPLE-LOCK FEMALE ADAPTOR
ADAPTADOR HEMBRA STAPLE-LOCK RECTO
GERADE STAPLE-LOCK VERBINDUNGSBUCHSE
ADATTATORE STAPLE-LOCK DRITTO FEMMINA

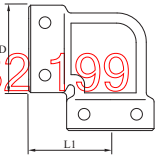


PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	L	D				
A514848-04-04	6	1/4"	- 04	58	25				
A514848-06-06	10	3/8"	- 06	58	32				
A514848-08-08	12	1/2"	- 08	59	35				
A514848-12-12	19	3/4"	- 12	59	45				
A514848-16-16	25	1"	- 16	67	55				
A514848-20-20	31	1.1/4"	- 20	67	60				
A514848-24-24	38	1.1/2"	- 24	75	76				
A514848-32-32	51	2"	- 32	75	85				
A514848-40-40	63	2.1/2"	- 40	136	100				
A514848-48-48	76	3"	- 48	190	120				

A574848

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90° STAPLE-LOCK FEMALE ADAPTOR
ADAPTADOR HEMBRA STAPLE-LOCK A 90°
90° STAPLE-LOCK VERBINDUNGSBUCHSE
ADATTATORE STAPLE-LOCK 90° FEMMINA

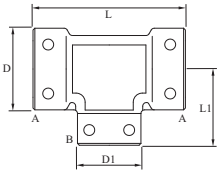


PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	L_1	D				
A574848-04-04	6	1/4"	- 04	38	32				
A574848-06-06	10	3/8"	- 06	38	32				
A574848-08-08	12	1/2"	- 08	40	35				
A574848-12-12	19	3/4"	- 12	42	45				
A574848-16-16	25	1"	- 16	50	55				
A574848-20-20	31	1.1/4"	- 20	54	62				
A574848-24-24	38	1.1/2"	- 24	68	72				
A574848-32-32	51	2"	- 32	71	85				

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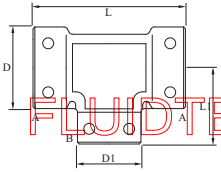
ADAPTORS



A734848

UNION TEE STAPLE-LOCK FEMALE
TE HEMBRA STAPLE-LOCK
T-STÜCK STAPLE-LOCK VERBINDUNGSBUCHSE
ADATTATORE STAPLE-LOCK "T" CENTRALE FEMMINA

PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L1	D	D1		
A734848-04-04	6	1/4"	- 04	6	1/4"	- 04	76	38	25	25		
A734848-06-06	10	3/8"	- 06	10	3/8"	- 06	76	38	32	32		
A734848-08-08	12	1/2"	- 08	12	1/2"	- 08	80	40	35	35		
A734848-12-12	19	3/4"	- 12	19	3/4"	- 12	84	42	45	45		
A734848-16-16	25	1"	- 16	25	1"	- 16	100	50	55	55		
A734848-20-20	31	1.1/4"	- 20	31	1.1/4"	- 20	108	54	60	60		
A734848-24-24	38	1.1/2"	- 24	38	1.1/2"	- 24	136	68	72	72		
A734848-32-32	51	2"	- 32	51	2"	- 32	142	71	85	85		



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A794848

BRANCH TEE STAPLE-LOCK FEMALE
TE HEMBRA REDUCCIÓN STAPLE-LOCK
T-STÜCK STAPLE-LOCK VERBINDUNGSBUCHSE
ADATTATORE STAPLE-LOCK "T" LATERALE FEMMINA

PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L1	D	D1		
A794848-08-06	12	1/2"	- 08	10	3/8"	- 06	80	40	35	32		
A794848-12-06	19	3/4"	- 12	10	3/8"	- 06	86	43	45	32		
A794848-12-08	19	3/4"	- 12	12	1/2"	- 08	86	43	45	35		
A794848-16-06	25	1"	- 16	10	3/8"	- 06	100	50	55	32		
A794848-16-08	25	1"	- 16	12	1/2"	- 08	100	50	55	35		
A794848-16-12	25	1"	- 16	19	3/4"	- 12	100	50	55	45		
A794848-20-06	31	1.1/4"	- 20	10	3/8"	- 06	108	54	60	32		
A794848-20-08	31	1.1/4"	- 20	12	1/2"	- 08	108	54	60	35		
A794848-20-12	31	1.1/4"	- 20	19	3/4"	- 12	108	54	60	45		
A794848-20-16	31	1.1/4"	- 20	25	1"	- 16	108	54	60	55		
A794848-24-16	38	1.1/2"	- 24	25	1"	- 16	136	68	72	55		
A794848-24-20	38	1.1/2"	- 24	31	1.1/4"	- 20	136	68	72	60		
A794848-32-20	51	2"	- 32	31	1.1/4"	- 20	140	70	85	60		
A794848-32-24	51	2"	- 32	38	1.1/2"	- 24	140	70	85	72		

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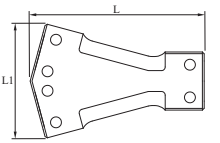
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STAPLE-LOCK

ADAPTORS

A7Y4848

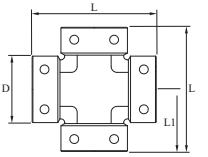
Y ADAPTOR STAPLE-LOCK FEMALE
ADAPTADOR HEMBRA EN Y STAPLE-LOCK
Y-STÜCK STAPLE-LOCK VERBINDUNGSBUCHSE
ADATTATORE STAPLE-LOCK "Y" FEMMINA



PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	L	L1				
A7Y4848-06-06	10	3/8"	- 6	83	62				
A7Y4848-08-08	12	1/2"	- 8	95	70				
A7Y4848-12-12	19	3/4"	- 12	107	80				

A964848

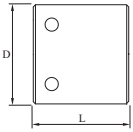
CROSS ADAPTOR STAPLE-LOCK FEMALE
ADAPTADOR EN CRUZ HEMBRA STAPLE-LOCK
KREUZADAPTER STAPLE-LOCK VERBINDUNGSBUCHSE
ADATTATORE A CROCE STAPLE-LOCK FEMMINA



PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	L	L1	D			
A964848-04-04	6	1/2"	- 4	76	38	25			
A964848-06-06	10	3/8"	- 6	76	38	32			
A964848-08-08	12	1/2"	- 8	80	40	35			
A964848-12-12	19	3/4"	- 12	84	42	45			
A964848-16-16	25	1"	- 16	100	50	55			
A964848-20-20	31	1.3/4"	- 20	108	54	60			

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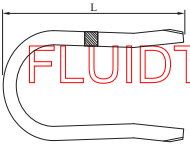
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A414800

STAPLE-LOCK FEMALE END CAP
TAPON HEMBRA STAPLE-LOCK
STAPLE-LOCK VERSCHLUßSTÜCK ALS BUCHSE
TAPPO PER STAPLE-LOCK FEMMINA

PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	L	D				
A414800-04	6	1/4"	- 4	39	25				
A414800-06	10	3/8"	- 6	40	32				
A414800-08	12	1/2"	- 8	43	35				
A414800-12	19	3/4"	- 12	44	45				
A414800-16	25	1"	- 16	52	55				
A414800-20	31	1.1/4"	- 20	55	60				
A414800-24	38	1.1/2"	- 24	65	76				
A414800-32	51	2"	- 32	70	85				
A414800-40	63	2.1/2"	- 40	112	106				
A414800-48	76	3"	- 48	138	120				



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JL4801SS

STANDARD STAPLE ZINC PLATED
GRAPA STANDARD ZINCADA
STECKKLAMMER VERZINKT
STAPLE CON ZINCATURA STANDARD

PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	L					
JL4801SS-04	6	1/4"	- 4	38					
JL4801SS-06	10	3/8"	- 6	42					
JL4801SS-08	12	1/2"	- 8	48					
JL4801SS-12	19	3/4"	- 12	55					
JL4801SS-16	25	1"	- 16	74					
JL4801SS-20	31	1.1/4"	- 20	83					
JL4801TS-24*	38	1.1/2"	- 24	85					
JL4801TS-32*	51	2"	- 32	95					

* **Staple has a flat top** / Grapa tiene un biselado plano en la punta / Klammer abgeflacht / Staple con dorso piatto

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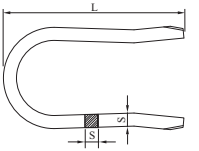
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STAPLE-LOCK

ADAPTORS

JL4810SS

STAINLESS STAPLE
GRAPA INOXIDABLE
EDELSTAHLKLAMMER
STANDARD STAPLE IN ACCIAIO INOX



PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	S	L				
JL4810SS-04	6	1/4"	- 4	4	38				
JL4810SS-06	10	3/8"	- 6	4	42				
JL4810SS-08	12	1/2"	- 8	4	48				
JL4810SS-12	19	3/4"	- 12	4	55				
JL4810SS-16	25	1"	- 16	6	74				
JL4810SS-20	31	1.1/4"	- 20	6	83				
JL4810TS-24*	38	1.1/4"	- 24	6	85				
JL4810TS-32*	51	2"	- 32	6	95				
JL4810SS-40	63	2.1/2"	- 40	8	100				
JL4810SS-48	76	3"	- 48	8	122				

* **Staple has a flat top** / Grapa tiene un biselado plano en la punta / Flachtopkrampe / Staple con dorso piatto

JL4810DS NEW

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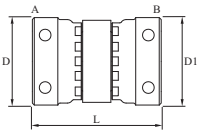
STAINLESS "D" STAPLE
GRAPA INOXIDABLE "D"
EDELSTAHLKLAMMER HALBRUNDPROFIL
STAPLE "D" IN ACCIAIO INOX



PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	b	s	L			
JL4810DS-04	4	1/4"	6	4.55	4.45	38,0			
JL4810DS-06	6	3/8"	10	4.55	4.45	43,5			
JL4810DS-08	8	1/2"	12	4.55	4.45	48,5			
JL4810DS-12	12	3/4"	20	4.55	4.45	55,5			
JL4810DS-16	16	1"	25	6.55	6.45	74,2			
JL4810DS-20	20	1.1/4"	32	6.55	6.45	83,2			
JL4810DS-24	24	1.1/2"	40	6.55	6.45	85,0			
JL4810DS-32	32	2"	50	6.55	6.45	95,0			
JL4810DS-40	40	2.1/2"	63	6.55	6.45	110,0			
JL4810DS-48	48	3"	76	6.55	6.45	120,0			

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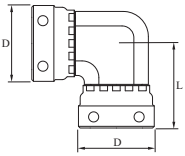
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A518282

STRAIGHT ADAPTOR SWIVEL STAPLE-LOCK FEMALE
ADAPTADOR HEMBRA RECTO GIRATORIO STAPLE-LOCK
GERADE DREHBARE STAPLE-LOCK VERBINDUNGSBUCHSE
ADATTATORE STAPLE-LOCK DRITTO FEMMINA GIREVOLE

PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	D	D_1			
A518282-04-04	6	1/4"	- 4	6	1/4"	- 4	62	25	25			
A518282-04-06	10	3/8"	- 6	6	1/4"	- 4	62	32	25			
A518282-04-08	12	1/2"	- 8	6	1/4"	- 4	65	35	25			
A518282-06-06	10	3/8"	- 6	10	3/8"	- 6	62	32	32			
A518282-06-08	12	1/2"	- 8	10	3/8"	- 6	65	35	32			
A518282-06-12	19	3/4"	- 12	10	3/8"	- 6	65	45	32			
A518282-06-16	25	1"	- 16	10	3/8"	- 6	76	60	32			
A518282-08-08	12	1/2"	- 8	12	1/2"	- 8	63	35	35			
A518282-08-12	19	3/4"	- 12	12	1/2"	- 8	65	45	35			
A518282-08-16	25	1"	- 16	12	1/2"	- 8	76	60	35			
A518282-08-20	31	1.1/4"	- 20	12	1/2"	- 8	76	60	35			
A518282-12-12	19	3/4"	- 12	19	3/4"	- 12	63	45	45			
A518282-12-16	25	1"	- 16	19	3/4"	- 12	77	60	45			
A518282-12-20	31	1.1/4"	- 20	19	3/4"	- 12	76	60	45			
A518282-16-16	25	1"	- 16	25	1"	- 16	83	60	60			
A518282-16-20	31	1.1/4"	- 20	25	1"	- 16	83	60	60			
A518282-20-20	31	1.1/4"	- 20	31	1"	- 20	83	60	60			



A578282

90° ADAPTOR SWIVEL STAPLE-LOCK FEMALE
ADAPTADOR HEMBRA GIRATORIO STAPLE-LOCK A 90°
90° DREHBARE STAPLE-LOCK VERBINDUNGSBUCHSE
ADATTATORE STAPLE-LOCK 90° FEMMINA GIREVOLE

PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	L	D				
A578282-04-04	6	1/4"	- 4	44	25				
A578282-06-06	10	3/8"	- 6	44	32				
A578282-08-08	12	1/2"	- 8	48	35				
A578282-12-12	19	3/4"	- 12	57	45				
A578282-16-16	25	1"	- 16	68	60				
A578282-20-20	31	1.1/4"	- 20	68	60				

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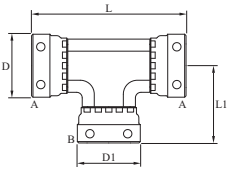
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STAPLE-LOCK

ADAPTORS

A738282

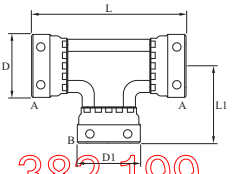
UNION TEE SWIVEL STAPLE-LOCK FEMALE
TE HEMBRA GIRATORIA STAPLE-LOCK
T-STÜCK STAPLE-LOCK VERBINDUNGSBUCHSE DREHBAR
ADATTATORE STAPLE-LOCK "T" FEMMINA GIREVOLE



PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L1	D	D1		
A738282-04-04	6	1/4"	- 4	6	1/4"	- 4	88	44	25	25		
A738282-06-06	10	3/8"	- 6	10	3/8"	- 6	88	44	32	32		
A738282-08-08	12	1/2"	- 8	12	1/2"	- 8	96	48	35	35		
A738282-12-12	19	3/4"	- 12	19	3/4"	- 12	114	57	45	45		
A738282-16-16	25	1"	- 16	25	1"	- 16	134	68	60	60		
A738282-20-20	31	1.1/4"	- 20	31	1.1/4"	- 20	136	68	60	60		

A798282

BRANCH TEE SWIVEL STAPLE-LOCK FEMALE
TE HEMBRA GIRATORIA STAPLE-LOCK
STAPLE-LOCK DREHBARE T-STÜCKVERBINDUNG
ADATTATORE STAPLE-LOCK "T" LATERALE FEMMINA GIREVOLE

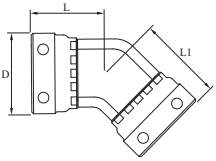


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PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L1	D	D1		
A798282-08-06	12	1/2"	- 8	10	3/8"	- 6	96	48	35	32		
A798282-08-12	12	1/2"	- 8	19	3/4"	- 12	96	57	35	45		
A798282-12-06	19	3/4"	- 12	10	3/8"	- 6	114	57	55	32		
A798282-12-08	19	3/4"	- 12	12	1/2"	- 8	114	57	55	35		
A798282-16-16	25	1"	- 16	10	3/8"	- 6	134	60	60	32		
A798282-16-08	25	1"	- 16	12	1/2"	- 8	134	60	60	35		
A798282-16-12	25	1"	- 16	19	3/4"	- 12	136	64	60	45		
A798282-20-06	31	1.1/4"	- 20	10	3/8"	- 6	134	68	60	32		
A798282-20-08	31	1.1/4"	- 20	12	1/2"	- 8	134	68	60	35		
A798282-20-12	31	1.1/4"	- 20	19	3/4"	- 12	134	68	60	45		
A798282-20-16	31	1.1/4"	- 20	25	1"	- 16	134	72	60	60		

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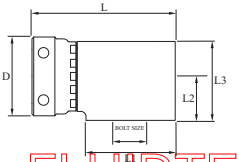
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A548282

45° ADAPTOR SWIVEL STAPLE-LOCK FEMALE
ADAPTADOR HEMBRA GIRATORIO STAPLE-LOCK A 45°
45° DREHBARE VERBINDUNGSBUCHSE
ADATTATORE STAPLE-LOCK 45° FEMMINA GIREVOLE

PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	L	L_1	D			
A548282-04-04	6	1/4"	- 4	39	39	25			
A548282-06-06	10	3/8"	- 6	39	39	32			
A548282-08-08	12	1/2"	- 8	40	40	35			
A548282-12-12	19	3/4"	- 12	48	48	45			
A548282-16-16	25	1"	- 16	54	54	60			
A548282-20-20	31	1.1/4"	- 20	54	54	60			

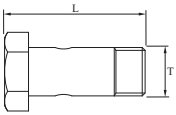


A510382

SWIVEL STAPLE-LOCK FEMALE - BSP BANJO ADAPTOR
HEMBRA GIRATORIA STAPLE-LOCK - ADAPTADOR BANJO BSP
DREHBARE STAPLE-LOCK - BSP ADAPTERBUCHSE
ADATTATORE STAPLE-LOCK FEMMINA GIREVOLE - OCCHIELLO BSP

FLUIDTECHNIK S.R.L. 0723 382 199

PART. REF.	BOLT SIZE	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L_1	L_2	L_3	D
A510382-04-04	1/4 " BSP	6	1/4"	- 4	37	26	14	22	25
A510382-06-04	1/4 " BSP	10	3/8"	- 6	37	25	16.5	29	32
A510382-06-06	3/8 " BSP	10	3/8"	- 6	45	34	16.5	29	32
A510382-08-06	3/8 " BSP	12	1/2"	- 8	45	33	17.5	29	35
A510382-06-08	1/2 " BSP	10	3/8"	- 6	51	40	16.5	32	32
A510382-08-08	1/2 " BSP	12	1/2"	- 8	51	40	17.5	32	35



O80211

BANJO BOLT FOR STAPLE-LOCK
PASADOR BANJO PARA STAPLE-LOCK
HOHLSCHRAUBE FÜR STAPLE-LOCK
VITE FORATA PER OCCHIELLO (GAMMA STAPLE-LOCK)

PART. REF.	THREAD	DIMENSIONS mm	
		L	ACROSS FLATS (AF)
O80211-04	1/4" BSP	36	18
O80211-06	3/8" BSP	40	23.5
O80211-08	1/2" BSP	50	25.5

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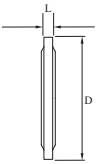
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STAPLE-LOCK

ADAPTORS

JO12

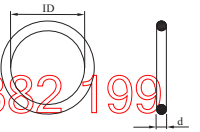
BSP BONDED WASHER
ARANDELA SOLIDA BSP
BSP VERBUND-UNTERLAGSCHEIBE
RONDELLA-GUARNIZIONE SALDATA BSP (BONDED WASHER)



PART. REF.	BOLT SIZE	DIMENSIONS mm	
		L	D
JO12211421	1/4" BSP	2.1	20.6
JO12241721	3/8" BSP	2.1	23.8
JO12292225	1/2" BSP	2.5	28.6
JO12352725	3/4" BSP	2.5	34.9
JO12433433	1" BSP	3.3	42.8
JO12524333	1 1/4" BSP	3.3	52.4
JO12594833	1 1/2" BSP	3.3	58.6
JO12736133	2" BSP	3.3	73.0

JO04

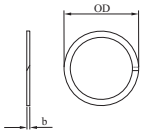
STAPLE-LOCK MALE END O-RING
O-RING PARA TERMINAL MACHO DE STAPLE-LOCK
STAPLE-LOCK O-RING FÜR STECKKUPPLUNG
O-RING PER STAPLE-LOCK MASCHIO



FLUIDTECHNIK S.R.L. 0723 382 199

PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	ID	d				
JO04100620	6	1/4"	- 4	6	2				
JO04141020	10	3/8"	- 6	10	2				
JO04181325	12	1/2"	- 8	13	2.5				
JO04241925	19	3/4"	- 12	19	2.5				
JO04302525	25	1"	- 16	25	2.5				
JO04383325	31	1.1/4"	- 20	33	2.5				
JO04464030	38	1.1/2"	- 24	40	3				
JO04554930	51	2"	- 32	49	3				
JO04787230	63	2.1/2"	- 40	72	3				
JO04868030	76	3"	- 48	80	3				

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JO15

STAPLE-LOCK MALE END BACK-UP RING
BACK-UP RING PARA TERMINAL MACHO DE STAPLE-LOCK
STÜTZRING FÜR STAPLE-LOCK STECKER
ANELLO BACK-UP PER STAPLE-LOCK MASCHIO

PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	OD	b				
JO15100708	6	1/4"	- 4	10	0.8				
JO15141108	10	3/8"	- 6	14	0.8				
JO15181408	12	1/2"	- 8	18	0.8				
JO15242008	19	3/4"	- 12	24	0.8				
JO15312708	25	1"	- 16	31	0.8				
JO15383408	31	1.1/4"	- 20	38	0.8				
JO15474215	38	1.1/2"	- 24	47	1.5				
JO15565115	51	2"	- 32	56	1.5				

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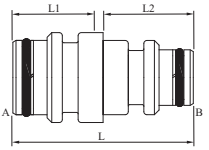
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STAPLE-LOCK

ADAPTORS

A504848

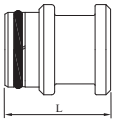
STRAIGHT ADAPTOR STAPLE-LOCK MALE
ADAPTADOR MACHO RECTO STAPLE-LOCK
ADAPTER STECKKUPPLUNG
ADATTATORE DRITTO MASCHIO STAPLE-LOCK



PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L_1	L_2			
A504848-04-04	6	1/4"	- 4	6	1/4"	- 4	58	26	26			
A504848-04-06	10	3/8"	- 6	6	1/4"	- 4	58	26	26			
A504848-04-08	12	1/2"	- 8	6	1/4"	- 4	58	26	26			
A504848-06-06	10	3/8"	- 6	10	3/8"	- 6	58	26	26			
A504848-06-08	12	1/2"	- 8	10	3/8"	- 6	58	26	26			
A504848-06-12	19	3/4"	- 12	10	3/8"	- 6	58	26	26			
A504848-06-16	25	1"	- 16	10	3/8"	- 6	64	32	26			
A504848-06-20	31	1.1/4"	- 20	10	3/8"	- 6	64	32	26			
A504848-08-08	12	1/2"	- 8	12	1/2"	- 8	58	26	26			
A504848-08-12	19	3/4"	- 12	12	1/2"	- 8	58	26	26			
A504848-08-16	25	1"	- 16	12	1/2"	- 8	64	32	26			
A504848-08-20	31	1.1/4"	- 20	12	1/2"	- 8	64	32	26			
A504848-08-24	38	1.1/2"	- 24	12	1/2"	- 8	70	36	26			
A504848-08-32	51	2"	- 32	12	1/2"	- 8	76	36	26			
A504848-12-12	19	3/4"	- 12	19	3/4"	- 12	58	26	26			
A504848-12-16	25	1"	- 16	19	3/4"	- 12	64	32	26			
A504848-12-20	31	1.1/4"	- 20	19	3/4"	- 12	64	32	26			
A504848-12-24	38	1.1/2"	- 24	19	3/4"	- 12	70	36	26			
A504848-12-32	51	2"	- 32	19	3/4"	- 12	76	36	26			
A504848-16-16	25	1"	- 16	25	1"	- 16	69	32	32			
A504848-16-20	31	1.1/4"	- 20	25	1"	- 16	70	32	32			
A504848-16-24	38	1.1/2"	- 24	25	1"	- 16	76	36	32			
A504848-16-32	51	2"	- 32	25	1"	- 16	76	36	32			
A504848-20-20	31	1.1/4"	- 20	31	1.1/4"	- 20	69	32	32			
A504848-20-24	38	1.1/2"	- 24	31	1.1/4"	- 20	76	36	32			
A504848-20-32	51	2"	- 32	31	1.1/4"	- 20	76	36	32			
A504848-24-24	38	1.1/2"	- 24	38	1.1/2"	- 24	80	36	36			
A504848-24-32	51	2"	- 32	38	1.1/2"	- 24	80	36	32			
A504848-32-32	51	2"	- 32	51	2"	- 32	80	36	36			
A504848-40-40	63	2.1/2"	- 40	63	2.1/2"	- 40	140	65	65			
A504848-48-48	76	3"	- 48	76	3"	- 48	150	70	70			

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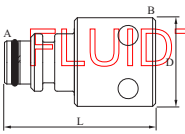
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A404800

STAPLE-LOCK MALE END PLUG
TAPON MACHO STAPLE-LOCK
STAPLE-LOCK BLIND-STECKER
TAPPO STAPLE-LOCK MASCHIO

PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	L					
A404800-04	6	1/4"	- 4	34					
A404800-06	10	3/8"	- 6	34					
A404800-08	12	1/2"	- 8	34					
A404800-12	19	3/4"	- 12	34					
A404800-16	25	1"	- 16	41					
A404800-20	31	1.1/4"	- 20	41					
A404800-24	38	1.1/2"	- 24	47					
A404800-32	51	2"	- 32	47					
A404800-40	63	2.1/2"	- 40	80					
A404800-48	76	3"	- 48	110					



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A524848

STRAIGHT ADAPTOR STAPLE-LOCK MALE - FEMALE
ADAPTADOR RECTO MACHO - HEMBRA STAPLE-LOCK
GERADER STECKER - BUCHSE ADAPTER
ADATTATORE STAPLE-LOCK DRITTO MASCHIO - FEMMINA

PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	D				
A524848-06-06	10	3/8"	- 6	10	3/8"	- 6	62	32				
A524848-08-06	12	1/2"	- 8	10	3/8"	- 6	57	32				
A524848-08-12	12	1/2"	- 8	19	3/4"	- 12	66	45				
A524848-12-08	19	3/4"	- 12	12	1/2"	- 8	59	35				
A524848-16-12	25	1"	- 16	19	3/4"	- 12	68	45				

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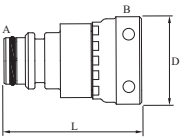
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STAPLE-LOCK

ADAPTORS

A524882

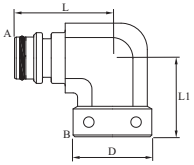
STRAIGHT ADAPTOR STAPLE-LOCK MALE - SWIVEL FEMALE
ADAPTADOR RECTO MACHO - HEMBRA GIRATORIA STAPLE-LOCK
GERADER STECKER - DREHBARE BUCHSE ADAPTER
ADATTATORE STAPLE-LOCK DRITTO MASCHIO - FEMMINA GIREVOLE



PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	D				
A524882-04-04	6	1/4"	- 4	6	1/4"	- 4	69	25				
A524882-04-06	6	1/4"	- 4	10	3/8"	- 6	69	32				
A524882-04-08	6	1/4"	- 4	12	1/2"	- 8	69	35				
A524882-06-04	10	3/8"	- 6	6	1/4"	- 4	69	25				
A524882-06-06	10	3/8"	- 6	10	3/8"	- 6	69	32				
A524882-06-08	10	3/8"	- 6	12	1/2"	- 8	69	35				
A524882-06-12	10	3/8"	- 6	19	3/4"	- 12	69	45				
A524882-08-04	12	1/2"	- 8	6	1/4"	- 4	69	25				
A524882-08-06	12	1/2"	- 8	10	3/8"	- 6	63	32				
A524882-08-08	12	1/2"	- 8	12	1/2"	- 8	64	35				
A524882-08-12	12	1/2"	- 8	19	3/4"	- 12	69	45				
A524882-12-06	19	3/4"	- 12	10	3/8"	- 6	69	32				
A524882-12-08	19	3/4"	- 12	12	1/2"	- 8	69	36				
A524882-12-12	19	3/4"	- 12	19	3/4"	- 12	69	45				
A524882-12-16	19	3/4"	- 12	25	1"	- 16	81	60				
A524882-12-20	19	3/4"	- 12	31	1 1/4"	- 20	83	60				
A524882-16-06	25	1"	- 16	10	3/8	- 6	76	32				
A524882-16-08	25	1"	- 16	12	1/2	- 8	76	35				
A524882-16-12	25	1"	- 16	19	3/4	- 12	76	45				
A524882-16-16	25	1"	- 16	25	1	- 16	83	60				
A524882-16-20	25	1"	- 16	31	1.1/4	- 20	83	60				
A524882-20-06	31	1.1/4"	- 20	10	3/8"	- 6	76	32				
A524882-20-08	31	1.1/4"	- 20	12	1/2"	- 8	76	35				
A524882-20-12	31	1.1/4"	- 20	19	3/4"	- 12	79	45				
A524882-20-16	31	1.1/4"	- 20	25	1"	- 16	81	60				
A524882-20-20	31	1.1/4"	- 20	31	1.1/4"	- 20	83	60				

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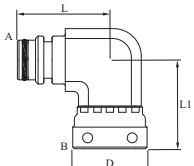
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A584848

90° ADAPTOR STAPLE-LOCK MALE - FEMALE
ADAPTADOR MACHO - HEMBRA A 90° STAPLE-LOCK
90° STAPLE-LOCK STECKER - BUCHSE ADAPTER
ADATTATORE STAPLE-LOCK 90° MASCHIO - FEMMINA

PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L1	D			
A584848-06-06	10	3/8"	- 6	10	3/8"	- 6	46	32	32			
A584848-08-08	12	1/2"	- 8	12	1/2"	- 8	51	35	35			
A584848-12-12	19	3/4"	- 12	19	3/4"	- 12	56	40	45			
A584848-16-16	25	1"	- 16	25	1"	- 16	66	48	55			
A584848-20-20	31	1.1/4"	- 20	31	1.1/4"	- 20	68	55	60			



A584882

90° ADAPTOR STAPLE-LOCK MALE - SWIVEL FEMALE
ADAPTADOR MACHO - HEMBRA GIRATORIA A 90° STAPLE-LOCK
90° STAPLE-LOCK STECKER - DREHBARE BUCHSE ADAPTER
ADATTATORE STAPLE-LOCK 90° MASCHIO - FEMMINA GIREVOLE

FLUIDTECHNIK S.R.L. 0723 382 199

PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L1	D			
A584882-04-04	6	1/4"	- 4	6	1/4"	- 4	46	44	25			
A584882-06-06	10	3/8"	- 6	10	3/8"	- 6	46	44	32			
A584882-06-08	10	3/8"	- 6	12	1/2"	- 8	51	48	35			
A584882-08-06	12	1/2"	- 8	10	3/8"	- 6	51	48	32			
A584882-08-08	12	1/2"	- 8	12	1/2"	- 8	51	48	35			
A584882-12-12	19	3/4"	- 12	19	3/4"	- 12	56	57	45			
A584882-16-16	25	1"	- 16	25	1"	- 16	66	68	60			
A584882-20-20	31	1.1/4"	- 20	31	1.1/4"	- 20	68	68	60			

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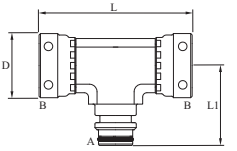
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STAPLE-LOCK

ADAPTORS

A744882

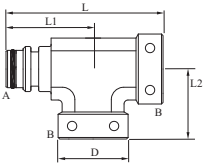
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STAPLE-LOCK EN TE CON HEMBRAS GIRATORIAS CENTRAL Y MACHO
T-STÜCK DREHBARE BUCHSEN - STECKER
ADATTATORE STAPLE-LOCK "T" CENTRALE A VITE FEMMINA GIREVOLE - MASCHIO



PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L1	D			
A744882-04-04	6	1/4"	- 4	6	1/4"	- 4	88	46	25			
A744882-06-06	10	3/8"	- 6	10	3/8"	- 6	88	46	32			
A744882-08-08	12	1/2"	- 8	12	1/2"	- 8	96	52	35			
A744882-12-12	19	3/4"	- 12	19	3/4"	- 12	107	57	45			

A754848

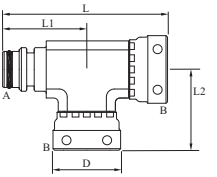
RUN TEE STAPLE-LOCK MALE - FEMALE
STAPLE-LOCK EN T CON HEMBRAS LATERAL Y MACHO
T-STÜCK DREHBARE BUCHSEN - STECKER
ADATTATORE STAPLE-LOCK "T" LATERALE MASCHIO - FEMMINA



PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L1	L2	D		
A754848-06-06	10	3/8"	- 6	10	3/8"	- 6	85	48	32	32		
A754848-08-08	12	1/2"	- 8	12	1/2"	- 8	93	51	35	35		
A754848-12-12	19	3/4"	- 12	19	3/4"	- 12	96	53	40	45		
A754848-16-16	25	1"	- 16	25	1"	- 16	119	66	48	55		

A754882

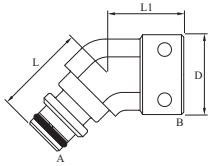
RUN TEE STAPLE-LOCK MALE - SWIVEL FEMALE
STAPLE-LOCK EN T CON HEMBRAS GIRATORAS LATERAL Y MACHO
DREHBARE BUCHSEN - STECKER
ADATTATORE STAPLE-LOCK "T" LATERALE MASCHIO - FEMMINA GIREVOLE



PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L1	L2	D		
A754882-04-04	6	1/4"	- 4	6	1/4"	- 4	90	46	44	25		
A754882-06-06	10	3/8"	- 6	10	3/8"	- 6	90	46	44	32		
A754882-08-08	12	1/2"	- 8	12	1/2"	- 8	100	52	48	35		
A754882-12-12	19	3/4"	- 12	19	3/4"	- 12	114	57	57	45		
A754882-16-16	25	1"	- 16	25	1"	- 16	139	71	68	60		

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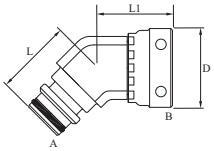
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A554848

45° ADAPTOR STAPLE-LOCK MALE - FEMALE
ADAPTADOR STAPLE-LOCK MACHO - HEMBRA A 45°
45° F-M-STECKKUPPLUNGADAPTER
ADATTATORE STAPLE-LOCK 45° MASCHIO - FEMMINA

PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L1	D			
A554848-06-06	10	3/8"	- 6	10	3/8"	- 6	39	31	32			
A554848-08-08	12	1/2"	- 8	12	1/2"	- 8	39	34	35			
A554848-12-12	19	3/4"	- 12	19	3/4"	- 12	43	34	45			



A554882

45° ADAPTOR STAPLE-LOCK MALE - SWIVEL FEMALE
ADAPTADOR STAPLE-LOCK MACHO - HEMBRA GIRATORIA A 45°
45° F-STECKKUPPLUNGADAPTER - M-GELENK
ADATTATORE STAPLE-LOCK 45° MASCHIO - FEMMINA GIREVOLE

PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L1	D			
A554882-04-04	6	1/4"	- 4	6	1/4"	- 4	40	39	25			
A554882-06-06	10	3/8"	- 6	10	3/8"	- 6	40	39	32			
A554882-08-08	12	1/2"	- 8	12	1/2"	- 8	40	40	35			
A554882-12-12	19	3/4"	- 12	19	3/4"	- 12	43	47	45			
A554882-16-16	25	1"	- 16	25	1"	- 16	52	54	60			
A554882-20-20	31	1.1/4"	- 20	31	1.1/4"	- 20	52	54	60			

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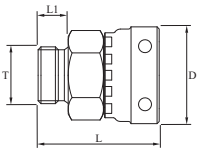
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STAPLE-LOCK

ADAPTORS

A524448

BSP MALE FLAT FACE FOR BONDED WASHER - STAPLE-LOCK FEMALE ADAPTOR
ADAPTADOR STAPLE-LOCK MACHO BSP CARA PLANA PARA ARANDELA SOLIDA Y HEMBRA
BSP FLACHDICHTENDER STECKER FÜR VERBUNDUNTERLAGSCHEIBE - BUCHSE M-STECKKUPPLUNGADAPTER
BSP MASCHIO FACCIA PIANA PER BONDED WASHER - STAPLE-LOCK FEMMINA



A524482

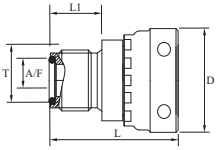
BSP MALE FLAT FACE FOR BONDED WASHER - STAPLE-LOCK SWIVEL FEMALE ADAPTOR
ADAPTADOR STAPLE-LOCK MACHO CARA PLANA BSP PARA ARANDELA SOLIDA Y HEMBRA GIRATORIA
BSP FLACHDICHTENDER STECKER FÜR VERBUNDUNTERLAGSCHEIBE - BUCHSE M-STECKKUPPLUNGADAPTER
BSP MASCHIO FACCIA PIANA PER BONDED WASHER - STAPLE-LOCK FEMMINA GIREVOLE

PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L_1	D	AF	
A524482-04-04*	1/4" BSP	6	3/8"	- 4	47	10	32	22	
A524482-04-06*	1/4" BSP	10	3/8"	- 6	47	10	32	22	
A524482-06-04*	3/8" BSP	6	1/4"	- 4	47	9	25	22	
A524482-06-06*	3/8" BSP	10	3/8"	- 6	48	10	32	22	
A524482-06-08*	3/8" BSP	12	1/2"	- 8	53	10	35	27	
A524482-08-06*	1/2" BSP	10	3/8"	- 6	54	13	32	27	
A524482-08-08*	1/2" BSP	12	1/2"	- 8	56	13	35	27	
A524482-08-12*	1/2" BSP	19	3/4"	- 12	59	13	45	36	
A524482-12-08*	3/4" BSP	12	1/2"	- 8	59	14	35	36	
A524482-12-12*	3/4" BSP	19	3/4"	- 12	59	14	45	36	
A524482-12-06*	3/4" BSP	25	1"	- 16	63	14	60	46	
A524482-16-08*	1" BSP	12	1/2"	- 8	60	17	35	41	
A524482-16-12*	1" BSP	19	3/4"	- 12	62	17	45	46	
A524482-16-16*	1" BSP	25	1"	- 16	73	17	60	46	
A524482-16-20*	1" BSP	31	1.1/4"	- 20	80	17	60	50	
A524482-20-12*	1.1/4" BSP	19	3/4	- 12	63	20	60	50	
A524482-20-16*	1.1/4" BSP	25	1"	- 16	77	19	60	50	
A524482-20-20*	1.1/4" BSP	31	1.1/4"	- 20	74	19	60	50	
A524482-24-20*	1.1/2" BSP	31	1.1/4"	- 20	72	20	60	55	
A524448-24-24	1.1/2" BSP	38	1.1/2"	- 24	76	20	70	70	
A524448-32-32	2" BSP	51	2"	- 32	80	23	80	80	

* **Swivel** / Giratoria / Gelenk / Girevole

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A526482E

BSP MALE FRONT SEAL HEX. SOCKET HEAD - STAPLE-LOCK SWIVEL FEMALE ADAPTOR

ADAPTADOR MACHO BSP "HEXAGONO ENCAJADO" Y HEMBRA GIRATORIA STAPLE-LOCK

BSP F- FRONTDICHTUNG SECHSKANT-INBUSSCHRAUBE - DREHBARE BUCHSE ADAPTER

ADATTATORE BSP MASCHIO "ESAGONO INCASSATO" - STAPLE-LOCK FEMMINA GIREVOLE

PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L1	D	AF	
A526482E-12-06	3/4" BSP	10	3/8"	- 6	33	15	32	10	
A526482E-12-08	3/4" BSP	12	1/2"	- 8	68	24	35	10	
A526482E-12-12	3/4" BSP	19	3/4"	- 12	67	24	45	14	

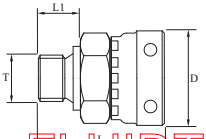
A520682

BSP MALE FLAT FACE DIN 3852-2 FORM A - STAPLE-LOCK SWIVEL FEMALE ADAPTOR

ADAPTADOR MACHO BSP CARA PLANA DIN 3852-2 FORMA A - HEMBRA GIRATORIA STAPLE-LOCK

BSP FLACHDICHTENDER EINSCHRAUBZAPFEN DIN 3852-2 FORM A - DREHBARE BUCHSE ADAPTER

ADATTATORE BSP MASCHIO FACCIA PIANA DIN 3852-2 FORMA A - STAPLE-LOCK FEMMINA GIREVOLE



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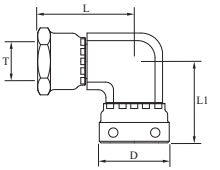
PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L1	D	AF	
A520682-04-04	1/4" BSP	6	1/4"	- 4	52	12	25	22	
A520682-06-04	3/8" BSP	6	1/4"	- 4	52	12	25	22	
A520682-06-06	3/8" BSP	10	3/8"	- 6	52	12	32	24	
A520682-06-08	3/8" BSP	12	1/2"	- 8	57	12	35	30	
A520682-08-06	1/2" BSP	10	3/8"	- 6	57	14	32	27	
A520682-08-08	1/2" BSP	12	1/2"	- 8	57	14	35	30	
A520682-08-12	1/2" BSP	19	3/4"	- 12	57	14	45	36	
A520682-12-08	3/4" BSP	12	1/2"	- 8	59	16	35	32	
A520682-12-12	3/4" BSP	19	3/4"	- 12	59	16	45	36	
A520682-12-16	3/4" BSP	25	1"	- 16	66	16	60	46	
A520682-16-08	1" BSP	12	1/2"	- 8	61	18	35	41	
A520682-16-12	1" BSP	19	3/4"	- 12	63	18	45	41	
A520682-16-16	1" BSP	25	1"	- 16	68	18	60	46	
A520682-16-20	1" BSP	31	1.1/4" "	- 20	68	18	60	50	
A520682-20-16	1.1/4" BSP	25	1"	- 16	70	20	60	50	
A520682-20-20	1.1/4" BSP	31	1.1/4"	- 20	70	20	60	50	
A520682-24-20	1.1/2" BSP	31	1.1/4"	- 20	72	22	60	55	

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STAPLE-LOCK

ADAPTORS

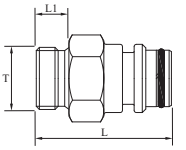
A570582



90° ADAPTOR BSP FEMALE 60° CONE - STAPLE-LOCK SWIVEL FEMALE
ADAPTADOR A 90° BSP HEMBRA ASIENTO A 60° - HEMBRA GIRATAORIA STAPLE-LOCK
90° M-BSP-ADAPTER 60° KONUS - STAPLE-LOCK DREHBARE BUCHSE
ADATTATORE BSP 90° FEMMINA CONO 60° - STAPLE-LOCK FEMMINA GIREVOLE

PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L_1	D		
A570582-04-04	1/4" BSP	6	1/4"	- 4	43	44	25		
A570582-06-06	3/8" BSP	10	3/8"	- 6	42	48	32		
A570582-08-08	1/2" BSP	12	1/2"	- 8	45	48	35		

A504448

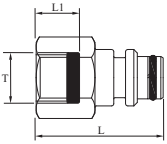


BSP MALE FLAT FACE FOR BONDED WASHER - STAPLE-LOCK MALE ADAPTOR
ADAPTADOR BSP MACHO CARA PLANA - MACHO STAPLE-LOCK
BSP FLACHDICHTENDE S-EINSCHRANBGEWINDE FÜR VERBUNDUNTERLAGSCHEIBE
ADATTATORE MASCHIO BSP FACCIA PIANA PER BONDED WASHER - STAPLE-LOCK MASCHIO

PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L_1	AF		
A504448-04-04	1/4" BSP	6	1/4"	- 4	51	9	19		
A504448-04-06	1/4" BSP	10	3/8"	- 6	51	9	22		
A504448-06-04	3/8" BSP	6	1/4"	- 4	51	10	22		
A504448-06-06	3/8" BSP	10	3/8"	- 6	51	10	22		
A504448-06-08	3/8" BSP	12	1/2"	- 8	50	10	27		
A504448-08-06	1/2" BSP	10	3/8"	- 6	50	13	27		
A504448-08-08	1/2" BSP	12	1/2"	- 8	55	13	27		
A504448-12-08	3/4" BSP	12	1/2"	- 8	58	14	32		
A504448-12-12	3/4" BSP	19	3/4"	- 12	58	14	32		
A504448-12-16	3/4" BSP	25	1"	- 16	72	14	46		
A504448-16-08	1" BSP	12	1/2"	- 8	62	17	41		
A504448-16-16	1" BSP	25	1"	- 16	72	17	46		
A504448-20-16	1.1/4" BSP	25	1"	- 16	79	19	50		
A504448-20-20	1.1/4" BSP	31	1.1/4"	- 20	79	19	50		
A504448-24-24	1.1/2" BSP	38	1.1/2"	- 24	82	23	65		
A504448-32-32	2" BSP	51	2"	- 32	82	23	70		

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A524804

STAPLE-LOCK MALE - BSP FIXED FEMALE ADAPTOR

ADAPTADOR STAPLE-LOCK MACHO - HEMBRA BSP FIJA

STAPLE-LOCK STECKER - BSP MUTTER EINTEILIGENT ADAPTER

ADATTATORE STAPLE-LOCK MASCHIO - BSP FEMMINA FISSA

PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L1	AF		
A524804-04-04	1/4" BSP	6	1/4"	- 4	51	13	21		
A524804-06-06	3/8" BSP	10	3/8"	- 6	54	13	24		
A524804-08-06	1/2" BSP	10	3/8"	- 6	55	17	30		
A524804-08-08	1/2" BSP	12	1/2"	- 8	54	17	30		

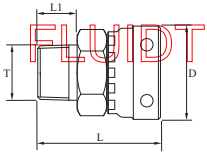
A522848

NPTF MALE - STAPLE-LOCK FEMALE ADAPTOR

ADAPTADOR MACHO NPTF - HEMBRA STAPLE-LOCK

NPTF EINSCHRAMBGEWINDE - STAPLE-LOCK BUCHSE ADAPTER

ADATTATORE MASCHIO NPTF - FEMMINA STAPLE-LOCK



FLUIDTECHNIK S.R.L. 0723 382 199

A522882

NPTF MALE - STAPLE-LOCK SWIVEL FEMALE ADAPTOR

ADAPTADOR MACHO NPTF - HEMBRA GIRATORIA STAPLE-LOCK

NPTF EINSCHRAMBGEWINDE - DREHBARE STAPLE-LOCK BUCHSE ADAPTER

ADATTATORE MASCHIO NPTF - FEMMINA STAPLE-LOCK GIREVOLE

PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L1	D	AF	
A522882-02-04*	1/8" NPTF	6	1/4"	- 4	47	10	25	19	
A522882-04-04*	1/4" NPTF	6	1/4"	- 4	52	15	25	19	
A522882-04-06*	1/4" NPTF	10	3/8"	- 6	52	15	32	22	
A522882-06-04*	3/8" NPTF	6	1/4"	- 4	55	15	25	19	
A522882-06-06*	3/8" NPTF	10	3/8"	- 6	52	15	32	22	
A522882-06-08*	3/8" NPTF	12	1/2"	- 8	56	15	35	27	
A522882-08-06*	1/2" NPTF	10	3/8"	- 6	57	19	32	22	
A522882-08-08*	1/2" NPTF	12	1/2"	- 8	60	19	35	27	
A522882-08-12*	1/2" NPTF	19	3/4"	- 12	62	19	45	36	
A522882-12-08*	3/4" NPTF	12	1/2"	- 8	60	19	35	30	
A522882-12-12*	3/4" NPTF	19	3/4"	- 12	63	19	45	36	
A522882-12-06*	3/4" NPTF	25	1"	- 16	76	19	60	46	
A522882-16-12*	1" NPTF	19	3/4"	- 12	65	24	45	36	
A522882-16-16*	1" NPTF	25	1"	- 16	81	24	60	46	
A522882-16-20*	1" NPTF	31	1.1/4"	- 20	81	24	60	50	
A522882-20-16*	1.1/4" NPTF	25	1"	- 16	82	25	60	46	
A522882-20-20*	1.1/4" NPTF	31	1.1/4"	- 20	82	25	60	50	
A522848-24-24	1.1/2" NPTF	38	1.1/2"	- 24	80	26	80	70	
A522848-32-32	2" NPTF	51	2"	- 32	80	26	85	75	

* **Swivel** / Giratoria / Gelenk / Girevole

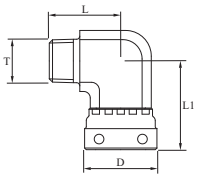
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STAPLE-LOCK

ADAPTORS

A582848

90° ADAPTOR NPTF MALE - STAPLE-LOCK FEMALE
ADAPTADOR MACHO NPTF A 90° - HEMBRA STAPLE-LOCK
90° ADAPTER F-NPTF - STAPLE-LOCK BUCHSE
ADATTATORE 90° MASCHIO NPTF – FEMMINA STAPLE-LOCK



A582882

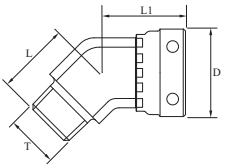
90° ADAPTOR NPTF MALE - STAPLE-LOCK SWIVEL FEMALE
ADAPTADOR MACHO NPTF A 90° - HEMBRA GIRATORIA STAPLE-LOCK
90° ADAPTER F-NPTF - STAPLE-LOCK DREHBARE BUCHSE
ADATTATORE 90° MASCHIO NPTF - FEMMINA STAPLE-LOCK GIREVOLE

PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L_1	D		
A582882-02-04*	1/8" NPTF	6	1/4"	- 4	31	44	25		
A582882-04-04*	1/4" NPTF	6	1/4"	- 4	31	44	25		
A582882-04-06*	1/4" NPTF	10	3/8"	- 6	34	44	32		
A582882-06-04*	3/8" NPTF	6	1/4"	- 4	31	44	25		
A582882-06-06*	3/8" NPTF	10	3/8"	- 6	34	44	32		
A582882-06-08*	3/8" NPTF	12	1/2"	- 8	34	48	35		
A582882-08-06*	1/2" NPTF	10	3/8"	- 6	36	44	32		
A582882-08-08*	1/2" NPTF	12	1/2"	- 8	40	48	35		
A582882-08-12*	1/2" NPTF	19	3/4"	- 12	44	57	45		
A582882-12-08*	3/4" NPTF	12	1/2"	- 8	40	48	35		
A582882-12-12*	3/4" NPTF	19	3/4"	- 12	44	57	45		
A582882-12-16*	3/4" NPTF	25	1"	- 16	46	67	60		
A582882-16-12*	1" NPTF	19	3/4"	- 12	48	58	45		
A582882-16-16*	1" NPTF	25	1"	- 16	58	67	60		
A582882-20-20*	1.1/4" NPTF	31	1.1/4"	- 20	66	67	60		
A582848-24-24	1.1/2" NPTF	38	1.1/2"	- 24	80	81	80		
A582848-32-32	2" NPTF	51	2"	- 32	102	102	100		

* **Swivel** / Giratoria / Gelenk / Girevole

A552882

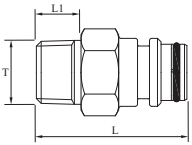
45° ADAPTOR NPTF MALE - STAPLE-LOCK SWIVEL FEMALE
ADAPTADOR MACHO NPTF A 45° - HEMBRA GIRATORIA STAPLE-LOCK
45° ADAPTER F-NPTF - STAPLE-LOCK BUCHSE
ADATTATORE 45° MASCHIO NPTF - FEMMINA STAPLE-LOCK GIREVOLE



PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L_1	D		
A552882-04-04	1/4" NPTF	6	1/4"	- 4	28	39	25		
A552882-06-06	3/8" NPTF	10	3/8"	- 6	29	39	32		
A552882-08-08	1/2" NPTF	12	1/2"	- 8	31	40	35		
A552882-12-12	3/4" NPTF	19	3/4"	- 12	38	48	45		
A552882-16-16	1" NPTF	25	1"	- 16	49	54	60		
A552882-20-20	1.1/4" NPTF	31	1.1/4"	- 20	50	48	69		

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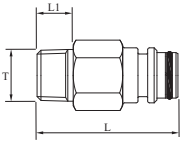
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A502848

NPTF MALE - STAPLE-LOCK MALE ADAPTOR
ADAPTADOR MACHO NPTF - MACHO STAPLE LOCK
F-NPTF - F-STECKKUPPLUNGADAPTER
ADATTATORE MASCHIO NPTF - MASCHIO STAPLE-LOCK

PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L1	AF		
A502848-02-04	1/8" NPTF	6	1/4"	- 4	53	10	19		
A502848-04-04	1/4" NPTF	6	1/4"	- 4	53	14	19		
A502848-04-06	1/4" NPTF	10	3/8"	- 6	53	14	22		
A502848-06-04	3/8" NPTF	6	1/4"	- 4	53	14	19		
A502848-06-06	3/8" NPTF	10	3/8"	- 6	53	14	22		
A502848-06-08	3/8" NPTF	12	1/2"	- 8	53	14	27		
A502848-08-06	1/2" NPTF	10	3/8"	- 6	58	19	22		
A502848-08-08	1/2" NPTF	12	1/2"	- 8	58	19	27		
A502848-08-12	1/2" NPTF	19	3/4"	- 12	60	19	32		
A502848-12-08	3/4" NPTF	12	1/2"	- 8	60	19	30		
A502848-12-12	3/4" NPTF	19	3/4"	- 12	60	19	32		
A502848-12-16	3/4" NPTF	25	1"	- 16	74	19	41		
A502848-16-12	1" NPTF	19	3/4"	- 12	68	24	36		
A502848-16-16	1" NPTF	25	1"	- 16	78	24	41		
A502848-20-20	1.1/4" NPTF	31	1.1/4"	- 20	79	25	50		
A502848-24-24	1.1/2" NPTF	38	1.1/2"	- 24	82	27	60		
A502848-32-32	2" NPTF	51	2"	- 32	82	27	70		



A502848...L

NPTF MALE - STAPLE-LOCK MALE ADAPTOR LONG BODY
ADAPTADOR LARGO MACHO NPTF - MACHO STAPLE-LOCK
F-NPTF - F-STECKKUPPLUNGADAPTER LANGER KORPUS
ADATTATORE MASCHIO NPTF - MASCHIO STAPLE-LOCK LUNGO

PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L1	AF		
A502848-02-04L	1/8" NPTF	6	1/4"	- 4	90	10	19		
A502848-04-04L	1/4" NPTF	6	1/4"	- 4	88	14	19		
A502848-04-06L	1/4" NPTF	10	3/8"	- 6	98	14	22		
A502848-06-06L	3/8" NPTF	10	3/8"	- 6	100	15	22		
A502848-06-08L	3/8" NPTF	12	1/2"	- 8	102	15	27		
A502848-08-06L	1/2" NPTF	10	3/8"	- 6	98	19	22		
A502848-08-08L	1/2" NPTF	12	1/2"	- 8	100	19	27		
A502848-12-12L	3/4" NPTF	19	3/4"	- 12	105	19	32		
A502848-16-16L	1" NPTF	25	1"	- 16	133	24	41		

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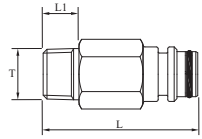
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STAPLE-LOCK

ADAPTORS

A502848...XL

NPTF MALE - STAPLE-LOCK MALE ADAPTOR EXTRA LONG BODY
ADAPTADOR EXTRALARGO MACHO NPTF - MACHO STAPLE-LOCK
F-NPTF - F-STECKKUPPLUNGADAPTER EXTRALANGER KORPUS
ADATTATORE MASCHIO NPTF - MASCHIO STAPLE-LOCK EXTRA LUNGO

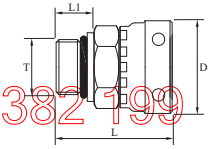


PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L1	AF		
A502848-04-04XL	1/4" NPTF	6	1/4"	- 4	125	14	19		
A502848-06-06XL	3/8" NPTF	10	3/8"	- 6	125	14	22		
A502848-06-08XL	3/8" NPTF	12	1/2"	- 8	145	14	27		
A502848-08-06XL	1/2" NPTF	10	3/8"	- 6	125	19	22		
A502848-08-08XL	1/2" NPTF	12	1/2"	- 8	144	19	27		
A502848-12-12XL	3/4" NPTF	19	3/4"	- 12	152	19	32		
A502848-16-16XL	1" NPTF	25	1"	- 16	198	24	41		
A502848-20-20XL	1.1/4" NPTF	31	1.1/4"	- 20	212	25	50		

A523082

SAE MALE O-RING BOSS TYPE - STAPLE-LOCK SWIVEL FEMALE ADAPTOR
ADAPTADOR MACHO SAE TIPO O-RING BOSS - HEMBRA GIRATORIA STAPLE-LOCK
SAE EINSCHRAUBGEWINDE O-RINGNUT - GIREROHR STAPLE-LOCK BUCHSE ADAPTER
ADATTATORE SAE MASCHIO TENUTA O-RING BOSS - FEMMINA GIREVOLE STAPLE-LOCK

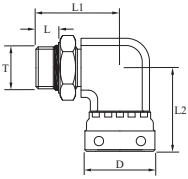
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PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L1	D	AF	
A523082-04-04	7/16" 20 UNF	6	1/4"	- 4	50	11	25	19	
A523082-04-06	7/16" 20 UNF	10	3/8"	- 6	50	11	32	22	
A523082-05-04	1/2" 20 UNF	6	1/4"	- 4	50	11	25	19	
A523082-06-04	9/16" 18 UNF	6	1/4"	- 4	50	12	25	19	
A523082-06-06	9/16" 18 UNF	10	3/8"	- 6	50	12	32	22	
A523082-06-08	9/16" 18 UNF	12	1/2"	- 8	54	12	35	27	
A523082-08-06	3/4" 16 UNF	10	3/8"	- 6	55	14	32	27	
A523082-08-08	3/4" 16 UNF	12	1/2"	- 8	56	14	35	27	
A523082-08-12	3/4" 16 UNF	19	3/4"	- 12	59	14	45	36	
A523082-10-08	7/8" 14 UNF	12	1/2"	- 8	59	16	35	27	
A523082-10-12	7/8" 14 UNF	19	3/4"	- 12	59	16	45	36	
A523082-12-08	1.1/16" 12 UNF	12	1/2"	- 8	59	18	35	36	
A523082-12-12	1.1/16" 12 UNF	19	3/4"	- 12	59	18	45	36	
A523082-12-06	1.1/16" 12 UNF	25	1"	- 16	76	18	60	46	
A523082-16-12	1.5/16" 12 UNF	19	3/4"	- 12	59	19	45	41	
A523082-16-16	1.5/16" 12 UNF	25	1"	- 16	76	19	60	46	
A523082-16-20	1.5/16" 12 UNF	31	1.1/4"	- 20	73	19	60	46	
A523082-20-12	1.5/8" 12 UNF	19	3/4"	- 12	59	19	45	50	
A523082-20-20	1.5/8" 12 UNF	31	1.1/4"	- 20	73	19	60	50	

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A583182

90° ADJUSTABLE SAE MALE O-RING BOSS TYPE - STAPLE-LOCK SWIVEL FEMALE ADAPTOR

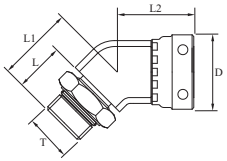
ADAPTADOR AJUSTABLE MACHO SAE TIPO O-RING BOSS A 90° - HEMBRA GIRATORIA STAPLE-LOCK

90° EINSTELLBAR SAE EINSCHRANBGEWINDE MIT O-RING - DREHBARE STAPLE-LOCK BUCHSE

ADATTATORE SAE 90° ORIENTABILE MASCHIO TENUTA O-RING BOSS - FEMMINA GIREVOLE STAPLE-LOCK

PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L_1	L_2	D	
A583182-04-04	7/16" 20 UNF	6	1/4"	- 4	10	32	44	25	
A583182-04-06	7/16" 20 UNF	10	3/8"	- 6	10	37	44	32	
A583182-06-04	9/16" 18 UNF	6	1/4"	- 4	12	38	44	25	
A583182-06-06	9/16" 18 UNF	10	3/8"	- 6	12	38	44	32	
A583182-06-08	9/16" 18 UNF	12	1/2"	- 8	12	45	48	35	
A583182-08-06	3/4" 16 UNF	10	3/8"	- 6	13	45	48	32	
A583182-08-08	3/4" 16 UNF	12	1/2"	- 8	13	46	48	35	
A583182-10-08	7/8" 14 UNF	12	1/2"	- 8	15	45	51	35	
A583182-10-12	7/8" 14 UNF	19	3/4"	- 12	15	54	57	45	
A583182-12-08	1.1/16" 12 UNF	12	1/2"	- 8	18	54	57	35	
A583182-12-12	1.1/16" 12 UNF	19	3/4"	- 12	18	54	57	45	
A583182-16-16	1.5/16" 12 UNF	25	1"	- 16	18	65	68	60	
A583182-20-20	1.5/8" 12 UNF	31	1.1/4"	- 20	18	65	68	60	

FLUIDTECHNIK S.R.L. 0723 382 199



A553182

45° ADJUSTABLE SAE MALE O-RING BOSS TYPE - STAPLE-LOCK SWIVEL FEMALE ADAPTOR

ADAPTADOR AJUSTABLE MACHO SAE TIPO O-RING BOSS A 45°

HEMBRA GIRATORIA STAPLE-LOCK

45° EINSTELLBAR SAE EINSCHRANBGEWINDE MIT O-RING - DREHBARE STAPLE-LOCK BUCHSE

ADATTATORE SAE 45° ORIENTABILE MASCHIO TENUTA O-RING BOSS

FEMMINA GIREVOLE STAPLE-LOCK

PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L_1	L_2	D	
A553182-04-04	7/16" 20 UNF	6	1/4"	- 4	10	32	40	25	
A553182-04-06	7/16" 20 UNF	10	3/8"	- 6	10	34	40	32	
A553182-06-04	9/16" 18 UNF	6	1/4"	- 4	12	34	40	25	
A553182-06-06	9/16" 18 UNF	10	3/8"	- 6	12	34	40	32	
A553182-06-08	9/16" 18 UNF	12	1/2"	- 8	12	45	40	35	
A553182-08-06	3/4" 16 UNF	10	3/8"	- 6	13	46	40	32	
A553182-08-08	3/4" 16 UNF	12	1/2"	- 8	13	46	40	35	
A553182-10-08	7/8" 14 UNF	12	1/2"	- 8	15	41	40	35	
A553182-12-08	1.1/16" 12 UNF	12	1/2"	- 8	18	45	40	35	
A553182-12-12	1.1/16" 12 UNF	19	3/4"	- 12	18	45	40	45	
A553182-16-16	1.5/16" 12 UNF	25	1"	- 16	18	51	51	60	
A553182-20-20	1.5/8" 12 UNF	31	1.1/4"	- 20	18	51	51	60	

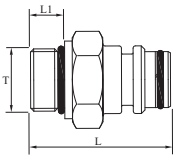
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STAPLE-LOCK

ADAPTORS

A503048

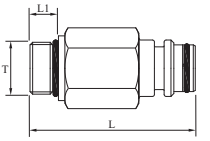
SAE MALE O-RING BOSS TYPE - STAPLE-LOCK MALE ADAPTOR
ADAPTADOR MACHO SAE TIPO O-RING BOSS - MACHO STAPLE-LOCK
SAE EINSCHRAUBGEWINDE MIT O-RING - STAPLE-LOCK STECKER
ADATTATORE SAE MASCHIO TENUTA O-RING BOSS - MASCHIO STAPLE-LOCK



PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L_1	AF		
A503048-04-04	7/16" 20 UNF	6	1/4"	- 4	50	14	19		
A503048-04-06	7/16" 20 UNF	10	3/8"	- 6	50	14	22		
A503048-05-04	1/2" 20 UNF	6	1/4"	- 4	52	14	19		
A503048-06-04	9/16" 18 UNF	6	1/4"	- 4	52	14	19		
A503048-06-06	9/16" 18 UNF	10	3/8"	- 6	52	14	22		
A503048-06-08	9/16" 18 UNF	12	1/2"	- 8	56	14	27		
A503048-08-06	3/4" 16 UNF	10	3/8"	- 6	53	15	22		
A503048-08-08	3/4" 16 UNF	12	1/2"	- 8	53	15	27		
A503048-08-12	3/4" 16 UNF	19	3/4"	- 12	55	15	32		
A503048-10-06	7/8" 14 UNF	10	3/8"	- 6	55	17	27		
A503048-10-08	7/8" 14 UNF	12	1/2"	- 8	56	17	27		
A503048-10-12	7/8" 14 UNF	19	3/4"	- 12	55	17	32		
A503048-12-08	1.1/16" 12 UNF	12	1/2"	- 8	57	19	36		
A503048-12-12	1.1/16" 12 UNF	19	3/4"	- 12	57	19	36		
A503048-16-12	1.5/16" 12 UNF	19	3/4"	- 12	60	20	41		
A503048-16-16	1.5/16" 12 UNF	25	1"	- 16	73	20	41		
A503048-20-20	1.5/16" 12 UNF	31	1.1/4"	- 20	73	20	50		

A503048...L

SAE MALE O-RING BOSS TYPE - STAPLE-LOCK MALE ADAPTOR LONG BODY
ADAPTADOR LARGO MACHO SAE TIPO O-RING BOSS - MACHO STAPLE-LOCK
SAE EINSCHRAUBGEWINDE MIT O-RING - STAPLE-LOCK STECKER
ADATTATORE SAE MASCHIO TENUTA O-RING BOSS - MASCHIO STAPLE-LOCK LUNGO

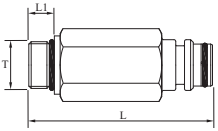


PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L_1	AF		
A503048-04-04L	7/16" 20 UNF	6	1/4"	- 4	85	14	19		
A503048-06-04L	9/16" 18 UNF	6	1/4"	- 4	85	14	19		
A503048-06-06L	9/16" 18 UNF	10	3/8"	- 6	95	14	22		
A503048-08-06L	3/4" 16 UNF	10	3/8"	- 6	95	15	22		
A503048-08-08L	3/4" 16 UNF	12	1/2"	- 8	95	15	27		
A503048-10-08L	7/8" 14 UNF	12	1/2"	- 8	95	17	27		
A503048-12-08L	1.1/16" 12 UNF	12	1/2"	- 8	95	19	27		
A503048-12-12L	1.1/16" 12 UNF	19	3/4"	- 12	100	19	36		
A503048-16-16L	1.5/16" 12 UNF	25	1"	- 16	130	21	41		
A503048-20-20L	1.5/8" 12 UNF	31	1.1/4"	- 20	140	21	50		

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A503048...XL



SAE MALE O-RING BOSS TYPE - STAPLE-LOCK MALE ADAPTOR EXTRA LONG BODY
ADAPTADOR EXTRALARGO MACHO SAE TIPO O-RING BOSS - MACHO STAPLE-LOCK
SAE EINSCHRAUBGEWINDE MIT O-RING - STAPLE-LOCK STECKER EXTRALANGER KORPUS
SUPER STECKKUPPLUNGADAPTER
ADATTATORE SAE MASCHIO TENUTA O-RING BOSS - MASCHIO STAPLE-LOCK EXTRA LUNGO

PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L_1	AF		
A503048-04-04XL	7/16" 20 UNF	6	1/4"	- 4	122	14	19		
A503048-06-04XL	9/16" 18 UNF	6	1/4"	- 4	122	14	19		
A503048-06-06XL	9/16" 18 UNF	10	3/8"	- 6	122	14	22		
A503048-08-06XL	3/4" 16 UNF	10	3/8"	- 6	122	15	22		
A503048-08-08XL	3/4" 16 UNF	12	1/2"	- 8	140	15	27		
A503048-10-08XL	7/8" 14 UNF	12	1/2"	- 8	140	17	27		
A503048-12-12XL	1.1/16" 12 UNF	19	3/4"	- 12	150	19	36		

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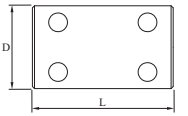
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SUPER STAPLE-LOCK

ADAPTORS

A514646

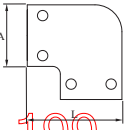
STRAIGHT SUPER STAPLE-LOCK FEMALE ADAPTOR
ADAPTADOR HEMBRA SUPER STAPLE-LOCK RECTO
GERADE SUPER STAPLE-LOCK VERBINDUNGSBUCHSE
ADATTATORE SUPER STAPLE-LOCK DRITTO FEMMINA



PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	L	D				
A514646-12-12	19	3/4"	- 12	74	45				
A514646-16-16	25	1"	- 16	104	60				
A514646-20-20	31	1.1/4"	- 20	106	70				
A514646-24-24	38	1.1/2"	- 24	117	80				
A514646-32-32	51	2"	- 32	117	90				
A514646-40-40	63	2.1/2"	- 40	141	106				

A574646

90° ADAPTOR SUPER STAPLE-LOCK FEMALE
ADAPTADOR HEMBRA SUPER STAPLE - LOCK A 90°
90° SUPER STAPLE-LOCK VERBINDUNGSBUCHSE
ADATTATORE SUPER STAPLE-LOCK 90° FEMMINA

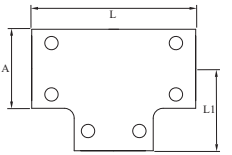


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PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	L	D				
A574646-16-16	25	1"	- 16	70	60				
A574646-20-20	31	1.1/4"	- 20	78	70				
A574646-24-24	38	1.1/2"	- 24	83	80				
A574646-32-32	51	2"	- 32	88	90				
A574646-40-40	63	2.1/2"	- 40	160	110				

A734646

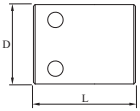
UNION TEE SUPER STAPLE-LOCK FEMALE
TE HEMBRA SUPER STAPLE-LOCK
T-STÜCK SUPER STAPLE-LOCK VERBINDUNGSBUCHSE
ADATTATORE SUPER STAPLE-LOCK "T" CENTRALE FEMMINA



PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	L	L1	A			
A734646-16-16	25	1"	- 16	140	70	60			
A734646-20-20	31	1.1/4"	- 20	156	78	70			
A734646-24-24	38	1.1/2"	- 24	166	83	80			
A734646-32-32	51	2"	- 32	176	88	90			
A734646-40-40	63	2.1/2"	- 40	210	105	110			

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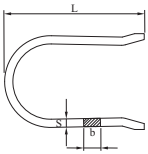
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A414600

SUPER STAPLE-LOCK FEMALE END CAP
TAPON HEMBRA SUPER STAPLE-LOCK
SUPER STAPLE-LOCK ABSCHLUSSKAPPE BUCHSE
TAPPO FEMMINA SUPER STAPLE-LOCK

PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	L	D				
A414600-12	19	3/4"	- 12	70	45				
A414600-16	25	1"	- 16	90	60				
A414600-20	31	1.1/4"	- 20	90	70				
A414600-24	38	1.1/2"	- 24	100	80				
A414600-32	51	2"	- 32	112	90				



JL4610FS

STAINLESS STEEL SUPER STAPLE
ACERO INOXIDABLE SUPER GRAPA
SUPER STAPLE-LOCK EDELSTAHLKLAMMER
SUPER STAPLE IN ACCIAO INOX

PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	s	b	L			
JL4610FS-12	19	3/4"	- 12	4	8	56			
JL4610FS-16	25	1"	- 16	6	12	78			
JL4610FS-20	31	1.1/4"	- 20	6	12	84			
JL4610FS-24	38	1.1/2"	- 24	6	12	99			
JL4610FL-24*	38	1.1/2"	- 24	6	12	112			
JL4610FS-32	51	2"	- 32	6	12	105			
JL4610FL-32*	51	2"	- 32	6	12	129			

* **Long** / largo / lang / lungo

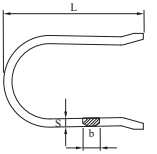
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SUPER STAPLE-LOCK

ADAPTORS

JL4610DS



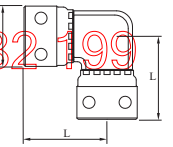
STAINLESS STEEL SUPER STAPLE-LOCK FORM "D"
ACERO INOXIDABLE SUPER GRAPA FORMA "D"
SUPER STAPLE-LOCK EDELSTAHLKLAMMER HALBRUND
SUPER STAPLE IN ACCIAO INOX FORMA "D"

PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	s	b	L			
JL4610DS-08	12	1/2"	- 08	6,4	7,9	53			
JL4610DS-12	19	3/4"	- 12	6,4	7,9	60			
JL4610DS-16	25	1"	- 16	9,3	11,9	75			
JL4610DS-20	31	1.1/4"	- 20	9,3	11,9	85			
JL4610DS-24	38	1.1/2"	- 24	9,3	11,9	92			
JL4610DL-24*	38	1.1/2"	- 24	9,3	11,9	112			
JL4610DS-32	51	2"	- 32	9,3	11,9	103			
JL4610DL-32*	51	2"	- 32	9,3	11,9	129			
JL4610DL-40*	63	2.1/2"	- 32	10	14	140			

* **Long** / largo / lang / lungo

A577272

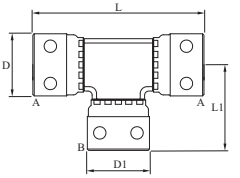
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90° ADAPTOR SUPER STAPLE-LOCK SWIVEL FEMALE
ADAPTADOR SUPER-STAPLE A 90° HEMBRA GIRATORIA
SUPER STAPLE-LOCK DREHBARE VERBINDUNGSBUCHSE
ADATTATORE SUPER STAPLE-LOCK 90° FEMMINA GIREVOLE

PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	L	D				
A577272-12-12	19	3/4"	- 12	66	45				

A737272



UNION TEE SUPER STAPLE-LOCK SWIVEL FEMALE
TE SUPER STAPLE-LOCK HEMBRA GIRATORIA
SUPER STAPLE-LOCK DREHBARE VERBINDUNGSBUCHSE
ADATTATORE SUPER STAPLE-LOCK "T" CENTRALE FEMMINA GIREVOLE

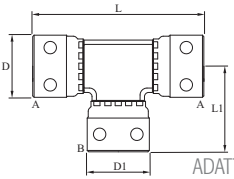
PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L1	D	D1		
A737272-12-12	19	3/4"	- 12	19	3/4"	- 12	132	66	45	45		

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SUPER STAPLE-LOCK

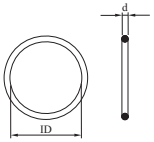
ADAPTORS



A797282

BRANCH TEE SUPER STAPLE-LOCK SWIVEL FEMALE - STAPLE-LOCK SWIVEL FEMALE
TE SUPER STAPLE–LOCK HEMBRAS GIRATORIAS ALINEADAS - HEMBRA GIRATORIA STAPLE-LOCK
T-STÜCK SUPER STAPLE-LOCK DREHBARE BUCHSENADAPTER A/B
ADATTATORE SUPER STAPLE-LOCK "T" LATERALE FEMMINA GIREVOLE - STAPLE-LOCK FEMMINA GIREVOLE

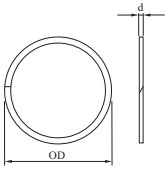
PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L_1	D	D_1		
A797282-08-12	19	3/4"	- 12	12	1/2"	- 8	132	56	45	35		



JO23

SUPER STAPLE-LOCK MALE END O-RING
O-RING DE TERMINAL MACHO SUPER STAPLE-LOCK
O-RING FÜR SUPER STAPLE-LOCK STECKER
O-RING PER MASCHIO SUPER STAPLE-LOCK

PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	ID	d				
JO23231825	19	3/4"	- 12	18	2.5				
JO23302525	25	1"	- 16	25	2.5				
JO23383325	31	1.1/4"	- 20	33	2.5				
JO23443830	38	1.1/2"	- 24	38	3.0				
JO23504430	51	2"	- 32	44	3.0				
JO23665935	63	2.1/2"	- 40	59	3.5				



JO15

SUPER STAPLE-LOCK MALE END BACK-UP RING
BACK UP RING PARA TERMINAL MACHO DE SUPER STAPLE-LOCK
STÜTZRING FÜR SUPER STAPLE-LOCK STECKER
ANELLO BACK-UP PER MASCHIO SUPER STAPLE-LOCK

PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	OD	d				
JO15221808	19	3/4"	- 12	22	0.8				
JO15312708	25	1"	- 16	31	0.8				
JO15383408	31	1.1/4"	- 20	38	0.8				
JO15443915	38	1.1/2"	- 24	44	1.5				
JO15504515	51	2"	- 32	50	1.5				
JO15656015	63	2.1/2"	- 40	65	1.5				

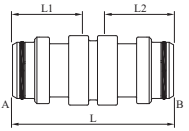
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SUPER STAPLE-LOCK

ADAPTORS

A504646

STRAIGHT ADAPTOR SUPER STAPLE-LOCK MALE
ADAPTADOR RECTO MACHO SUPER STAPLE-LOCK
GERADER SUPER STAPLE-LOCK STECKKUPPLUNGADAPTER GLEICHE ENDEN
ADATTATORE MASCHIO SUPER STAPLE-LOCK DRITTO

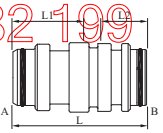


PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L_1	L_2			
A504646-12-12	19	3/4"	- 12	19	3/4"	- 12	81	36	36			
A504646-12-16	25	1"	- 16	19	3/4"	- 12	91	51	36			
A504646-16-16	25	1"	- 16	25	1"	- 16	110	51	51			
A504646-16-20	31	1.1/4"	- 20	25	1"	- 16	112	52	51			
A504646-20-20	31	1.1/4"	- 20	31	1.1/4"	- 20	110	52	52			
A504646-20-24	38	1.1/2"	- 24	31	1.1/4"	- 20	110	56	52			
A504646-24-24	38	1.1/2"	- 24	38	1.1/2"	- 24	124	56	56			
A504646-20-32	51	2"	- 32	31	1.1/4"	- 20	110	58	52			
A504646-32-24	51	2"	- 32	38	1.1/2"	- 24	124	58	56			
A504646-32-32	51	2"	- 32	51	2"	- 32	124	58	58			
A504646-40-40	63	2.1/2"	- 40	63	2.1/2"	- 40	212	69	69			

A504846

FLUIDTECHNIK S.R.L. 0723 382 199

STRAIGHT ADAPTOR STAPLE-LOCK MALE - SUPER STAPLE-LOCK MALE
ADAPTADOR RECTO MACHO STAPLE-LOCK - MACHO SUPER STAPLE-LOCK
GERADER SUPER STAPLE-LOCK STECKKUPPLUNGADAPTER A/B
ADATTATORE MASCHIO STAPLE-LOCK DRITTO - MASCHIO SUPER STAPLE-LOCK



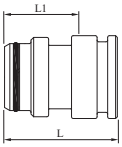
PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L_1	L_2			
A504846-08-12	19	3/4"	- 12	12	1/2"	- 8	67	36	28			
A504846-12-12	19	3/4"	- 12	19	3/4"	- 12	73	36	28			
A504846-12-16	25	1"	- 16	19	3/4"	- 12	82	51	28			
A504846-16-16	25	1"	- 16	25	1"	- 16	93	51	32			
A504846-08-20	31	1.1/4"	- 20	12	1/2"	- 8	82	52	28			
A504846-12-20	31	1.1/4"	- 20	19	3/4"	- 12	82	52	28			
A504846-16-20	31	1.1/4"	- 20	25	1"	- 16	88	52	32			
A504846-20-20	31	1.1/4"	- 20	31	1.1/4"	- 20	94	52	32			
A504846-12-24	38	1.1/2"	- 24	19	3/4"	- 12	88	57	28			
A504846-16-24	38	1.1/2"	- 24	25	1"	- 16	92	57	32			
A504846-20-24	38	1.1/2"	- 24	31	1.1/4"	- 20	92	57	32			
A504846-12-32	51	2"	- 32	19	3/4"	- 12	87	57	28			
A504846-16-32	51	2"	- 32	25	1"	- 16	92	57	32			
A504846-20-32	51	2"	- 32	31	1.1/4"	- 20	92	57	32			

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SUPER STAPLE-LOCK

ADAPTORS



A404600

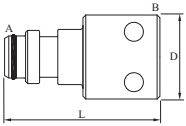
SUPER STAPLE-LOCK MALE END PLUG
TAPON MACHO SUPER STAPLE-LOCK
SUPER STAPLE-LOCK VERSCHLUSSKAPPE STECKER
TAPPO SUPER STAPLE-LOCK MASCHIO

PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	L	L1				
A404600-12	19	3/4"	- 12	45	36				
A404600-16	25	1"	- 16	61	51				
A404600-20	31	1.1/4"	- 20	64	52				
A404600-24	38	1.1/2"	- 24	71	57				
A404600-32	51	2"	- 32	71	58				
A404600-40	63	2.1/2"	- 40	121	69				

A524646

STRAIGHT ADAPTOR SUPER STAPLE-LOCK MALE - FEMALE
ADAPTADOR RECTO SUPER STAPLE-LOCK MACHO - HEMBRA
SUPER STAPLE-LOCK GERADER STECKER-BUCHSE ADAPTER
ADATTATORE DRITTO STAPLE-LOCK MASCHIO - FEMMINA

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A524672

STRAIGHT ADAPTOR SUPER STAPLE-LOCK MALE - SWIVEL FEMALE
ADAPTADOR RECTO SUPER STAPLE-LOCK MACHO - HEMBRA GIRATORIA
SUPER STAPLE-LOCK GERADER STECKER - DREHBARE BUCHSE ADAPTER
ADATTATORE SUPER STAPLE-LOCK DRITTO MASCHIO - FEMMINA GIREVOLE

PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	D				
A524672-16-12*	25	1"	- 16	19	3/4"	- 12	84	45				
A524672-20-12*	31	1.1/4"	- 20	19	3/4"	- 12	85	55				
A524672-20-16*	31	1.1/4"	- 20	25	1"	- 16	110	60				
A524672-24-12*	38	1.1/2"	- 24	19	3/4"	- 12	84	60				
A524672-24-16*	38	1.1/2"	- 24	25	1"	- 16	100	60				
A524646-24-20	38	1.1/2"	- 24	31	1.1/4"	- 20	100	70				
A524672-32-12*	51	2"	- 32	19	3/4"	- 12	80	70				
A524672-32-16*	51	2"	- 32	25	1"	- 16	95	70				
A524646-32-20	51	2"	- 32	31	1.1/4"	- 20	95	70				
A524646-32-24	51	2"	- 32	38	1.1/2"	- 24	108	80				

* **Swivel female** / Hembra giratoria / M-Gelenk / Femmina girevole

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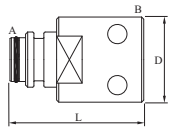
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SUPER STAPLE-LOCK

ADAPTORS

A524872

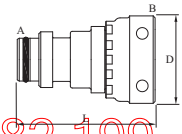
STRAIGHT ADAPTOR STAPLE-LOCK MALE - SUPER STAPLE-LOCK SWIVEL FEMALE
ADAPTADOR RECTO MACHO STAPLE-LOCK - HEMBRA SUPER STAPLE-LOCK
GERADER ADAPTER STAPLE-LOCK STECKER - SUPER STAPLE-LOCK BUCHSE DREHBARE
ADATTATORE STAPLE-LOCK DRITTO MASCHIO - SUPER STAPLE-LOCK FEMMINA GIREVOLE



PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	D				
A524872-16-12	25	1"	- 16	19	3/4"	- 12	68	45				
A524872-16-16	25	1"	- 16	25	1"	- 16	85	60				
A524872-20-12	31	1.1/4"	- 20	19	3/4"	- 12	68	60				
A524872-20-16	31	1.1/4"	- 20	25	1"	- 16	85	60				
A524872-24-16	38	1.1/2"	- 24	25	1"	- 16	88	70				
A524872-32-16	51	2"	- 32	25	1"	- 16	88	70				

A524682

STRAIGHT ADAPTOR SUPER STAPLE-LOCK MALE - STAPLE-LOCK SWIVEL FEMALE
ADAPTADOR RECTO MACHO SUPER STAPLE-LOCK - HEMBRA GIRATORIA STAPLE-LOCK
GERADER ADAPTER SUPER STAPLE-LOCK STECKER - STAPLE-LOCK DREHBARE BUCHSE
ADATTATORE SUPER STAPLE-LOCK DRITTO MASCHIO - STAPLE-LOCK FEMMINA GIREVOLE

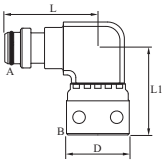


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PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	D				
A524682-12-08	19	3/4"	- 12	12	1/2"	- 8	82	35				
A524682-12-12	19	3/4"	- 12	19	3/4"	- 12	77	45				
A524682-16-12	25	1"	- 16	19	3/4"	- 12	82	45				
A524682-16-16	25	1"	- 16	25	1"	- 16	99	55				
A524682-20-08	31	1.1/4"	- 20	12	1/2"	- 8	82	35				
A524682-20-12	31	1.1/4"	- 20	19	3/4"	- 12	97	45				
A524682-20-16	31	1.1/4"	- 20	25	1"	- 16	103	55				
A524682-20-20	31	1.1/4"	- 20	31	1.1/4"	- 20	101	60				
A524682-24-16	38	1.1/2"	- 24	25	1"	- 16	95	55				
A524682-24-20	38	1.1/2"	- 24	31	1.1/4"	- 20	108	60				
A524682-32-16	51	2"	- 32	25	1"	- 16	111	55				
A524682-32-20	51	2"	- 32	31	1.1/4"	- 20	92	60				

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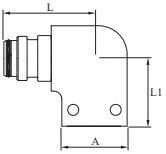
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A584672

90° ADAPTOR SUPER STAPLE-LOCK MALE - SWIVEL FEMALE
ADAPTADOR A 90° SUPER STAPLE-LOCK MACHO - HEMBRA GIRATORIA
90° ADAPTER SUPER STAPLE-LOCK STECKER - DREHBARE BUCHSE
ADATTATORE 90° SUPER STAPLE-LOCK MASCHIO - FEMMINA GIREVOLE

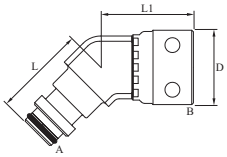
PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L1	D			
A584672-12-12	19	3/4"	- 12	19	3/4"	- 12	61	65	45			



A584646

90° ADAPTOR SUPER STAPLE-LOCK MALE - FEMALE
ADAPTADOR A 90° SUPER STAPLE-LOCK MACHO - HEMBRA
90° SUPER STAPLE-LOCK STECKER - BUCHSE ADAPTER
ADATTATORE 90° SUPER STAPLE-LOCK MASCHIO - FEMMINA

PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	L	L1	A			
A584646-12-12	19	3/4"	- 12	61	66	45			
A584646-16-16	25	1"	- 16	83	85	60			
A584646-20-20	31	1.1/4"	- 20	101	78	70			
A584646-24-24	38	1.1/2"	- 24	114	83	82			
A584646-32-32	51	2"	- 32	114	90	90			



A554672

45° ADAPTOR SUPER STAPLE-LOCK MALE - SWIVEL FEMALE
ADAPTADOR A 45° SUPER STAPLE-LOCK MACHO - HEMBRA GIRATORIA
45° SUPER STAPLE-LOCK STECKER - DREHBARE BUCHSE
ADATTATORE 45° SUPER STAPLE-LOCK MASCHIO - FEMMINA GIREVOLE

PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L1	D			
A554672-12-12	19	3/4"	- 12	19	3/4"	- 12	51	57	45			

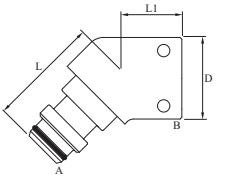
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SUPER STAPLE-LOCK

ADAPTORS

A554646

45° ADAPTOR SUPER STAPLE-LOCK MALE - FEMALE
ADAPTADOR A 45° SUPER STAPLE-LOCK MACHO - HEMBRA
45° SUPER STAPLE-LOCK STECKER - BUCHSE ADAPTER
ADATTATORE 45° SUPER STAPLE-LOCK MASCHIO - FEMMINA



PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L_1	D			
A554646-16-32	25	1"	- 16	51	2"	- 32	78	76	76			
A554646-16-16	25	1"	- 16	25	1"	- 16	70	71	60			
A554646-20-20	31	1.1/4"	- 20	31	1.1/4"	- 20	70	64	70			
A554646-24-24	38	1.1/2"	- 24	38	1.1/2"	- 24	78	64	80			
A554646-32-32	51	2"	- 32	51	2"	- 32	98	76	90			

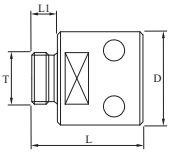
A524446

BSP MALE FLAT FACE FOR BONDED WASHER - SUPER STAPLE-LOCK FEMALE ADAPTOR
ADAPTADOR MACHO BSP CARA PLANA - HEMBRA SUPER STAPLE-LOCK
BSP FLACHDICHTENDES EINSCHRAUBGEWINDE FUR VERBUNDSCHEIBE - SUPER STAPLE-LOCK BUCHSE
ADATTATORE BSP MASCHIO FACCIA PIANA PER BONDED WASHER - FEMMINA SUPER STAPLE-LOCK

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A524472

BSP MALE FLAT FACE FOR BONDED WASHER - SUPER STAPLE-LOCK SWIVEL FEMALE ADAPTOR
ADAPTADOR MACHO BSP CARA PLANA - HEMBRA GIRATORIA SUPER STAPLE-LOCK
BSP FLACHDICHTENDES EINSCHRAUBGEWINDE FUR VERBUNDSCHEIBE
SUPER STAPLE-LOCK BUCHSE DREHBAR
ADATTATORE BSP MASCHIO FACCIA PIANA PER BONDED WASHER
FEMMINA SUPER STAPLE-LOCK GIREVOLE



PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L_1	D	AF	
A524472-12-12*	3/4" BSP	19	3/4"	- 12	70	13	45	36	
A524472-16-16*	1" BSP	25	1"	- 16	90	17	60	50	
A524446-20-20	1.1/4" BSP	31	1.1/4"	- 20	90	19	70	60	
A524446-24-24	1.1/2" BSP	38	1.1/2"	- 24	100	19	80	70	
A524446-32-32	2" BSP	51	2"	- 32	100	23	90	80	

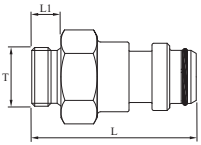
* **Swivel female** / Hembra giratoria / M-Gelenk / Femmina girevole

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SUPER STAPLE-LOCK

ADAPTORS



A504446

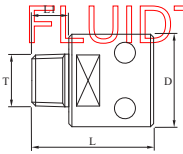
BSP MALE FLAT FACE FOR BONDED WASHER - SUPER STAPLE-LOCK MALE ADAPTOR
ADAPTADOR MACHO BSP CARA PLANA - MACHO SUPER STAPLE-LOCK
BSP FLACHDICHTENDES EINSCHRAUBGEWINDE FÜR VERBUNDSCHEIBE - SUPER STAPLE-LOCK STECKER
ADATTATORE BSP MASCHIO FACCIA PIANA PER BONDED WASHER - MASCHIO SUPER STAPLE-LOCK

PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L1	AF		
A504446-12-12	3/4" BSP	19	3/4"	- 12	68	14	46		
A504446-16-16	1" BSP	25	1"	- 16	86	17	46		
A504446-20-20	1.1/4" BSP	31	1.1/4"	- 20	94	19	50		
A504446-24-24	1.1/2" BSP	38	1.1/2"	- 24	100	19	60		
A504446-32-32	2" BSP	51	2"	- 32	104	23	70		

A522846

STRAIGHT ADAPTOR NPTF MALE - SUPER STAPLE-LOCK FEMALE
ADAPTADOR MACHO RECTO NPTF - HEMBRA SUPER STAPLE-LOCK
GERADER NPTF GEWINDE - SUPER STAPLE-LOCK BUCHSE
ADATTATORE DRITTO MASCHIO NPTF - FEMMINA SUPER STAPLE-LOCK

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A522872

STRAIGHT ADAPTOR NPTF MALE - SUPER STAPLE-LOCK SWIVEL FEMALE
ADAPTADOR MACHO RECTO NPTF - HEMBRA GIRATORIA SUPER STAPLE-LOCK
GERADER NPTF GEWINDE - SUPER STAPLE-LOCK BUCHSE DREHBAR
ADATTATORE DRITTO MASCHIO NPTF - FEMMINA SUPER STAPLE-LOCK GIREVOLE

PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L1	D	AF	
A522872-12-12*	3/4" NPTF	19	3/4"	- 12	70	19	45	36	
A522872-16-16*	1" NPTF	25	1"	- 16	95	24	60	50	
A522846-20-20	1.1/4" NPTF	31	1.1/4"	- 20	95	24	70	60	
A522846-24-24	1.1/2" NPTF	38	1.1/2"	- 24	95	26	80	70	
A522846-32-32	2" NPTF	51	2"	- 32	95	26	90	85	

* **Swivel female** / Hembra giratoria / Buchse drehbar / Femmina girevole

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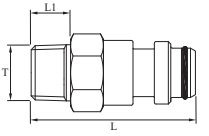
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SUPER STAPLE-LOCK

ADAPTORS

A502846

STRAIGHT ADAPTOR NTPF MALE - SUPER STAPLE-LOCK MALE
ADAPTADOR MACHO NPTF RECTO - MACHO SUPER STAPLE-LOCK
NTPF EINSCHRAUBGEWINDE - SUPER STAPLE-LOCK STECKER
ADATTATORE DRITTO MASCHIO NPTF - MASCHIO SUPER STAPLE-LOCK

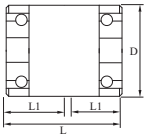


PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L_1	AF		
A502846-12-12	3/4" NPTF	19	3/4"	- 12	73	19	32		
A502846-16-16	1" NPTF	25	1"	- 16	93	24	46		
A502846-20-20	1.1/4" NPTF	31	1.1/4"	- 20	97	25	50		
A502846-24-24	1.1/2" NPTF	38	1.1/2"	- 24	106	26	60		
A502846-32-32	2" NPTF	51	2"	- 32	106	26	70		

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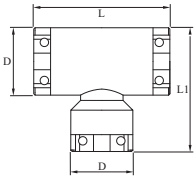


A515959

STRAIGHT FLUSHFIT FEMALE ADAPTOR
ADAPTADOR HEMBRA FLUSHFIT RECTO
GERADER FLUSHFIT VERBINDER BUCHSE
ADATTATORE FLUSHFIT DRITTO FEMMINA

PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L_1	D			
A515959-24-24*	38	1.1/2"	- 24	38	1.1/2"	- 24	95	46	70			
A515959-32-32	51	2"	- 32	51	2"	- 32	78	37	76			
A515959-40-40	63	2.1/2"	- 40	63	2.1/2"	- 40	106	50	106			

* **Seal fitted to male end** / Sellado a terminal macho / Dichtung auf Stecker / Tenuta montata sulla terminazione maschio

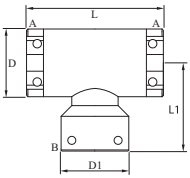


A735959

UNION TEE FLUSHFIT FEMALE
FLUSHFIT HEMBRAS EN TE
FLUSHFIT T-STÜCK BUCHSEN
ADATTATORE FLUSHFIT "T" CENTRALE FEMMINA

PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	L	L_1	D			
A735959-24-24*	38	1.1/2"	- 24	154	101	76			
A735959-32-32	51	2"	- 32	170	125	98			
A735959-40-40	63	2.1/2"	- 40	200	132	106			

* **Seal fitted to male end** / Sellado a terminal macho / Dichtung auf Stecker / Tenuta montata sulla terminazione maschio



A795948

BRANCH TEE FLUSHFIT FEMALE - STAPLE-LOCK FEMALE
TE FLUSHFIT HEMBRA ALINEADA - HEMBRA STAPLE-LOCK
FLUSHFIT - STAPLE-LOCK ADAPTER
ADATTATORE FLUSHFIT "T" LATERALE FEMMINA - STAPLE-LOCK FEMMINA

PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L_1	D	D_1		
A795948-24-24*	38	1.1/2"	- 24	38	1.1/2"	- 24	154	99	76	76		
A795948-32-32	51	2"	- 32	51	2"	- 32	185	90	76	85		
A795948-40-32	63	2.1/2"	- 40	51	2.1/2"	- 32	185	90	106	85		

* **Seal fitted to male end** / Sellado a terminal macho / Dichtung auf Stecker / Tenuta montata sulla terminazione maschio

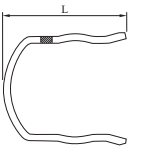
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FLUSHFIT ADAPTORS

ADAPTORS

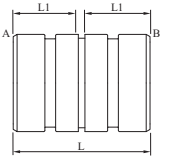
JL5910FS



STAINLESS STEEL FLUSHFIT STAPLE
ACERO INOXIDABLE GRAPA FLUSHFIT
EDELSTAHL FLUSHFIT KLAMMER
STAPLE FLUSHFIT ACCIAIO INOX

PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	Section	L				
JL5910FS-24	38	1.1/2″	- 24	8 x 4	59				
JL5910FS-32	51	2″	- 32	8 x 4	63				
JL5910FS-40	63	2.1/2″	- 40	8 x 5	85				

A505959

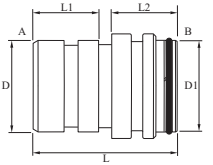


STRAIGHT FLUSHFIT MALE ADAPTOR
ADAPTADOR MACHO FLUSHFIT RECTO
GERADER FLUSHFIT STECKER VERBINDER
ADATTATORE FLUSHFIT DRITTO MASCHIO

PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L_1				
A505959-24-24*	38	1.1/2″	- 24	38	1.1/2″	- 24	100	46				
A505959-32-32	51	2″	- 32	51	2″	- 32	89	37				
A505959-40-40	63	2.1/2″	- 40	63	2.1/2″	- 40	107	51				

* **Seal fitted to male end** / Sellado a terminal macho / Dichtung auf Stecker / Tenuta montata sulla terminazione maschio

A504859



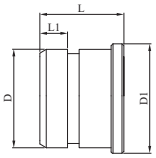
STRAIGHT STAPLE-LOCK MALE - FLUSHFIT MALE ADAPTOR
ADAPTADOR RECTO MACHO STAPLE-LOCK - MACHO FLUSHFIT
STAPLE-LOCK STECKER - FLUSHFIT STECKER VERBINDER
ADATTATORE STAPLE-LOCK DRITTO MASCHIO - FLUSHFIT MASCHIO

PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L_1	D	D_1		
A504859-24-24*	38	1.1/2″	- 24	38	1.1/2″	- 24	92	46	42	47		
A504859-32-32	51	2″	- 32	51	2″	- 32	82	37	56	56		
A504859-32-40	63	2.1/2″	- 40	51	2″	- 32	91	51	76	56		
A504859-40-40	63	2.1/2″	- 40	63	2.1/2″	- 40	139	51	76	79		

* **Seal fitted to male end** / Sellado a terminal macho / Dichtung auf Stecker / Tenuta montata sulla terminazione maschio

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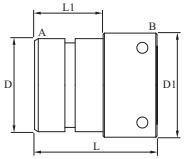
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NEW A405900

FLUSHFIT MALE END PLUG
TAPÓN MACHO FLUSHFIT
FLUSHFIT VERSCHLUSSKAPPE STECKER
TAPPO FLUSHFIT MASCHIO

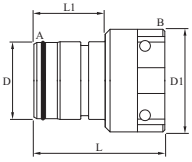
PART. REF.	NOMINAL BORE			DIMENSIONS mm					
	DN	inch	Size	L	L1	D	D1		
A405900-24	38	1.1/2"	- 24	44	28	46	56		
A405900-32	51	2"	- 32	48	28	56	65		
A405900-40	63	2.1/2"	- 40	67	25	76	85		



A525948

STRAIGHT FLUSHFIT MALE - STAPLE-LOCK FEMALE ADAPTOR
ADAPTADOR RECTO MACHO FLUSHFIT - HEMBRA STAPLE-LOCK
GERADER FLUSHFIT STECKER - STAPLE-LOCK BUCHSE ADAPTER
ADATTATORE STAPLE-LOCK DRITTO MASCHIO - FEMMINA STAPLE-LOCK

PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L1	D	D1		
A525948-24-24	38	1.1/2"	- 24	38	1.1/2"	- 24	101	52	42	76		
A525948-32-32	51	2"	- 32	51	2"	- 32	89	37	56	85		
A525948-40-32	63	2.1/2"	- 40	51	2"	- 32	100	56	76	85		
A525948-40-40	63	2.1/2"	- 40	63	2.1/2"	- 40	134	56	76	106		



A524859

STRAIGHT STAPLE-LOCK MALE - FLUSHFIT FEMALE ADAPTOR
ADAPTADOR RECTO MACHO STAPLE-LOCK - HEMBRA FLUSHFIT
GERADE STAPLE-LOCK STECKER - FLUSHFIT BUCHSE
ADATTATORE STAPLE-LOCK DRITTO MASCHIO - FEMMINA FLUSHFIT

PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L1	D	D1		
A524859-24-24	38	1.1/2"	- 24	38	1.1/2"	- 32	94	40	47	70		
A524859-32-32	51	2"	- 32	51	2"	- 32	82	40	56	76		
A524859-32-40	51	2"	- 32	63	2.1/2"	- 40	101	40	56	106		
A524859-40-40	63	2.1/2"	- 40	63	2.1/2"	- 40	134	73	79	106		

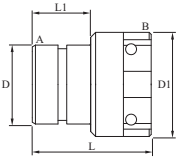
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FLUSHFIT ADAPTORS

ADAPTORS

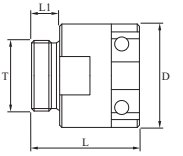
A525959



STRAIGHT FLUSHFIT MALE - FEMALE ADAPTOR
ADAPTADOR RECTO FLUSHFIT MACHO - HEMBRA
GERADER FLUSHFIT STECKER - BUCHSE ADAPTER
ADATTATORE FLUSHFIT DRITTO MASCHIO - FEMMINA

PART. REF.	NOMINAL BORE						DIMENSIONS mm					
	SIDE "A"			SIDE "B"								
	DN	inch	Size	DN	inch	Size	L	L_1	D	D_1		
A525959-24-32	38	1.1/2"	- 24	51	2"	- 32	96	47	42	76		
A525959-32-40	51	2"	- 32	63	2.1/2"	- 40	98	37	56	106		
A525959-40-32	63	2.1/2"	- 40	51	2"	- 32	96	56	76	76		
A525959-40-40	63	2.1/2"	- 40	63	2.1/2"	- 40	118	56	76	106		

A524459

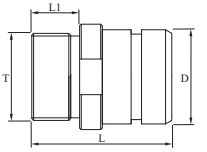


BSP MALE FLAT FACE FOR BONDED WASHER - FLUSHFIT FEMALE ADAPTOR
ADAPTADOR MACHO BSP CARA PLANA - HEMBRA FLUSHFIT
BSP FLACHDICHTENDES EINSCHRAUBGEWINDE FÜR VERBUNDSCHEIBE - FLUSHFIT BUCHSE
ADATTATORE BSP MASCHIO FACCIA PIANA PER BONDED WASHER - FEMMINA FLUSHFIT

PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L_1	D		
A524459-24-24*	1.1/2" BSP	38	1.1/2"	- 24	77	20	70		
A524459-32-32	2" BSP	51	2"	- 32	70	23	76		
A524459-40-40	2.1/2" BSP	63	2.1/2"	- 40	87	27	106		

* **Seal fitted to male end** / Sellado a terminal macho / Dichtung auf Stecker / Tenuta montata sulla terminazione maschio

A504459



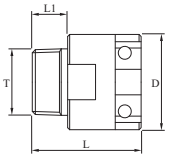
BSP MALE FLAT FACE FOR BONDED WASHER - FLUSHFIT MALE ADAPTOR
ADAPTADOR MACHO BSP CARA PLANA - MACHO FLUSHFIT
BSP FLACHDICHTENDES EINSCHRAUBGEWINDE FÜR VERBUNDSCHEIBE - FLUSHFIT STECKER
ADATTATORE BSP MASCHIO FACCIA PIANA PER BONDED WASHER - MASCHIO FLUSHFIT

PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L_1	D		
A504459-24-24*	1.1/2" BSP	38	1.1/2"	- 24	80	26	70		
A504459-32-32	2" BSP	51	2"	- 32	75	26	76		
A504459-40-40	2.1/2" BSP	63	2.1/2"	- 40	88	29	106		

* **Seal fitted to male end** / Sellado a terminal macho / Dichtung auf Stecker / Tenuta montata sulla terminazione maschio

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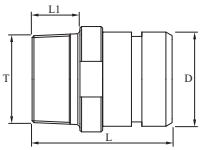


A522859

STRAIGHT NPTF MALE - FLUSHFIT FEMALE ADAPTOR
ADAPTADOR RECTO MACHO NPTF - HEMBRA FLUSHFIT
GERADES NPTF EINSCHRAUBGEWINDE - FLUSHFIT BUCHSE
ADATTATORE DRITTO MASCHIO NPTF - FEMMINA FLUSHFIT

PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L1	D		
A522859-24-24*	1.1/2" NPTF	38	1.1/2"	- 24	80	26	70		
A522859-32-32	2" NPTF	51	2"	- 32	75	26	76		
A522859-40-40	2.1/2" NPTF	63	2.1/2"	- 40	88	29	106		

* **Seal fitted to male end** / Sellado a terminal macho / Dichtung auf Stecker / Tenuta montata sulla terminazione maschio



A502859

STRAIGHT NPTF MALE - FLUSHFIT MALE ADAPTOR
ADAPTADOR RECTO MACHO NPTF - MACHO FLUSHFIT
GERADES NPTF EG - FLUSHFIT STECKER
ADATTATORE DRITTO MASCHIO NPTF - MASCHIO FLUSHFIT

PART. REF.	THREAD	NOMINAL BORE			DIMENSIONS mm				
		DN	inch	Size	L	L1	D		
A502859-24-24*	1.1/2" NPTF	38	1.1/2"	- 24	87	26	42		
A502859-32-32	2" NPTF	51	2"	- 32	82	26	56		
A502859-40-40	2.1/2" NPTF	63	2.1/2"	- 40	113	39	76		

* **Seal fitted to male end** / Sellado a terminal macho / Dichtung auf Stecker / Tenuta montata sulla terminazione maschio

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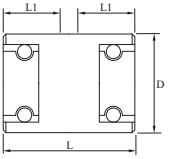
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HP FLUSHFIT ADAPTORS

ADAPTORS

A516161 NEW

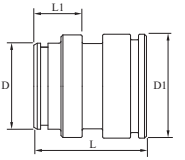
STRAIGHT HP FLUSHFIT FEMALE
HEMBRA RECTA FLUSHFIT AP
GERADER HP - FLUSHFIT BUCHSE
FEMMINA DRITTA HP FLUSHFIT



PART. REF.	NOMINAL BORE			DIMENSIONS mm				
	DN	inch	Size	L	L1	D		
A516161-24-24	38	1.1/2"	- 24	120	58	89		
A516161-32-32	51	2"	- 32	120	41	95		
A516161-40-40	63	2.1/2"	- 40	141	48	108		

A406100

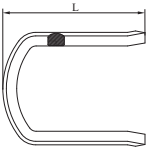
HP FLUSHFIT MALE END PLUG
TAPÓN MACHO FLUSHFIT AP
HP FLUSHFIT STECKER VERSCHLUSSTOPFEN
TAPPO MASCHIO HP FLUSHFIT



PART. REF.	NOMINAL BORE			DIMENSIONS mm				
	DN	inch	Size	L	L1	D	D1	
A406100-24	38	1.1/2"	- 24	71	30	55	56	
A406100-32	51	2"	- 32	71	32	55	56	
A406100-40	63	2.1/2"	- 40	85	37	77	78	

JL6110DS

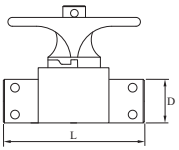
STAINLESS STEEL HP FLUSH-FIT "D" FORM STAPLE
ACERO INOXIDABLE AP FLUSH-FIT FORMA "D"
EDELSTAHL KLAMMER HP FORM
STAPLE HP FLUSH-FIT IN ACCIAIO INOX PROFILO A "D"



PART. REF.	NOMINAL BORE			DIMENSIONS mm				
	DN	inch	Size	Section	L			
JL6110DS-24	38	1.1/2"	- 24	12 x 9.5	86			
JL6110DS-32	51	2"	- 32	12 x 9.5	94			
JL6110DS-40	63	2.1/2"	- 40	14 x 10.5	107			

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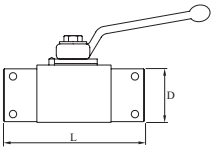
AV48AF6R

STAPLE LOCK CUBIC SHAPED VALVE FIXED FEMALE
VALVULA CUBICA HEMBRA FIJA STAPLE-LOCK
KUGELHAHN VIERECKIG - STAPLE-LOCK - BUCHSEN
VALVOLA STAPLE LOCK A FORMA CUBICA FEMMINA FISSA

PART. REF.	NOMINAL BORE	DIMENSIONS mm

	DN	inch	Size	bar	psi	L	D
AV48AF6R-06	10	3/8"	- 6	500	7220	100	30
AV48AF6R-08	12	1/2"	- 8	500	7220	100	35
AV48AF6R-12	19	3/4"	- 12	500	7220	130	40

Handle options: 1, 2, 5 / Opciones de manilla: 1, 2, 5 / Griffoptionen: 1, 2, 5 / Opzioni maniglia: 1, 2, 5



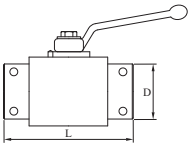
AV48AF1N

STAPLE LOCK CUBIC SHAPED VALVE FIXED FEMALE
CUBICA HEMBRA STAPLE-LOCK- HEMBRA
KUGELHAHN SECHSKANTFORM - STAPLE-LOCK - BUCHSE
STAPLE LOCK FORMA CUBICA FEMMINA - FEMMINA

PART. REF.	NOMINAL BORE	DIMENSIONS mm

	DN	inch	Size	bar	psi	L	D
AV48AF1N-16	25	1"	- 16	400	5770	164	55
AV48AF1N-20	31	1.1/4"	- 20	300	4330	164	60

Handle options: 3, 5, 6 / Opciones de manilla: 3, 5, 6 / Griffoptionen: 3, 5, 6 / Opzioni maniglia: 3, 5, 6



AV48AF1N

STAPLE LOCK CUBIC SHAPED VALVE FIXED FEMALE
VALVULA CUBICA HEMBRA STAPLE-LOCK
KUGELHAHN ZYLINDRISCH STAPLE-LOCK BUCHSEN
VALVOLA STAPLE LOCK A FORMA CUBICA FEMMINA

PART. REF.	NOMINAL BORE	DIMENSIONS mm

	DN	inch	Size	bar	psi	L	D
AV48AF1N-24	38	1.1/2"	- 24	250	3625	190	75
AV48AF1N-32	51	2"	- 32	200	2900	195	85

Handle options: P / Opciones de manilla: P / Griffoptionen: P / Opzioni maniglia: P

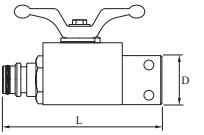
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BALL VALVES

AV48AB2N

STAPLE LOCK CUBIC SHAPED VALVE MALE - FIXED FEMALE
VALVULA CUBICA MACHO STAPLE-LOCK - HEMBRA FIJA
KUGELHAHN VIERECKIG STAPLE-LOCK STECKER - KOMPAKT BUCHSE
VALVOLA STAPLE LOCK A FORMA CUBICA MASCHIO - FEMMINA FISSA

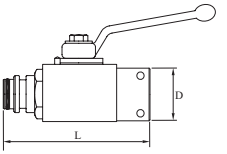


PART. REF.	NOMINAL BORE			DIMENSIONS mm			
	DN	inch	Size	bar	psi	L	D
AV48AB2N-06	10	3/8"	- 6	500	7220	100	30
AV48AB2N-08	12	1/2"	- 8	500	7220	100	35
AV48AB2N-12	19	3/4"	- 12	500	7220	130	40

Handle options: 1, 5, 6 / Opciones de manilla: 1, 5, 6 / Griffoptionen: 1, 5, 6 / Opzioni maniglia: 1, 5, 6

AV48AB1N

STAPLE LOCK CUBIC SHAPED VALVE MALE - FIXED FEMALE
VÁLVULA CÚBICA MACHO STAPLE-LOCK - HEMBRA FIJA
KUGELHAHN VIERECKIG STAPLE-LOCK STECKER - KOMPAKT BUCHSE
VALVOLA STAPLE LOCK A FORMA CUBICA MASCHIO - FEMMINA FISSA

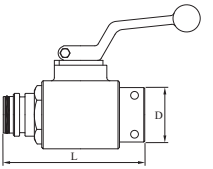


PART. REF.	NOMINAL BORE			DIMENSIONS mm			
	DN	inch	Size	bar	psi	L	D
AV48AB1N-16	25	1"	- 16	400	5770	164	55
AV48AB1N-20	31	1.1/4"	- 20	300	4330	164	60

Handle options: 3, 5, 6 / Opciones de manilla: 3, 5, 6 / Griffoptionen: 3, 5, 6 / Opzioni maniglia: 3, 5, 6

AV48AB1N

STAPLE LOCK CUBIC SHAPED VALVE MALE - FIXED FEMALE
VALVULA CUBICA MACHO STAPLE-LOCK - HEMBRA FIJA
KUGELHAHN VIERECKIG STAPLE-LOCK STECKER - KOMPAKT BUCHSE
VALVOLA STAPLE LOCK A FORMA CUBICA MASCHIO - FEMMINA FISSA

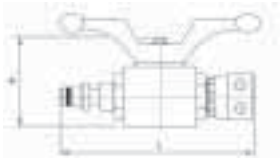


PART. REF.	NOMINAL BORE			DIMENSIONS mm			
	DN	inch	Size	bar	psi	L	D
AV48AB1N-24	38	1.1/2"	- 24	250	3625	195	75
AV48AB1N-32	51	2"	- 32	200	2900	195	85

Handle options: P / Opciones de manilla: P / Griffoptionen: P / Opzioni maniglia: P

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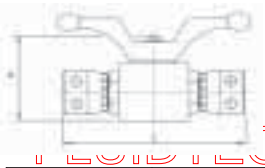


AV72AB2N

STAPLE LOCK CUBIC SHAPED VALVE MALE - SWIVEL FEMALE
VÁLVULA CÚBICA MACHO STAPLE-LOCK - HEMBRA GIRATORIA
KUGELHAHN VIERECKIG STAPLE-LOCK STECKER - DREHBARE BUCHSE
VALVOLA MASCHIO STAPLE LOCK A FORMA CUBICA - FEMMINA GIREVOLE

PART. REF.	NOMINAL BORE			DIMENSIONS mm			
	DN	inch	Size	bar	psi	L	A
AV72AB2N-04	06	1/4"	- 04	500	7220	90	50
AV72AB2N-06	10	3/8"	- 06	500	7220	108	56
AV72AB2N-08	12	1/2"	- 08	500	7220	111	56
AV72AB2N-12	19	3/4"	- 12	500	7220	116	66
AV72AB2N-16	25	1"	- 16	400	5770	151	88
AV72AB2N-20	31	1.1/4"	- 20	300	4330	149	88

Handle options: 1,6 / Opciones de manilla: 1,6 / Griffoptionen: 1,6 / Opzioni maniglia: 1,6



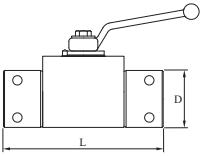
AV72AF2N

STAPLE LOCK CUBIC SHAPED VALVE SWIVEL FEMALE
VÁLVULA CÚBICA MACHO STAPLE-LOCK - HEMBRA GIRATORIA
KUGELHAHN VIERECKIG STAPLE-LOCK DREHBARE BUCHSEN
VALVOLA STAPLE LOCK A FORMA CUBICA - FEMMINA GIREVOLE

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PART. REF.	NOMINAL BORE			DIMENSIONS mm			
	DN	inch	Size	bar	psi	L	A
AV72AF2N-04	06	1/4"	- 04	500	7220	104	50
AV72AF2N-06	10	3/8"	- 06	500	7220	105	56
AV72AF2N-08	12	1/2"	- 08	500	7220	117	56
AV72AF2N-12	19	3/4"	- 12	500	7220	114	66
AV72AF2N-16	25	1"	- 16	400	5770	152	88
AV72AF2N-20	31	1.1/4"	- 20	300	4330	145	88

Handle options: 1,6 / Opciones de manilla: 1,6 / Griffoptionen: 1,6 / Opzioni maniglia: 1,6



AV46AF1N

SUPER STAPLE LOCK CUBIC SHAPED VALVE FIXED FEMALE
VALVULA CUBICA HEMBRAS FIJA SUPER STAPLE-LOCK
KUGELHAHN VIERECKIG SUPER STAPLE-LOCK BUCHSEN
VALVOLA SUPER STAPLE-LOCK A FORMA CUBICA FEMMINA FISSA

PART. REF.	NOMINAL BORE			DIMENSIONS mm			
	DN	inch	Size	bar	psi	L	D
AV46AF1N-12	19	3/4"	- 12	500	7220	150	45
AV46AF1N-16	25	1"	- 16	400	5770	195	60
AV46AF1N-20	31	1.1/4"	- 20	350	5070	195	70

Handle options: 3, 5, 6 / Opciones de manilla: 3, 5, 6 / Griffoptionen: 3, 5, 6 / Opzioni maniglia: 3, 5, 6

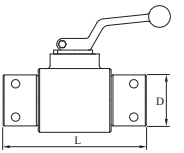
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BALL VALVES

AV46DF1N

SUPER STAPLE LOCK CYLINDRICAL SHAPED VALVE FIXED FEMALE
VALVULA CILINDRICA HEMBRA FIJA SUPER STAPLE-LOCK
KUGELHAHN SECHSKANTFORM SUPER STAPLE-LOCK BUCHSEN
VALVOLA SUPER STAPLE-LOCK CILINDRICA FEMMINA FISSA

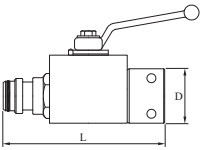


PART. REF.	NOMINAL BORE			DIMENSIONS mm			
	DN	inch	Size	bar	psi	L	D
AV46DF1N-24	38	1.1/2"	- 24	350	5050	230	82
AV46DF1N-32	51	2"	- 32	350	5050	260	95

Handle options: P / Opciones de manilla: P / Griffoptionen: P / Opzioni maniglia: P

AV46AB1N

SUPER STAPLE LOCK CUBIC SHAPED VALVE MALE – FIXED FEMALE
VALVULA CUBICA MACHO - HEMBRA FIJA SUPER STAPLE-LOCK
KUGELHAHN VIERECKIG SUPER STAPLE-LOCK - BUCHSE
VALVOLA SUPER STAPLE-LOCK A FORMA CUBICA MASCHIO - FEMMINA FISSA

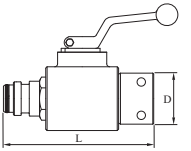


PART. REF.	NOMINAL BORE			DIMENSIONS mm			
	DN	inch	Size	bar	psi	L	A
AV46AB1N-12	19	3/4"	- 12	500	7220	160	45
AV46AB1N-16	25	1"	- 16	400	5770	205	60
AV46AB1N-20	31	1.1/4"	- 20	350	5050	205	70

Handle options: 3, 5, 6 / Opciones de manilla: 3, 5, 6 / Griffoptionen: 3, 5, 6 / Opzioni maniglia: 3, 5, 6

AV46DB1N

SUPER STAPLE LOCK CYLINDRICAL SHAPED VALVE MALE FIXED FEMALE
VALVULA CILINDRICA MACHO - HEMBRA FIJA SUPER STAPLE-LOCK
KUGELHAHN ZYLINDRISCH SUPER STAPLE-LOCK STECKER - BUCHSE
VALVOLA SUPER STAPLE-LOCK CILINDRICA MASCHIO - FEMMINA FISSA



PART. REF.	NOMINAL BORE			DIMENSIONS mm			
	DN	inch	Size	bar	psi	L	D
AV46DB1N-24	38	1.1/2"	- 24	350	5050	235	82
AV46DB1N-32	51	2"	- 32	350	5050	260	95

Handle options: P / Opciones de manilla: P / Griffoptionen: P / Opzioni maniglia: P

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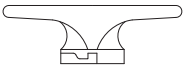
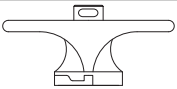
HANDLE OPTIONS SUMMARY

All the ball valves mentioned in this catalogue are proposed with standard handle solutions. See the following summary for alternative options.

Todas las valvulas de bola mencionadas en este catalogo son propuestas con manillas estándar. Veamos un resumen que nos muestra las diversas alternativas.

Alle im Katalog aufgeführten Kugelhähne werden mit Standardgriffen geliefert. Untenstehende Tabelle zeigt weitere verfügbare Alternativen.

Tutte le valvole a sfera menzionate in questo catalogo sono proposte con soluzioni di maniglia standard. Vedere il sommario seguente per le alternative.

DRAWING	DESCRIPTION	DIGIT "6" PART. REF
	SINGLE HANDLE	1
	SINGLE LONG HANDLE	L
	SINGLE EXTRA LONG HANDLE	X
	SINGLE PAD LOCK HANDLE	P
	DOUBLE HANDLE	2
	HEXAGON HANDLE	3
	SAFETY HANDLE	5
	SAFETY PAD LOCK HANDLE	6

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Coloured handles are available on request / Manillas coloreadas estan disponibles bajo pedido / Farbige Griffe sind auf Anfrage verfügbar / Maniglie colorate disponibili su richiesta

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HOSE PROTECTIONS

1935 - 2010 75°



Fluid connectors, solid solutions

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HOSE PROTECTIONS PRODUCT RANGE

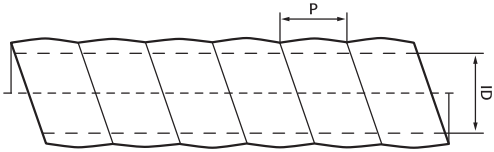
INTRODUCTION

GB

Manuli Hydraulics, thanks to its experience in the hydraulic fluid connectors sector, has developed a strong, easy to install, and high-tech hose protections range for hoses and piping.
Manuli hose protections are dedicated to heavy demanding applications and when the environment and safety policies are key factors to prevent injury, fluid jetting, abrasion or hose bundling. Hose protections reduce downtime and maintenance cost. The range meets all safety requirements of international specifications such as ISO, EN and SAE.
Manuli hose protections successful performances are the results of a severe material selection, technological and design studies, as well as laboratory tests. In particular, high-tech polyamide material is recommended for the most severe applications, assuring outstanding performance in flexibility, abrasion temperature and environment agents resistance.

ES

Manuli Hydraulics, gracias a su experiencia en el sector de los conectores de fluidos hidráulicos, ha desarrollado una gama de potentes tubos flexibles de protección de alta tecnología y fácil instalación para tubos y conducciones.
Los tubos flexibles de protección Manuli están pensados en difíciles aplicaciones y cuando el ambiente y las políticas de seguridad son factores clave para prevenir accidentes, salidas a chorro de fluidos, abrasión o conducción múltiple. La gama cumple con la normativa internacional como ISO, EN y SAE.
El alto rendimiento de los tubos flexibles de protección Manuli es el resultado de una rígida selección de material, estudios tecnológicos y de diseño y de pruebas en laboratorio. En particular, el material de poliamida de alta tecnología está recomendado en las más rígidas aplicaciones ya que asegura un rendimiento sobresaliente en cuanto a flexibilidad, temperatura de abrasión y resistencia a los agentes medioambientales. Los tubos flexibles de protección reducen el coste de mantenimiento y el tiempo de inactividad.



How to calculate quantity of protection spring:
L = (Hose OD / Spring ID) x (length of hose to be covered)

Cómo calcular la cantidad de muelle de protección:
L = (Tubo OD / Muelle ID) x (longitude del tubo a cubrir)

Wie die erforderliche Menge an Schutzummantelung zu berechnen ist:
L = (Schlauch OD / Mantel ID) x (Länge des zu ummantelnden Schlauchs)

Come calcolare la quantità necessaria di guina protettiva:
L = (tubo OD / guaina ID) x (lunghezza del tubo da ricoprire)

D

Manuli Hydraulics entwickelte dank seiner langen Erfahrung auf dem Gebiet der Verbinder für Hydraulikflüssigkeiten eine neue Reihe von Hightech-Ummantelungen zum Schutz von Schläuchen, die beständig und leicht zu montieren sind.
Die Schutzwendel sind für die schwierigsten Anwendungen gedacht, wo die Umgebung und die Sicherheitsnormen Schlüsselfaktoren darstellen, um Beschädigungen, Flüssigkeitsstrahlen, der Abrieb zu verhüten.
Die Ummantelungen sind für Rohrbündel geeignet und verringern die Ausfallzeiten und die Instandhaltungskosten. Die Reihe erfüllt alle Anforderungen der wichtigsten internationalen Zertifizierungen wie ISO, EN und SAE.
Der Erfolg in der Anwendung der Ummantelungen der Marke Manuli ist das Ergebnis einer sorgfältigen Auswahl der Materialien, der Arbeit von Planern und Technikern sowie zahlreicher Labortests. Das spezielle Polyamid-Hightech-Material ist besonders für sehr harte Anwendungen geeignet, bei denen es eine hervorragende Flexibilität und Beständigkeit gegen extreme Temperaturen, Abrieb und Umwelteinflüsse garantiert.

IT

Manuli Hydraulics grazie alla sua lunga esperienza nel settore dei connettori per fluidi idraulici ha sviluppato una nuova gamma di guaine high-tech per la protezione dei tubi, resistenti e facili da installare.
Le guaine protettive sono dedicate ad applicazioni in situazioni gravose, quando l'ambiente e le norme di sicurezza sono fattori chiave per prevenire danneggiamenti, fuoriuscita di fluidi, abrasione o attorcigliamento dei tubi.
Le protezioni riducono inoltre i tempi morti e i costi di manutenzione. La gamma rispetta tutti i requisiti delle principali certificazioni internazionali come ISO, EN e SAE.
Il successo applicativo delle guaine protettive Manuli sono il risultato di un'accurata selezione dei materiali, del lavoro di progettisti e tecnici, oltre che dell'attuazione di numerosi test di laboratorio. Il materiale altamente tecnologico in poliamide è particolarmente indicato per le applicazioni più severe, in cui garantisce eccellente flessibilità e resistenza a temperature estreme, abrasione e agenti ambientali.

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HOSE PROTECTIONS PRODUCT RANGE

INTRODUCTION

GB

Manuli hose protections range includes the following product lines:

PROTECTION SPRINGS - PS

- black or yellow polyethylene, basic line spring guard
- service temperature: -40°C to +90°C; -40°F to +194°F
- recommended to protect hoses from abrasions and wearing with external parts in construction, agriculture and forestry machineries applications

MINING PROTECTION SPRINGS - MPS

- black with red lines, thermoplastic spring guard, MSHA (flame retardant) and FRAS (electrical antistaticity) approved
- service temperature: -40°C to +90°C; -40°F to +194°F
- recommended for severe mining applications, for both hose bundling and protections when high abrasion and tough environment condition resistance are requested

ES

Los tubos flexibles de protección Manuli incluyen las siguientes líneas de producto:

MUELLES DE PROTECCIÓN - PS

- polietileno negro o amarillo, línea básica de guarnición de muelle
- temperatura de servicio: -40°C a +90°C; -40°F a +194°F
- recomendado para proteger los tubos flexibles de abrasiones y desgaste con partes externas en construcción, agricultura y aplicaciones en maquinaria de ingeniería forestal

PROTECCIÓN MUELLES MINERÍA - MPS

- negros con líneas rojas, guarnición muelle termoplástico, MSHA (ignición lenta) y con acreditación FRAS (antiestático)
- temperatura de servicio: -40°C a +90°C; -40°F a +194°F
- recomendado para severas aplicaciones de minería, para conducción múltiple y protecciones cuando se requiere una alta resistencia a la abrasión y a duras condiciones medioambientales

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D

Die Reihe besteht aus folgenden Produktlinien:

SCHUTZSPIRALE - PS

- schwarzes oder gelbes Polyäthylen, basic Schutzspirale
- Betriebstemperatur: -40°C a +90°C; -40°F a +194°F
- empfohlen zum Schutz der Schläuche gegen Abrieb und Verschleiß, wenn der Schlauch mit Teilen außerhalb der Maschine in Berührung kommt, z.B. in den Anwendungsbereichen der land- und forstwirtschaftlichen Maschinen

SCHUTZSPIRALE FÜR BERGWERKE - MPS

- schwarz mit roten Streifen, Thermoplast-Schutzspirale, zugelassen nach MSHA (flammenverzögernd) und FRAS (antistatisch)
- Betriebstemperatur: -40°C a +90°C; -40°F a +194°F
- empfohlen für harte Anwendungen im Bergwerk, wenn eine hohe Abriebfestigkeit bei schwierigen Umgebungsbedingungen erforderlich ist, auch für Rohrbündel

IT

La gamma è composta dalle seguenti linee di prodotto:

MOLLE DI PROTEZIONE - PS

- polietilene nero o giallo, molla protettiva basic
- temperatura di servizio: -40°C to +90°C; -40°F to +194°F
- raccomandata per la protezione del tubo da abrasione e raschiatura con parti esterne in costruzione, nei settori applicativi delle macchine agricole e forestali

MOLLE DI PROTEZIONE PER MINIERA - MPS

- nere con righe rosse, molla protettiva termoplastica, omologata MSHA (ritardante di fiamma) e FRAS (antisticità elettrca)
- temperatura di servizio: -40°C to +90°C; -40°F to +194°F
- raccomandata per applicazioni severe in miniera, quando i tubi si torcono e quando è richiesta un'elevata resistenza all'abrasione e a condizioni ambientali difficili

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HOSE PROTECTIONS PRODUCT RANGE

INTRODUCTION

GB

HT PROTECTION SPRINGS - HTPS

- black polyamide, high temperature line spring guard
- service temperature: -40°C to +120°C; -40°F to +248°F
- recommended for hoses proximity to hot surface when long durability, high temperature environment, flexibility and high abrasion resistance are requested

TEXTILE SLEEVES - TSL

- black polyester, high abrasion resistance textile sleeve
- service temperature: -50°C to +100°C; -58°F to +212°F; temperature peaks up to +140°C / +284°F
- recommended to protect the working environment from sudden fluid jetting (jetting energy breaking) of the hydraulic hose and the hose from abrasion

FIRE SLEEVES - FSL

- orange silicon sleeve with one braid of glass fibers
- service temperature: -60°C to + 260°C; -76°F to + 500°F
- recommended for hydraulic hose applications suffering for very high temperature sources and thermal irradiation such as siderurgy, foundries, glassworks, railways industries

In order to complete the offer, Manuli suggest also a textile clinch strap, a very useful tool for hose bundling and support to hang to the machine. The clinch strap is recommended for difficult and long hose assemblies installation applications, such as drilling machines, when protection from dangerous hose damage is requested

ES

HT MUELLES PROTECCIÓN - HTPS

- poliamida negra, línea de alta temperatura guarnición muelle
- temperatura de servicio: -40°C a +120°C; -40°F a +248°F
- recomendado cuando se necesita duración en el tiempo, ambiente de alta temperatura, flexibilidad y alta resistencia a la abrasión

MANGUITOS TEXTILES - TSL

- manguito textil de poliéster negro, de alta resistencia a la abrasión
- temperatura de servicio: -50°C a +100°C; -58°F a +212°F; picos de temperatura hasta +140°C / +248°F
- recomendado para proteger el ambiente de trabajo de repentinas salidas a chorro de fluidos (jetting energy breaking) de tubos hidráulicos y de la abrasión

MANGUITOS IGNÍFUGOS - FSL

- manguito de silicona naranja con un trenzado de fibra de vidrio
- temperatura de servicio: -60°C a +260°C; -76°F a +500°F
- recomendado para aplicación en tubos hidráulicos expuestos a fuentes de altísimas temperaturas e irradiación termica como fundiciones, fábricas de vidrio, industria del ferrocarril

Para completar y enriquecer la protección de tubos flexibles ofrecida, Manuli sugiere también un gancho de banda, una herramienta muy útil para la conducción múltiple y apoyo al enganche a la máquina. Se recomienda el paso para instalación de ensamblaje de tubos flexibles difíciles y largos como máquinas de perforar cuando se existe riesgo de daño a los tubos

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HOSE PROTECTIONS PRODUCT RANGE

D

HOCHTEMPERATURSCHUTZSPIRALE - HTPS

- schwarzes Polyamid, Ausführung von Schutzspirale für Hochtemperaturen
- Betriebstemperatur: -40°C a +120°C; -40°F a +248°F empfohlen, wenn Haltbarkeit in Umgebungen mit
- Hochtemperatur erforderlich ist. Diese Ummantelungen sind äußerst flexibel und abriebfest

TEXTILSCHUTZMÄNTEL - TSL

- schwarzes Polyester, Textilummantelungen von äußerster Abriebfestigkeit
- Betriebstemperatur: -50°C a +100°C; -58°F a +212°F; für Spitzentemperaturen bis zu +140°C / +248°F
- besonders empfohlen zum Schutz des umliegenden Raums gegen plötzliche Flüssigkeitsstrahlen (durch die Diffusion der Flüssigkeitsenergie) aus dem Wasserschlauch und zu dessen Schutz gegen Abrieb

FLAMMENSCHUTZMÄNTEL - FSL

- Schläuche aus orangefarbenem Silikon mit Glasfasergeflecht
- Betriebstemperatur: -60°C a +260°C; -76°F a +500°F
- empfohlen für alle hydraulischen Anwendungen, bei denen der Schlauch Hochtemperaturen und Abstrahlung ausgesetzt ist, wie z.B. in der Eisenindustrie, in Gießereien, Glashütten und im Eisenbahnbau

Zur Vervollständigung seines Angebots bietet Manuli eine Reihe von Textilriemen für Rohrbündel an, die auch als Halterung zum Aufhängen an der Maschine verwendet werden können. Der Riemen wird besonders für Anwendungen empfohlen, bei denen lange Schlauchkonstruktionen installiert werden, wie z.B. Bohrmaschinen, wenn der Schutz des Schlauches vor schweren Schäden erforderlich ist

IT

MOLLE DI PROTEZIONE ALTA TEMPERATURA - HTPS

- poliamide nero, linea di molle di protezione per le alte temperature
- temperatura di servizio: -40°C to +120°C; -40°F to +248°F
- raccomandate quando sono richieste durevolezza nel tempo e resistenza a temperature elevate. Queste guaine sono altamente flessibili e resistenti all'abrasione

GUAINE DI PROTEZIONE TESSILI - TSL

- poliestere nero, guaine tessili etremamente resistenti all'abrasione
- temperatura di servizio: -50°C to +100°C; -58°F to +212°F; per picchi di temperatura fino a +140°C / +284°F
- particolarmente consigliate per proteggere l'ambiente di lavoro da improvvise fuoriuscite di fluido (attraverso la dispersione dell'energia del fluido) del tubo idraulico e per salvaguardare lo stesso dall'abrasione

GUAINE DI PROTEZIONE DALLA FIAMMA - FSL

- guaine in silicone arancione trecciate in fibra di vetro
- temperatura di servizio: -60°C to + 260°C; -76°F to + 500°F
- raccomandate per applicazioni idrauliche in cui il tubo è esposto ad alte temperature e irraggiamento, come ad esempio: settore siderurgico, fondiario, vetrerie e le industrie ferroviarie

Per completare la propria offerta Manuli propone una linea di cinghie tessili per fasci tubieri che possono essere utilizzate anche come supporto da appendere alla macchina. La cinghia è particolarmente raccomandata per applicazioni in cui vengono installati lunghi assemblati di tubi come, ad esempio, le macchine per trapanare, quando è necessario quindi proteggere il tubo da danni gravi

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PRODUCT LINE TYPE	KEY FEATURES						
	Material	Size (mm)	Colour	Temperature range	Specifications	Key properties	Page
PROTECTION SPRING **PS**	polyethilene	9 - 84	black or yellow	min -40 °C max +90 °C	Manuli® design	high flexibility, high abrasion resistance	862
MINING PROTECTION SPRING **MPS**	polyethilene (antistatic)	12 - 84	black with 2 red lines	min -40 °C max +90 °C	Manuli® design MSHA FRAS ISO 6805	high abrasion resistance, flame retardant and antistatic properties	864
HT PROTECTION SPRING **HTPS**	polyammide	10 - 60	black	min. -40 °C max +120 °C	Manuli® design MSHA	high temperature and abrasion resistance, very high flexibility, flame retardant	866
TEXTILE SLEEVE **TSL**	polyester fibers	18 - 110	black	min. -50 °C max +100 °C peaks +140 °C	Manuli® design MSHA FRAS MDG41	fluid energy diffusion, anti abrasive, flame retardant and antistatic properities	868
FIRE SLEEVE **FSL**	silicon sleeve with fiber glass braid	13 - 76	orange	min. -60 °C max +260 °C peaks +1500 °C	Manuli® design NFF16-101 and P92-507 (class FO and M2)	extreme heat resistance, extreme flexibility at low temperature	870
TEXTILE CLINCH STRAP **TCS**	polyester fibers	400 - 1500	black	min. -50 °C max +100 °C	Manuli® design MSHA FRAS	flame retardant and antistatic properties	872

FLUIDTECHNIK S.R.L.0723 382 199

PS

PROTECTION SPRING



STANDARD PART. REF. (*)	INSIDE DIAMETER (ID)		OUTER DIAMETER (OD)		WALL THICKNESS		BAND WIDTH (pitch P)		WRAPPING RANGE		WEIGHT		STD. PACK TOTAL LENGTH	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	g/m	lb/ft	m	ft
JP11B01009E099	9,0	0,35	13,0	0,51	2,00	0,079	11,0	0,43	9-13	0,35-0,51	50	0,03	20	66
JP11B01012E099	12,0	0,47	16,5	0,65	2,25	0,089	13,0	0,51	12-17	0,47-0,67	60	0,04	20	66
JP11B01015E099	15,0	0,59	20,0	0,79	2,50	0,098	15,5	0,61	15-22	0,59-0,87	90	0,06	20	66
JP11B01019E099	19,0	0,75	24,5	0,96	2,75	0,108	19,0	0,75	19-28	0,75-1,10	150	0,10	20	66
JP11B01023E099	23,0	0,91	30,0	1,18	3,50	0,138	23,0	0,91	23-33	0,91-1,30	225	0,15	20	66
JP11B01031E099	30,5	1,20	39,0	1,54	4,25	0,167	29,0	1,14	30-44	1,20-1,73	350	0,24	20	66
JP11B01038E099	38,0	1,50	46,5	1,83	4,25	0,167	36,0	1,42	38-65	1,50-2,56	400	0,27	20	66
JP11B01047E099	47,0	1,85	58,0	2,28	5,50	0,217	39,5	1,56	47-70	1,85-2,76	600	0,40	20	66
JP11B01061E099	61,0	2,40	73,0	2,87	6,00	0,236	44,0	1,73	61-90	2,40-3,54	950	0,64	20	66
JP11B01071E099	70,5	2,78	84,5	3,33	7,00	0,276	51,0	2,01	70-150	2,78-5,90	1150	0,77	20	66
JP11B01084E099	84,0	3,31	99,0	3,90	7,50	0,295	56,0	2,20	84-200	3,31-7,87	1500	1,01	10	33

* **Colours available: black (5th digit "B"), yellow (5th digit "Y")** / Colores disponibles: negro (5º dígito "B"), amarillo (5º dígito "Y") / Erhältliche Farben: Schwarz (fünte Ziffer 'B'), Gelb (fünte Ziffer 'Y') / Colori disponibili: nero (quinta cifra 'B'), giallo (quinta cifra 'Y')

High flexibility ■ High abrasion resistance ■ Water, oils, fuel and hydraulic fluids resistance ■ Easy to install, no clamps needed ■ High ozone and external agents resistance

Alta flexibilidad ■ Alta resistencia a la abrasión ■ Resistencia al agua, aceites, gasóleo y fluidos hidráulicos ■ Fácil de instalar, no se necesitan abrazaderas ■ Alta resistencia al ozono y a agentes externos

Hohe Flexibilität ■ Hohe Abriebfestigkeit ■ Beständigkeit gegen Wasser, Öl, Kraftstoff und Hydraulikflüssigkeiten ■ Einfache Montage (keine Klemmen erforderlich) ■ Hohe Beständigkeit gegen Ozon und äußere Einflüsse

Alta flessibilità ■ Alta resistenza all'abrasione ■ Resistenza ad acqua, oli, carburante e fluidi idraulici ■ Semplicità di installaggio (non sono necessari morsetti) ■ Alta resistenza ad ozono e agenti esterni

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FLUIDTECHNIK S.R.L.0723 382 199

GB

MAIN APPLICATIONS
Hose abrasion protection and hose bundling
MATERIAL
High density black polyethilene, rounded profile. Available in black or yellow colour
SERVICE TEMPERATURE RANGE
-40°F to +194°F -40°C to +90°C
APPLICABLE SPECIFICATIONS
Manuli® design
MANULI BRAND
Embossed

ES

PRINCIPALES APLICACIONES
Protección contra abrasion tubos y conducción múltiple
MATERIAL
Polietileno negro alta densidad, perfil redondeado. Disponible en los colores negro y amarillo
GAMA TEMPERATURA SERVICIO
-40°F hasta +194°F -40°C hasta +90°C
PARTICULARIDADES APLICABLES
Diseño Manuli®
MARCA MANULI
Relieve

FLUIDTECHNIK S.R.L. 0723 382 199

D

HAUPTANWENDUNGEN
Zur Verwendung für Schlauchbündel und zum Schutz gegen Abrieb
MATERIAL
Schwarzes HD-Polyäthylen mit abgerundetem Profil. In den Farben Schwarz und Gelb erhältlich
BETRIEBSTEMPERATUR
-40°F bis +194°F -40°C bis +90°C
SPEZIFIKATIONEN
Manuli® design
MARKENZEICHEN MANULI
Erhaben

IT

PRINCIPALI APPLICAZIONI
Da utilizzare per fasci tubieri e per proteggere dall'abrasione
MATERIALE
Polietilene nero ad alta densità, a profilo arrotondato. Disponibile nei colori nero e giallo
TEMPERATURA DI SERVIZIO
-40°F a +194°F -40°C a +90°C
SPECIFICHE
Manuli® design
MARCHIO MANULI
In rilievo

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MPS

MINING PROTECTION SPRING



STANDARD PART. REF.	INSIDE DIAMETER (ID)		OUTER DIAMETER (OD)		WALL THICKNESS		BAND WIDTH (pitch P)		WRAPPING RANGE		WEIGHT		STD. PACK TOTAL LENGTH	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	g/m	lb/ft	m	ft
JP11B02012E099	12,0	0,47	16,5	0,65	2,25	0,089	13,0	0,51	12-17	0,47-0,67	60	0,04	20	66
JP11B02015E099	15,0	0,59	20,0	0,79	2,50	0,098	15,5	0,61	15-22	0,59-0,87	90	0,06	20	66
JP11B02019E099	19,0	0,75	24,5	0,96	2,75	0,108	19,0	0,75	19-28	0,75-1,10	150	0,10	20	66
JP11B02023E099	23,0	0,91	30,0	1,18	3,50	0,138	23,0	0,91	23-33	0,91-1,30	225	0,15	20	66
JP11B02031E099	30,5	1,20	39,0	1,54	4,25	0,167	29,0	1,14	30-44	1,20-1,73	350	0,24	20	66
JP11B02038E099	38,0	1,50	46,5	1,83	4,25	0,167	36,0	1,42	38-65	1,50-2,56	400	0,27	20	66
JP11B02047E099	47,0	1,85	58,0	2,28	5,50	0,217	39,5	1,56	47-70	1,85-2,76	600	0,40	20	66
JP11B02061E099	61,0	2,40	73,0	2,87	6,00	0,236	44,0	1,73	61-90	2,40-3,54	950	0,64	20	66
JP11B02071E099	70,5	2,78	84,5	3,33	7,00	0,276	51,0	2,01	70-150	2,78-5,90	1150	0,77	20	66
JP11B02084E099	84,0	3,31	99,0	3,90	7,50	0,295	56,0	2,20	84-200	3,31-7,87	1500	1,01	10	33

Flame retardant and electrical antistaticity properties ■ High flexibility ■ High abrasion resistance ■ Water, oils, fuel and hydraulic fluids resistance ■ Easy to install, no clamps needed ■ High visibility in field thanks to red central lines

Ignición retardada y propiedades electricidad antiestática ■ Alta flexibilidad ■ Alta resistencia a la abrasión ■ Resistencia al agua, aceite y fluidos hidráulicos ■ Fácil de instalar, no se necesitan abrazaderas ■ Alta visibilidad en campo gracias a las líneas rojas centrales

Die Flammenverbreitung verzögernde und antistatische Eigenschaften ■ Hohe Flexibilität ■ Hohe Abriebfestigkeit ■ Beständigkeit gegen Wasser, Öl, Kraftstoff und Hydraulikflüssigkeiten ■ Einfache Montage (keine Klemmen erforderlich) ■ Hohe Sichtbarkeit dank der roten Mittellinien

Proprietà ritardanti la propagazione di fiamma e antistaticità elettrica ■ Elevata flessibilità ■ Alta resistenza all'abrasione ■ Resistenza ad acqua, olii, carburante e fluidi idraulici semplicità di assemblaggio (non sono necessari morsetti) ■ Alta visibilità sul campo grazie alle linee centrali di color rosso

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GB

MAIN APPLICATIONS
Hose abrasion protection and hose bundling in mining applications
MATERIAL
High density black polyethilene (antistatic) with red lines, rounded profile
SERVICE TEMPERATURE RANGE
-40°F to +194°F -40°C to +90°C
APPLICABLE SPECIFICATIONS
MSHA, FRAS (flame retardant and antistatic - Australian mines), ISO 6805, Polish Safety "B" (in progress), BCS 174 (in progress), MA (Chinese mining approval in progress)
MANULI BRAND
Embossed

ES

PRINCIPALES APLICACIONES
Protección contra abrasión tubos y conducción múltiple
MATERIAL
Polietileno negro alta densidad (antiestático) con líneas rojas, perfil redondeado
GAMA TEMPERATURA SERVICIO
-40°F hasta +194°F -40°C hasta +90°C
PARTICULARIDADES APLICABLES
MSHA, FRAS (ignición retardada y antiestática - minas australianas), ISO 6805, Polish Safety "B" (en curso), BCS 174 (en curso), MA (aprobación minas chinas en curso)
MARCA MANULI
Relieve

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D

HAUPTANWENDUNGEN
Zur Verwendung für Schlauchbündel und zum Schutz gegen Abrieb
MATERIAL
Schwarzes Hd-Polyäthylen (antistatisch) mit roten Riemen und abgerundetem Profil
BETRIEBSTEMPERATUR
-40°F bis +194°F -40°C bis +90°C
SPEZIFIKATIONEN
MSHA, FRAS (Die Flammenverbreitung verzögernde und antistatische Eigenschaften - Australian mines), ISO 6805, Polish Safety "B" (laufend), BCS 174 (laufend), MA (Chinese mining approval laufend)
MARKENZEICHEN MANULI
Erhaben

IT

PRINCIPALI APPLICAZIONI
Da utilizzare per fasci tubieri e per proteggere dall'abrasione in applicazione miniera
MATERIALE
Polietilene ad alta densità nero (antistatico) con righe rosse, a profilo arrotondato
TEMPERATURA DI SERVIZIO
-40°F a +194°F -40°C a +90°C
SPECIFICHE
MSHA, FRAS (ritardante della propagazione di fiamma e antistaticità elettrica - Ente miniere Australia), ISO 6805, Polish Safety "B" (in corso), BCS 174 (in corso), MA (approval in corso - Ente miniere Cina)
MARCHIO MANULI
In rilievo

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HTPS

HT PROTECTION SPRING



STANDARD PART. REF.	INSIDE DIAMETER (ID)		OUTER DIAMETER (OD)		WALL THICKNESS		BAND WIDTH (pitch P)		WRAPPING RANGE		WEIGHT		STD. PACK TOTAL LENGTH	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	g/m	lb/ft	m	ft
JP12B03010I099	9,5	0,37	11,5	0,45	1,00	0,039	6,9	0,27	9-13	0,37-0,52	27	0,02	24	78,7
JP12B03013I099	12,7	0,50	16,3	0,64	1,80	0,071	13,0	0,51	13-17	0,50-0,67	45	0,03	24	78,7
JP12B03016I099	16,0	0,63	19,6	0,77	1,80	0,071	13,0	0,51	16-22	0,63-0,87	55	0,04	24	78,7
JP12B03019I099	19,0	0,75	23,6	0,93	2,30	0,091	16,0	0,63	19-28	0,75-1,10	100	0,07	24	78,7
JP12B03025I099	25,4	1,00	30,0	1,18	2,30	0,091	16,0	0,63	25-40	1,00-1,57	110	0,07	24	78,7
JP12B03028I099	28,0	1,10	35,2	1,39	3,60	0,142	25,0	0,98	28-48	1,10-1,89	225	0,15	24	78,7
JP12B03035I099	35,0	1,38	42,2	1,66	3,60	0,142	25,0	0,98	35-50	1,38-1,96	270	0,18	24	78,7
JP12B03050I099	50,0	1,97	60,0	2,36	5,00	0,197	35,0	1,38	50-70	1,96-2,76	540	0,36	12	39,4
JP12B03060I099	60,0	2,36	70,0	2,76	5,00	0,197	35,0	1,38	60-80	2,36-3,15	640	0,43	12	39,4

* **Piece lengths of 12 meters (39,4 ft)** / Longitud piezas de 12 metros (39,4 ft) / Länge jedes Stücks: 12 Meter (39,4 ft) / Lunghezza di ciascun pezzo: 12 metri (39,4 ft)

Very low bend radius ■ High flexibility ■ High temperature resistance ■ High abrasion resistance ■ Water, oils, fuel and hydraulic fluids resistance ■ Easy to install, no clamps needed ■ Flame retardant MSHA approved

Ángulo radio muy bajo ■ Alta flexibilidad ■ Alta resistencia a temperatura ■ Alta resistencia a la abrasión ■ Resistencia al agua, aceite y fluidos hidráulicos ■ Fácil de instalar, no se necesitan abrazaderas ■ Retardo de la llama aprobado MSHA

Äußerst geringer Krümmungsradius ■ Hohe Flexibilität ■ Hohe Abriebfestigkeit ■ Beständigkeit gegen Wasser, Öl, Kraftstoff und Hydraulikflüssigkeiten ■ Einfache Montage (keine Klemmen erforderlich) ■ Flammhemmend nach MSHA

Raggio di curvatura estremamente ridotto ■ Elevata flessibilità ■ Alta resistenza all'abrasione ■ Resistenza ad acqua, olii, carburante e fluidi idraulici ■ Semplicità di installaggio (non sono necessari morsetti) ■ Ritardante della propagazione di fiamma in accordo con norme MSHA

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GB

MAIN APPLICATIONS
Hose abrasion protection and hose bundling
MATERIAL
Black polyammide, rounded profile
SERVICE TEMPERATURE RANGE
-40°F to +248°F -40°C to +120°C
APPLICABLE SPECIFICATIONS
Manuli® design, MSHA approved
MANULI BRAND
White ink-jet

ES

PRINCIPALES APLICACIONES
Protección contra abrasión tubos y conducción múltiple
MATERIAL
Poliamida negro, perfil redondeado
GAMA TEMPERATURA SERVICIO
-40°F hasta +248°F -40°C hasta +120°C
PARTICULARIDADES APLICABLES
Diseño Manuli®, aprobación MSHA
MARCA MANULI
Chorro tinta blanco

FLUIDTECHNIK S.R.L 0723 382 199

D

HAUPTANWENDUNGEN
Zur Verwendung für Schlauchbündel und zum Schutz gegen Abrieb
MATERIAL
Schwarzes Polyamid mit abgerundetem Profil
BETRIEBSTEMPERATUR
-40°F bis +248°F -40°C bis +120°C
SPEZIFIKATIONEN
Manuli® design, MSHA-Zertifikat
MARKENZEICHEN MANULI
Tintenstrahl in Weiß

IT

PRINCIPALI APPLICAZIONI
Da utilizzare per fasci tubieri e per proteggere dall'abrasione
MATERIALE
Poliamide nero, a profilo arrotondato
TEMPERATURA DI SERVIZIO
-40°F a +248°F -40°C a +120°C
SPECIFICHE
Manuli® design, a norma MSHA
MARCHIO MANULI
Getto ad inchiostro bianco

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TSL

TEXTILE SLEEVE



STANDARD PART. REF.	INSIDE DIAMETER (ID)		EXTERNAL FLATTENED WITH		STD. PACK TOTAL LENGHT (*)			
	mm	inch	mm	inch	m	ft	kg	lb
JP23B06018I099	18	0,71	32,0	1,26	50	164	2,0	4,4
JP23B06023I099	23	0,91	40,0	1,57	50	164	2,2	4,8
JP23B06029I099	29	1,14	49,0	1,93	50	164	2,5	5,5
JP23B06036I099	36	1,42	56,0	2,20	50	164	3,0	6,6
JP23B06040I099	40	1,57	63,0	2,48	50	164	3,2	7,0
JP23B06056I099	56	2,20	88,0	3,46	50	164	4,0	8,8
JP23B06063I099	63	2,48	105,0	4,13	50	164	5,0	11,0
JP23B06071I099	71	2,80	115,0	4,53	50	164	5,5	12,1
JP23B06093I099	93	3,66	146,0	5,75	50	164	7,2	15,9
JP23B06110I099	110	4,33	176,0	6,93	50	164	8,5	18,7

* **No more than 2 lengths per coil** / No más de 2 largos por espiral / Nicht mehr als zwei Stücke pro Rolle / Non più di due lunghezze per spirale

High abrasion resistance ■ Water, oils, fuel and hydraulic fluids resistance ■ Easy to install with simple clamps to extremities ■ Fluid energy diffusion in case of hose failure avoiding the direct jetting

Alta resistencia a la abrasión ■ Resistencia al agua, aceite y fluidos hidráulicos ■ Fácil de instalar, con sencillas abrazaderas en los extremos ■ Difusión de la energia del fluido en caso de fallo tubo evitando el chorro directo

Hohe Abriebfestigkeit ■ Beständigkeit gegen Wasser, Öl, Kraftstoff und Hydraulikflüssigkeiten ■ Einfache Montage (keine Klemmen an den Enden erforderlich) ■ Im Fall von Problemen am Schlauch Fähigkeit zur Diffusion der Flüssigkeitsenergie, um direkte Strahlen zu vermeiden

Alta resistenza all'abrasione ■ Resistenza ad acqua, olii, carburante e fluidi idraulici ■ Semplicità di installaggio (non sono necessari morsetti alle estremità) ■ Dispersione dell'energia del fluido in caso di fallimenti del tubo per evitare fuoriuscite di fluido idraulico ad alta pressione nell'ambiente di lavoro

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GB

MAIN APPLICATIONS
Suitable to protect assemblies from external agents and the sorrounding space from possible fluid jetting. Hose abrasion protection and hose bundling, where high flexibility and long durability are requested. Hose protections and low pressure hydraulic applications (e.g. pilot applications)
MATERIAL
Hard wearing resistance black woven polyester, manufactured from flame retardant yarn, complete with antistatic treatment
SERVICE TEMPERATURE RANGE
-58°F to +212°F, peak +284°F
-50°C to +100°C, peak +140°C
APPLICABLE SPECIFICATIONS
MSHA (IC-213/04) and FRAS approvals, flame retardant and antistatic according to ISO 6805, compliant with safety requirements of MDG41 par 3.7.2.8 hose energy diffusion devices
MANULI BRAND
White ink-jet

ES

PRINCIPALES APLICACIONES
Adecuado para proteger ensamblajes y espacio que rodea de los agentes externos y de eventuales chorros de fluido. Protección abrasión a tubos y conducción múltiple cuando se requiere alta flexibilidad y duración en el tiempo. Protecciones tubos y aplicaciones hidráulicas baja presión (ej. aplicaciones piloto)
MATERIAL
Alta resistencia al desgaste de tejido poliéster negro, hecho con hilo de ignición retardada, con tratamiento antiestático
GAMA TEMPERATURA SERVICIO
-58°F hasta +212°F, pico +284°F
-50°C hasta +100°C, pico +140°C
PARTICULARIDADES APLICABLES
Certificaciones MSHA (IC-213/04) y FRAS, ignición retardada y antiestática de acuerdo con la norma ISO 6805, cumple con la normativa de seguridad establecida en MDG41 par 3.7.2.8 sobre mecanismos de difusión energía tubos
MARCA MANULI
Chorro tinta blanco

FLUIDTECHNIK S.R.L 0723 382 199

D

HAUPTANWENDUNGEN
Geeignet zum Schutz der Schlauchleitungen gegen äußere Einflüsse und des umliegenden Raums gegen Flüssigkeitsstrahlen - Schlauchabriebschutz und Rohrbündel, wo Flexibilität und Haltbarkeit erforderlich sind. Schlauchschutz und Anwendungen bei niedrigem Druck (Vorsteuerleitungen)
MATERIAL
Geflochtenes schwarzes Polyester mit hoher Verschleißfestigkeit, aus flammhemmendem, antistatischer Behandlung unterzogenem Garn hergestellt
BETRIEBSTEMPERATUR
-58°F bis +212°F, Spitze +284°F
-50°C bis +100°C, Spitze +140°C
SPEZIFIKATIONEN
Bescheinigungen MSHA (IC-213/04) und FRAS, flammenverzögernd und antistatisch gemäß Zulassung ISO 6805, beachtet die von MDG41 Abschn. 3.7.2.8 für Energiediffusionsvorrichtungen festgelegten Normen
MARKENZEICHEN MANULI
Tintenstrahl in Weiß

IT

PRINCIPALI APPLICAZIONI
Adatto a proteggere gli assemblati da agenti esterni e lo spazio attorno da possibili fuoriuscite di fluido. - Abrasione del tubo e fasci tubieri, dove sono richiesti flessibilità e durevolezza. Protezione di tubi e applicazioni a bassa pressione idraulica (e.g. applicazioni pilota)
MATERIALE
Poliestere nero intrecciato resistente a forte usura, realizzato con filato ritardante di fiamma e sottoposto a trattamento antistaticità
TEMPERATURA DI SERVIZIO
-58°F a +212°F, picco +284°F
-50°C a +100°C, picco +140°C
SPECIFICHE
Certifi cati MSHA (IC-213/04) e FRAS, ritardante di fiamma e antistaticità secondo omologazione ISO 6805, rispetta le norme fissate dal MDG41 par 3.7.2.8 per i dispositivi di diffusione dell'energia
MARCHIO MANULI
Getto ad inchiostro bianco

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FLUIDTECHNIK S.R.L.0723 382 199

FSL

FIRE SLEEVE



STANDARD PART. REF.	INSIDE DIAMETER (ID)		APPROXIMATE WALL THICKNESS		LINEAR WEIGHT		STD. PACK TOTAL LENGHT (*)	
	mm	inch	mm	inch	g/m	lb/ft	m	ft
JP24A05013I099	13,0	0,51	4,0	0,157	200	0,13	50	164,0
JP24A05016I099	16,0	0,63	4,0	0,157	220	0,15	50	164,0
JP24A05019I099	19,0	0,75	4,0	0,157	240	0,16	50	164,0
JP24A05022I099	22,0	0,87	4,0	0,157	260	0,17	50	164,0
JP24A05025I099	25,0	0,98	4,0	0,157	290	0,19	50	164,0
JP24A05032I099	32,0	1,26	4,0	0,157	380	0,26	50	164,0
JP24A05038I099	38,0	1,50	4,0	0,157	440	0,30	50	164,0
JP24A05045I099	45,0	1,77	4,0	0,157	490	0,33	25	82,0
JP24A05051I099	51,0	2,01	4,0	0,157	540	0,36	25	82,0
JP24A05064I099	64,0	2,52	4,0	0,157	680	0,46	20	65,6
JP24A05076I099	76,0	2,99	4,0	0,157	880	0,59	20	65,6

* **The product can be supplied in one piece or more respecting the global length fixed per each box (the minimum length is over 10% the whole package quantity)**
* El producto puede suministrarse en una pieza o más en función de la longitud global fijada para cada caja (la longitud mínima es un 10% superior a la cantidad total del embalaje)
* Das Produkt kann in einem oder mehreren Stücken geliefert werden, wobei die für jede Schachtel festgesetzte Gesamtlänge berücksichtigt wird (die Mindestlänge beträgt mehr als 10% der Menge des gesamten Pakets)
* Il prodotto può essere fornito in uno o più pezzi rispettando la lunghezza globale fi ssata per ogni scatola (la lunghezza minima è di oltre il 10% della quantità dell'intero pacchetto)

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Extreme heat resistance ■ Easy to install without clamps ■ Designed to protect and insulate hydraulic hoses and bundle of hoses against attack of flames, projection of metals, melting glass, projection of vapours, etc. ■ Excellent flexibility at low temperatures

Resistencia extrema al calor ■ Fácil instalación sin abrazadera ■ Diseñado para proteger y aislar los tubos hidráulicos y la conducción multiple contra las llamas, proyección metales, fundición vidrio, proyección vapores, etc. ■ Flexibilidad extrema a bajas temperaturas

Äußerste Hochtemperaturbeständigkeit ■ Einfache Montage (keine Klemmen erforderlich) ■ Entworfen zum Schutz und zur Isolierung von Hydraulikschläuchen und Schlauchbündeln gegen Flammen, Metallauswurf, Schmelze, Dämpfe etc. ■ Ausgezeichnete Flexibilität bei niedrigen Temperaturen

Estrema resistenza alle alte temperature ■ Semplicità di installaggio (non sono necessari morsetti) ■ Progettato per proteggere ed isolare tubi idraulici e fasci tubieri dalle fiamme, lancio di metalli, vetro fuso, vapori, etc. ■ Eccellente flessibilità a basse temperature

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GB

MAIN APPLICATIONS
Hose protections from high external temperatures, heat irradiation (e.g. iron and steel industry, foundries, glassworks, shipbuilding, railways, etc.). Reflected or induced heat, projection of metal or melting glass, occasional very high temperatures. Cable protection
MATERIAL
Orange silicone, inside 1 braid of glass fibers
SERVICE TEMPERATURE RANGE
-76°F to + 500°F, peaks 15 minutes 2012°F, 1 minute 2732°F
-60°C to +260°C, peaks 15 minutes 1100°C, 1 minute 1500°C
APPLICABLE SPECIFICATIONS
Manuli® design, classified FO and M2 as per NFF16-101 and P92-507 standard
MANULI BRAND
White ink-jet

ES

PRINCIPALES APLICACIONES
Protección tubo de alta temperature exterior, irradiación calor (ej. industria hierro y acero, fundiciones, industria del vidrio, astilleros, industria del ferrocarril, etc.). Calor reflejado o inducido, proyección metal o vidrio fundido, muy altas temperatures ocasionales. Protección cable
MATERIAL
Silicona naranaja, en interior fibres de vidrio trenzado
GAMA TEMPERATURA SERVICIO
-76°F hasta +500°F, picos 15 minutos 2012°F, 1 minuto 2732°F
-60°C hasta +260°C, picos 15 minutos 1100°C, 1 minuto 1500°C
PARTICULARIDADES APLICABLES
Diseño Manuli®, clasificado FO y M2 como para NFF16-101 y P92-507 estándar
MARCA MANULI
Chorro tinta blanco

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D

HAUPTANWENDUNGEN
Schutz des Schlauchs gegen hohe Außentemperaturen und Abstrahlung (z.B. in Eisen- und Stahlindustrie, Gießereien, Glashütten, Werften, Eisenbahnbau etc.), reflektierte oder induzierte Wärme, Metall- oder Schmelzauswurf, Hochtemperaturen. Kabelschutz
MATERIAL
Orangefarbenes Silikon mit innerem Glasfasergeflecht
BETRIEBSTEMPERATUR
-76°F bis +500°F, Spitze 15 Minuten 2012°F, 1 Minute 2732°F
-60°C bis +260°C, Spitze 15 Minuten 1100°C, 1 Minute 1500°C
SPEZIFIKATIONEN
Design Manuli®, klassifiziert nach FO und M2 wie für NFF16-101 und P92-507
MARKENZEICHEN MANULI
Tintenstrahl in Weiß

IT

PRINCIPALI APPLICAZIONI
Protezione del tubo da temperature esterne elevate, irraggiamento (e.g. nell'industria del ferro e dell'acciaio, fonderie, vetrerie, industries costruttrici di imbarcazioni, industrie ferroviarie etc.). Calore rifl esso o indotto, getti di metallo o vetro fuso, altissime temperature. Protezione del cavo
MATERIALE
Silicone arancione trecciato all'interno con fibra di vetro
TEMPERATURA DI SERVIZIO
-76°F a + 500°F, picco 15 minuti 2012°F, 1 minuto 2732°F
-60°C a +260°C, picco 15 minuti 1100°C, 1 minuto 1500°C
SPECIFICHE
Design Manuli®, classificato secondo FO e M2 come per NFF16-101 e P92-507
MARCHIO MANULI
Getto ad inchiostro bianco

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TCS

TEXTILE CLINCH STRAP



STANDARD PART. REF.	LENGHT (circumference of hose bundles)		STRIP WIDTH		STD. PACK QUANTITY		
	mm	inch	mm	inch	number of straps per package	kg	lb
JP33B10040T099	400	15,7	25	0,98	100	5,0	11,0
JP33B10080T099	800	31,5	25	0,98	100	6,0	13,2
JP33B10150T099	1500	59,1	25	0,98	100	7,5	16,5

High abrasion resistance ■ Water, oils, fuel and hydraulic fluids resistance ■ Easy to install Eyelet for hose bundling hanging purpose ■ Metal buckle for a robust fastening in any environment

Alta resistencia a la abrasión ■ Resistencia al agua, aceite y fluidos hidráulicos ■ Fácil de instalar ■ Ojal para colgar conducción múltiple ■ Hebilla metálica para un ajuste robusto en cualquier ambiente

Hohe Abriebfestigkeit ■ Beständigkeit gegen Wasser, Öl, Kraftstoff und Hydraulikflüssigkeiten ■ Einfache Montage ■ Öse zum Aufhängen von Schlauchbündel ■ Metallschnalle zur schnellen Befestigung in jeder Umgebung

Alta resistenza all'abrasione ■ Resistenza ad acqua, olii, carburante e fluidi idraulici ■ Semplicità di installaggio ■ Asola per appendere fasci tubieri ■ Fibbia in metallo che permette un fissaggio veloce in ogni ambiente

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MAIN APPLICATIONS
Suitable for single or multiple hose bundling. Self-lubricating to reduce wear on hose and cables
MATERIAL
Hard wearing resistance woven polyester, manufactured from dope-dyed flame retardant yarn, complete with antistatic treatment
SERVICE TEMPERATURE RANGE
-58°F to +212°F -50°C to +100°C
APPLICABLE SPECIFICATIONS
Manuli® design, MSHA (ref. no. IC-213/04) and FRAS approvals. Certified fire resistant and antistatic according to AS 1334.9-82, BS 2050-78, NCB 245-85

ES

PRINCIPALES APLICACIONES
Adecuado para conducción múltiple o sencilla. Auto lubricación para reducir desgaste en tubos y cables
MATERIAL
Alta resistencia al desgaste de tejido poliéster, hecho con hilo de ignición retardada, con tratamiento antiestático
GAMA TEMPERATURA SERVICIO
-58°F hasta +212°F -50°C hasta +100°C
PARTICULARIDADES APLICABLES
Diseño Manuli®, certificaciones MSHA (ref. nº. IC-213/04) y FRAS. Certificado resistente al fuego y antiestático de acuerdo con AS 1334.9-82, BS 2050-78, NCB 245-85

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D

HAUPTANWENDUNGEN
Geeignet für einzelne oder mehrfache Rohrbündel. Selbstschmierend, um die Abnutzung des Schlauches oder der Kabel zu verringern
MATERIAL
Geflochtenes Polyester mit hoher Verschleißfestigkeit, hergestellt aus flammhemmendem und antistatischer Behandlung unterzogenem Dopedyed-Garn
BETRIEBSTEMPERATUR
-58°F bis +212°F -50°C bis +100°C
SPEZIFIKATIONEN
Manuli® design, Zulassungen MSHA (ref. no. IC-213/04) und FRAS.
Feuerbeständigkeit und antistatische Eigenschaft bescheinigt nach AS 1334.9-82, BS 2050-78, NCB 245-85

IT

PRINCIPALI APPLICAZIONI
Adatto per fasci tubieri singoli o multipli. Auto-lubrificante per ridurre l'usura al tubo o ai cavi
MATERIALE
Poliestere intrecciato resistente a forte usura, realizzato con fi lato dope-dyed ritardante di fiamma e sottoposto a trattamento antistaticità
TEMPERATURA DI SERVIZIO
-58°F a +212°F -50°C a +100°C
SPECIFICHE
Manuli® design, approvazioni MSHA (ref. no. IC-213/04) e FRAS.
Resistenza al fuoco e di antistaticità certifi cate secondo AS 1334.9-82, BS 2050-78, NCB 245-85

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APPENDIX

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Fluid connectors, solid solutions

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HOSES

LEGEND OF SYMBOLS

Inside Diameter (I.D.)
Diámetro interior (I.D.)
Innendurchmesser (I.D.)
Diametro interno (I.D.)

Outside Diameter (O.D.)
Diámetro externo (O.D.)
Außendurchmesser (O.D.)
Diametro esterno (O.D.)

Minimum bend radius
Radio mínimo de curvatura
Mindest Biegeradius
Minimo raggio di curvatura

Reinforcement Outside Diameter (R.O.D.)
Diámetro externo del refuerzo (R.O.D.)
Außendurchmesser Druckträger (R.O.D.)
Diametro esterno rinforzo (R.O.D.)

Maximum working pressure
Presión máxima de trabajo
max. Betriebsdruck
Pressione massima di esercizio

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Ferrule / Socket
Casquillo (socket)
Fassung
Ghiera

Burst pressure: it is the minimum guaranteed burst pressure of the hose, equivalent or superior to the reference specifications minimum requirements.
Presión de rotura: es la mínima presión de rotura garantizada de la manguera, equivalente o superior a los requerimientos mínimos de las especificaciones de referencia
Berstdruck: Ist der garantierte Mindesberstdruck Erreicht oder übertrifft die jeweiligen Spezifikationsmindest-Anforderungen
Pressione di scoppio: è la minima pressione di scoppio garantita, equivalente o superiore alla pressione di scoppio richiesta dalle norme di riferimento del tubo.

Weight
Peso
Gewicht
Peso

Insert
Espiga
Nippel
Inserto
MF MF2000® Multifit type
IP MF2000® Interlock Plus type
XL MF2000® Xtralock type
BL MF2000® Blastlock type
PL MF2000® Push-Lock type

Refrimaster clamp
Abrazadera Refrimaster
Refrimaster Doppelklemme
Fascetta Refrimaster

Refrimasterplus clamp
Abrazadera Refrimasterplus
Refrimasterplus Doppelklemme
Fascetta Refrimasterplus

Refrimaster ferrule
Casquillo Refrimaster
Refrimaster Fassung
Boccola Refrimaster

Refrimasterplus ferrule
Casquillo Refrimasterplus
Refrimasterplus Fassung
Boccola Refrimasterplus

Crimp ferrule for Refrimasterplus
Casquillo para crimpar Refrimasterplus
Pressfassung für Refrimasterplus
Boccola pressata per Refrimasterplus

Reusable ferrule for Refristar
Casquillo reusable para Refristar
Wiederverwendbare Schraubfassung für Refristar
Boccola recuperabile per Refristar

One piece fitting for Refrifast
Conexion en una pieza para Refrifast
Einteilige Armatur für Refrifast
Raccordo one-piece per Refristar

Working Pressure: It is the maximum pressure at which the correct functioning of the quick coupling is assured. Working pressure is assured both in connected and disconnected conditions.
Presión de trabajo: Es la presión máxima a la cual se asegura el correcto funcionamiento del acoplamiento rápido. La presión de trabajo está garantizada tanto conectado como desconectado.

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Arbeitsdruck: Maximaldruck bei dem die korrekte Funktion der Kupplung gewährleistet ist. Der Arbeitsdruck wird sowohl im gekoppelten wie auch im getrennten Zustand gewährleistet.
Maximum Working Pressure: È la pressione massima di esercizio alla quale è garantito il corretto funzionamento dell'innesto rapido.La pressione massima di esercizio è garantita sia in condizione connessa che disconnessa.



Flow Rate: It is the fluid quantity which passes through a cross section of the quick coupling in the time unit.
Caudal: Es la cantidad de flujo que pasa a través de una sección transversal del acoplamiento rápido de la unidad de tiempo.
Volumenstrom: Flüssigkeitsmenge die in einer Zeiteinheit (Minute) den Querschnitt der Kupplung durchströmt.
Flow Rate: È la quantita di fluido che attraversa una sezione dell'innesto rapido nell'unita di tempo



Connection Effort: It is the effort required to lock the male insert into the female one.
Esfuerzo de conexión: Es el esfuerzo requerido para bloquear la inserción del macho en la hembra.
Anschließkraft: Kraft die benötigt wird den Stecker mit der Muffe zu verbinden.
Connection Effort: È la forza necessaria per agganciare l'innesto parte maschio e l'innesto parte femmina.



Oil Spillage: It is the fluid quantity lost from the coupling during the connection/disconnection phase.
Vertido de aceite: Es la cantidad de flujo expulsado del acoplamiento durante la fase de conexión/desconexión.
Ölverlust: Flüssigkeitsmenge die während des Verbindens/Trennens der Kupplung verloren geht.
Oil Spillage: È la quantità di olio che fuoriesce durante una fase di connessione e disconnessione.



Connection/Disconnection under pressure: It is the possibility to connect and disconnect with pressure inside the quick coupling.
Conexión/Desconexión bajo presión: Es la posibilidad de conectar y desconectar con presión dentro del acoplamiento rápido.
Verbinden/Trennen unter Druck: Möglichkeit die Kupplung zu verbinden oder zu trennen auch wenn in der Leitung unter Druck steht.
Connection/Disconnection under pressure: È la possibilità di connettere o disconnettere l'innesto rapido in presenza di pressione all'interno dl esso.

Continuous service: refers to the working temperature range.
Servicio continuo: se refiere a la gama de temperatura de trabajo.
Betriebstemperatur: beschreibt die Dauerbetriebstemperatur.
Servizio continuo: relativo alla temperatura di esercizio.

Max operating temperature (Intermittent service): peaks of temperature of short duration and total cumulative duration lower than 5% of the total service life.
Temperatura máxima de operación (servicio intermitente): picos de temperatura de corta duración y duración total acumulada menor a 5% de la vida total de servicio.
Maximale Betriebstemperatur: Maximale Spitzentemperatur nur für kurze Zeit. (Weniger als 5% der vorgesehenen Einsatzdauer).
Massima temperatura operativa (servizio intermittente): picchi di temperatura di durata limitata e cumulativa inferiore al 5% della totale durata di esercizio.

Recommended fluids: fluid types that the hose can convey with excellent / good chemical compatibility.
Fluidos recomendados: tipos de fluidos que la manguera puede trabajar con compatibilidad química excelente/buena.
Empfohlene Medien: Medien mit besonders hoher chemischer Verträglichkeit.
Fluidi raccomandati: tipi di fluido consigliati che garantiscono una ottima/buona compatibilità chimica con il tubo.

Hose service life: cumulative duration of time in which the hose is under operative conditions.
Vida de servicio de la manguera: duración acumulada de tiempo en el cual la manguera está bajo condiciones de operación.
Betriebsdauererwartung: Maximaler Betriebseinsatz bei normgerechter Anwendung.
Durata di esercizio del tubo: durata cumulativa dei periodi di tempo in cui il tubo si trova in esercizio operativo.

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HOSES

LEGEND OF SYMBOLS

HOSE SIZE CORRESPONDENCE TABLE

HYDRAULICS			
HOSE SIZE			
DN	dash	mm	inch
5	- 03	4,8	3/16″
6	- 04	6,4	1/4″
8	- 05	7,9	5/16″
10	- 06	9,5	3/8″
12	- 08	12,7	1/2″
16	- 10	16,0	5/8″
19	- 12	19,0	3/4″
25	- 16	25,4	1″
31	- 20	31,8	1.1/4″
38	- 24	38,1	1.1/2″
51	- 32	50,8	2″
60	- 38	60,3	2.3/8″
63	- 40	63,5	2.1/2″
76	- 48	76,2	3″
89	- 56	88,9	3.1/2″
102	- 64	101,6	4″

REFRIGERATION				
HOSE SIZE				Hydraulics inch reference (*)
DN	dash	mm	inch	
5	- 04	4,8	3/16″	1/4″
8	- 06	7,9	5/16″	3/8″
10	- 08	10,3	13/32″	1/2″
(12) 13	- 10	12,7	1/2″	5/8″
16	- 12	15,9	5/8″	3/4″
22	- 16	22,2	7/8″	1″
28	- 20	28,6	1.1/8″	1.1/4″
35	- 24	34,9	1.3/8″	1.1/2″

(*) different correspondence DN-dash between Hydraulics and Refrigeration. Refer to the above tables for the correct correspondence.

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HOSES - FLUID COMPATIBILITY CHART

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WARNING: This chemical compatibility guide must not be used in conjunction with any other compatibility guides from previous or future catalogue editions, bulletins or publications. Incorrect use of these charts could result in personal injury or property damage.

HOSE SELECTION BY MEDIUM AND HOSE TYPE

This hose compatibility chart is a reference of Manuli hose compatibility with various fluid media. It is intended as a guide to chemical compatibility with inner tube materials and assembly lubricants applied internally.

The Fluid Compatibility Chart lists the relative resistance of hose tube and fitting materials to more common hydraulic fluids and chemicals. These ratings do not cover all possible variations of all factors, such as temperature, concentration, degradation or fluid contamination, etc. Testing under actual conditions is the best way to assure chemical compatibility for critical applications.

The specific recommendations regarding **hydraulic fluids** are based upon specific laboratory tests with fluids and/or field experiences, the advice of various polymer or fluid suppliers. It must be stressed, however, that this information is offered only as a guide. Final hose selection depends also upon pressure, fluid temperature, ambient temperature, and special requirements or variations, which may not be known by Manuli.
All the combined factors in working operations may impact on the service life of the hose assembly and must be carefully considered before release a hose for a specific application: the chemical compatibility with the service fluid is only one of the factors to be considered.

The specific recommendations regarding **generic chemicals** are mainly based on literature data in conjunction with polymers used for the tube compound. The field results of the fluid conveyed in the hose should be carefully tested and field validated by users.
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No tests on finished hose assemblies in combination with the mentioned chemicals has been normally performed.
Manuli hoses are designed for hydraulics, they are not intended for industrial diversified applications with various chemicals.

The outer cover of the hose is intended to protect the reinforcement layer(s) from mechanical influences (abrasion, weathering etc), cover compounds are not designed to exhibit the same chemical resistance as the tube compounds. Manuli Rubber Industries should be consulted about the compatibility of the cover, should the application involve the extended exposure or immersion in a liquid: anyway the hydraulic hoses of the Manuli product range are not designed in general for immersion in the service fluid. This type of special applications should be avoided or carefully studied with additional external protections for the hoses, selection of special hose types, e.g. with thermoplastic cover and validation on the specific application. The turbulence of the fluid, the high temperature and nature of the fluid as well as other elements may impact the properties or integrity of the hose cover material (the cover compound of the hose is designed to resist to oil drops and external agents, not immersion in the service fluid).
For more detailed information contact Manuli Rubber Industries.

HOW TO USE THE CHART

- Hydraulic fluids are listed in alphabetic order with the manufacturer brand name, chemicals are listed alphabetically;
- Find the hose type and read the compatibility rating (see rating scale);
- Define the proper hose selection for the application by choosing the best rating.

LEGENDA OF RATINGS

E = Excellent - Small or negligible changes of compound properties: no problem for use. Service life can exceed the expectations.

G = Good - There are only minor changes of some compound properties. Service life is normally in line with state of the art (standard) expectations.

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HOSES - FLUID COMPATIBILITY CHART

INTRODUCTION

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C = Conditional - significant changes on some compound properties. Service life can be reduced; higher durability can be achieved with reduced severity of working conditions (temperature in particular) or with an upgraded hose selection. Whenever possible, a field validation under actual working conditions is recommended.

X = Not recommended - Unsuitable, severe effects on physical properties.

REMARKS:

- O-Rings used with couplings also must be considered for chemical compatibility with the fluid to be conveyed. This includes fittings containing internal O-Rings; for example Metric Female 24° Cone seat fittings, etc. Standard O-Ring of Manuli fittings are made of Nitrile rubber (NBR), highly chemically compatible with all hydraulic fluids. If you use special fluids or very high temperatures, different O-Ring materials should be used, contact Manuli Rubber Industries for specific information. See Technical Manual for dimensions of O-Rings.

- Compatibility of hose fittings with conveyed fluids is an essential factor in avoiding chemical reactions that may result in release of fluids and failure of the connection with the potential of causing severe personal injury or property damage. Standard Manuli fittings are made of carbon steel with Hexavalent chromium free plating.

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HOSES - FLUID COMPATIBILITY CHART

INTRODUCTION

ES

AVISO: Esta guía de compatibilidades no debe compararse con otras guías de compatibilidades de ediciones de catálogos anteriores o futuras, boletines o publicaciones. El uso incorrecto de estas guías podría producir lesiones personales o daños materiales.

SELECCIÓN DE MANGUERA POR EL FLUIDO Y TIPO DE MANGUERA

Esta tabla de compatibilidad de mangueras es una referencia de la compatibilidad de las mangueras Manuli con varios fluidos. Está pensada como una guía para la compatibilidad química con el Material del tubo interno y los lubricantes aplicados internamente para el ensamblaje.

Las Tablas de Compatibilidades de Fluidos, lista la relativa resistencia de los materiales de las mangueras y racores con los fluidos hidráulicos y químicos más comunes.

Las recomendaciones específicas sobre los **fluidos hidráulicos** están basados en pruebas específicas en el laboratorio con fluidos y/o pruebas de campo, para aconsejar varios polímeros o proveedores de fluidos. Debe enfatizarse, sin embargo, que esta información sólo se ofrece como guía. La selección de la manguera final depende de la presión, temperatura del fluido, temperatura ambiente y requerimientos especiales o variaciones, que no puede conocer Manuli.

Todos los factores combinados en las operaciones de trabajo que puedan impactar en la vida útil de servicio de la manguera ensamblada deben ser cuidadosamente considerados antes de considerar la manguera específica para la aplicación: la compatibilidad química con el fluido de servicio es sólo uno de los factores que se deben considerar.

Las recomendaciones específicas sobre la **química genérica** están principalmente basadas en datos de literaturas junto con polímeros usados para el compuesto del tubo. El resultado de los fluidos en las mangueras deben ser cuidadosamente probados y validados por el usuario.
No se ha realizado ninguna prueba con mangueras ensambladas en combinación con los químicos mencionados.
Las mangueras Manuli están diseñadas para hidráulica, no están pensadas para aplicaciones industriales con diversos productos químicos.
La cubierta exterior de la manguera está pensada para proteger el refuerzo de acero(s) de las influencias mecánicas (abrasión, ambiente, etc..), los componentes de la cubierta no están diseñados para la misma resistencia química que el tubo interno. Debe consultarse a Manuli Rubber Industries sobre la compatibilidad de la cubierta, si la aplicación está involucrada en una exposición larga o inmersa en un líquido: sin embargo la gama de productos de las mangueras Manuli no están diseñadas generalmente para estar inmersas en el fluido de servicio. Este tipo de aplicaciones especiales debe evitarse o ser estudiada cuidadosamente con protecciones externas adicionales para las mangueras, selección especial del tipo de manguera, por ejemplo con cubierta termoplástica y aprobación específica de la aplicación. La turbulencia del fluido, la alta temperatura y la naturaleza del fluido así como otros elementos que puedan impactar las propiedades o la integridad del material de la cubierta de la manguera (el compuesto de la cubierta de la manguera se diseña para resistir las gotas de aceite y agentes externos, no para la inmersión del fluido de servicio).
Para más información contacte con manuli Rubber Industries.

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COMO USAR LA GUÍA

- Los fluidos hidráulicos están listados en orden alfabético con el nombre del fabricante, se listan los productos químicos alfabéticamente.
- Busque el tipo de manguera y lea su compatibilidad (ver escala de valores)
- Defina la selección de la manguera apropiada para la aplicación escogiendo los mejores valores.

LEYENDA DE VALUACIONES

E = Excelente - Cambios inapreciables de las propiedades del compuesto: ningún problema para el uso. La Vida de Servicio puede exceder las expectativas.

G = Bueno - Cambios menores de las propiedades del compuesto. La Vida de Servicio es normalmente en línea con las expectativas estándar.

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C = Condicional - Cambios significativos en algunas propiedades del compuesto. La Vida de Servicio puede reducirse; puede lograr superior durabilidad con una severa reducción de las condiciones de trabajo (en particular la temperatura) o con otra selección de manguera.
Siempre que sea posible, se recomienda una validación en el campo de trabajo bajo condiciones reales.

X = No recomendado - Graves cambios en las propiedades del compuesto.

COMENTARIOS:

- Las Juntas Tóricas usadas con las conexiones también deben ser consideradas para la compatibilidad química con el fluido. Esto incluye racores que contengan Juntas Tóricas internas; por ejemplo el terminal Hembra Métrica con cono 24º, etc. La Junta Tórica estándar de Manuli es de Nitrilo (NBR), compatible con los fluídos hidráulicos más comunes. Si usted usa fluidos especiales o temperaturas muy altas, debe usarse diferente material en las Juntas Tóricas, contacte con Manuli Rubber Industries para información específica. Ver Manual Técnico para las dimensiones de las Juntas Tóricas..

- La compatibilidad de los racores con los fluidos es esencial para evitar reacciones químicas que puedan producir fugas y fallos de la conexión con el peligro de causar lesiones personales o daños materiales. Los terminales Manuli están fabricados de acero al carbono con baño de cromo Hexavalente libre de cinc.

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WARNUNG: Diese Anleitung für chemische Kompatibilität darf nicht in Verbindung mit anderen Kompatibilitätsanleitungen älterer oder zukünftiger Katalogausgaben, Bekanntmachungsblätter oder Veröffentlichungen verwendet werden. Die fehlerhafte Verwendung dieser Tabellen kann Verletzungen von Personen oder Sachschäden zur Folge haben.

AUSWAHL NACH SCHLAUCHTYP UND FLÜSSIGKEIT

Diese Schlauchkompatibilitätstabelle dient als Referenz für die Kompatibilität von Manuli-Schläuchen mit den unterschiedlichen Flüssigkeiten. Sie ist als Anleitung für die chemische Kompatibilität der Innenseele und der intern verwendeten Schmiermittel für den Zusammenbau zu verstehen.

Die Flüssigkeitskompatibilitätstabelle führt die relative Widerstandsfähigkeit des Schlauches und der Anschlussmaterialien gegen die am häufigsten eingesetzten Hydraulikflüssigkeiten und Chemikalien auf. Diese Angaben können nicht alle Variationsmöglichkeiten der verschiedenen Faktoren wie Temperatur, Konzentration, Zersetzung oder Kontamination der Flüssigkeiten, etc. abdecken. Die beste Möglichkeit, die chemische Kompatibilität bei kritischen Anwendungen zu prüfen, ist ein Testlauf unter den tatsächlich bestehenden Umständen.
Die spezifischen Empfehlungen im Hinblick auf **Hydraulikflüssigkeiten** basieren auf spezifischen Labortests mit Flüssigkeiten und/oder Felderfahrungen sowie den Empfehlungen der Hersteller von Polymeren oder Flüssigkeiten. Wir unterstreichen allerdings die Tatsache, dass diese Information nur als Anleitung gilt. Die letztendliche Auswahl der Schläuche hängt auch von Druck, Temperatur der Flüssigkeit, Umgebungstemperatur und den speziellen Anforderungen oder Variationen, die Manuli nicht unbedingt kennt, ab.
Die Kombination all dieser Faktoren kann Einfluss auf die Lebensdauer der Schlauchleitungen haben und muss aufmerksam geprüft werden, bevor ein Schlauch für eine spezifische Anwendung gewählt wird: die chemische Kompatibilität mit der Betriebsflüssigkeit ist nur einer der zu berücksichtigenden Faktoren.
Die spezifischen Empfehlungen im Hinblick auf **allgemeine Chemikalien** gründen sich im Wesentlichen auf in der Literatur enthaltene Daten im Zusammenhang mit den Polymeren in der Schlauchverbindung. Die Felddaten der im spezifischen Schlauch geleiteten Flüssigkeiten müssen vom Nutzer sorgfältig geprüft und bewertet werden.
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An fertigen Schlauchverbindungen in Kombination mit den genannten Chemikalien wurden keine Tests durchgeführt.
Manuli-Schläuche sind speziell für Hydraulikanwendungen bestimmt, sie sind nicht für verschiedene Industrieanwendungen mit unterschiedlichen Chemikalien geeignet.
Die äußere Schlauchummantelung schützt die Verstärkung(en) vor mechanischen Einflüssen (Abrieb, Witterung, etc.) und die Materialverbindungen haben nicht die gleichen chemischen Widerstände wie die Innenschlauchverbindungen. Setzen Sie sich mit Manuli Rubber Industries in Verbindung, um die Kompatibilität der Ummantelung zu erfahren, wenn die Schläuche über längere Zeit einer Flüssigkeit ausgesetzt oder eingetaucht werden sollen: berücksichtigen Sie jedoch, dass die Produktpalette von Manuli im allgemeinen nicht dazu gedacht ist, in Betriebsflüssigkeiten eingetaucht zu werden. Eine solche Spezialanwendung sollte wenn möglich vermieden oder die Möglichkeit
zusätzlicher Außenummantelungen, spezielle Schlauchtypen, z.B. mit Thermoplastummantelung sowie Bewertung der spezifischen Anwendung sollten sorgfältig geprüft werden. Die Turbulenzen, hohe Temperaturen und Art der Flüssigkeit sowie andere Elemente können Auswirkungen auf die Eigenschaften oder die Integrität der Schlauchummantelung haben (der Materialverbund für die Ummantelung wurde entwickelt, um Öltropfen und externen Stoffen, nicht jedoch dem Eintauchen in die Betriebsflüssigkeit zu widerstehen).
Genauere Informationen erhalten Sie direkt von Manuli Rubber Industries.

VERWENDUNG DER TABELLE

- Hydraulikflüssigkeiten sind alphabetisch mit dem Markennamen des Herstellers, Chemikalien sind alphabetisch aufgelistet;
- Suchen Sie Ihren Schlauchtyp und lesen Sie die Kompatibilitätseinstufung (siehe Einstufungsskala);
- Definieren Sie die passende Schlauchauswahl für Ihre Anwendung über die beste Einstufung.

ERKLARUNG DER EINSTUFUNGEN

E = Exzellent - kleine oder vernachlässigbare Änderungen der Verbundmaterialeigenschaften: Problemlos einsetzbar. Lebensdauer übersteigt Erwartungen.

G = Gut - Nur kleine Änderungen einiger Verbundmaterialeigenschaften. Lebensdauer entspricht normalerweise Standarderwartungen.

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C = Bedingt - bedeutende Änderungen einiger Verbundeigenschaften. Lebensdauer kann reduziert sein; eine höhere Lebensdauer kann durch reduzierte Härte der Betriebsbedingungen (insbesondere Temperatur) oder durch die Auswahl eines höherwertigen Schlauchs erreicht werden.
Wo möglich wird ein Praxistest unter tatsächlichen Betriebsbedingungen empfohlen.

X = Nicht empfohlen - Ungeeignet, starke Auswirkungen auf physische Eigenschaften.

ANMERKUNGEN:

- Auch die O-Ringe eines Anschlusses müssen auf die chemische Kompatibilität mit der eingesetzten Flüssigkeit überprüft werden. Das gilt auch für Anschlüsse mit internen O-Ringen; zum Beispiel Metrische M-Anschlüsse konisch 24°, etc. Standard-O-Ringe der Anschlüsse von Manuli sind aus Perbunan (NBR), hochkompatibel mit allen Hydraulikflüssigkeiten. Sollten Sie spezielle Flüssigkeiten einsetzen oder mit sehr hohen Temperaturen arbeiten, dann müssen andere O-Ring-Materialien eingesetzt werden. Setzen Sie sich mit Manuli Rubber Industries in Verbindung, um spezifische Informationen zu erhalten. O-Ring-Abmessungen sind im Technischen Handbuch enthalten.

- Die Kompatibilität der Schlauchanschlüsse mit den eingesetzten Flüssigkeiten sind ein grundsätzlicher Faktor zur Vermeidung von chemischen Reaktionen, die das Austreten von Flüssigkeiten und das Versagen von Anschlüssen verursachen können, was potentiell hohe Gefahren für die Sicherheit des Personals und die Sachgegenstände birgt. Standard-Anschlüsse von Manuli sind aus Edelhartstahl mit hexavalenter, chromfreier Beschichtung.

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ATTENZIONE: La seguente guida di compatibilità chimica non deve essere utilizzata e paragonata con guide di precedenti o future edizioni di cataloghi, informazioni tecniche o altre pubblicazioni. L'uso non corretto di queste tabelle potrebbero causare danni a persone o cose.

SELEZIONE DEI TUBI ATTRAVERSO TIPO E MEZZO DEL TUBO

Questa tabella di compatibilità funge da riferimento per i tubi Manuli con vari fluidi. È concepita come una guida di compatibilità chimica con i materiali di rivestimento interno e i lubrificanti di assemblaggio applicati internamente.

La tabella di compatibilità fluidi elenca la relativa resistenza del tubo e dei materiali dei raccordi ai fluidi idraulici e chimici più comuni. Tali valori non coprono tutte le possibili varianti e i fattori contingenti, come ad esempio temperatura, concentrazione, degrado o contaminazione del fluido, ecc. Testare nelle effettive condizioni è il miglior modo per assicurare la compatibilità chimica nelle applicazioni critiche.

Le specifiche raccomandazioni riguardo i **fluidi idraulici** sono basate su specifici test di laboratorio e/o test sul campo, consigli di diversi fornitori di polimeri e fluidi. È bene rimarcare, però, che queste informazioni sono solo una guida. La selezione finale del tubo dipende anche dalla pressioni, dalla temperatura del fluido e dell'ambiente, da particolari variazioni e necessità, che possono non essere note alla Manuli.

Le raccomandazioni specifiche riguardo **gli elementi chimici** generici fanno principalmente riferimento a dati di letteratura, tenuto conto dei polimeri usati nei componenti dei tubi. I risultati ottenuti sul campo devono essere attentamente testati e validati dagli utilizzatori.
Nessun test su assemblati finali in combinazione con i sopracitati elementi chimici sono normalmente validati.
I tubi Manuli sono concepiti per l'idraulica e non per applicazioni industriali diversificate con diversi elementi chimici.

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La copertura esterna dei tubi è concepita per proteggere il rinforzo da influenza meccaniche (abrasione, agenti atmosferici esterni, ecc), I componenti della copertura non sono ideati per dimostrare la stessa resistenza chimica dei componenti del tubo interno. Manuli Hydraulics deve essere consultata circa la compatibilità della copertura, nel caso che l'applicazione preveda un'esposizione prolungata o l'immersione in un liquido: in ogni caso i tubi idraulici della gamma Manuli non sono progettati per l'immersione in fluidi di esercizio. Questo tipo di applicazioni speciali dovrebbe essere evitato o studiato attentamente applicando protezioni esterne aggiuntive per i tubi o selezionando speciali tipi di tubi, ad esempio con copertura termoplastica e validata per l'applicazione specifica. La turbolenza del fluido, l'alta temperatura e la tipologia del fluido così come altri elementi potrebbero danneggiare le proprietà o l'integrità del materiale di copertura del tubo (la mescola della copertura del tubo è disegnata per resistere a gocce d'olio e agli agenti esterni, ma non all'immersione nel fluido di servizio). Per ulteriori informazioni contattate Manuli Hydraulics.

COME USARE LA TABELLA

- i fluidi idraulici sono elencati in ordine alfabetico unitamente al nome del produttore, i fluidi chimici sono elencati in ordine alfabetico;
- cercare il tibo di tubo e leggere il valore di compatibilità (veder la scala di valori);
- definire la selezione appropriata per l'applicazione, scegliendo il miglior valore.

LEGENDA DEI VALORI

E = Excellent (Eccellente) - Piccole o trascurabili variazioni delle proprietà della mescola: nessun problema per l'utilizzo. La vita in esercizio può superare le aspettative.

G = Good (buono) - Piccole variazioni di alcune proprietà della mescola. La vita in esercizio è normalmente in lina con le aspettative standard.

C = Conditional (dipendente dalle applicazioni applicative) - Variazioni significative di alcune proprietà della mescola. La vita in esercizio può essere ridotta; una durabilità più elevata può essere raggiunta con ridotte severità della condizioni di esercizio (temperatura in particolare) o con una selezione di tubo sovradimensionato.

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Quando possibile, si raccomanda di effettuare una verifica con le effettive condizioni di esercizio.

X = Not reccomended (non raccomandanto) - Non utilizzabile, severi effetti sulle proprietà fisiche.

NOTA:

- Gli O'Ring usati con gli innesti rappidi devono essere considerati per la compatibilità chimica con I fluidi da utilizzare. Lo stesso vale per i raccordi che presentano internamente o'ring, come per esempio raccordo metrico femmina cono 24°, ecc. Gli O'Ring standard dei raccordi Manuli sono prodotti con gomma nitrilica (NBR), altamente compatibile a livello chimico con tutti i fluidi idraulici. Nel caso di utilizzo di speciali fluidi o in presenza di temperature molto elevate, devono essere utilizzate O'Ring con materiali differenti. Per ulteriori informazioni contattate Manuli Hydraulics. Prendere visione del Manuale Tecnico per le dimensioni degli O'Ring.

- La compatibilità dei raccordi con i fluidi trasportati è un fattore essenziale per evitare reazioni chimiche che potrebbero far rilasciare fluidi e intaccare le connessioni con il risultato di causare gravi danni a persone o cose. I raccordi standard Manuli sono realizzati con acciaio al carbonio con zincatura esente da cromo esavalente.

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OILS CLASSIFICATION - ACCORDING TO ISO 6743-4

STD HYDRAULIC OILS

HH – highly refined mineral oils
HS – synthetic fluids

FLAME RESISTANT OILS

WATER BASED

HFA – Fluids with not less than 80% of H_2O
- HFAE Oil + Water + Additives
- HFAS Chemical solutions + Water

HFB – Water and oil emulsions - H_2O>40%
HFC – Water and Glycols – 35%>H_2O>65%

NO WATER BASED

HFD – Synthetic fluids with no water
- HFDR – Phosphoric esters
- HFDS – Clorurated hydrocarbons
- HFDT – Mixture of HFDR and HFDS
- HFDU – other synthetic fluids

ECOLOGICALLY ACCEPTABLE OILS (EAHF) – BIODEGRADABLE

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Ecologically Acceptable Hydraulic Fluids (EAHF) can provide benefits in terms of avoiding crop, ground and water contamination.

SYNTHETIC OILS

HPG – Polyglicols
HEPG (Hydraulic Fluids based on Polyglicols)
HE – Polyesters
HEES (Hydraulic Oils Environmental Synthetic Esters)

VEGETABLE OILS

HE – Polyesters
HETG (Rapeseed, sunflower)

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FLUIDS COMPATIBILITY

FLUID	TYPE	WIRE SPIRAL	SPECIAL WIRE BRAIDED	WIRE BRAIDED	HT WIRE BRAIDED	TEXTILE BRAIDED	TPE TEXTILE BRAIDED
	ISO 6743	GOLDENSPIR DIAMONDSPIR SHIELDMASTER ROCKMASTER XTRAFLEX GOLDENISO LL	ETERNITY NOZONE 2K	TRACTOR SHIELDMASTER ROCKMASTER HARVESTER/17 PILOT LYTEFLEX COVER GOLDENISO AW TWINPOWER	EQUATOR	ASTRO SPIRTEX/K MULTITEX PUSH FIT	HYDROPLAST HYDROTWIN
ACT Ecosafe FR	HFDU	G	G	G	G	G	-
ADDINOL OKOSYNTH SUPER HEES 46	HEES	-	-	G	-	-	-
ADDINOL OKOSYNTH SUPER HEES 46 S	HEES	G	G	G	C	-	-
AGIP Aeroshell Fluid 41	HH	E	G	G	G	E	C
AGIP ARNICA 46	HH	E	G	G	E	G	-
AGIP Arnica Extra Plus	HEES	G	G	G	C	G	E
AGIP Arnica Plus	HEES	E	E	E	E	E	E
AGIP Arnica S46	HFDU	E	E	E	G	E	E
AGIP ATF 2D Gear	HH	G	G	G	G	C	-
AGIP OSO 32	HH	E	E	E	E	E	G
AGIP SINT 2000	HS	G	G	E	G	E	G
AGIP Tecsint SL5W40	HS	E	G	G	G	-	-
AKZO Fyrquel	HFDR	X	X	X	-	X	-
AMBRA Hitech 46	HH	E	E	E	G	E	G
ANDEROL 497	HEES	G	C	G	C	G	-
ANDEROL 8768	HS	G	G	C	G	G	-
API HS 46	HH	G	C	C	E	-	-
ARAL Vitam DF Top 46	HH	E	G	G	-	G	G
ARAL Vitam EHF 46	HEES	E	E	G	G	G	G
ATLAS COPCO PAROIL S BULK	HS	G	C	C	G	C	-
ATLAS Copco Roto H	HS	G	G	G	E	G	E
ATLAS Copco Roto Inject Fluid	HH	E	G	G	G	G	E
ATLAS Copco Roto Inject Fluid Plus	HS	E	G	G	E	G	E
AVIA HVI 46	HS	G	G	G	E	G	-
AVIA Syntofluid F 46	HEES	E	G	E	G	G	E
AVIA Syntofluid N 32	HEES	G	G	E	G	E	G
AVIA Syntofluid N 46	HEES	E	E	G	C	E	G
AVIA Syntofluid PE B 30	HS	G	G	G	-	G	G
AVIA Syntofluid PE B 50	HS	G	C	C	G	G	-
BINOL Hydra P ii 46	HETG	E	E	G	-	G	-
BP A 0629L/028	HS	G	G	G	E	G	G
BP Biohyd SE-S 46	HEES	G	G	E	G	E	-
BP ENERGOL HLP 46	HH	G	G	G	-	-	-
BP Vanellus C 5	HH	E	G	G	G	-	-
BREMER Rivolta SBH 23	HEES	E	G	E	G	G	E
CALTEX RANDO HD	HH	G	C	C	G	-	-
CASTROL Aero HF 585 B	HH	E	G	G	G	E	C
CASTROL Anvol SWX 68	HFDU	E	G	E	G	G	-
CASTROL Biotech Alpin 22	HETG	E	E	E	C	E	-
CASTROL Brayco 717	HH	E	G	G	G	G	G
CASTROL Carelube HTG	HETG	G	G	G	G	G	G
CASTROL Hyspin EL 46	HEES	E	G	E	-	E	-
CASTROL Hyspin HDH 7000	HH	E	E	E	E	E	-
CASTROL Icematic SW 100	POE-AC	G	G	G	-	C	E

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FLUIDS COMPATIBILITY

FLUID	TYPE	WIRE SPIRAL	SPECIAL WIRE BRAIDED	WIRE BRAIDED	HT WIRE BRAIDED	TEXTILE BRAIDED	TPE TEXTILE BRAIDED
	ISO 6743	GOLDENSPIR DIAMONDSPIR SHIELDMASTER ROCKMASTER XTRAFLEX GOLDENISO LL	ETERNITY NOZONE 2K	TRACTOR SHIELDMASTER ROCKMASTER HARVESTER/17 PILOT LYTEFLEX COVER GOLDENISO AW TWINPOWER	EQUATOR	ASTRO SPIRTEX/K MULTITEX PUSH FIT	HYDROPLAST HYDROTWIN
CASTROL Lift oil	HH	G	G	G	G	G	G
CASTROL PRODUCT L 571	HH	E	G	G	G	G	-
CASTROLTransynd RD	HS	G	G	G	E	G	E
CEPSA Hydraulico HM 46	HH	E	E	G	E	G	E
CHEVRON Hydraulic AW 46	HH	E	E	G	G	G	-
CHEVRON Rycon MV	HH	E	G	G	G	G	-
DOT 3	HPG	G	G	X	X	X	X
DOT 4	HPG	G	G	X	C	X	C
ESSO Nuto H46	HH	G	G	G	E	G	E
ESSO Univis N46	HH	E	G	G	E	C	-
EXXON HUMBLE H 46	HH	E	G	G	E	G	
EXXON MOBIL 424	HH	G	G	G	G	-	-
FINKE Aviaticon HY HE	HEES	G	G	E	-	E	G
FOLTZERMSPRINGOLI HYDRA 46	HH	C	C	C	E	-	-
FRAGOLHE 46	HEES	E	G	E	G	G	E
FUCHS Idea Triton SE 55	POE-AC	G	G	G	G	G	E
FUCHS Eco Hyd 46 S NWG	HEES	G	G	G	C	G	-
FUCHS Planto Hytrac	HH	G	G	G	G	G	G
FUCHS Plantohyd 46s	HEES	E	G	E	G	E	E
FUCHS Plantohyd N 46	HETG	G	G	E	E	E	E
FUCHS PLANTOHYD SUPER S46	HEES	G	C	G	C	-	-
FUCHS Plantosyn 3268 Eco	HEES	G	C	E	E	E	G
FUCHS Plantosyn 46 HVI	HEES	G	G	C	G	G	G
FUCHS Renolin B15 VG46	HH	G	G	G	-	-	-
FUCHS Renolin MR 520	HH	G	G	E	G	E	E
GULF Armony AW 46	HH	E	E	G	E	C	E
HOUGHTON Cosmolubric HF 130	HFDU	G	G	G	C	G	-
HOUGHTON Safe 620	HFC	G	G	G	X	-	-
HOUGHTON-Safe 273 CTF	HFC	E	G	E	X	-	-
IDEMITSU DAPHNE 46	HH	G	G	G	E	G	-
IGOL Marine 15W-40	HH	G	G	G	-	-	-
IGOL MATIC FLUID BIO 46	HETG	E	G	G	E	G	-
IGOL TICMA FLUID BIO 46	HEES	G	G	G	C	G	-
IGOL ZNS 46	HH	E	G	G	E	-	-
INGERSOLL RAND SSR Ultra plus coolant	POE-AC	G	G	G	E	G	G
INGERSOLL RAND Ultra Plus Coolant	POE-AC	G	G	G	E	-	-
IRVING HYDRAULICS 46	HH	G	G	G	E	G	-
ISAFLEX KOMPRESSOIL SE	HEES	E	G	G	C	-	-
JACOBSEN Greens care	HETG	G	-	G	-	-	-
J. Deere Biohygard II	HETG	E	E	E	E	G	G
KLUBER HYSYN FG46	HS	G	C	C	G	-	-
KLUBER SUMMIT HYSYN FG 46	HS	G	G	G	G	C	-
kOLLEIK PL 42 Hydrauli Kolleik		G	C	C	-	-	-
KOMATSU Genuine Bio 46 G4	HEES	E	E	E	E	G	E

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HOSES - FLUID COMPATIBILITY CHART

FLUIDS COMPATIBILITY

FLUID	TYPE	GOLDENSPIR DIAMONDSPIR SHIELDMASTER ROCKMASTER XTRAFLEX GOLDENISO LL	ETERNITY NOZONE 2K	TRACTOR SHIELDMASTER ROCKMASTER HARVESTER/17 PILOT LYTEFLEX COVER GOLDENISO AW TWINPOWER	EQUATOR	ASTRO SPIRTEX/K MULTITEX PUSH FIT	HYDROPLAST HYDROTWIN
	ISO 6743	WIRE SPIRAL	SPECIAL WIRE BRAIDED	WIRE BRAIDED	HT WIRE BRAIDED	TEXTILE BRAIDED	TPE TEXTILE BRAIDED
KOMATSUKPO 10 Powertrain TO 10	HH	E	E	G	G	G	E
LUBRIZOL Emkarate RL 100S	POE-AC	G	G	C	-	C	G
MAV Sint Plus 2005 ISO46	HS	G	G	C	C	G	-
METLUBE HFR 220	HFC	G	G	C	E	C	-
MICRO QUIMICA Microcorte 530	HFB	G	G	G	X	C	-
MILLERS Millfood 32	HS	G	G	G	E	G	E
MOBIL Aero HF MIL H5606	HH	E	G	G	G	G	-
MOBIL Arctic EAL 22	POE-AC	E	E	G	G	G	G
MOBIL DTE 10 EXCEL	HH	E	G	C	G	G	-
MOBIL DTE 13	HH	E	G	G	E	G	-
MOBIL DTE 25	HH	G	G	G	E	G	E
MOBIL DTE EXCEL 46	HH	G	G	G	E	C	-
MOBIL EAL 224 H	HETG	G	G	E	X	E	G
MOBIL Hydrofluid HFDU	HFDU	E	E	E	G	E	E
MOBIL Jet oil II	HS	G	G	G	C	E	-
MOBIL Rarus SHC 1026	HS	E	G	G	E	G	-
MOBIL SHC 524	HS	E	G	G	E	-	-
MOBIL Therm 605	HH	G	G	G	E	G	-
MOTOREX Oekosynt 46	HEES	G	G	G	G	E	-
NALCO Varidos FSK 40%	HFB	E	E	E	E	E	-
NESTE BIO Hydrauli LONGLIFE 46	HEES	G	C	G	C	-	-
NESTE BIO Hydrauli SE 46	HEES	E	G	G	G	-	-
NESTE Biohydrauli SE 46	HEES	E	E	E	G	E	G
NESTE HYDRAULI 32 SUPER	HH	E	G	C	E	-	-
NESTE HYDRAULI 46 SUPER	HH	E	G	C	E	-	-
NYCO Hydraunic Oil FH 51 - MIL H5606	HH	G	G	E	C	E	C
NYCO Hydraunic Oil FH 6 - MIL H6083	HH	G	G	E	C	E	C
NYCO Hydraunic oil FH3 (MIL H 46170 C-1)	HS	E	G	G	E	G	-
OMV Biohyd MS 46 (!00°C)	HEES	G	G	G	-	G	G
OMV HLP AL 46	HH	E	G	G	E	C	-
PAG SP 10	HPG	G	G	G	-	C	E
PANOLIN EP Gear Synth 30 VDT	HEES	G	C	G	C	G	G
PANOLIN GRO Sint 46	HEES	G	G	G	X	-	E
PANOLIN HLP SYNTH 46	HEES	E	C	G	X	G	E
PENTOSIN CHF 11 S (ATF fluid)	HS	G	G	C	E	C	-
PETRO CANADA Hydrex aw 46	HH	G	G	C	G	G	-
PETRO CANADA HYDREX MV 60	HH	G	G	G	G	G	-
PETROFER Ultra Safe 620	HFC	E	E	E	X	E	-
Q8 Handel 68	HH	G	G	C	E	G	E
Q8 Heller 46	HH	E	G	G	E	G	-
Q8 Hogart 46	HH	G	C	C	G	G	-
Q8 Holbein	HEES	E	G	G	G	G	-
Q8 T720 15W-40	HH	E	G	G	E	G	-
QUAKER Greensave N 40	HETG	G	G	G	C	G	G

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HOSES - FLUID COMPATIBILITY CHART

FLUIDS COMPATIBILITY

FLUID	TYPE	WIRE SPIRAL	SPECIAL WIRE BRAIDED	WIRE BRAIDED	HT WIRE BRAIDED	TEXTILE BRAIDED	TPE TEXTILE BRAIDED
	ISO 6743	GOLDENSPIR DIAMONDSPIR SHIELDMASTER ROCKMASTER XTRAFLEX GOLDENISO LL	ETERNITY NOZONE 2K	TRACTOR SHIELDMASTER ROCKMASTER HARVESTER/17 PILOT LYTEFLEX COVER GOLDENISO AW TWINPOWER	EQUATOR	ASTRO SPIRTEX/K MULTITEX PUSH FIT	HYDROPLAST HYDROTWIN
QUAKER Quintolubric 888	HFDU	G	G	G	C	G	-
QUAKER QUINTOLUBRIC 888-46	HFDU	G	C	G	C	-	-
QUAKER QUINTOLUBRIC 888-68	HFDU	G	C	G	C	-	-
QUAKER Quintolubric N 822-300	HFDU	G	C	G	-	G	-
RAISIO Biosafe SE 46	HEES	G	G	G	X	G	-
RAUTIO ERGO MIX	HH	G	G	C	E	-	-
SHAEFFER 112 NZ HTC 32	HH	G	G	C	G	C	-
SHAEFFER 254 SUPREME ISO 32 TH 220	HS	G	C	C	G	C	-
SHAFFER 112 HTC	HS	G	G	G	E	-	-
SHAFFER 275S DILEX SUPREME MEHF HYD	HS	G	C	C	E	-	-
SHELL Arctic 32	HH	G	G	E	G	E	E
SHELL ATF III	HH	E	G	G	E	G	-
SHELL Cassida HF 46	HS	G	G	G	E	G	G
SHELL Corena D	HH	G	G	G	E	G	G
SHELL Donax TD	HH	E	G	G	E	-	-
SHELL Helix Ultra 5W40	HS	G	G	G	E	G	-
SHELL Irus Fluid DU-NA 68	HFDU	G	G	G	G	G	-
SHELL NATURELLE HF-E15	HEES	E	G	G	G	E	G
SHELL Rimula R3	HH	E	G	G	E	G	E
SHELL Rimula X30	HH	G	G	G	E	-	-
SHELL ROTELLA TMG SAE 15W-40	HH	G	G	G	E	G	-
SHELL SPIRAX ASX GEAR SAE 80W-140	HS	G	G	G	G	G	-
SHELL Tegula V32	HH	E	G	G	E	G	E
SHELL Tellus 46	HH	E	G	G	E	G	E
SHELL Tellus 68	HH	E	G	G	E	C	-
SHELL Tellus 100	HH	G	G	G	E	G	-
SHELL Tellus EE	HS	E	C	C	G	X	-
SHELL TELLUS H 46	HH	G	G	G	-	-	-
SHELL Tellus S 46	HH	E	G	G	E	G	E
SHELL Tellus T 32	HH	E	G	G	E	G	-
SHELL Tellus T 46	HH	E	G	G	E	-	-
SHELL Tellus T 68	HH	E	G	G	E	G	-
SHELL Tellus TX 68	HH	G	C	G	G	G	-
SHELL V oil 1404	HH	G	G	G	G	G	G
SOLUTIA Skydroll 500	HFDR	X	X	X	X	X	X
STATOIL HYDRAWAY EXTREME46	HH	E	G	G	E	-	-
STUART Hydrocor CC44	HFC	C	C	G	X	G	-
STUART Isocore E68 Plus	HPG	E	E	G	G	E	-
SUNOCO Sunvis 746	HH	E	G	G	E	C	G
SUNOCO Sunvis 846	HH	G	G	G	G	G	G
TAMOIL ATF II D	HH	G	G	G	G	-	-
TAMOIL Green Hydro Safety 46	HETG	E	E	E	-	E	G
TEBOIL Hydraulic arctic	HH	G	G	E	G	E	E
TEBOIL Eco 46	HEES	E	E	G	C	G	G

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HOSES - FLUID COMPATIBILITY CHART

FLUIDS COMPATIBILITY

FLUID	TYPE	GOLDENSPIR DIAMONDSPIR SHIELDMASTER ROCKMASTER XTRAFLEX GOLDENISO LL	ETERNITY NOZONE 2K	TRACTOR SHIELDMASTER ROCKMASTER HARVESTER/17 PILOT LYTEFLEX COVER GOLDENISO AW TWINPOWER	EQUATOR	ASTRO SPIRTEX/K MULTITEX PUSH FIT	HYDROPLAST HYDROTWIN
	ISO 6743	WIRE SPIRAL	SPECIAL WIRE BRAIDED	WIRE BRAIDED	HT WIRE BRAIDED	TEXTILE BRAIDED	TPE TEXTILE BRAIDED
TEXACO Biostar Hydraulic 32	HETG	E	G	E	G	E	-
TEXACO Rando HD 46	HH	E	G	G	E	C	G
TEXACO Rando HDZ 46	HH	E	C	G	E	C	G
TEXACO Rando HD VZ 46	HS	G	G	G	C	G	G
TOTAL AZOLLA HZS 46	HH	E	G	G	E	-	-
TOTAL Azolla ZS 46	HH	G	G	G	E	G	E
TOTAL Biohydran SE 46	HEES	E	C	G	C	E	G
TOTAL DACNIS SH 46	HS	G	G	G	G	-	-
TOTAL Dacnis VS 45	HH	G	G	C	E	C	-
TOTAL EQUIVIS ZS 46	HH	G	G	G	-	C	-
UNIL HYDRO S46	HH	G	G	G	E	C	G
UNIL OPAL HV 46	HH	G	G	G	E	-	-
UNIL OPAL HVB 46	HH	G	G	G	E	-	-
VALVOLINE ULTRAMAX HVLP 68	HH	G	G	C	E	-	-
Water Glycol emulsion (50%)	HFC	E	E	E	X	E	E
WUSURA WM3021 2,8% in H_2O	HFA	E	E	E	G	E	E
YORK 777	HEES	G	G	G	C	G	E

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HOSES - FLUID COMPATIBILITY CHART

CHEMICALS COMPATIBILITY

	FLUID	GOLDENSPIR DIAMONDSPIR SHIELDMASTER ROCKMASTER XTRAFLEX GOLDENISO LL WIRE SPIRAL	ETERNITY NOZONE 2K SPECIAL WIRE BRAIDED	TRACTOR SHIELDMASTER ROCKMASTER HARVESTER/17 PILOT LYTEFLEX COVER GOLDENISO AW TWINPOWER WIRE BRAIDED	EQUATOR HT WIRE BRAIDED	ASTRO SPIRTEX/K MULTITEX PUSH FIT TEXTILE BRAIDED	HYDROPLAST HYDROTWIN TPE TEXTILE BRAIDED
A	Acetaldheide	C	C	C	C	C	-
	Acetic Acid, 10%	C	C	C	G	C	E
	Acetic Acid, 25% 100°C	C	C	C	C	C	G
	Acetic Acid glacial	C	C	C	C	C	G
	Acetone	C	C	C	C	C	E
	Air (80°C)	G	G	G	E	G	G
	Air (100°C)	G	G	C	E	C	X
	Air (150°C)	X	X	X	E	X	X
	Ammonia, gaseous	G	G	E	G	E	X
	Ammonia, liquid	C	C	G	C	G	X
	Ammonium Hydroxide, 10%	E	E	G	E	G	-
	Ammonium Hydroxide, conc	E	E	C	E	C	-
	Ammonium nitrate (aqueous solutions)	G	G	G	G	G	G
	Ammonium phosphate, mon-di-tri basic (aq. Sol)	E	E	E	E	E	G
	Ammonium sulphate (aqueous solution)	E	E	E	E	E	G
	Aniline	C	C	C	C	C	X
	Aqua regia	C	C	C	X	C	-
	ASTM oil n°1, 100°C	E	E	E	E	E	E
	ASTM oil n°2, 100°C	G	G	E	G	E	E
	ASTM oil n°3, 100°C	E	C	E	C	E	E
B	Benzene	C	X	C	X	C	E
	Boric acid 10% 100°C	E	E	E	E	E	E
	Brake fluid (SAE J 1703d)	X	-	X	G	X	-
	Butanol	E	E	E	E	E	E
C	Calcium bicarbonate	E	E	E	E	E	-
	Calcium hydroxide (Aqueous suspensions)	E	E	E	E	E	-
	Carbonic anhydride	G	G	G	G	G	E
	Chlorine	C	C	C	G	C	X
	Chloroform	C	C	C	C	C	X
	Citric Acid, 33%	G	G	G	G	G	E
	Crude oil	E	C	E	C	E	G
D	Dibenzyl ether	X	X	X	X	X	-
	Dibutyl phtalate (DBP)	C	X	C	X	C	E
	Diesel fuel (70°C)	G	G	G	C	E	E
	Diesel fuel Bio RME	C	X	C	X	E	G
E	Epichlorhydrine	X	X	X	X	X	X
	Ethyl acetate	C	X	C	C	C	G
	Ethyl alcohol	E	E	E	E	E	E
	Ethyl ether (70°C)	G	C	G	-	G	-
	Ethylene	E	E	E	-	E	G
	Ethylene glycole	E	E	E	G	E	E
	Ethylene glycole (100°C)	E	G	E	G	E	G
F	Formaldheyde	C	G	C	C	C	G
	Formic acid 23°C (saturated solution)	G	G	G	G	G	G

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	Formic acid 75°C (saturated solution)	C	C	C	C	C	C
	Fuel A (iso-octane)	E	G	E	G	E	E
	Fuel B (70% iso-octane, 30% toluene)	G	C	G	C	E	E
	Fuel C (50% iso-octane, 50% toluene)	C	X	C	X	G	E
G	Glycerine	E	E	E	E	E	E
H	Heptane	E	C	E	C	E	E
	Hydraulic oils (see detailed table)	*	*	*	*	*	*
	Hydrochloric acid, 10%	G	G	G	G	G	G
	Hydrochloric acid, 37%	G	C	G	G	G	X
	Hydrochloric acid, 37% 70°C	X	X	X	X	X	X
	Hydrocyanic acid 20%	C	C	C	-	C	-
	Hydrogen sulphide	X	G	X	C	X	E
I	Isobutyl alcohol	G	E	G	E	G	E
	Isopropyl alcohol	G	E	G	E	G	E
	Iso-octane	E	G	E	G	E	E
K	Kerosene (aromatics 40%max, 70°C)	G	C	G	C	E	G
L	Lead free petrol	E	G	E	C	E	G
M	Magnesium hydroxide (aqueous solutions)	G	E	G	E	G	-
	Mercury	E	E	E	E	E	E
	Methanol	G	E	G	E	G	G
	Methyl methacrylate	X	X	X	X	X	-
	Methylethylketone (MEK)	X	C	X	C	X	E
N	Nitric acid, concentrated 65%	X	X	X	C	X	X
	Nitric acid, diluted 10% 50°C	C	X	C	C	C	X
	Nitric acid fuming	X	X	X	X	X	X
	Nitrogen	G	G	G	G	G	G
O	Oleic acid	C	C	C	G	C	E
	Oleum	G	C	G	C	G	X
	Oxalic acid 25% 80°C	G	G	G	G	G	-
	Oxygen (80°C)	C	G	C	E	C	E
P	Paraffin	E	E	E	E	E	E
	Pentane	E	C	E	C	E	E
	Petrol	E	C	E	C	E	E
	Petroleum, 70°C	E	G	E	C	E	E
	Phenol	C	C	C	C	C	C
	Phosphoric acid 20%	G	C	G	C	G	-
	Phosphoric acid 60% 50°C	C	X	C	X	C	-
	Phosphoric acid 85%	C	X	C	X	C	-
	Phosphorous tri-chloride	X	X	X	X	X	-
	Picric acid 10% 100°C	C	C	C	G	C	-
	Potassium chloride (aqueous solution)	E	E	E	E	E	-
	Potassium hydroxide 70°C (medium high conc.)	G	G	G	E	G	E
	Potassium sulphate (aqueous solution)	E	E	E	E	E	-
S	Sea water	E	E	E	C	E	E

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HOSES - FLUID COMPATIBILITY CHART

CHEMICALS COMPATIBILITY

	FLUID	GOLDENSPIR DIAMONDSPIR SHIELDMASTER ROCKMASTER XTRAFLEX GOLDENISO LL WIRE SPIRAL	ETERNITY NOZONE 2K SPECIAL WIRE BRAIDED	TRACTOR SHIELDMASTER ROCKMASTER HARVESTER/17 PILOT LYTEFLEX COVER GOLDENISO AW TWINPOWER WIRE BRAIDED	EQUATOR HT WIRE BRAIDED	ASTRO SPIRTEX/K MULTITEX PUSH FIT TEXTILE BRAIDED	HYDROPLAST HYDROTWIN TPE TEXTILE BRAIDED
	Soaps	E	G	E	G	E	E
	Soda	G	G	G	G	G	G
	Sodium bicarbonate	E	E	E	E	E	G
	Sodium chloride (aqueous solution)	E	E	E	E	E	E
	Sodium hydroxide	C	G	C	G	C	E
	Sodium hydroxide 70°C (medium high conc.)	C	G	C	G	C	C
	Sodium hypochlorite (aqueous solutions)	C	G	C	G	C	E
	Sodium silicate (aqueous solutions)	E	E	E	E	E	-
	Sodium sulphate (aqueous solution)	E	E	E	E	E	-
	Sodium sulphide	E	E	E	E	E	-
	Stearic acid	E	E	E	E	E	E
	Sulphur	G	G	G	G	G	-
	Sulphur dioxide	X	X	X	X	X	-
	Sulphuric acid (hot concentrated 96°C)	X	X	X	X	X	X
	Sulphuric acid (diluted 20%)	X	X	X	C	X	E
	Sulphuric anhydride	X	X	X	C	X	X
	Sulphurous acid	X	X	X	C	X	X
T	Tannic acid	C	G	C	G	C	E
	Tannin	E	E	E	E	E	E
	Tartaric acid 20%	E	G	E	G	E	-
	Tetraethyl lead	G	G	G	C	G	-
	Toluene	C	X	C	X	C	E
	Turpentine	G	X	G	X	G	-
U	Urea	E	E	E	G	E	-
V	Vinyl acetate	E	E	E	E	E	-
	Vinyl chloride	X	X	X	X	X	-
W	Water	E	E	E	C	E	E
X	Xylene	C	X	C	X	C	G
Z	Zinc chloride (aqueous solutions)	E	E	E	E	E	E
	Zinc sulphate (aqueous solutions)	E	E	E	E	E	-

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HOSES BY WORKING PRESSURE

HOSE SIZE		WORKING PRESSURE (bar)																			
	DN	5	6	8	10	12	16	19	22	25	28	31	35	38	46	51	60	63	76	89	102
	dash	-03	-04	-05	-06	-08	-10	-12	-16	-16	-20	-20	-24	-24	-32	-32	-38	-40	-48	-56	-64
GOLDENSPIR®/4SP			485		450	420	380	380		320											
GOLDENSPIR®/4SH								420		385		350		300		250					
TRACTOR®/1T		250	225	215	180	160	130	105		88		63		50		40	50				
TRACTOR®/2T		415	400	350	330	275	250	215		165		125		90		80	90				
TRACTOR®/1K			225	215	180	160	130	105		88		63		50		40		50	35		
TRACTOR®/2K			400	350	330	275	250	215		165		125		100		90		70	45		
LYTE-FLEX®			350	297	280	245	210	210		140											
HARVESTER®/17			210	210	210	210															
COVER		210	210	157	140	122	105		56		43		35		24						
SPIRTEX/K							21	21		17		14		10		7		4	4	3	2
MULTITEX		35	30	30	30	30	30	30		30											
ASTRO/2			75	68	63	58	50	45		40		35									
ASTRO/3			145	130	110	93	80	70		55		45		40		33					
HYDROPLAST		210	192	187	175	140															
HYDROTWIN		210	192	187	175	140															
ROCKMASTER®/1SN			225	215	180	160	130	105		90		65		50		40	50				
ROCKMASTER®/2SN			400	350	350	350	250	215		175		140		100		90	90				
ROCKMASTER®/2ST		415	400	350	350	350	250	215		175		140		100		90					
ROCKMASTER®/2PLUS			450		400	362	340	310		240		175		146		130			70		
ROCKMASTER®/1SC			260	250	225	190	150	150		110		75		50		50					
ROCKMASTER®/2SC		420	400	350	330	275	250	245		210		140		100		90		70	45		
ROCKMASTER®/4SP			485		450	420	380	380		320		210		185		175					
ROCKMASTER®/4SH							450	420		385		350		300		250					
ROCKMASTER®/12					280	280	280	280		280		210		175		175					
ROCKMASTER®/13			690		690	620		350		350		350		350		350					
ROCKMASTER®/15								420		420		420		420							
EQUATOR™/1			225	215	180	160	130	105		88		65		50		40		35			
EQUATOR™/2			400	350	330	275	250	215		175		150		100		90					
NOZONE®/2K			400	350	330	275	250	215													
GOLDENISO®/21 ANTIWEAR			210	210	210	210	210	210		210											
GOLDENISO®/28 ANTIWEAR			280	280	280	280	280	280													
GOLDENISO®/45 LONGLIFE							460	460		460		450									
TWINPOWER®/4000					280	280															
TWINPOWER®/5000					350	350															
SHIELDMASTER®/2000			140		140	140															
SHIELDMASTER®/4000			276	276	276	276	276	276		276		276		276		276					
SHIELDMASTER®/5000			345	345	345	345	345	345		345											
SHIELDMASTER®/6000			420		420	420	420	420		420		420		420		420					
XTRAFLEX™/4000								280		280		280									
XTRAFLEX™/5000								350		350		350									
XTRAFLEX™/6000								420		420		420									
PUSHFIT			35	35	35	25	25	21		14											
PILOT		150	150	120	100	100															
TWINPOWER®/PLUS						310															
ETERNITY™/2			450	400	365	350	300	300		225											
DIAMONDSPIR™								560		560		525		475		420		350	210		
JACKMASTER			725		725																
FIREND			225		180	160		105		88											
GOLDENMINE																		200			
SHIELDMASTER®/2 PLUS MINE			450	400	400	362		310		240		175		146		130					
SHIELDMASTER®/5000 MINE			345	345	345	345	345	345		345		345									
SHIELDMASTER®/6000 MINE												420		420		420					

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HOSES BY TYPE APPROVALS

	HYDRAULICS, MARINE EQUIPMENT TYPE APPROVALS								MINING SAFETY TYPE APPROVALS						GOVERNMENT, SAFETY AND SPECIAL TYPE APPROVALS		
	ABS	BV	DNV	GL	KRS	LLOYD'S REGISTER	RINA	MED	MSHA	POLISH "B"	FRAS	LOBA	MA	DGMS	Elevators EN 81-2	BWB	GOST-R
ASTRO/2				*													
ASTRO/3				*													
COVER																	*
CPH/2SC (BLUE)									*			*					*
DIAMONDSPIR	*								*		*	*					*
EQUATOR/1	*	*	*	*		*		*	*								*
EQUATOR/1 (BLUE)	*	*	*	*		*		*	*								*
EQUATOR/2	*	*	*	*		*		*	*								*
EQUATOR/2 (BLUE)	*	*	*	*		*		*	*								*
ETERNITY/2			*					*	*			*					*
FIREND									*								*
GOLDENBLAST									*								*
GOLDENBLAST/PLUS									*								*
GOLDENBLAST/SIX									*								*
GOLDENDRILL									*								*
GOLDENISO/21 ANTIWEAR									*								*
GOLDENISO/28 ANTIWEAR									*								*
GOLDENISO/45 LONGLIFE									*								*
GOLDENMINE									*								*
GOLDENSPIR/4SH	*	*	*	*	*	*			*							*	*
GOLDENSPIR/4SP	*	*	*	*	*	*			*							*	*
HARVESTER/17						*											*
HYDROPLAST																	*
HYDROTWIN																	*
JACKMASTER																	*
K-JET																	*
LYTE-FLEX						*											*
MULTITEX																	*
NOZONE/2K									*								*
PILOT									*								*
PROJET																	*
PUSHFIT																	
REFRIFAST																	
REFRIMASTER																	
REFRIMASTER/PLUS																	
REFRISTAR																	*
ROCKMASTER/12	*	*				*		*	*		*	*	*				*
ROCKMASTER/13	*	*					*	*	*	*	*	*	*				*
ROCKMASTER/15	*	*	*	*		*		*	*	*	*	*	*				*
ROCKMASTER/1SC						*			*		*	*					*
ROCKMASTER/1SN		*	*					*	*		*	*					*
ROCKMASTER/2PLUS		*	*			*			*		*	*	*				*
ROCKMASTER/2SC						*	*		*	*	*	*	*				*
ROCKMASTER/2SN		*	*				*	*	*	*	*	*		*			*
ROCKMASTER/2ST		*				*			*	*	*	*					*

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HOSES BY TYPE APPROVALS

	HYDRAULICS, MARINE EQUIPMENT TYPE APPROVALS								MINING SAFETY TYPE APPROVALS						GOVERNMENT, SAFETY AND SPECIAL TYPE APPROVALS		
	ABS	BV	DNV	GL	KRS	LLOYD'S REGISTER	RINA	MED	MSHA	POLISH "B"	FRAS	LOBA	MA	DGMS	Elevators EN 81-2	BWB	GOST-R
ROCKMASTER/4SH			*			*	*	*	*	*	*	*	*	*			*
ROCKMASTER/4SP			*				*	*	*	*	*	*	*				*
SHIELDMASTER/2000																	*
SHIELDMASTER/2PLUS MINE									*			*					*
SHIELDMASTER/4000																	*
SHIELDMASTER/5000																	*
SHIELDMASTER/5000 MINE									*			*					*
SHIELDMASTER/6000																	*
SHIELDMASTER/6000 MINE									*			*					*
SPIRTEX/K																	*
SUPERJET																	*
SUPERJET/PLUS																	*
TRACTOR/1K	*			*		*			*						*		*
TRACTOR/1T	*	*	*	*	*	*					*					*	*
TRACTOR/2K	*		*	*		*									*	*	*
TRACTOR/2T	*	*	*	*	*	*										*	*
TWINPOWER/4000																	*
TWINPOWER/5000									*								*
TWINPOWER/PLUS									*								*
XTRAFLEX/4000									*								*
XTRAFLEX/5000									*								*
XTRAFLEX/6000									*								*

Remark! Please verify hose size extension, expiry date and production plant of reference of the type approval certificate.
Aviso! Por favor verifique el tamaño de la manguera, fecha de fabricacion, el tipo de aprobación y su vencimiento.
Wichtig! Prüfen Sie die Nenngröße, das Ablaufdatum und das Produktionswerk auf der Zulassungsurkunde.
Nota! Verificare la dimensione del tubo, la data di validità e lo stabilimento di produzione a cui il certificato fa riferimento.

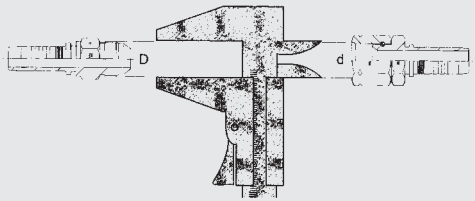
MRI TYPE APPROVALS: certification bodies

ABS	American Bureau of Shipping
BV	Bureau Veritas
BWB	Bundesamt für Wehrtechnik und Beschaffung (available upon request)
DGMS	Directorate General of Mines Safety - India
DNV	Det Norske Veritas
FRAS	Fire Resistant and Anti-Static (Australian Dept. Mineral Resources)
GL	Germanischer Lloyd
GOST-R	GOST-R accreditation (Russian Federation and CIS)
KRS	Korean Register of Shipping
LOBA	Landesoberbergsamt Nordrhein - Westfalen
LR	Lloyd's Register of Shipping
MA	Chinese Mining Approval
MED	Marine Equipment Directive (European Directive)
MSHA	Mine Safety and Health Administration
POLISH (B)	Polish Safety Certification type "B" for mining
RINA	Registro Italiano Navale

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To identify thread size temination end, measure the exterior male thread diameter O.D. or the internal female thread diameter I.D., and then, looking to the column mm, you will get the correspondent thread size.



Para identificar la medida de la rosca, mida el diámetro exterior de la en el macho O.D. o el diámetro interior de la rosca en la hembra I.D, luego mirando la columna mm obtendrá el tamaño correspondiente de la rosca.

Um ein Gewinde zu bestimmen, messen Sie den Durchmesser des Außengewindes (Male O.D.) bzw. des Innengewindes (Female I.D.), suchen Sie den gemessenen Wert in der Spalte „mm" und lesen Sie in der Spalte „Male O.D." bzw. „Female I.D." das entsprechende Gewinde ab.

Per identificare la filettatura delle parti terminali, misurare il diametro esterno nei maschi (O.D.) o il diametro interno nelle femmine (I.D.), quindi controllare nella colonna mm la misura a cui corrisponde il filetto.

MALE O.D.	MM	FEMALE I.D.
	8,5	3/8"-24 UNF
	8,7	1/8"-28 GAS
	9,2	1/8"-27 NPSM
3/8"-24 UNF	9,4	
1/8"-28 GAS	9,6	
M10x1	10,0	7/16"-20 UNF
1/8"-27 NPTF	10,4	
	10,5	M12x1,5
7/16"-20 UNF	11,0	
	11,4	1/2"-20 UNF
	11,6	1/4"-19 GAS
M12x1,5	12,0	
	12,2	1/4"-18 NPSM
1/2"-20 UNF	12,5	M14x1,5
1/4"-19 GAS	13,0	9/16"-18 UNF
1/4"-18 NPTF	13,9	
M14x1,5	14,0	
9/16"-18 UNF	14,2	
	14,5	M16x1,5
	14,6	5/8"-18 UNF
	15,1	3/8"-19 GAS
	15,5	3/8"-18 NPSM
5/8"-18 UNF	15,7	
M16x1,5	16,0	11/16"-16 UN
	16,5	M18x1,5
3/8"-19 GAS	16,6	
3/8"-18 NPTF	17,3	
11/16"-16 UN	17,4	3/4"-16 UNF
M18x1,5	18,0	
	18,5	M20x1,5
	18,8	1/2"-14 GAS
3/4"-16 UNF	19,0	13/16"-16 UN

MALE O.D.	MM	FEMALE I.D.
	19,2	1/2"-14 NPSM
M20x1,5	20,0	
	20,3	7/8"-14 UNF
13/16"-16 UN	20,5	M22x1,5
1/2"-14 GAS	20,8	
	21,1	5/8"-14 GAS
1/2"-14 NPTF	21,6	
M22x1,5	22,0	
7/8"-14 UNF	22,2	
	22,5	M24x1,5
5/8"-14 GAS	22,8	
	23,8	1"-14 UNS
M24x1,5	24,0	
	24,5	M26x1,5
	24,6	3/4"-14 GAS-NPSM
	24,9	1.1/16"-12 UN
	25,0	M27x2
1"-14 UNS	25,3	
M26x1,5	26,0	
3/4"-14 GAS	26,3	
1.1/16"-12 UN	26,7	
3/4"-14 NPTF	26,9	
M27x2	27,0	
	27,9	1.3/16"-12 UN
	28,0	M30x2
M30x2	30,0	
1.3/16"-12 UN	30,1	
	30,7	1"-11,5 NPSM
	30,9	1"-11 GAS
	31,0	M33x2
	31,2	1.5/16"-12 UN
M33x2	33,0	

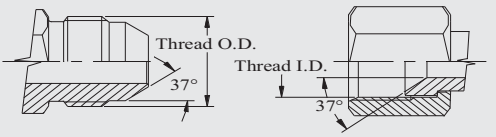
MALE O.D.	MM	FEMALE I.D.
1"-11 GAS	33,2	
1.5/16"-12 UN	33,3	
1"-11,5 NPTF	33,8	
	34,0	M36x2
M36x2	36,0	
	39,1	1.5/8"-12 UN
	39,4	1.1/4"-11,5 NPSM
	39,5	1.1/4"-11 GAS
	40,0	M42x2
1.5/8"-12 UN	41,1	
1.1/4"-11 GAS	41,7	
M42x2	42,0	
1.1/4"-11,5 NPTF	42,4	
	43,0	M45x2
M45x2	45,0	
	45,2	1.1/2"-11 GAS
	45,5	1.1/2"-11,5 NPSM
	45,7	1.7/8"-12 UN
	46,0	M48x2
1.7/8"-12 UN	47,5	
1.1/2"-11 GAS	47,7	
M48x2	48,0	
1.1/2"-11,5 NPTF	48,5	
	48,8	2"-12 UN
	50,0	M52x2
2"-12 UN	50,7	
M52x2	52,0	
	57,0	2"-11 GAS
2"-11 GAS	59,4	
2"-11,5 NPTF	60,6	
	61,2	2.1/2"-12 UN
2.1/2"-12 UN	63,3	

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ADAPTORS

TERMINATION ENDS

JIC 37° FLARE END - SAE J514 / ISO 8434-2



This connection type is very common in hydraulic circuits. Both the male and female have a 37° cone seat. When the straight threads are engaged the seal takes place. The connection is held mechanically by the threads.
WARNING: In sizes -04, -05, -08, and -10, the threads of the SAE 37° and SAE 45° are the same but the connectors have different sealing angles.

Este tipo de conexión es muy común en circuitos hidráulicos. Tanto el macho como la hembra tienen un asiento de 37° y cuando las roscas están unidas tiene lugar el sellado. La conexión está sostenida mecánicamente por la rosca.
PRECAUCION: En los tamaños -04, -05, -08, y -10, la rosca de la SAE 37° y SAE 45° es la misma pero se debe tener cuidado en no confundir estos dos conectores porque tienen diferentes ángulos de sellado.

Dieser Anschlusstyp ist sehr gebräuchlich in hydraulischen Systemen. Sowohl Außen- als auch Innengewinde verfügen über einen 37° Konus der beim Anziehen der parallelen Gewinde für die Abdichtung sorgt. Die Verbindung wird durch die mechanische Reibung der Gewinde gehalten.
WARNUNG: In Size -04, -05, -08 und -10 sind die Gewinde bei SAE 37° und SAE 45° identisch, dürfen aber keinesfalls verwechselt werden da unterschiedliche Flankenwinkel am Konus vorliegen.

Questo tipo di adattatore è molto diffuso nei circuiti idraulici. Maschi e femmine hanno il cono di tenuta a 37° e quando sono avvitati, la tenuta è garantita meccanicamente dai filetti.
ATTENZIONE: Nelle dimensioni -04, -05, -08 e -10, le filettature del SAE 37° e SAE 45° sono le medesime, ma gli angoli di tenuta sono differenti.

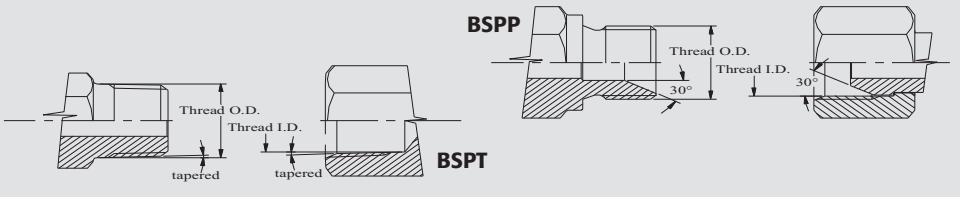
INCH SIZE	DASH	NOMINAL THREAD SIZE	MALE THREAD O.D.		FEMALE THREAD I.D.		WORKING PRESSURE		SUGGESTED TORQUE VALUES (NM)	
			mm	inch	mm	inch	bar	psi	min.	max.
1/4"	- 04	7/16" - 20	11,2	0,44	9,9	0,39	350	5070	12	15
5/16"	- 05	1/2" - 20	12,7	0,50	11,4	0,45	350	5070	18	22
3/8"	- 06	9/16" - 18	14,2	0,56	12,9	0,51	350	5070	24	32
1/2"	- 08	3/4" - 16	19,0	0,75	17,0	0,67	350	5070	45	52
5/8"	- 10	7/8" - 14	22,3	0,88	20,3	0,80	350	5070	68	80
3/4"	- 12	1.1/16" - 12	26,9	1,06	24,9	0,98	350	5070	93	105
7/8"	- 14	1.3/16" - 12	30,0	1,18	27,7	1,09	280	4060	115	130
1"	- 16	1.5/16" - 12	33,3	1,31	31,0	1,22	280	4060	130	148
1.1/4"	- 20	1.5/8" - 12	41,4	1,63	39,1	1,54	210	3040	175	192
1.1/2"	- 24	1.7/8" - 12	47,7	1,88	45,5	1,79	160	2320	215	230

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British Standard Pipe - BSP
(BSPP Parallel-ISO 228-PT & BSPT Tapered-ISO 7-PT)

TERMINATION ENDS



The British connection has two types of threads: BSPP and BSPT.
The BSPP thread is parallel and the male has a 30° flare seat which seals with a BSPP female on its 30° cone seat. The threads hold the connection mechanically.
The BSPT male thread is tapered and usually mates with a port. The seal takes place by thread distorsion, therefore sealant is recommended.
The BSPP/BSPT are similar to NPSM/NPT American connections with exception for the thread pitch that is different in most sizes.

La conexión Británica tiene dos tipos de rosca: BSPP y BSPT.
La rosca BSPP es paralela y el macho tiene un cono 30° el cual sella con una hembra BSP con su asiento de 30°. Los hilos sostienen la conexión mecánicamente.
La rosca macho BSPT es cónica y usualmente encaja con otra rosca. El sellado tiene lugar por la deformación de rosca razón por la cual se recomienda un sellante.
Los BSPP/BSPT son similares a las conexiones americanas NPSM/NPT excepto por el hilo de rosca que es diferente en la mayoría de los tamaños.

Bei BSP Anschlüssen unterscheiden wir 2 Typen von Gewinden: BSPP und BSPT.
Das BSPP Gewinde ist parallel und das Außengewinde hat einen 30° Innenkonus der mit einem BSPP Innengewinde und dessen 30° Außenkonus dichtet. Die Verbindung wird durch die mechanische Reibung der Gewinde gehalten.
Das BSPT Außengewinde ist konisch und wird gewöhnlich in ein Gewindeloch eingeschraubt.
Die Abdichtung erfolgt durch gewaltsame Verformung des Gewindes, aus diesem Grund empfiehlt sich ein zusätzliches Dichtmittel.
BSPP/BSPT sind vergleichbar mit den Amerikanischen Anschlussformen NPSM/NPT mit Ausnahme der Gewindesteigungen, die in den meistens Nennweiten abweichen.

Gli adattatori della serie britannica hanno due tipi di filettature: BSPP e BSPT.
La filettatura BSPP è cilindrica e il maschio ha una svasatura a 30° che fa tenuta con una femmina BSPP con sede a cono a 30°. Le filettature tengono la connessione meccanicamente.
La filettatura maschio BSPT è conica e in genere si accoppia con una porta. La tenuta avviene con la distorsione del filetto, ragione per cui si consiglia un sigillante.
Le filettature degli adattatori BSPP e BSPT sono simili a quelle americane NPSM e NPT, tranne per il diverso passo del filetto che è diverso in maggior parte delle misure.

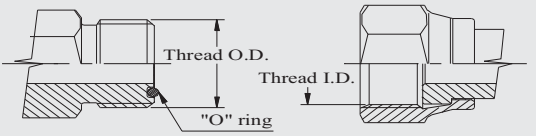
INCH SIZE	DASH	NOMINAL THREAD SIZE	MALE THREAD O.D.		FEMALE THREAD I.D.		WORKING PRESSURE		SUGGESTED TORQUE VALUES (NM)	
			mm	inch	mm	inch	bar	psi	min.	max.
1/8"	-02	1/8" - 28	9,728	0,38	8,566	0,34	350	5070	10	12
1/4"	-04	1/4" - 19	13,157	0,52	11,445	0,45	500	7250	15	20
3/8"	-06	3/8" - 19	16,662	0,66	14,950	0,59	460	6670	25	32
1/2"	-08	1/2" - 14	20,955	0,83	18,631	0,73	430	6230	45	55
5/8"	-10	5/8" - 14	22,911	0,90	20,587	0,81	350	5070	55	65
3/4"	-12	3/4" - 14	26,441	1,04	24,117	0,95	350	5070	80	93
1"	-16	1" - 11	33,249	1,31	30,291	1,19	280	4060	104	120
1.1/4"	-20	1.1/4" - 11	41,910	1,65	38,952	1,53	160	2320	150	170
1.1/2"	-24	1.1/2" - 11	47,803	1,88	44,845	1,77	125	1810	210	230

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ADAPTORS

TERMINATION ENDS

O-RING FACE SEAL (ORFS) - SAE J1453 / ISO 8434-3



This connection offers the best leakage control available in the market and it is designed to work with very high pressures. The male has a straight thread with an O-ring in the face. The female has a straight thread with a machined flat face. The seal is made by the compression of the O-ring onto the female flat face and the connection is mechanically held in place by the threads.

Esta conexión ofrece el mejor control de fugas disponible en el mercado en la actualidad y está diseñado para trabajar con presiones muy altas. El macho tiene un hilo recto y un O-ring en la cara mientras que la hembra tiene un hilo recto con una cara plana mecanizada. El sellado se hace por la compresión del O-ring en la cara plana hembra y la conexión es mecánicamente sostenida en su lugar por la rosca.

Diese Anschlussform bietet derzeit das Optimum an Dichtigkeit auf dem Markt und ist für sehr hohe Drücke geeignet.
Der Außengewindeanschluss hat ein paralleles Gewinde und einen O-ring in einer Nut auf der Stirnseite. Der Dichtkopf mit Innengewinde (Überwurf- oder Crimpmutter) verfügt über eine plan abgedrehte Stirnfläche.
Die Abdichtung erfolgt durch Kompression des O-ringes auf der Planfläche des Dichtkopfes. Die Verbindung wird durch die mechanische Reibung der Gewinde gehalten.

Questo collegamento offre attualmente il miglior controllo di perdite attualmente disponibile nel mercato ed è progettato per lavorare con pressioni molto alte.
Il maschio ha un filetto dritto con un O-ring sulla faccia, mentre la femmina ha filettatura dritta con faccia piana.
La tenuta si ottiene dalla compressione dell'O-ring sulla faccia piana della femmina e la connesione è meccanicamente sostenuta dai filetti.

INCH SIZE	DASH	NOMINAL THREAD SIZE	MALE THREAD O.D.		FEMALE THREAD I.D.		WORKING PRESSURE		SUGGESTED TORQUE VALUES (NM)		O-RING DIMENSIONS
			mm	inch	mm	inch	bar	psi	min.	max.	
1/4"	-04	9/16" - 18	14,2	0,56	12,9	0,51	460	6670	15	18	7,65x1,78
3/8"	-06	11/16" - 16	17,3	0,68	16,0	0,63	460	6670	24	28	9,25x1,78
1/2"	-08	13/16" - 16	20,6	0,81	19,0	0,75	420	6090	43	50	12,42x1,78
5/8"	-10	1" - 14	25,4	1,00	23,6	0,93	420	6090	62	68	15,6x1,78
3/4"	-12	1.3/16" - 12	30,0	1,18	27,8	1,10	420	6090	93	100	18,77x1,78
1"	-16	1.7/16" - 12	36,6	1,44	34,5	1,36	350	5070	125	140	23,52x1,78
1.1/4"	-20	1.11/16" - 12	42,7	1,68	40,6	1,60	275	3980	170	190	29,87x1,78
1.1/2"	-24	2" - 12	50,8	2,00	48,8	1,92	210	3040	210	230	37,82x1,78

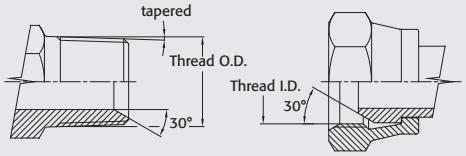
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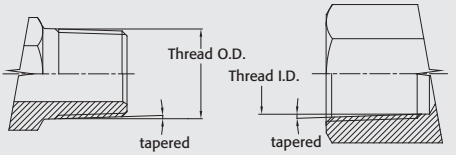
American Standard Pipe NPTF Dryseal Taper Thread
SAE J476 - ANSI B1.20.3 NPSM Straight Thread ANSI B1.20.1

TERMINATION ENDS

NPTF MALE - NPSM SWIVEL FEMALE



NPTF MALE- NPTF FEMALE



NPTF and NPSM threads are American connections having a 60° angle between the flanks.
The NPTF male and female threads are tapered they have controlled truncation to assure metal to metal contact between crest and root and sealing on the thread.
The NPTF male machined with a 30° flare seat mates also with NPSM female (parallel thread). In this case the sealing is ensured on the metal to metal contact between the cones.
WARNING: Torque values need to be reduced by 50% in the NPTF/NPSM connections and by 25-30% if sealant is present.

American Standard Pipe - NPTF Dryseal Taper Thread SAEJ476 - ANSIB1.20.3
Las roscas NPTF y NPSM son conexiones Americanas que tienen un ángulo de 60º entre los hilos.
El macho NPTF y la rosca hembra son cónicos y controlan el trucamiento para asegurar el contacto metal con metal entre cresta y raíz y crear la estanquidad en la rosca.
El macho NPTF tiene un asiento cónico de 30º también para la unión con la hembra NPTF/NPSM (rosca cilíndrica). En este caso la estanqueidad se realiza con el contacto metal con metal entre los conos.
ADVERTENCIA: Los valores de apriete necesita ser reducidos un 50% en las conexiones NPTF/NPSM y un 25-30% si se aplica sellante.

Die NPTF- und NPSM-Gewinde sind amerikanische Verbidungen mit einem 60°-Winkel zwischen den Flanken.
Die NPTF-Außen- und Innengewinde sind konisch. Die Gewinde sind so abgetrennt, dass sie das Übermaß zwischen Spitzen und Enden und damit die Dichtheit garantieren.
Das NPTF-Außengewinde hat eine 30°-Ansenkung, um die Kopplung mit den NPSM-Innengewinden mit 30°-Kegel (zylindrisches Gewinde) zu gestatten. In diesem Fall ist die Dichtheit durch den Metallkontakt zwischen den Kegeln garantiert.
ACHTUNG: Die Anzugsmomente sind bei den NPTF/NPSM-Verbindungen um 50% und bei Vorhandensein von Dichtungsmasse um 25-30% zu vermindern.

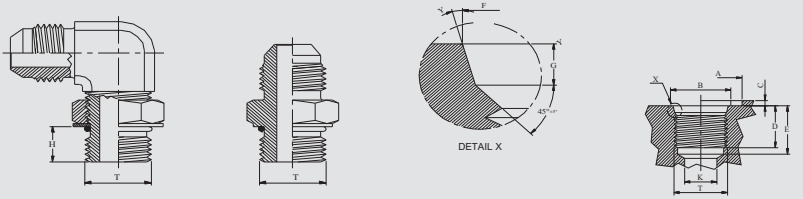
I filetti NPTF e NPSM sono connessioni americane aventi un angolo tra i fianchi pari a 60°.
Le filettature dei maschi e delle femmine NPTF sono coniche. Le troncature dei filetti sono tali da garantire l'interferenza tra creste e fondi e quindi la tenuta.
Il maschio NPTF ha una svasatura a 30° per permettere l'accoppiamento con le femmine NPSM con cono a 30° (filettatura cilindrica). In questo caso la tenuta è garantita dal contatto metallico tra i coni.
ATTENZIONE: Le coppie di serraggio devono essere ridotte del 50% nelle connessioni NPTF/NPSM e del 25-30% in presenza di sigillante.

INCH SIZE	DASH	NOMINAL THREAD SIZE	MALE THREAD O.D.		FEMALE THREAD I.D.		WORKING PRESSURE		SUGGESTED TORQUE VALUES (NM)
			mm	inch	mm	inch	bar	psi	min.
1/8"	-02	1/8"-27	10,4	0,41	9,2	0,36	345	5000	20
1/4"	-04	1/4"-18	14,0	0,55	12,2	0,48	350	5070	30
3/8"	-06	3/8"-18	17,3	0,68	15,5	0,61	280	4060	40
1/2"	-08	1/2"-14	21,6	0,85	19,2	0,76	245	3550	55
3/4"	-12	3/4"-14	26,9	1,06	24,6	0,97	210	3040	70
1"	-16	1"-11,5	33,8	1,33	30,7	1,21	175	2530	90
1.1/4"	-20	1.1/4"-11,5	42,4	1,67	39,4	1,55	145	2100	100
1.1/2"	-24	1.1/2"-11,5	48,5	1,91	45,5	1,79	145	2100	120

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PORT DIMENSIONS

UNF-UN Thread Port Dimensions (SAE J475 THREAD - ISO 11926)



THREAD DIMENSIONS	7/16"-20	1/2"-20	9/16"-18	3/4"-16	7/8"-14	1.1/16"-12	1.3/16"-12	1.5/16"-12	1.5/8"-12	1.7/8"-12
T Nom.	11,11	12,7	14,29	19,05	22,23	26,99	30,16	33,34	41,27	47,62
C Max.	1,5	1,5	1,5	2,4	2,4	2,4	2,4	3	3	3
D Min.	12	12	13	15	17	20	20	20	20	20
E Min.	14	14	16	18	20	24	24	24	24	24
K Min.	5	6	7,5	10	12,5	16	18	21	27	33
A Min.	21	23	25	30	34	41	45	49	58	65
B Min.	15	16	18	22	26	32	35	38	48	54
F ± 0,05	12,45	14,05	15,70	0,65	24	29,20	32,40	35,55	43,55	49,90
G ± 0,2	2,5	2,6	2,7	2,7	2,7	3,5	3,5	3,5	3,5	3,5
Y ± 1°	12°	12°	12°	15°	15°	15°	15°	15°	15°	15°
H Ref.	9,5	9,5	10,5	12	13,5	15,5	15,5	15,5	15,5	15,3
O-ring	8,92x1,83	10,52x1,83	11,9x1,98	16,36x2,21	19,18x2,46	23,47x2,95	26,59x2,95	29,74x2,95	37,47x3,00	43,7x3,00
Assembly torque (Nm)	21	26	37	74	105	180	225	285	305	390

Sealing with O-ring.

■ If face of port is on machined surface, dimensions A and C need not apply as long as the surface requirements (Ra min 3,2) are able to avoid damage to the OR during installation. ■ C is maximum recommended spotface depth to permit sufficient wrench grip for proper tightening of the fitting or locknut. ■ Spot faced surface (dimension B) must be squared (0,2 mm) to thread in port. ■ F diameter must be concentric (0,1mm) to thread in port. ■ Surface on lenght G needs Ra 3,2 min in order to avoid damage on OR during installation.

Sellando con O-ring.

■ Si la superficie de la cara de la rosca está mecanizada, las dimensiones A y C no necesitan ser aplicadas ya que los requerimientos de la superficie (Ra min 3,2) puedan evitar el daño al O-ring durante la instalación. ■ C es la maxima profundidad recomendada para permitir un apropiado encaje del acople o la contratuerca. ■ La superficie expuesta (dimensión B) debe ser alineada (0,2 mm) con las roscas. ■ El diámetro F debe ser concéntrico (0,1 mm) con las roscas. ■ La superficie en la longitud G necesita Ra 3,2 min para evitar daño en el O-ring durante la instalación.

Abdichtungsart mit O-Ring

■ Falls der Anschluss maschinell bearbeitet ist, müssen die Maße A und C nicht beachtet werden solange die Oberflächenbeschaffenheit (Ra min. 3,2) eine Beschädigung des O-Rings während der Montage verhindert ■ C ist die empfohlene Maximaltiefe der Anschlussfläche für einen sicheren Halt des Gabelschlüssels am Sechskant der Mutter oder Armatur bei der Montage ■ Die Gegenfläche (Maß B) muss zum Gewinde rechtwinklig sein (0,2 mm) ■ Durchmesser F muss zum Gewinde eine Konzentrizität von 0,1 mm haben ■ Die Fläche der Dichtkante G muss mindestens Ra 3,2 aufweisen, damit der O-Ring bei der Montage nicht beschädigt wird.

Tenuta con O-ring.

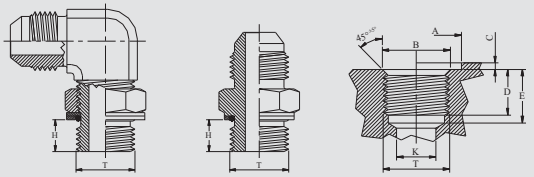
■ Se la superficie della porta è lavorata, i valori delle dimensioni A e C saranno definiti in modo da garantire Ra min 3.2 così da evitare danneggiamenti dell'O-ring durante l'installazione. ■ C è la profondità massima raccomandata tale da permettere il corretto serraggio del raccordo o del dado locknut. ■ La superficie B deve essere perpendicolare (0.2 mm) alla filettatura della porta. ■ La dimensione F deve essere concentrica (0.1 mm) con la filettatura della porta. ■ La superficie della lunghezza G deve garantire Ra 3.2 min per evitare danneggiamenti dell'O-ring durante il montaggio.

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BSPP Thread Port Dimensions (retaining RING seat type) (ISO 1179)

PORT DIMENSIONS



THREAD DIMENSIONS	1/8"-28	1/4"-19	3/8"-19	1/2"-14	3/4"-14	1"-11	1.1/4"-11	1.1/2"-11
T Nom.	9,73	13,16	16,66	20,96	26,44	33,25	41,91	47,80
C Max.	1	1,5	2	2,5	2,5	2,5	2,5	2,5
D Min.	8	12	12	14	16	18	20	22
E Min.	3	18,5	18,5	22	24	27	29	31
A Min.	17	21	24,5	30	37	46	54	61
B +0.2/-0	9,8	13,2	16,7	21	27,1	33,3	42	47,9
H Ref.	6,5	9	9,5	11,5	13,5	15	16	16
O-ring	7,97x1,88	10,80x2,62	13,95x2,62	17,86x2,62	23,47x2,62	29,70x3,53	37,70x3,53	44x3,53
Assembly torque (Nm)	20	35	70	100	190	300	330	400

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Sealing with O-ring and retaining washer.
■ If face of port is on machined surface, dimensions A and C need not apply as long as the surface requirements (Ra min 3,2) are able to avoid damage to the OR during installation. ■ C is maximum recommended spotface depth to permit sufficient wrench grip for proper tightening of the fitting or locknut. ■ Spot faced surface (dimension B) must be squared (0,2 mm) to thread in port. ■ F diameter must be concentric (0,1 mm) to thread in port.

Sellando con O-ring y washer.
■ Si la superficie de la cara de la rosca está mecanizada, las dimensiones A y C no necesitan ser aplicadas ya que los requerimientos de la superficie (Ra min 3,2) puedan evitar el daño al O-ring durante la instalación. ■ C es la maxima profundidad recomendada para permitir un apropiado encaje del acople o la contratuerca. ■ La superficie expuesta (dimensión B) debe ser alineada (0,2 mm) con las roscas. ■ El diámetro F debe ser concéntrico (0,1 mm) con las roscas.

Abdichtungsart mit O-Ring und Unterlegscheibe.
■ Falls der Anschluss maschinell bearbeitet ist, müssen die Maße A und C nicht beachtet werden solange die Oberflächenbeschaffenheit (Ra min. 3,2) eine Beschädigung des O-Rings während der Montage verhindert ■ C ist die empfohlene Maximaltiefe der Anschlussfläche für einen sicheren Halt des Gabelschlüssels am Sechskant der Mutter oder Armatur bei der Montage ■ Die Gegenfläche (Maß B) muss zum Gewinde rechtwinklig sein (0,2 mm) ■ Durchmesser F muss zum Gewinde eine Konzentrizität von 0,1 mm haben.

Tenuta con O-ring.
■ Se la superficie della porta è lavorata, i valori delle dimensioni A e C saranno definiti in modo da garantire Ra min 3.2 così da evitare danneggiamenti dell'O-ring durante l'installazione. ■ C è la profondità massima raccomandata tale da permettere il corretto serraggio del raccordo o del dado locknut. ■ La superficie B deve essere perpendicolare (0.2 mm) alla filettatura della porta. ■ La dimensione F deve essere concentrica (0.1 mm) con la filettatura della porta.

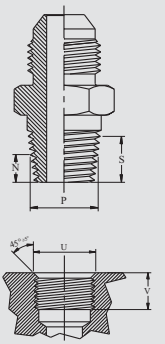
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ADAPTORS

MF4000™

PORT DIMENSIONS

BSPT Thread Port Dimensions (ISO 7-Thread)



THREAD DIMENSIONS	1/8"-28	1/4"-19	3/8"-19	1/2"-14	3/4"-14	1"-11	1.1/4"-11	1.1/2"-11
T Nom.	9,73	13,16	16,66	20,96	26,44	33,25	41,91	47,80
C Max.	1	1,5	2	2,5	2,5	2,5	2,5	2,5
D Min.	8	12	12	14	16	18	20	22
E Min.	3	18,5	18,5	22	24	27	29	31
A Min.	17	21	24,5	30	37	46	54	61
B +0.2/-0	9,8	13,2	16,7	21	27,1	33,3	42	47,9
H Ref.	6,5	9	9,5	11,5	13,5	15	16	16
O-ring	7,97x1,88	10,80x2,62	13,95x2,62	17,86x2,62	23,47x2,62	29,70x3,53	37,70x3,53	44x3,53
Assembly torque (Nm)	20	35	70	100	190	300	330	400

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Sealing achieved by machting female parallel thread (port) and male tapered (fitting).

El sellado se obtiene acoplando la rosca paralela hembra (puerto) con el macho cónico (adaptador).

Abdichtung durch gewaltsame Verschraubung eines parallelen Gewindes (Einschraubloch) und eines konischen Außengewindes.

La tenuta si ottiene accoppiando la filettatura parallela (porta) con il maschio conico (raccordo).

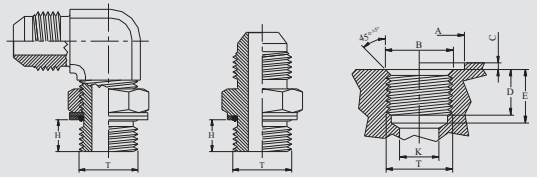
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Metric Thread Port Dimensions (retaining RING seat type) (ISO 6149)

PORT DIMENSIONS



THREAD DIMENSIONS	10X1	12X1.5	14X1.5	16X1.5	18X1.5	20X1.5	22X1.5	26X1.5	27X2	33X2	42X2	48X2
T Nom.	10	12	14	16	18	20	22	26	27	33	42	48
C Max.	1	1,5	1,5	1,5	2	2	2,5	2,5	2,5	2,5	2,5	2,5
D Min.	8	12	12	12	12	14	14	16	16	18	20	22
E Min.	13,5	18,5	18,5	18,5	18,5	20,5	20,5	22,5	24	26	28	30
A Min.	16	20	21,5	24	27	30	32	36	37	45	55	62
B	10	12	14	16	18	20	22	26	27	33	42	48
H Ref.	8	9	9	10,5	12	12	12.5	12.5	14.5	14.5	15	17.5
O-ring	8,1x1,6	9,3x2,2	11,3x2,2	13,3x2,2	15,3x2,2	17,3x2,2	19,3x2,2	23,6x2,9	23,6x2,9	29,6x2,9	38,6x2,9	44,6x2,9
Assembly torque (Nm)	20	35	45	55	70	80	100	170	170	310	330	410

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Sealing with O-ring and retaining washer.
■ If face of port is on machined surface. dimensions A and C need not apply as long as the surface requirements (Ra min 3,2) are able to avoid damage to the OR during installation. ■ C is maximum recommended spotface depth to permit sufficient wrench grip for proper tightening of the fitting or locknut. ■ Spot faced surface (dimension B) must be squared (0,2 mm) to thread in port. ■ F diameter must be concentric (0,1 mm) to thread in port.

Sellando con O-ring y washer.
■ Si la superficie de la cara del puerto está mecanizada, las dimensiones A y C no necesitan ser aplicadas ya que los requerimientos de la superficie (Ra min 3,2) puedan evitar el daño al O-ring durante la instalación. ■ C es la maxima profundidad recomendada para permitir un apropiado encaje del acople o la contratuerca. ■ La superficie expuesta (dimensión B) debe ser alineada (0,2 mm) a la cuerda en el puerto. ■ El diámetro F debe ser concéntrico (0,1 mm) a la cuerda en el Puerto.

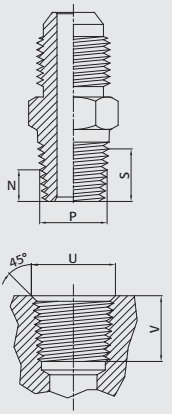
Abdichtungsart mit O-Ring und Unterlegscheibe.
■ Falls der Anschluss maschinell bearbeitet ist, müssen die Maße A und C nicht beachtet werden solange die Oberflächenbeschaffenheit (Ra min. 3,2) eine Beschädigung des O-Rings während der Montage verhindert ■ C ist die empfohlene Maximaltiefe der Anschlussfläche für einen sicheren Halt des Gabelschlüssels am Sechskant der Mutter oder Armatur bei der Montage ■ Die Gegenfläche (Maß B) muss zum Gewinde rechtwinklig sein (0,2 mm) ■ Durchmesser F muss zum Gewinde eine Konzentrizität von 0,1 mm haben.

Tenuta con O-ring.
■ Se la superficie della porta è lavorata, i valori delle dimensioni A e C saranno definiti in modo da garantire Ra min 3.2 così da evitare danneggiamenti dell'O-ring durante l'installazione. ■ C è la profondità massima raccomandata tale da permettere il corretto serraggio del raccordo o del dado locknut. ■ La superficie B deve essere perpendicolare (0.2 mm) alla filettatura della porta. ■ La dimensione F deve essere concentrica (0.1 mm) con la filettatura della porta.

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PORT DIMENSIONS

NPTF Thread Port Dimensions (SAE J476 THREAD)



THREAD DIMENSIONS	1/8"-27	1/4"-18	3/8"-18	1/2"-14	3/4"-14	1"-11.5	1.1/4"-11.5	1.1/2"-11.5
V Min.	7,9	11,4	11,7	15,4	15,9	19,0	19,5	19,5
U ref.	10,2	13,5	17	21,2	26,5	33,1	41,9	48
N	4,1	5,8	6,1	8,1	8,6	10,2	10,7	10,7
P	9,5	12,5	15,9	19,8	25,1	31,5	40,2	46,3
S - Working Thread	7,6	11,6	11,8	15,4	15,7	19,6	20,2	20,6

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Sealing achieved by matching female tapered thread and male tapered thread (deformation at the crest).

La estanqueidad se logra por el emparejamiento de los hilos en las roscas macho y hembra (deformación de las crestas).
No se aconseja una frecuente conexión y desconexión.

Die Dichtheit wird durch Kopplung des konischen Innengewindes mit dem konischen Außengewinde erzielt (Deformierung des Gewindes).

La tenuta si ottiene accoppiando la femmina conica e il maschio conico (distorsione del filetto).

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EASY FIT

DIRECT-TO-PORT CONCEPT

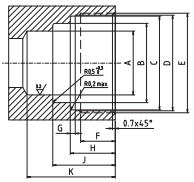
The male threadless termination can be connected directly to the port, by means of pre-installed cartridge, with a simple axial pushing action of the fitting into the port.

La espiga puede ser conectada directamente en la conexión, mediante la pre-instalación del cartucho, simplemente empujando de forma axial en el interior de la conexión.

Das gewindelose Steckende kann direkt am Port angeschlossen werden, mittels vorinstalliertem Steckmodul, das einfach in den Port gedrückt wird.

La terminazione senza filettature può essere connessa direttamente alla porta, se si utilizza una cartuccia pre-installata, grazie a una semplice spinta assiale del raccordo nella porta.





FEMALE PORT DESIGN

SIZE	DIMENSIONS mm					RECOMMENDED TORQUE
	A	B	C	D	E	
-04	10,03+0,08	12,75+0,1	16,55+0,07	17,0+0,1	M18x1	25-35 Nm
-06	13,03+0,08	16,9+0,2	20,55+0,07	21,0+0,1	M22x1	30-40 Nm
-08	16,03+0,08	19,9+0,2	23,55+0,07	24,0+0,1	M25x1	40-50 Nm
-12	23,03+0,08	27,9+0,2	31,05+0,07	31,5+0,1	M33x1,5	70-80 Nm

SIZE	DIMENSIONS mm					RECOMMENDED TORQUE
	F	G	H	J	K	
-04	8,5+1	1,1-0,1	10,65+0,1	14,15+0,2	19,65+0,15	25-35 Nm
-06	8,7+1	1,15-0,1	11,1+0,1	15,5+0,2	21,95+0,15	30-40 Nm
-08	8,7+1	1,25-0,1	11,3+0,1	15,7+0,2	22,15+0,15	40-50 Nm
-12	11,5+1	1,7-0,1	16,5+0,1	21,4+0,2	31,35+0,15	70-80 Nm

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EASY FIT

ASSEMBLING INSTRUCTIONS

ASSEMBLING PROCEDURE
PROCEDIMIENTO DE ENSAMBLAJE
ZUSAMMENBAU
PROCEDURA DI ASSEMBLAGGIO



1 **Fit the safety clip into the dedicated groove of the male fitting.**

Introduzca el clip en la espiga correcta.

Setzen Sie die Sicherheitsklammer in die dafür vorgesehene Nut am Stecker ein.

Sistemare la clip di sicurezza nella sede indicata del raccordo maschio.

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2 **Use the flat headed screwdriver, or similar tool, to remove the cartridge protective cap.**

Use el destornillador o herramienta similar para quitar el tapón del cartucho.

Entfernen Sie den Schutzdeckel vom Steckmodul mit einem flachen Schraubenzieher oder ähnlichem.

Utilizzare la testa piatta del cacciavite, o utensile simile, per rimuovere la cartuccia dal tappo protettivo.



3 **Connect the fitting pushing into the dedicated cartridge.**

Conecte la espiga empujando en el interior del correspondiente cartucho.

Stecken Sie den Anschluss in das entsprechende Steckmodul.

Congiungere il raccordo spingendo nella cartuccia apposita.

The fitting is correctly locked and connected, when the safety clip gets in touch with the cartridge.

El racor está correctamente bloqueado y conectado, cuando el clip de seguridad toca con el cartucho.

Der Anschluss sitzt richtig, wenn die Sicherheitsklammer das Steckmodul berührt.

Il raccordo è correttamente chiuso e connesso, quando la clip di protezione entra in contatto con la cartuccia.

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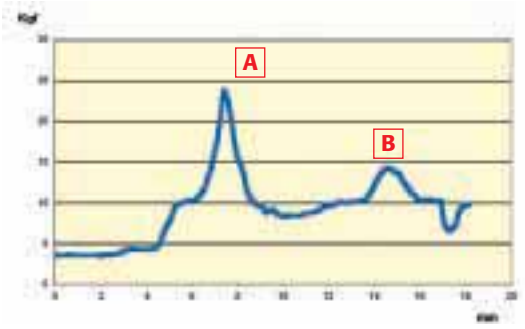
The maximum axial effort is made when the stem pass the internal retaining collars opening. The axial effort necessary to insert the fitting is not very high but not negligible. It presents a very short peak generally around the 20 kgf (ref. medium size -08). In addition, there is a second lower peak during the plastic retaining ring insertion inside the cartridge.

El esfuerzo axial máximo se hace cuando se desliza internamente la anilla de desmontaje. La fuerza axial necesaria para insertar el racor no es muy alta pero tampoco despreciable. Presenta un pico de 20 Kgf aproximadamente (ref. tamaño -08). Además, hay un segundo pico durante el la inserción del anillo plástico en el cartucho.

Die maximale axiale Kraft erfolgt, wenn der Stiel durch die interne Rückhalteöffnung geschoben wird. Die axiale Kraft zum Eintauchen der Armatur ist nicht sehr hoch aber dennoch nicht zu unterschätzen. Die Kraft hat eine kurze Spitze bei etwa 20 kgf (Betr. mittlere Größe -08). Hinzu kommt ein zweiter, geringerer Anstrengungspunkt, wenn der Kunststoffrückhaltering in das Steckmodul eingeschoben wird.

Lo sforzo assiale massimo si verifica quando la terminazione maschio attraversa l'apertura dei collarini di ritenzione. Lo sforzo assiale necessario per inserire il raccordo non è molto elevato ma nemmeno trascurabile. Presenta un picco molto breve, in genere intorno ai 20kgf (riferito a una dimensione media di -08). inoltre, è presente un secondo picco minore quando l'anello in plastica di trattenimento è inserito nella cartuccia.

ASSEMBLING PROCESS LOADS



A

Internal retaining collars opening during the stem insertion

Las grapas internas se abren durante la inserción de la espiga

Die interne Rückhalteöffnung muss sich beim Eintauchen des Stiels öffnen

Apertura del collarino interno di trattenimento durante l'inserzione della terminazione maschio

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B

Plastic retaining ring insertion into cartdrige

Retención del anillo de plástico dentro del cartucho

Beim Eintauchen des Plastikrings in das Steckmodul

Inserimento dell'anello in plastica di trattenimento nella cartuccia

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EASY FIT

DISASSEMBLING INSTRUCTIONS

DISASSEMBLING PROCEDURE
PROCEDIMIENTO DE DESMONTAJE
ABBAU
PROCEDURA DI SMONTAGGIO

Before disconnection, ensure the system is not under pressure.
Antes de la desconexión, asegurese que el sistema no está bajo presión.
Bevor Sie mit dem Abbau beginnen stellen Sie sicher, dass das System nicht unter Druck steht.
Prima della sconnessione, assicurarsi che il sistema non sia sotto pressione.







1 **Use a flat headed screwdriver or similar tool, to remove the safety-clip.**

Use el destornillador o herramienta similar para quitar el clip de seguridad.

Entfernen Sie die Sicherheitsklammer mit einem flachen Schraubenzieher oder ähnlichem.

Utilizzare la testa piatta del cacciavite, o utensile simile, per rimuovere clip di sicurezza.

2 **Push in the fitting until the collar gets in touch with the cartridge and then pull out to complete disconnection.**

empuje el racor hasta que el cuello de la espiga toque con el cartucho y entonces estire para la completa desconexión.

Drücken Sie den Anschluss, bis der Hals das Steckmodul berührt und ziehen Sie ihn dann komplett heraus.

Spingere il raccordo finché il collarino entra in contatto con la cartuccia, quindi tirare fuori il raccordo fino a disconnessione completa.

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EASY FIT

DISASSEMBLING INSTRUCTIONS

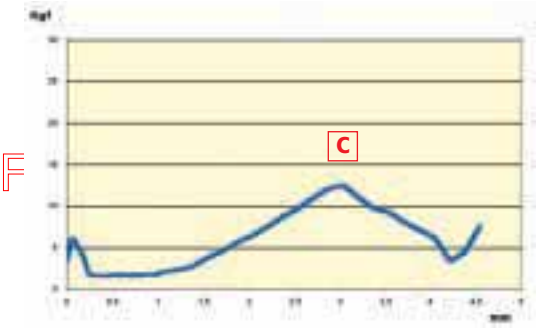
For the disassembly operation, after the initial push, a pulling effort is necessary to open the collars on the retaining ring (max. around 10 kgf).
See graphics of the axial loads (kgf) measured for the two operations, which are referred to axial advancement in mm.

Para la operación de desmontaje, después del empuje inicial, es necesario un esfuerzo para abrir las grapas de la cavidad (max. 10 Kgf aproximadamente).

Beim Auseinanderbauen ist nach dem ersten Drücken eine gewisse Kraft nötig, um die Hälse des Rückhalterings zu öffnen (max. etwa 10 kgf).
Siehe Grafiken der axialen Lasten (kgf), die für die beiden Arbeitsgänge gemessen wurden und die sich auf einen axialen Vorschub in mm beziehen.

Per le operazione di smontaggio, dopo la spinta iniziale, è necessario uno sforzo di trazione per aprire il collare sull'anello di trattenimento (max 10kgf circa). Vedere il grafico dei carichi assiali (kgf) misurati per le due applicazioni, riferite all'avanzamento assiale in mm.

DISASSEMBLING PROCESS LOADS



C

Pulling insert in the cartridge to opening the collars on the retaining ring

Empuje la espiga en el cartucho para abrir las grapas en la anilla de desmontaje

Beim Herausziehen des Einsatzes aus dem Steckmodul zum Öffnen des Rückhalterings

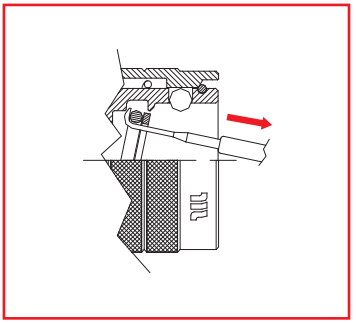
Tirando il raccordo durante il passaggio nei collarini di ritenzione

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O-RING AND BACK-UP RING SEAL REPLACEMENT ON FEMALE COUPLINGS

SOSTITUCION DE LA JUNTA TÓRICA Y ARODE APOYO DEL ACOPLAMIENTO
AUSTAUSCH VON O-RING UND SICHERUNGSRING BEI KUPPLUNGSMUFFE
SOSTITUZIONE DI O-RING E BACK-UP RING SU UN INNESTO FEMMINA



1 Remove damaged O-Ring and back-up ring

Desmontar la junta dañada y el aro de apoyo

Beschädigten O-Ring und Sicherungsring entfernen

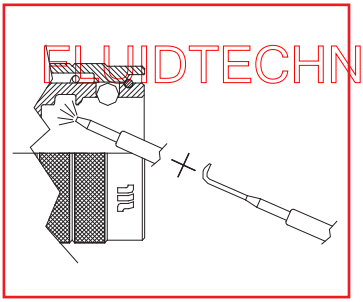
Rimuovere l'O-Ring danneggiato e il back-up ring

Not use sharpened tools - Take care not to damage the components

No usar utensilios afilados - Tenga cuidado en no dañar los componentes

Keine scharfen Werkzeuge benutzen. - Achten Sie darauf, die Komponenten nicht zu Beschädigten

Non utilizzare utensili affilati - Attenzione a non danneggiare i componenti



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2 Clean the seal area

Limpiar el área de la junta

Dichtungsbereich reinigen

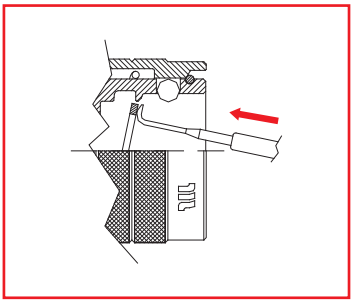
Pulire l'area di posizionamento della guarnizione

Remove all residual parts of damaged O-Ring and back-up ring

Quitar todos los residuos de la junta y aro de apoyo dañados

Entfernen Sie alle verbliebenen Teile des Beschädigten O-Rings und Sicherungsrings

Rimuovere tutte le parti danneggiate dell'O-Ring e del back-up ring



3 Insert new back-up ring

Montar el nuevo aro de apoyo

Neuen Sicherungsrings einfügen

Posizionare il nuovo antiestrusione

Take care to not deform or scratch back-up ring - Check the correct position on the groove

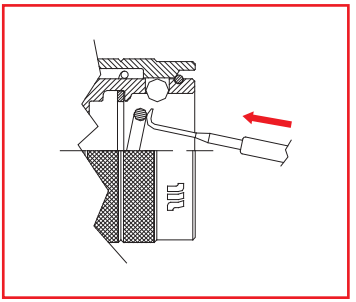
Tenga cuidado en no deformar o dañar el aro de apoyo - Compruebe la posicion correcta en la ranura

Achten Sie darauf, den Sicherungsring nicht zu deformieren oder anzuritzen - Prüfen Sie den korrekten Sitz in der Nut

Prestare attenzione a non deformare con graffi l'antiestrusione. Controllare la corretta posizione nella gola

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4 Insert new O-Ring

Montar la nueva junta tórica

Neuen O-Ring einsetzen

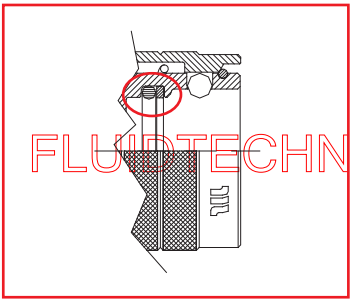
Posizionare il nuovo O-Ring

Lubricate O-Ring before insert - Take care to not scratch O-Ring - Check the correct position on the groove

Lubricar la junta antes de montarla - Tenga cuidado en no rascar la junta tórica - Compruebe la posición correcta en la ranura

O-Ring vor dem Einfügen fetten - Achten Sie darauf, den O-Ring nicht anzuritzen - Prüfen Sie den korrekten Sitz in der Nut

Lubrificare l'O-Ring prima di inserirlo - Attenzione a non graffiare l'O-Ring - Controllare la corretta posizione nella sede



5 Replacement corrected and completed

Sostitución correcta y completa

Austausch auf Korrektheit geprüft un abgeschlossen

Sostituzione corretta e completata

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Lubricate seal system

Lubricar el sistema de estanqueidad

Dichtungssystem fetten

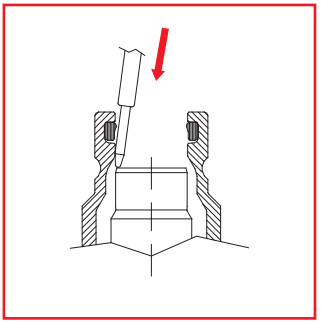
Lubrificare il sistema di tenuta

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POLYURETHANE SEAL REPLACEMENT ON MALE FLAT-FACE

SUSTITUCIÓN DE LA JUNTA DE POLIURETANO DE LA ESPIGA
AUSTAUSCH EINER POLYURETHANDICHTUNG BEI FLACHDICHTENDEN KUPPLUNGSSTECKERN
SOSTITUIZIONE DELLA GUARNIZIONE IN POLIUTERANO SU UN INNESTO MASCHIO FACCIA PIANA



1 **Pull back the valve and keep back thanks to tool**

Empuje la válvula y manténgala

Ventil mit Hilfe eines Werkzeugs öffnen und mit dem Werkzeug offen halten

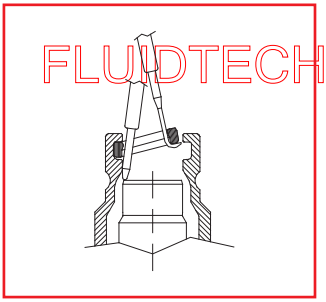
Arretrare la valvola e tenerla arretrata con un utensile

Not use sharpened tools - Take care not to damage the components

No usar utensilias afilados - Atención en no dañar los componentes

Keine scharfen Werkzeuge bernutzen - Achten Sie darauf, die Komponenten nicht zu Beschädigte

Non utilizzare utensili affilati - Attenzione a non danneggiare i componenti



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2 **Remove damaged seal**

Desmontar la junta dañada

Beschädigte Dichtung entfernen

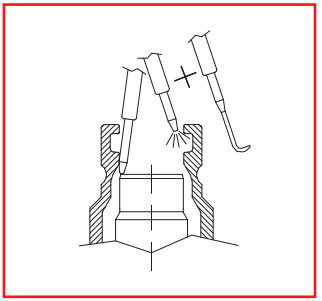
Rimuovere la guarnizione danneggiata

Take care not to damage the components

Tenga cuidado en no dañar los componentes

Achten Sie darauf, die Komponenten nicht zu Beschädigte

Attenzione a non danneggiare i componenti



3 **Clean the seal area**

Limpiar el área de la junta

Beschädigte Dichtung entfernen

Pulire l'area di posizionamento della guarnizione

Remove all residual parts of poliurethane seal

Quitar todos los residuos de la junta de poliuretano dañada

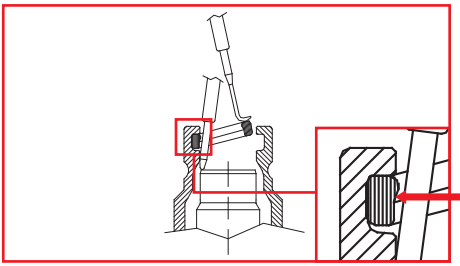
Alle Beschädigten Dichtungsteile entfernen

Rimuovere tutte le parti danneggiate della guarnizione

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4 **Insert new seal**

Monte la nueva junta

Neue Dichtung einsetzen

Posizionare la nuova guarnizione

Check the correct direction of seal

Compruebe la correcta dirección de la junta

Korrekte Ausrichtung der Dichtung prüfen

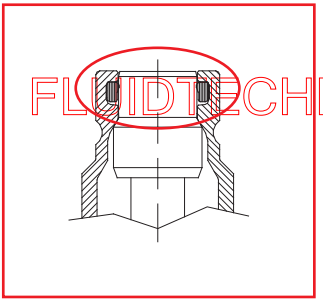
Controllare la corretta direzione della guarnizione

Lubricate seal before insert - Take care to not scratch seal - Ensure that seal is well arranged in its groove

Lubricar la junta antes de montarla tenga cuidado en no rascar la junta - Compruebe que la junta está correctaménte en la ranura

Dichtung vor dem Einsetzen fetten - Achten Sie darauf, die Dichtung nicht einzuritzen - Stellen Sie sicher, das die Dichtung richtig in der Nut Sitzt

Lubrificare la guarnizione prima di inserirla - Fare attenzione a non graffiare la guarnizione - Assicurarsi che la guarnizione sia correttamente posizionata



5 **Release the valve. Replacement corrected and completed**

Suelte la válvula, sostitución correcta y completa

Ventil freigeben. Korrekter Austausch beendet

Rilasciare la valvola. Sostituzione corretta e completata

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Lubricate seal system

Lubricar el sistema de estanqueidad

Dichtungssystem fetten

Lubrificare il sistema di tenuta

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ASSEMBLING INSTRUCTIONS

REFRIMASTER AND REFRIMASTER PLUS PROCEDURE

REFRIMASTER AND REFRIMASTER PLUS WITH CLAMP

REFRIMASTER Y REFRIMASTER PLUS CON ABRAZADERA
REFRIMASTER UND REFRIMASTER PLUS MIT KLEMME
REFRIMASTER E REFRIMASTER PLUS CON FASCETTA

The fitting operations are extremely simple, and consist of the following procedures:

Las operaciones de acople son extremadamente simples, y consisten en los siguientes procedimientos:

Die Herstellung eine Leitung ist extrem einfach und besteht aus folgenden Arbeitsschritten:

Il montaggio è estremamente semplice e consiste nelle seguenti operazioni:



1 Check the dimensions of the components.

Verifique las dimensiones de los componentes.

Überprüfen Sie die Abmessungen der Komponenten.

Verificare le dimensioni dei componenti.



2 Cut the end of the hose in a perpendicular direction, using the manual cutter.

Corte el extremo de la manguera en una dirección perpendicular, usando el cortador manual.

Schneiden Sie den Schlauch rechtwinklig zur Längsachse.

Tagliare l'estremità del tubo perpendicolarmente usando la taglierina manuale.

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3 **Verify the end of the hose to be cut in a perpendicular direction.**

Verifique que el extremo de la manguera esté cortado en dirección perpendicular (a escuadra).

Prüfen Sie nochmals den Schnitt auf Rechtwinkligkeit.

Verificare che l'estremità del tubo sia tagliata perpendicolarmente all'asse del tubo.



4 **Place the double clamp on the flexible hose in such a way that the tooth of bar A comes contact with the end of the hose that has been cut.**

Coloque la abrazadera doble en la manguera flexible de tal manera que el diente de la barra A entre en contacto con el extremo de la manguera que ha sido cortado.

Platzieren Sie die Doppelklemme so auf dem Schlauch, dass das abgewinkelte Stück des Verbindungssteges A an der Schnittfläche des Schlauches anliegt.

Introdurre la fascetta sul tubo flessibile in modo che il dente della barretta A vada in appoggio sull'estremità del tubo tagliato.

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5 **Grease the end of the fitting joint with the same oil used in the air conditioning system.**

Lubrique el extremo del racor con el mismo aceite usado en el sistema de aire acondicionado.

Schmieren Sie das Ende der Armatur mit dem Selben Schmiermittel, das auch in der Klimaanlage verwendet wird.

Lubrificare l'estremità d'innesto del raccordo con il medesimo olio utilizzato nell'impianto di condizionamento.



6 **Find the correct orientation and insert completely the fitting into the hose.**

Encuentre la orientación correcta e inserte completamente el acople dentro de la manguera.

Achten Sie auf die richtige Winkelstellung und führen Sie die Armatur bis zum Anschlag in den Schlauch ein.

Trovare l'orientamento corretto e inserire completamente il raccordo nel tubo.

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ASSEMBLING INSTRUCTIONS

REFRIMASTER AND REFRIMASTER PLUS PROCEDURE



7 **A** = round nose
nariz redonda
abgerundete Seite
becco spesso

B = thin nose
nariz delgada
schmale Seite
becco sottile

8 9 10 **To place the fitting, position the round nose of the pliers (A) at the hook shaped end of the clamp and the thin nose (B) at the end with the hooked teeth. Tighten the double clamp until the click using the special "CLICK" open-close pliers. To disassemble, just reverse the position of the ends of the pliers on the clamp.**

Para colocar el racor en su lugar, coloque la nariz redonda de los alicates (A) en la parte con gancho de la abrazadera y la parte delgada de la nariz (B) en el final con los dientes enganchados. Asegure la abrazadera doble hasta que cierre usando el "CLICK" especial de los alicates para abrir y cerrar. Para desensamblarlo, reverse la posición de las puntas de los alicates en la abrazadera.

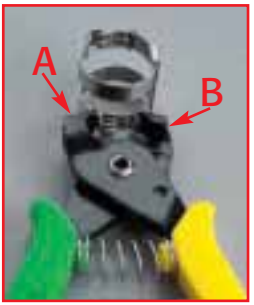
Um die Armatur festzuklemmen, setzen Sie die abgerundete Seite der Zange (A) am hakenförmigen Ende der Klemme an und die schmale Seite der Zange (B) an dem Ende mit den Widerhaken. Schließen Sie die Doppelklemme bis diese mit einem hörbaren Klicken einrastet mit der Spezial „CLIC" Zange. Um die Klemme zu öffnen, einfach die Position der Zange auf der Klemme umkehren.

Per il montaggio posizionare il becco arrotondato della pinza (A) all'estremità della fascetta con forma a gancio e il becco sottile (B) all'estremità con il dente d'aggancio. Serrare la fascetta fino allo scatto usando l'apposita pinza "CLIC" apri chiudi.
Per lo smontaggio è sufficiente invertire la posizione dei becchi della pinza sulla fascetta.

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8 **Closing.**
Warning:
to close double clamp DN22 it is necessary to approach by hand the hook shaped of the clamp and the hooked teeth of the clamp.

Cierres.
Cerrar la abrazadera doble DN22, es necesario acercar el gancho de la abrazadera con la mano al extremo del tubo.

Schließen.
Zum Schließen der Doppelklammer DN22 müssen der Haken und der Nippel der Klammer mit der Hand angefasst werden.

Chiusura.
Attenzione:
per la chiusura della fascetta DN22 accostare manualmente l'estremità della fascetta con forma a gancio a quella con forma a dente

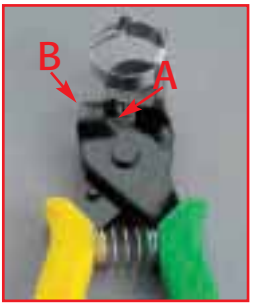


9 **Tighting the double clamp until click to close. Reverse the position of the pliers to open.**

Asegure la abrazadera doble hasta que cierre usando el "CLICK". Para desensamblarlo, reverse la posición de las puntas de los alicantes en la abrazadera.

Ziehen Sie die Doppelschelle fest, bis sie einrastet. Um sie wieder zu öffnen, einfach die Greifer verdrehen.

Stringere la doppia fascetta fino allo scatto di chiusura. Per aprire voltare la posizione delle pinze.



10 **Opening**
Apertura
Öffnen
Apertura

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ASSEMBLING INSTRUCTIONS

REFRIMASTER AND REFRIMASTER PLUS PROCEDURE

WARNING: Do not reuse the clamp / PRECAUCION: No reutilice la abrazadera
HINWEIS: Verwenden Sie die Schelle nicht wieder / AVVERTENZE: Non riutillizare la fascetta



11 Verify the parallelism of the two clamps.
Verifique el paralelismo de las dos abrazaderas.
Stellen Sie sicher dass die Klemmen parallel sitzen.
Verificare il parallelismo delle due fascette.



12 Pay attention in tightening clamp in the right way.
Preste atención a asegurar la abrazadera de la manera correcta.
Schließen Sie die Klemme korrekt.
Attenzione a chiudere correttamente la fascetta.

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13 14 15 16

WARNING: Position correctly the clamp / PRECAUCION: Coloque la abrazadera correctamente
WARNUNG: Positionieren Sie die Klemme korrekt. / ATTENZIONE: Posizionare correttamente la fascetta



13 Right
Correcto
Richtig
Corretto.



14 Wrong
Incorrecto
Falsch
Errato.

Solution with brazed insert / Solución con inserto abrazado
Anwendung mit gelöteter Armatur / Soluzione con inserto brazato.

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15 Right
Correcto
Richtig
Corretto.



16 Wrong
Incorrecto
Falsch
Errato.

Solution with insert obtained by deformation / Solución con inserto obtenido por deformación
Anwendung mit Armatur mit umgeformtem Rohrstutzen / Soluzione con inserto ottenuto da deformazione

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ASSEMBLING INSTRUCTIONS

REFRIMASTER AND REFRIMASTER PLUS PROCEDURE

REFRIMASTER AND REFRIMASTER PLUS MOUNTING KIT

REFRIMASTER Y REFRIMASTER PLUS KIT DE MONTAJE/ENSAMBLE
REFRIMASTER UND REFRIMASTER PLUS MONTAGE KIT
REFRIMASTER E REFRIMASTER PLUS KIT DI MONTAGGIO



1 Mounting kit.
Kit de montaje.
Montage Kit.
Kit di montaggio.



2 Manual cutter.
Cortador manual.
Schlauchschneidezange.
Taglierina manuale.

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3 "CLIC" open-close pliers.
Alicates de "CLIC" abrir-cerrar.
„CLIC" Zange.
Pinza CLIC apri-chiudi.

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ASSEMBLING INSTRUCTIONS

REFRIMASTER AND REFRIMASTER PLUS PROCEDURE

GB

Manuli Rubber Industries is able to supply:

- **a practical mounting kit containing all tools necessary for the correct assembly of the Frigoclic® coupling**
- **the separate supply of hose in rolls, relevant fitting and complete kits according to customer specifications**
- **the possibility of servicing customers in all the most important countries (on the basis of minimum lot purchase order).**

ES

Manuli Rubber Industries tiene el agrado de suministrar:

- un práctico equipo de ensamble que contiene todas las herramientas necesarias para el ensamble correcto de los racores Frigoclic®
- el suministro separado de manguera en rollos, acoples relacionados y kits completos de acuerdo con las especificaciones del cliente
- la posibilidad de servicio al cliente en todos los países más importantes (sobre la base de la orden de compra mínima).

D

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Manuli Rubber Industries bietet folgendes:

- Das praktische Montage Kit, das alles beinhaltet was zur Verarbeitung der Frigoclic® Armaturen notwendig ist
- Lieferung von Schlauchmeterware und Armaturen sowie komplette Leitungen nach Kundenspezifikationen
- Direkter Service in den wichtigsten Ländern (Mindestbestellmenge).

IT

Manuli Rubber Industries è in grado di proporre:

- il pratico kit di assemblaggio contenente tutti gli utensili necessari al corretto montaggio del raccordo Frigoclic®
- la fornitura separata del tubo flessibile in rotoli, dei relativi raccordi e/o kit secondo le specifiche del Cliente
- la possibilità di servire i Clienti in tutti i principali Paesi (sulla base di lotti minimi d'acquisto).

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ASSEMBLING INSTRUCTIONS

REFRIMASTER AND REFRIMASTER PLUS PROCEDURE

REFRIMASTER WITH FERRULE

REFRIMASTER CON CASQUILLO
REFRIMASTER MIT FASSUNG
REFRIMASTER CON BOCCOLA



1 **Check the dimensions of the components.**

Verifique las dimensiones de los componentes.

Überprüfen Sie die Abmessungen der Komponenten.

Verificare le dimensioni dei componenti.



2 **Cut the end of the hose in a perpendicular direction, using the manual cutter.**

Corte la punta de la manguera en dirección perpendicular, usando el cortador manual.

Schneiden Sie den Schlauch rechtwinklig zur Längsachse.

Tagliare l'estremità del tubo perpendicolarmente usando la taglierina manuale.

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3 **Verify the end of the hose to be cut in a perpendicular direction.**

Verifique que la punta de la manguera esté cortada en dirección perpendicular (a escuadra).

Prüfen Sie nochmals den Schnitt auf Rechtwinkligkeit.

Verificare che l'estremità del tubo sia tagliata perpendicolarmente all'asse del tubo.



4 **Place the ferrule on the flexible hose so that the ferrule tooth touches the end of the cut hose.**

Coloque el casquillo en la manguera flexible de tal manera que el diente del casquillo haga contacto con la punta de la manguera que ha sido cortada.

Platzieren Sie die Fassung so auf dem Schlauch, dass der Steg in der Fassung an der Schnittfläche des Schlauches anliegt.

Introdurre la boccola sul tubo flessibile in modo che il dente della boccola vada in appoggio sull'estremità del tubo tagliato.

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5 **Grease the end of the fitting joint with the same oil used in the air conditioning system.**

Lubrique la punta del racor con el mismo aceite usado en el sistema de aire acondicionado.

Schmieren Sie das Ende der Armatur mit dem Selben Schmiermittel, das auch in der Klimaanlage verwendet wird.

Lubrificare l'estremità del raccordo con il medesimo olio utilizzato nell'impianto di condizionamento.



6 **Find the correct orientation and insert completely the fitting into the hose.**

Encuentre la orientación correcta e inserte completamente el acople dentro de la manguera.

Achten Sie auf die richtige Winkelstellung und führen Sie die Armatur bis zum Anschlag in den Schlauch ein.

Trovare l'orientamento corretto e inserire completamente il raccordo nel tubo.

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7 **Set up the crimping machine selecting the die set that is closed to the specified dimension. Crimp to the specified diameter (table a). Ensure the dies fully cover the ferrule length.**

Aliste la máquina de prensar seleccionando el conjunto de mordazas que más se acerque a la dimensión especificada. Prense al diámetro específico (tabla a). Asegúrese que los dados cubran completamente la longitud del casquillo.

Verpressen Sie gemäß Pressmaß nach Tabelle a. Stellen Sie sicher dass die Pressbacken über die volle Länge der Fassung aufliegen.

Eseguire il set-up della pressa selezionando il set di punzoni che più si avvicina alle dimensioni specificate. Pressare al diametro specificato (tabella a). Assicurarsi che i punzoni coprano completamente la lunghezza della boccola.

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ASSEMBLING INSTRUCTIONS

REFRIMASTER AND REFRIMASTER PLUS PROCEDURE



before / antes / vorher / prima



after / después / nachher / dopo

Solution with insert obtained by deformation
Solución con inserto obtenido por deformación
Anwendung mit Armatur mit umgeformtem Rohrstutzen
Soluzione con inserto ottenuto da deformazione



before / antes / vorher / prima



after / después / nachher / dopo

Solution with brazed insert
Solución con inserto ajustado
Anwendung mit gelöteter Armatur
Soluzione con inserto brazato

8 **Pay attention in coupling insert and ferrule.**

Preste atención al acoplamiento del inserto y el casquillo.

Achten Sie auf korrekte Position von Armatur und Fassung.

Attenzione al corretto accoppiamento raccordo - boccola.



9 **Inspect the crimping dimension using a calibrated vernier. Check the diameter at the centre of the ferrule following the values in table a.**

Verifique la dimensión de prensado usando un vernier calibrado. Controle el diámetro en el centro del casquillo siguiendo los valores dados en la tabla a.

Überprüfen Sie das Pressmaß mittig an der Fassung gemäß Tabelle a.

Verificare il diametro di pressatura utilizzando un calibro tarato. Controllare il diametro al centro della boccola seguendo i valori riportati in tabella a.

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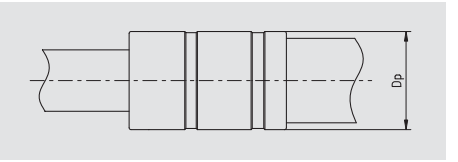


Table a / Tabla a / Tabelle a / Tabella a

REFRIMASTER HOSE SIZE				Dp (± 0,1 mm)
DN	Dash	Inch	Ferrule Type	mm
8	- 06	5/16"	C00700-06	16,9
10	- 08	13/32"	C00700-08	19,9
13	- 10	1/2"	C00700-10	21,8
16	- 12	5/8"	C00700-12	26,0

REFRIMASTER PLUS HOSE SIZE				Dp (± 0,1 mm)
DN	Dash	Inch	Ferrule Type	mm
13	- 10	1/2"	C00750-10	23,2
16	- 12	5/8"	C00750-12	27,1
22	- 16	7/8"	C00750-16	35,2

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REFRISTAR WITH REUSABLE FITTINGS

REFRISTAR CON RACORES REUSABLES
REFRISTAR MIT WIEDERVERWENDBAREN ARMATUREN (SCHRAUBARMATUREN)
REFRISTAR CON RACCORDI RECUPERABILI



1 Check the dimensions of the components.
Verifique las dimensiones de los componentes.
Überprüfen Sie die Abmessungen der Komponenten.
Verificare le dimensioni dei componenti.

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2 **Wrong cut** / Corte incorrecto / Falscher Schnitt / Taglio scorretto.



3 **Right cut** / Corte correcto / Richtiger Schnitt / Taglio corretto.



4 **Cut the hose by using a proper sharpened disc (see fig. 4), do not use an abrasive disc.**
The hose must be square and clean cut.
Avoid cutting the hose not perpendicularly or cutting the hose causing damages on its wire braid (see fig. 2, 3) for a proper cutting hose operation. Clean the hose carefully from any cutting residue.

Corte la manguera usando un disco afilado apropiado (ver fig. 4), **no use un disco abrasivo**.
La manguera debe estar cortada a escuadra y limpia. Evite cortar la manguera de manera no perpendicular o cortar la manguera causando daños en sus alambres trenzados (ver fig. 2, 3) para un corte apropiado de la manguera.

Tagliare il tubo utilizzando un'apposito disco ben affilato (vedi fig. 4), **non utilizzare un disco abrasivo**. Tagliare il tubo flessibile perpendicolarmente all'asse. Evitare tagli non perpendicolari e/o tagli che tendano a danneggiare la treccia metallica del tubo stesso (vedi fig. 2 e 3).
Pulire accuratamente il tubo flessibile da eventuali residui di taglio.

Schneiden Sie den Schlauch mit einem scharfen Kreismesser (siehe Abb.4), **benutzen Sie keine abrasive Scheibe**. Achten Sie auf einen geraden und sauberen Schnitt. Vermeiden Sie nicht rechtwinklige und unsaubere Schnitte (siehe Abb.2, 3). Reinigen Sie den Schlauch gründlich von Schnittrückständen.Limpie la manguera cuidadosamente de cualquier residuo del corte.

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ASSEMBLING INSTRUCTIONS

REFRISTAR PROCEDURE



5 **Secure in position the socket i.e. by using a benchvise. Screw the hose counterclockwise into the socket until it reaches the bottom. Unscrew 1/4 turn to prevent damage in screwing.**

Asegure en posición del casquillo, por ejemplo usando una prensa. Atornille la manguera en dirección de las agujas del reloj dentro del casquillo hasta que llegue al fondo. Destornille 1/4 de vuelta para prevenir daño.

Spannen Sie die Schraubfassung in einen Schraubstock ein. Drehen Sie den Schlauch entgegen dem Uhrzeigersinn bis zum Anschlag ein. Drehen Sie 1/4 Umdrehung zurück um Beschädigungen beim Einschrauben zu verhindern.

Fissare la boccola utilizzando per esempio una morsa. Avvitare il tubo in senso antiorario fino a toccare il fondo della boccola. Svitare il tubo di 1/4 di giro al fine di non danneggiare il tubo in fase di avvitatura.



6 **Mark the socket and the hose using an indelible felt tip pen, to verify any absence of hose rotation inside the socket during the fittings crewing.**

Marque el casquillo y la manguera usando un lapicero de felpa con tinta indeleble, para verificar que la manguera no rote dentro del casquillo durante el proceso de inserción del racor.

Markieren Sie Schraubfassung und Schlauch um sicher zu stellen dass der Schlauch sich auf keinen Fall in der Fassung dreht, während die Armatur eingeschraubt wird.

Marcare con un pennarello indelebile la boccola ed il tubo al fine di verificare che il tubo non ruoti all'interno della boccola durante il montaggio del raccordo.

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7 **Position the hose complete with socket i.e. by using a bench vise. Grease with a lot of oil the threading and the taper of the fitting as well as the inside of hose.**
WARNING: Use the same lubricant used in the A/C system.

Coloque la manguera completa con el casquillo por ejemplo usando una prensa. Lubrique con una generosa cantidad de aceite la superficie del cono y del racor así como el interior de la manguera.
PRECAUCION: Utilice el mismo lubricante usado en el sistema de aire acondicionado.

Spannen Sie Schlauch mit Schraubfassung im Schraubstock ein. Schmieren Sie die Schlauchinnenseite, den Konus der Armatur sowie das Gewinde großzügig.
WARNUNG: Benutzen Sie dasselbe Schmiermittel das in der Klimaanlage eingesetzt wird.

Fissare il tubo completo di boccola già montata utilizzando per esempio una morsa.
Lubrificare abbondantemente tutta la superficie della filettatura e del cono di invito del raccordo, e la superficie interna del tubo flessibile. **ATTENZIONE: Utilizzare il medesimo olio usato nell'impianto.**

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8 **Insert the fitting into the hose. Press slightly and screw by hand turning clockwise the first threads. Then by using an appropriate spanner or a screw-spanner on the hexagon, screw the fitting into the socket with a continuous and constant rotation motion and verify any absence of hose rotation inside the socket during the fitting screwing. Complete the screwing until the fitting reaches the bottom against the socket. Never overtighten. Assembling is now finished.**

Inserte el racor dentro de la manguera. Presione ligeramente y atornille con la mano moviendo en dirección a las agujas del reloj los primeros filamentos. Luego usando una llave de tuercas apropiada sobre el hexágono, atornille el racor dentro del casquillo con un movimiento de rotación continuo y constante y verifique que la manguera no haya rotado dentro del socket durante el proceso de inserción. Complete el ajuste hasta que el racor llegue al fondo contra el casquillo. Nunca lo apriete demasiado. El ensamble está ahora terminado.

Führen Sie die Armatur in den Schlauch ein und drehen Sie unter leichtem Druck die ersten Gewindegänge von Hand ein. Benutzen Sie nun einen passenden Schraubenschlüssel und führen Sie die Montage möglichst gleichmäßig und ohne Unterbrechungen bis zum Anschlag fort. Achten Sie dabei unbedingt darauf, dass sich der Schlauch nicht in der Fassung mitdreht. Gewinde nicht überdrehen. Die Montage ist damit abgeschlossen.

Inserire il raccordo nel tubo. Avvitare a mano in senso orario i primi filetti del raccordo, esercitando una certa pressione con l'ausilio di una chiave esagonale. Avvitare e procedere con movimento rotatorio costante e continuo e verificare che il tubo non ruoti all'interno della boccola durante il montaggio del raccordo. Avvitare completamente il raccordo fino ad ottenere un leggero contatto tra la boccola ed il raccordo stesso. Non forzare mai il serraggio. L'assemblaggio risulta così effettuato.



9 **You can leave a margin of max 3 mm between the hexagon of the fitting and the socket. Verify allignment.**

Es aceptable dejar un margen de máximo 3 mm entre el hexágono del racor y el casquillo. Verifique la alineación.

Um den Winkel der Armatur korrekt einzustellen ist es zulässig bis zu 3mm Luft zwischen der Schraubfassung und dem Sechskant auf der Armatur zu lassen.

È accettabile una distanza massima di 3 mm fra la chiave del raccordo e la boccola. Verificare allineamento.

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ASSEMBLING INSTRUCTIONS

REFRISTAR PROCEDURE

REFRISTAR WITH CRIMPED FITTINGS

REFRISTAR CON CASQUILLO PRENSADO
REFRISTAR MIT PRESSARMATUREN
REFRISTAR CON BOCCOLA A CRIMPARE



1 **Check the dimensions of the components.**
Verifique las dimensiones de los componentes.
Überprüfen Sie die Abmessungen der Komponenten.
Verificare le dimensioni dei componenti.

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2 **Wrong cut** / Corte incorrecto / Falscher Schnitt / Taglio scorretto.



3 **Right cut** / Corte correcto / Richtiger Schnitt / Taglio corretto.



4 **Cut the hose by using a proper sharpened disc (see fig. 4), do not use an abrasive disc. The hose must be square and clean cut. Avoid cutting the hose not perpendicularly or cutting the hose causing damages on its wire braid (see fig. 2, 3) for a proper cutting hose operation. Clean the hose carefully from any cutting residue.**

Corte la manguera usando un disco afilado apropiado (ver fig. 4), **no use un disco abrasivo**.
La manguera debe estar cortada a escuadra y limpia. Asegúrese que el corte de la manguera sea perpendicular y evite que el corte de la manguera cause daños en sus alambres (ver fig. 2, 3) para una operación apropiada de corte de la manguera. Limpie cuidadosamente la manguera de cualquier residuo de corte.

Schneiden Sie den Schlauch mit einem scharfen Kreismesser (siehe Abb. 4), **benutzen Sie keine abrasive Scheibe.** Achten Sie auf einen geraden und sauberen Schnitt. Vermeiden Sie nicht rechtwinklige und unsaubere Schnitte (siehe Abb. 2, 3). Reinigen Sie den Schlauch gründlich von Schnittrückständen.

Tagliare il tubo utilizzando un apposito disco ben affilato (vedi fig. 4), **non utilizzare un disco abrasivo.** Tagliare il tubo flessibile perpendicolarmente all'asse. Evitare tagli non perpendicolari e/o tagli che tendano a danneggiare la treccia metallica del tubo stesso (vedi figg. 2 e 3). Pulire accuratamente il tubo flessibile da eventuali residui di taglio.

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5 **Place the ferrule on the flexible hose so that the ferrule tooth touches the end of the cut hose.**

Coloque el casquillo en la manguera flexible de tal manera que los dientes hagan contacto con la punta de la manguera que ha sido cortada.

Platzieren Sie die Fassung so auf dem Schlauch, dass der Steg in der Fassung an der Schnittfläche des Schlauches anliegt.

Introdurre la boccola sul tubo flessibile in modo che il dente vada in appoggio sull'estremità del tubo tagliato.



6 **Grease the end of the fitting joint with the same oil used in the air conditioning system.**

Lubrique la punta del racor con el mismo aceite usado en el sistema de aire acondicionado.

Schmieren Sie das Ende der Armatur mit dem Selben Schmiermittel, das auch in der Klimaanlage verwendet wird.

Lubrificare l'estremità d'innesto del raccordo con il medesimo olio utilizzato nell'impianto di condizionamento.

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7 **Find the correct orientation and insert completely the fitting into the hose.**

Encuentre la orientación correcta e inserte completamente el racor en la manguera.

Achten Sie auf die richtige Winkelstellung und führen Sie die Armatur bis zum Anschlag in den Schlauch ein.

Trovare l'orientamento corretto e inserire completamente il raccordo nel tubo.

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ASSEMBLING INSTRUCTIONS

REFRISTAR PROCEDURE



8 **Set up the crimping machine selecting the die set that is closed to the specified dimension. Crimp to the specified diameter. Ensure the dies fully cover the ferrule length.**

Acondicione la máquina de prensar seleccionando el conjunto de mordazas que más se acerque a la dimensión especificada. Prense al diámetro especificado. Asegúrese que los mordazas cubran totalmente la longitud del casquillo.

Verpressen Sie gemäß Pressmaß. Stellen Sie sicher dass die Pressbacken über die volle Länge der Fassung aufliegen.

Eseguire il set-up della pressa selezionando il set di punzoni che più si avvicina alle dimensioni specificate. Pressare al diametro specificato. Assicurarsi che i punzoni coprano completamente la lunghezza della boccola.



9 **Inspect the crimping dimension using a calibrated vernier. Check the diameter at the centre of the ferrule following the values on the table b.**

Inspeccione la dimensión de prensado usando un vernier calibrado. Verifique el diámetro en el centro del casquillo siguiendo los valores de la tabla b.

Überprüfen Sie das Pressmaß mittig an der Fassung gemäß Tabelle b.

Verificare il diametro di pressatura utilizzando un calibro tarato. Controllare il diametro al centro della boccola seguendo i valori riportati in tabella b.

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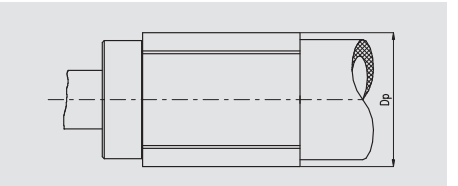


Table b / Tabla b / Tabelle b / Tabella b

HOSE SIZE			Dp (± 0,1 mm)
DN	Dash	Inch	mm
5	- 04	3/16"	15,2
8	- 06	5/16"	20,2
10	- 08	13/32"	21,3
13	- 10	1/2"	26,0
16	- 12	5/8"	30,8
22	- 16	7/8"	34,4
28	- 20	1.1/8"	42,5

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REFRIFAST WITH ONE-PIECE CRIMPED FITTINGS

REFRIFAST CON RACOR PRENSADO EN UNA PIEZA

REFRIFAST MIT EINTEILIGEN ARMATUREN

REFRIFAST CON RACCORDI ONE-PIECE

The fitting operations are extremely simple, and consist of the following procedures:

El montaje es extremadamente simple y consiste en los siguientes procedimientos:

Die Herstellung eine Leitung ist extrem einfach und besteht aus folgenden Arbeitsschritten:

Il montaggio è estremamente semplice e consiste nelle seguenti operazioni:



1 **Check the dimensions of the components.**

Compruebe las dimensiones de los componentes.

Überprüfen Sie die Abmessungen der Komponenten.

Verificare le dimensioni dei componenti.



2 **Cut the end of the hose in a perpendicular direction, using the manual cutter.**

Corte la manguera en dirección perpendicular, usando el cortador manual.

Schneiden Sie den Schlauch rechtwinklig zur Längsachse.

Tagliare l'estremità del tubo perpendicolarmente usando la taglierina manuale.



3 **Verify the end of the hose to be cut in a perpendicular direction.**

Verifique que la manguera ha sido cortada en dirección perpendicular.

Prüfen Sie nochmals den Schnitt auf Rechtwinkligkeit.

Verificare che l'estremità del tubo sia tagliata perpendicolarmente all'asse del tubo.

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ASSEMBLING INSTRUCTIONS

REFRISTAR PROCEDURE



4 **Grease the end of the fitting joint with the same oil used in the air conditioning system.**

Lubrique los extremos (mangueras y racores) con el mismo aceite usado en el sistema del aire acondicionado.

Schmieren Sie das Ende der Armatur mit dem Selben Schmiermittel, das auch in der Klimaanlage verwendet wird.

Lubrificare l'estremità del raccordo con il medesimo olio utilizzato nell'impianto di condizionamento.



5 **Find the correct orientation and insert completely the fitting into the hose.**

Compruebe la orientación correcta e inserte completamente el racor en la manguera.

Achten Sie auf die richtige Winkelstellung und führen Sie die Armatur bis zum Anschlag in den Schlauch ein.

Trovare l'orientamento corretto e inserire completamente il raccordo nel tubo.

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6 **Check the correct position of the hose through the proper hole in the ferrule.**

Compruebe la correcta posición de la manguera a través del orificio en el casquillo.

Überprüfen Sie die korrekte Position des Schlauches mittels des dazu vorgesehenen Lochs in derr Fassung.

Verificare la posizione corretta del tubo attraverso l'apposito foro nella boccola.



7 **Set up the criping machine selecting the die set that is closed to the dimension specified diameter. Place the fitting on the proper positioner to ensure that it is in the correct position (table c).**

Prepara la máquina seleccionando las mordazas adecuadas para prensar el diámetro especificado. Ponga el racor en la máquina y verifique que está en la posición correcta (tabla c).

Verpressen Sie gemäß Pressmaß nach Tabelle c. Stellen Sie sicher dass die Pressbacken über die volle Länge der Fassung aufliegen.

Eseguire il set-up della pressa selezionando il set di punzoni che più si avvicina alle dimensioni specificate. Pressare al diametro specificato (tabella c). Assicurarsi che i punzoni coprano completamente la lunghezza della boccola.

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8 **Inspect the crimping dimension using the proper calibrated vernier (see picture). Check the dimensions following the values in table c.**

Inspeccione el diámetro de prensado usando el nonio el calibrado apropiado. Compruebe las dimensiones siguiendo los valores en la tabla c.

Überprüfen Sie das Pressmaß mittig an der Fassung gemäß Tabelle c.

Verificare il diametro di pressatura utilizzando un appropriato calibro tarato (v. immagine). Controllare il diametro al centro della boccola seguendo i valori riportati in tabella c.

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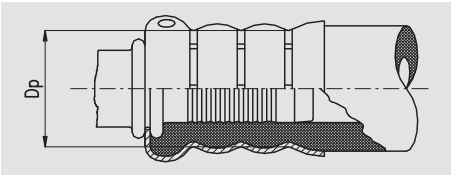


Table c / Tabla c / Tabelle c / Tabella c

HOSE SIZE			Dp (± 0,2 mm)
DN	Dash	Inch	mm
8	- 06	5/16"	14,8
10	- 08	13/32"	16,3
13	- 10	1/2"	18,8
16	- 12	5/8"	21,1

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PART NUMBERING SYSTEM

HOSES

0 1 2 3 4 5 6 7 8 9 10 11 1

Root

DIGIT "0"
"H" letter always means Hoses

0 1 2 3 4 5 6 7 8 9 10 11 12

DIGIT "1-2-3-4-5"
Family
"Five digits number" that defines different Families.
More details in the table "Hose Families".

0 1 2 3 4 5 6 7 8 9 10 11 12

DIGIT "6"
Progressive letter (A, B, ...) is used to identify an updated structure
In case a number is used, it must be read together with digit "7" and "8" to identify the hose's diameter in mm

0 1 2 3 4 5 6 7 8 9 10 11 12

DIGIT "7-8"
Diameter in millimetres
In case digit "6" is a number, the hose's diameter in mm must be read including it

0 1 2 3 4 5 6 7 8 9 10 11 12

DIGIT "9-10-11-12"
These digits define marking technology, package type and other specific features.

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PART NUMBERING SYSTEM

HOSE FAMILIES

CODE	FAMILY
01A32	SHIELDMASTER/6000
01A78	SUPERJET/PLUS
01A79	SUPERJET/PLUS BLUE
01A94	PROJET
01A95	PROJET BLUE
01006	TRACTOR/1T
01007	ROCKMASTER/1SN
01013	TRACTOR/1K
01015	PILOT
01025	TRACTOR/2K
01027	TRACTOR/2T
01030	ROCKMASTER/2SC
01031	SHIELDMASTER/4000
01032	SHIELDMASTER/5000
01033	CPH/2SC
01034	JACKMASTER
01035	ROCKMASTER/2ST
01038	ROCKMASTER/2SN
01039	NOZONE/2K
01056	HARVESTER/17
01058	EQUATOR/1(BLACK)
01059	EQUATOR/1(BLUE)
01060	EQUATOR/2 (BLACK)
01061	EQUATOR/2 (BLUE)
01084	LYTE-FLEX
01101	ROCKMASTER/2 PLUS
01102	ETERNITY/2
01104	SHIELDMASTER/5000 MINE
01106	SHIELDMASTER/2000
01108	ROCKMASTER/1SC
01110	REFRISTAR
01112	TWINPOWER/PLUS
01119	TWINPOWER/4000
01120	TWINPOWER/5000
01122	SHIELDMASTER/2 PLUS MINE
01124	FIREND
01125	GOLDENISO/21 ANTIWEAR
01126	GOLDENISO/28 ANTIWEAR
02001	SUPERJET
02002	SUPERJET BLUE
02003	K-JET
02004	TRACTOR/1T
02008	K-JET BLUE
05002	COVER
09002	REFRIMASTER
09045	ASTRO/2
09046	ASTRO/3
09066	PUSHFIT
09067	MULTITEX
09068	REFRIFAST
09071	REFRIMASTER PLUS

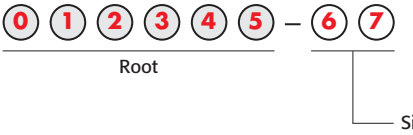
CODE	FAMILY
10008	ROCKMASTER/4SP
10009	GOLDENSPIR/4SP
10016	XTRAFLEX/5000
10018	DIAMONDSPIR
10031	ROCKMASTER/12
10035	ROCKMASTER/13
10040	GOLDENSPIR/4SH
10044	ROCKMASTER/4SH
10049	ROCKMASTER/15
10065	XTRAFLEX/4000
10066	GOLDENBLAST/PLUS
10067	GOLDENBLAST/SIX
10072	GOLDENBLAST
10078	XTRAFLEX/6000
10086	SHIELDMASTER/6000 MINE
10089	GOLDENISO/45 LONG LIFE
10091	GOLDENMINE
11001	GOLDENDRILL/3000
11002	GOLDENDRILL/4000
11003	GOLDENDRILL/5000
11004	GOLDENDRILL/7500
30005	SPIRTEX/K
30010	HYDROPLAST
30011	HYDROTWIN

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PART NUMBERING SYSTEM

FERRULES AND CLAMPS



DIGIT "0"



M	Ferrule MF2000
C	Ferrule or clamp for refrigeration
K	Reusable Ferrule

DIGIT "1"



0	Always

DIGIT "2 - 3"



Ferrule family

01	Skive Ferrule for W.B Hoses
03	No-Skive Ferrule for Textile Braided Hoses / Star-Crimp Ferrule for RefriStar
04	Reusable Star-Fit Ferrule for RefriStar
07	Frigoclic Ferrule for Refrimaster and Refrimaster Plus
08	No-Skive Ferrule for Compact Hoses
09	Skive Ferrule for W.B and W.S Hoses
10	Frigoclic Clamp for Refrimaster and Refrimaster Plus
15	Double Skive Ferrule for H.D. Spiral Hoses (Interlock Plus 4 ply)
16	Double Skive Ferrule for H.D. Spiral Hoses (Interlock Plus 6 ply)
17	Double Skive Ferrule for Extra Duty Spiral Hoses (Blastlock-Xtralock 4 ply)
18	Double Skive Ferrule for Extra Duty Spiral Hoses (Blastlock-Xtralock 6 ply)
31	No-Skive Ferrule for 1W.B. Hoses
34	No-Skive Ferrule for W.B. Hoses

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DIGIT "4"



0	Ferrule series release 00
1	Ferrule series release 01
2	Ferrule series release 02
3	Ferrule series release 03

DIGIT "5"



0	Always

DIGIT "6-7"

Hose bore size

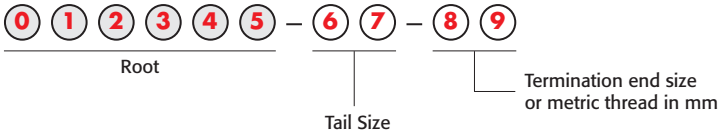


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PART NUMBERING SYSTEM

TWO PIECES HYDRAULIC FITTINGS



DIGIT "0"



M	MF2000 connector (Multifit, Interlock Plus, Xtralock, ...)
O	Accessories (banjo, flange clamps, bolt,…)
L	Push-lock connector

DIGIT "1"



1	Male or double connectors, type Multifit
2	Female or flange, type Multifit
3	Male or double connectors, type Interlock Plus
4	Female or flange, type Interlock Plus
5	Male or double connectors, type Xtralock
6	Female or flange, type Xtralock
8	Accessories (flange, clamps, bolt)

DIGIT "2"-"3"



The numbers stated in these positions refer to the termination end or to the second tail.
For the coding, see table "Termination Ends Type".

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DIGIT "4"



This digit specifies the bending angle or the configuration

0	Special Bending Angle	5	straight double connector
1	Straight	6	60° Swept
2	22,5° Swept	7	67,5° Swept
3	30° Swept	8	Compact type
4	45° Swept	9	90° Swept

DIGIT "5"



0	No Nut / Male / Flange type Xtralock/Multispiral/Interlock Plus
1	Crimped-back Nut or Flange type Multifit
2	Thrust-wire Nut
3	Slip-on Nut
7	One piece flange clamp (only for 08... codes)
8	ISO/SAE code 61 split flange clamp (only for 08... codes)
9	ISO/SAE code 62 split flange clamp (only for 08... codes)

DIGIT "6-7"



These digits specify the tail size

DIGIT "8-9"



These digits specify the termination end size or metric thread in mm

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PART NUMBERING SYSTEM

TERMINATION ENDS TYPE

Digit	MF2000	MF4000	Q.Safe	Refri	Description (male end)	Description (female end)
00	00			00	Double connector / No end (plug)	No end (plug)
02		02			BSP Male Tapered Thread Long	BSP Female Tapered
03	03	03			BSP Male Parallel Thread O'R Flat Face (ISO 1179-3)	BSP Banjo
04		04	04		BSP Male Bulkhead	BSP Fixed Female DIN 3852-2 "form X" / ISO 1179-1
05	05	05	05		BSP Male 60° cone seat BS5200 / ISO 8434-6	BSP Female 60° cone BS5200 / ISO 8434-6
06	06	06			BSP Male Flat Face	BSP Female Flat seat
07	07	07			BSPT Male	JIS B 8363 (Nissan) Swivel Female
08	08					BSP O-Ring Female 60° cone BS5200 / ISO 8434-6
09	09	09			BSP Male O'Ring Boss Adjustable ISO 1179-3	Metric Banjo DIN 7642
10	10				Metric male 60° cone superlight DIN 3863	Metric female 60° cone superlight DIN 3863
11	11		11	11	Metric male 24° cone seat light type DIN 3861 / ISO 8434-1	
12	12		12		Metric male 24° cone seat heavy type DIN 3861 / ISO 8434-1	Metric Female 24° cone O'Ring heavy type DIN 3865 / ISO 8434-2 Long Drop
13	13					Metric Female Multiseal cone DIN 3868
14			14		Metric Male DIN 3852-11 "form E" b/ ISO 9974-2	Metric Fixed Female DIN 3852-1 "form X" and "form Y"
15	15			15		Metric Female 24° cone O'Ring light type DIN 3865 / ISO 8434-1
16	16					Metric Female 24° cone O'Ring heavy type DIN 3865 / ISO 8434-2
17	17				French Millimetric metric male 24° cone seat	French Millimetric metric female
18	18				French GAZ metric male 24° cone seat	French GAZ metric female
19		19	19		Metric Male (Adjustable + Non-Adjustable Heavy) ISO 6149-2	Metric Fixed Female ISO 6149-1
20	20					DIN Metric Standpipe L.T. DIN 2353
21	21					DIN Metric Standpipe H.T. DIN 2353
22		22			JIC male Long 37° cone SAE J514	
23		23	23		JIC Bulkhead male 37° cone ISO 8434-2 / SAE J514	
24	24	24	24	24	ORFS male ISO 8434-3 / SAE J1453	ORFS female ISO 8434-3 / SAE J1453
25	25	25	25	25	JIC male (37° cone) ISO 8434-2 / SAE J514	JIC female (37° cone seat) ISO 8434-2 / SAE J514
26	26			26		SAE female (45° cone seat) SAE J512
27	27	27			ORFS Bulkhead male ISO 8434-3 / SAE J1453	JIC female double hexagon 37° cone seat
28	28	28	28		NPTF Male 60° cone seat SAE J476a	NPSM Swivel Female 60° cone SAE J514
29		29			ORFS male type Long SAE J1453	
30	30	30	30		Male O'Ring Boss type SAE J1926-3	Female Port SAE J1926-1
31		31			Male O'Ring Boss Adjustable Light SAE J1926-3	
33	33					Flange ISO/SAE 61 (ISO 6162-1 / SAE J518 code 61)
34	34	34	34		API Male	NPTF Fixed Female SAE J476a
35	35				NPT Male	NPT Fixed Female
36	36					Flange ISO/SAE 62 (ISO 6162-2 / SAE J518 code 62)
37	37		37	37	Metric male 60° cone superlight DIN 3863 Bulkhead	Flange ISO/SAE 62 Plus / Flange (A/C)
38	38					JIS B 8363 (Toyota) Swivel Female
39	39					SUPERCAT flange
40	40					JIS B 8363 (Komatsu) Swivel Female
41	41				NPTF Swivel Male SAE J476a	Komatsu Flange
43	43				SAE O'Ring Boss Swivel Male	
44	44	44			Male BSPP Flat Face Bonded Washer	ORFS Female Long Drop Elbow ISO 12151-1 / SAE J516
46	46	46			Super Staple Male	Super Staple Fixed Female
47	47				Super Staple Male (only for Interlock Plus)	JIC (37° cone) Female Long Drop Elbow ISO 12151-5 / SAE J516
48	48	48			Staple Male SAE J1467	Staple Fixed Female SAE J1467

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PART NUMBERING SYSTEM

TERMINATION ENDS TYPE

Digit	MF2000	MF4000	Q.Safe	Refri	Description (male end)	Description (female end)
49	49					Wash Cleaning
59	59	59			Flushfit Male Low Pressure	Flushfit Fixed Female Low Pressure
61	61				Flushfit Male High Pressure	Flushfit Fixed Female High Pressure
62		62				Flushfit Swivel Female Low Pressure
64		64			BSP Male front seal	Flushfit Swivel Female High Pressure
66	66					Metric Female 24° cone O'Ring heavy type DIN 3865 / ISO 8434-2 (only for Blastlock / Xtralock)
72		72				SuperStaple Lock Swivel Female
76				76		Expansion valve (A/C)
77			77		DIN Bulkhead Male 24° cone Light type ISO 8434-1	
78	78				NPTF Male 60° cone seat SAE J476a (only for Interlock Blastlock/Xtralock)	
79				79	Fixed Male O'Ring seat (A/C)	Female O'Ring (A/C)
80				80	Male Swivel O'Ring (A/C)	
82		82	82		French GAZ Bulkhead metric male 24° cone seat	Staple Lock Swivel Female
85	85					XtraFlange (ISO 6162-2 / SAE J518 code 62 port compatible)
86	86					Flange ISO/SAE 62 (ISO 6162-2 / SAE J518 code 62) - only for Xtralock
87		87			DIN Bulkhead Male 24° cone Heavy type ISO 8434-1	
95	95					Brazing socket

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Digit	MF2000	MF4000	Q.Safe	Refri	Easy-Fit
2H	2H				Easy-Fit High Pressure (Cejn)

Digit	MF2000	MF4000	Q.Safe	Refri	Accessories for connectors (O8...)
33	33				Clamps for flange ISO/SAE 61
36	36				Clamps for flange ISO/SAE 62
85	85				Xtraflange Clamps
02	02				BSP Bolt
03	08				BSP Bolt Double Hole
08	08				Metric Bolt DIN 7643
2H	2H				Cartridge for Easy-Fit High Pressure

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PART NUMBERING SYSTEM

ADAPTORS

0 1 2 3 4 5 6 – 7 8 – 9 10

Root

DIGIT "0"

A Adaptors

0 1 2 3 4 5 6 – 7 8 – 9 10

DIGIT "1"

0 1 2 3 4 5 6 – 7 8 – 9 10

The numbers stated in this position refer to the ends number

4 One End / Accessories
5 Two Ends
7 Three Ends
9 Four Ends

DIGIT "2"

0 1 2 3 4 5 6 – 7 8 – 9 10

The numbers stated in this position refer to the gender and geometry of the ends

One End / Accessoires

0 Male plug
1 Female plug
2 Sleeve
3 Nut

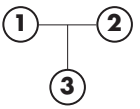
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Two Ends

	1st end	2nd end	geometry
0	male	male	straight
1	female	female	straight
2	male	female	straight
3	male	male	45° elbow
4	female	female	45° elbow
5	male	female	45° elbow
6	male	male	90° elbow
7	female	female	90° elbow
8	male	female	90° elbow

Three ends

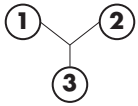
	1st end	2nd end	3rd end
0	male	male	male
1	male	male	female
2	male	female	male
3	female	female	female
4	female	female	male
5	female	male	female
6	male 1	male 2	male 1
7	female 1	female 2	female 1
8	male 1	male 1	male 2
9	female 1	female 1	female 2



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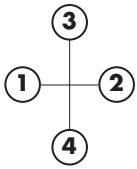
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	1st end	2nd end	3rd end
Y	female	female	female



Four ends

	1st end	2nd end	3rd end	4rd end
0	male	male	male	male
1	male 1	male 1	male 1	male 2
2	male 1	male 2	male 1	male 2
3	male	male	male	female
4	male	female	male	female
5	male	female	female	female
6	female	female	female	female
7	female 1	female 1	female 1	female 2
8	female 1	female 2	female 1	female 2
9	male	male	female	female



DIGIT "3"-"4"

0 1 2 **3** **4** 5 6 – 7 8 – 9 10

The numbers stated in these positions indicate the first end (see table "Termination Ends Type").

When male and female ends are present, the male is always the first end.
When all the ends are male or female, one end takes priority respect to the other one following the tables "Priority of the Ends".

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DIGIT "5"-"6"

0 1 2 3 4 **5** **6** – 7 8 – 9 10

The numbers stated in these positions indicate the second end (see table "Termination Ends Type").

DIGIT "7"-"8" AND "9"-"10"

0 1 2 3 4 5 6 – **7** **8** – **9** **10**

When the ends are part of the same family, the first size is the smallest.
The size sequence is the same of the ends sequence (the first size indicates the first end, the second size indicates the second end).

Special adaptors (3-ways adaptors)

When two ends are part of the same family, the family is indicated only one time.

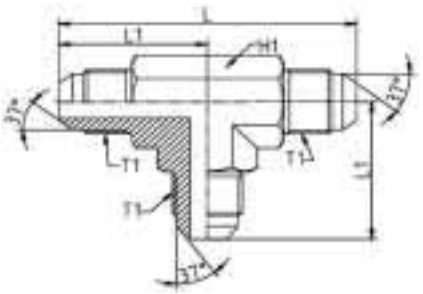
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PART NUMBERING SYSTEM

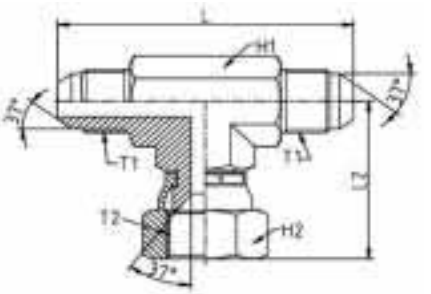
ADAPTORS

TYPICAL CONFIGURATIONS FOR 3-WAYS ADAPTORS

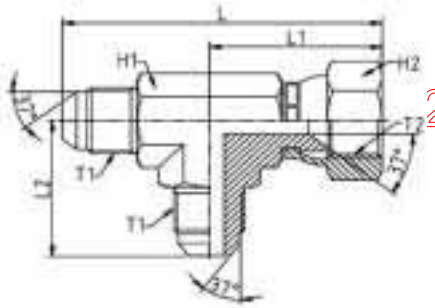
UNION TEE



BRANCH TEE



RUN TEE



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PART NUMBERING SYSTEM

PRIORITY OF THE ENDS

The top-down list in each family follows this order:
1) Standard Male
2) Bulkhead Male
3) Male for Port
4) Female (when digits are different from the male)

ORFS

24	ORFS type
29	ORFS type Long

JIC

25	JIC Thread (37° cone)
23	JIC Thread (37° cone) Bulkhead
22	JIC Thread (37° cone) Long

BSP

05	BSP Parallel Thread (60° cone)
07	BSP Male Tapered Thread
04	BSP Bulkhead / BSP Female Fixed
02	BSP Tapered Thread Long
03	BSP Parallel Thread O'R Flat Face
09	BSP Parallel Thread O'R Flat Face Adjustable

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SAE

30	SAE O'Ring Boss Thread
31	SAE O'Ring Boss Thread (Adjustable Light)

NPTF

28	NPTF Male / NPSM Female Thread
34	NPTF Fixed Female

METRIC ENDS

19	Metric Thread ISO 6149

MINING

48	Staple Male / Staple Fixed Female
46	Super Staple Male / Super Staple Fixed Female
59	Flushfit Male / Flushfit Fixed Female Low Pressure
61	Flushfit Male / Flushfit Fixed Female High Pressure
82	Swivel Female Staple Lock Connection
72	Swivel Female Super Staple Lock Connection
62	Swivel Female FlushFit Connection Low Pressure
64	Swivel Female Flushfit Connection High Pressure

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PART NUMBERING SYSTEM

HYDRAULIC QUICK COUPLINGS

0 1 2 3 4 5 6 7 8 9 – 10 11 – 12 13

Root

DIGIT "0"
Q Quick Coupling

DIGIT "1"
0 Hydraulic

DIGIT "2-3"
Quick Coupling Series. Refer to the table "Hydraulic Quick Coupling Series".

DIGIT "4"
The number stated in this position indicates the material:

1 STEEL
2 AISI 316
3 AISI 303
4 BRASS
5 ALUMINIUM

DIGIT "5"
The number stated in this position indicates the seals material:

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0 Absence
1 NBR (nitrile)
2 HNBR
3 FKM (viton, FPM)
4 CR (neoprene)
5 EPDM
6 FFPM (Kalrez)
7 NBR (Nitrile Low Temperature)
8 VMQ (silicone rubber)
9 AU (polyurethane)

DIGIT "6"-"7"
The numbers stated in this positions indicate the end configuration according to the "Termination Ends Type" table.

DIGIT "8"
The numbers stated in this position indicate the Thread Gender:

0 Male
1 Female

DIGIT "9"
A letter stated in this position identifies a customized version.

DIGIT "10"-"11"
The numbers stated in this position indicate the quick coupling size.

DIGIT "12"-"13"
The numbers stated in this position indicate the thread size.

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PART NUMBERING SYSTEM

PLUG/SEAL (HYDRAULIC QUICK COUPLING)

0 1 2 3 4 5 6 7 – 8 9 10

Root

DIGIT "0"

Q Quick Coupling

DIGIT "1"

1 Plugs and Seals

DIGIT "2-3"

Plug and Seal Quick Coupling Series. Refer to the table "Hydraulic Quick Coupling Series".

DIGIT "4"

The number stated in this position indicates the Metal or Cap/Plug material:

0 Absence
1 STEEL
2 AISI 316
3 AISI 303
4 BRASS
5 ALUMINIUM
A PE (polyethilene)
B PVC
C PA (polyammide)
D POM (acetalic resin)

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DIGIT "5"

The number stated in this position indicates the Seals material:

0 Absence
1 NBR (nitrile)
2 HNBR
3 FKM (viton, FPM)
4 CR (neoprene)
5 EPDM
6 FFPM (Kalrez)
7 PTFE
8 VMQ (silicone rubber)
9 AU (polyurethane)

DIGIT "6"

The number stated in this position indicate the usage type

0 Simple Cap/Plug
1 EcoCap (with Oil Recycle)
2 Automatic Cap
3 Seal
4 Parking

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PART NUMBERING SYSTEM

PLUG/SEAL (HYDRAULIC QUICK COUPLING)

DIGIT "7"

0 1 2 3 4 5 6 **7** – 8 9 10

The numbers stated in this position indicate colour:

N	Not specified or natural
R	Red
B	Blue
Y	Yellow
G	Green
K	Black
W	Brown
H	White
O	Orange
E	Grey

DIGIT "8-9"

0 1 2 3 4 5 6 7 – **8 9** 10

The numbers stated in this position indicate the quick coupling size. The size designation corresponds to the nominal inside diameter of the hose recommended for use with coupling (see ISO 4397)

DIGIT "10"

0 1 2 3 4 5 6 7 – 8 9 **10**

Free digit for version or other

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PART NUMBERING SYSTEM

HYDRAULICS CHECK VALVES - HYDRAULIC QUICK COUPLINGS

0 1 2 3 4 5 6 7 8 9 10 – 11 12 – 13 14 15

Root

DIGIT "0" — 0 1 2 3 4 5 6 7 8 9 10 – 11 12 – 13 14 15

Q Quick Coupling

DIGIT "1" — 0 **1** 2 3 4 5 6 7 8 9 10 – 11 12 – 13 14 15

2 Check valves

DIGIT "2" — 0 1 **2** 3 4 5 6 7 8 9 10 – 11 12 – 13 14 15

Check valves Series:

A Standard

B Compact

DIGIT "3" — 0 1 2 **3** 4 5 6 7 8 9 10 – 11 12 – 13 14 15

Temination ends gender:

1	male	male
2	female	female
3	male	female
4	female	male

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DIGIT "4" — 0 1 2 3 **4** 5 6 7 8 9 10 – 11 12 – 13 14 15

The number stated in this position indicates the material:

1 STEEL

2 AISI 316

3 AISI 303

4 BRASS

5 ALUMINIUM

DIGIT "5" — 0 1 2 3 4 **5** 6 7 8 9 10 – 11 12 – 13 14 15

The number stated in this position indicates the seals material:

0 Absence

1 NBR (nitrile)

2 HNBR

3 FKM (viton, FPM)

4 CR (neoprene)

5 EPDM

6 FFPM (Kalrez)

7 PTFE

8 VMQ (silicone rubber)

9 AU (polyurethane)

DIGIT "6"-"7" — 0 1 2 3 4 5 **6** **7** 8 9 10 – 11 12 – 13 14 15

The numbers stated in this positions indicate the **input** end configuration according to the "Termination Ends Type" table.

DIGIT "8"-"9" — 0 1 2 3 4 5 6 7 **8** **9** 10 – 11 12 – 13 14 15

The numbers stated in this positions indicate the **output** end configuration according to the "Termination Ends Type" table.

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PART NUMBERING SYSTEM

HYDRAULICS CHECK VALVES - HYDRAULIC QUICK COUPLINGS

DIGIT "10" 0 1 2 3 4 5 6 7 8 9 **10** – 11 12 – 13 14 15

A letter stated in this position identifies the valve's crack pressure

A	0,35 bar	(5,1 psi)
B	0,10 bar	(1,5 psi)
C	0,20 bar	(2,9 psi)
D	0,50 bar	(7,3 psi)
E	1,00 bar	(14,5 psi)
F	1,50 bar	(21,8 psi)
G	2,00 bar	(29,0 psi)
H	2,50 bar	(36,3 psi)
J	3,00 bar	(43,5 psi)
K	3,50 bar	(50,8 psi)
L	4,00 bar	(58,0 psi)
M	4,50 bar	(65,3 psi)
N	5,00 bar	(72,5 psi)
P	6,00 bar	(87,0 psi)
Q	7,00 bar	(101,5 psi)
R	8,00 bar	(116,0 psi)
S	9,00 bar	(130,5 psi)
T	10,00 bar	(145,0 psi)

DIGIT "11"-"12" 0 1 2 3 4 5 6 7 8 9 10 – **11** **12** – 13 14 15

Input termination end size

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DIGIT "13"-"14" 0 1 2 3 4 5 6 7 8 9 10 – 11 12 – **13** **14** 15

Output termination end size

DIGIT "15" 0 1 2 3 4 5 6 7 8 9 10 – 11 12 – 13 14 **15**

Free digit for other characteristics (narrows)

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PART NUMBERING SYSTEM

HYDRAULICS QUICK COUPLING TAIL

0 1 2 3 4 5 6 7 8 9 – 10 11 – 12 13

Root

DIGIT "0"
Q Quick Coupling

DIGIT "1"
3 Q.Tail

DIGIT "2-3"
Quick Coupling series, according to "Hydraulics Quick coupling series" table.

DIGIT "4"
The number stated in this position indicates the material:

1 STEEL
2 AISI 316
3 AISI 303
4 BRASS
5 ALUMINIUM

DIGIT "5"
The number stated in this position indicates the seals material:

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0 Absence
1 NBR (nitrile)
2 HNBR
3 FKM (viton, FPM)
4 CR (neoprene)
5 EPDM
6 FFPM (Kalrez)
7 PTFE
8 VMQ (silicone rubber)
9 AU (polyurethane)

DIGIT "6"-"7"
The letter stated in this position indicates the Insert type.
MF Multifit Type

DIGIT "8"
The number stated in this position indicates the Insert angle:
1 Straight

DIGIT "9"
A letter stated in this position identifies a customized version.

DIGIT "10"-"11"
The numbers stated in this position indicate the Quick Coupling size.

DIGIT "12"-"13"
The numbers stated in this position indicate the Insert size.

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PART NUMBERING SYSTEM

HYDRAULICS QUICK COUPLING SERIES

SERIES	PLUG & SEALS SERIES	DESCRIPTION	
01	A0	Male according to ISO 7241-1 standards, series A	Free flow
02		Male according to ISO 7241-1 standards, series A	Poppet valve
03		Male according to ISO 7241-1 standards, series A	Ball valve
04		Male according to ISO 7241-1 standards, series A	Poppet valve, special guidevalve
05		Male according to ISO 7241-1 standards, series A	Ball valve, special guidevalve
06		Male according to ISO 7241-1 standards, series A	Connectable under pressure
07	A1	Female according to ISO 7241-1 standards, series A	Free flow
08		Female according to ISO 7241-1 standards, series A	One-way release, poppet valve
09		Female according to ISO 7241-1 standards, series A	One-way release, ball valve
10		Female according to ISO 7241-1 standards, series A	One-way release, connectable under pressure
11		Female according to ISO 7241-1 standards, series A	One-way release, connectable with male under pressure
12		Female according to ISO 7241-1 standards, series A	One-way release, connectable with both parts under pressure
13		Female according to ISO 7241-1 standards, series A	Two-ways release, poppet valve
14		Female according to ISO 7241-1 standards, series A	Two-ways release, ball valve
15		Female according to ISO 7241-1 standards, series A	Two-ways release, connectable under pressure
16		Female according to ISO 7241-1 standards, series A	Two-ways release, connectable with male under pressure
17		Female according to ISO 7241-1 standards, series A	Two-ways release, connectable with both parts under pressure
18		Female according to ISO 7241-1 standards, series A	Rigid, two-ways release, connectable with male under pressure
19		Female according to ISO 7241-1 standards, series A	Rigid, two-ways release, connectable with both parts under pressure
20	A2	Male according to ISO 7241-1 standards, series B	Free flow
21		Male according to ISO 7241-1 standards, series B	Poppet valve
22		Male according to ISO 7241-1 standards, series B	Ball valve
23		Female according to ISO 7241-1 standards, series B	Free flow
24	A3	Female according to ISO 7241-1 standards, series B	One-way release, poppet valve
25		Female according to ISO 7241-1 standards, series B	One-way release, ball valve
26		Female according to ISO 7241-1 standards, series B	Safety sleeve, poppet valve
27		Female according to ISO 7241-1 standards, series B	Safety sleeve, ball valve
28	A4	Male standard series	Free flow
29		Male standard series	Poppet valve
30		Male standard series	Ball valve
31	A5	Female standard series	Free flow
32		Female standard series	One-way release, poppet valve
33		Female standard series	One-way release, ball valve
34		Female standard series	Safety sleeve, poppet valve
35		Female standard series	Safety sleeve, ball valve
39	A8	Flat face male according to ISO 16028	
40		Flat face male according to ISO 16028	Connectable under pressure
41	A9	Flat face female according to ISO 16028	With safety sleeve
42		Flat face female according to ISO 16028	Without safety sleeve
45	AC	Male for diagnostic purpose according to ISO 15171	
46	AD	Female for diagnostic purpose according to ISO 15171	
47	AE	Male for hydraulic braking circuit according to ISO 5676	
48	AF	Female for hydraulic braking circuit according to ISO 5676	
49	AG	Screw type male for hydraulic braking circuit	
50	AH	Screw type female for hydraulic braking circuit	
51	AI	Screw type male for german market	
52	AJ	Screw type female for german market	
53	AK	Screw type male for very high pressure	
54	AL	Screw type female for very high pressure	
55	AM	Screw type male for hydraulic cylinder	

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PART NUMBERING SYSTEM

HYDRAULICS QUICK COUPLING SERIES

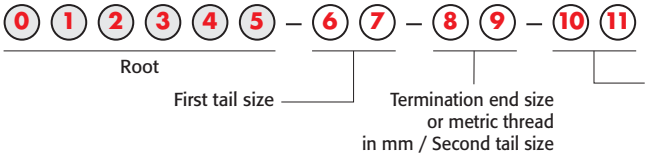
SERIES	PLUG & SEALS SERIES	DESCRIPTION	
56	AN	Screw type female for hydraulic cylinder	
57	AP	Screw type male for truck	
58	AQ	Screw type female for truck	
61	AI	Screw type male for german market	Heavy duty
62	AJ	Screw type female for german marke	Heavy duty

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PART NUMBERING SYSTEM

TWO PIECES REFRI FITTINGS



DIGIT "0"

C Always



DIGIT "1"



1 Male or "Hose to hose" Connectors type Star-Crimp
2 Female or Flange type Star-Crimp
3 Male or "Hose to hose" Connectors type Frigoclic
4 Female or Flange type Frigoclic

DIGIT "2-3"



The numbers stated in these positions refer to the termination end or to the second tail.
For the coding, see table "Termination Ends Type".

DIGIT "4"



This digit specifies the bending angle or the configuration

1 Straight
4 45° Swept
8 Compact type
9 90° Swept
H 3-ways connector with "h" configuration
T 3-ways connector with "T" configuration
Y 3-ways connector with "Y" configuration

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DIGIT "5"



0 No charge valve
2 1/4" SAE charge valve (thread 7/16"-20-UNF)
5 High Pressure charge valve
6 Low Pressure charge valve

DIGIT "6-7"



These digits specify the first tail size

DIGIT "8-9"



These digits specify the termination end size or the second tail size

DIGIT "10-11"



These digits specify the third tail size (only for 3-ways hose to hose connectors)

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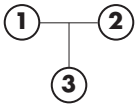
PART NUMBERING SYSTEM

TWO PIECES REFRI FITTINGS

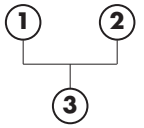
RULES FOR THE SIZE INDICATION IN THE HOSE TO HOSE CONNECTORS

In the double connectors, when the tails are part of the same family, the first size is the smallest. If the tails have the same size, this is repeated two times.

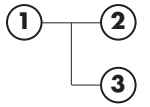
In the 3-ways connectors, tails in position "1" and "2" must be part of the same family. All the sizes are indicated following this order:



"T" configuration

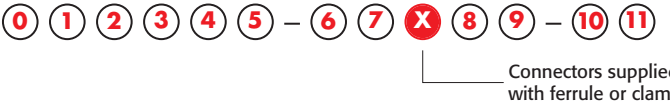


"Y" configuration



"h" configuration

CONNECTORS SUPPLIED WITH FERRULE OR CLAMP



For connectors supplied with ferrule or clamp, the second dash is replaced by a letter according to following specifications.

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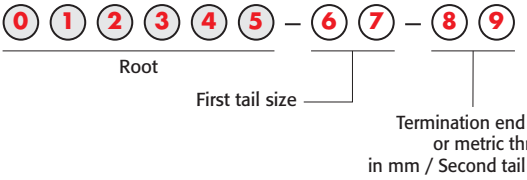
A	Ferrule type C00700
C	Ferrule type C00300
D	Ferrule type C00750
R	Clamp type C01000
T	Clamp type C01050

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PART NUMBERING SYSTEM

REUSABLE REFRI FITTINGS



DIGIT "0"

K Always



DIGIT "1"

3 Male or "Hose to hose" Star-Fit Connectors

4 Female or Flange Star-Fit



DIGIT "2-3"

The numbers stated in these positions refer to the termination end or to the second tail.
For the coding, see table "Termination Ends Type".



DIGIT "4"

This digit specifies the bending angle or the configuration.

1 Straight

4 45° Swept

8 Compact type

9 90° Swept



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DIGIT "5"

0 No charge valve

2 1/4" SAE charge valve (thread 7/16"-20-UNF)

5 High Pressure charge valve

6 Low Pressure charge valve



DIGIT "6-7"

These digits specify first tail size



DIGIT "8-9"

These digits specify the termination end size or the second tail size



RULES FOR THE SIZE INDICATION IN THE HOSE TO HOSE CONNECTORS

In the double connectors, when the tails are part of the same family, the first size is the smallest. If the tails have the same size, this is repeated two times.

CONNECTORS SUPPLIED WITH FERRULE OR CLAMP



For connectors supplied with ferrule, the second dash is replaced by a letter according to following specifications:

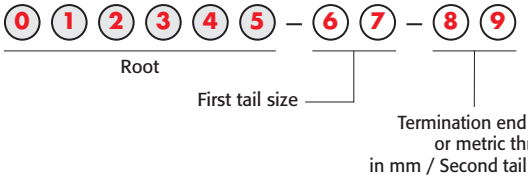
B Ferrule type K00400

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PART NUMBERING SYSTEM

ONE PIECE REFRI FITTINGS



DIGIT "0"

OPC Always



DIGIT "1"



1 Male or "Hose to hose" Fast-Crimp Connectors obtained by deformation
2 Fast-Crimp Female or Flange obtained by deformation
3 Male or "Hose to hose" Fast-Crimp Connectors obtained by brazing
4 Fast-Crimp Female or Flange obtained by brazing

DIGIT "2-3"



The numbers stated in these positions refer to the termination end or to the second tail.
For the coding, see table "Termination Ends Type".

DIGIT "4"



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This digit specifies the bending angle or the configuration.

1 Straight
4 45° Swept
8 Compact type
9 90° Swept

DIGIT "5"



0 No charge valve
5 High Pressure charge valve
6 Low Pressure charge valve

DIGIT "6-7"



These digits specify first tail size

DIGIT "8-9"



These digits specify the termination end size or the second tail size

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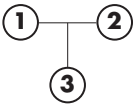
PART NUMBERING SYSTEM

ONE PIECE REFRI FITTINGS

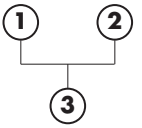
RULES FOR THE SIZE INDICATION IN THE HOSE TO HOSE CONNECTORS

In the double connectors, when the tails are part of the same family, the first size is the smallest. If the tails have the same size, this is repeated two times.

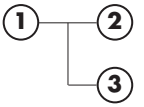
In the 3-ways connectors, tails in position "1" and "2" must be part of the same family. All the sizes are indicated following this order:



"T" configuration



"Y" configuration



"h" configuration

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PART NUMBERING SYSTEM

0 1 2 3 4 5 6 7 – 8 9

Root

DIGIT "0"
J Accessories

DIGIT "1"
L Staples

DIGIT "2"-"3"
These digit identify the Termination End of the family to whome staples are reffered.
See table "Termination Ends"

DIGIT "4"
This digit specifies the material used
0 Standard
1 Stainless

DIGIT "5"
This digit specifies the superficial
0 Standard
1 Zinc Plated
2 Spring Steel Black Phospate

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DIGIT "6"
The number stated in this position indicate the section's shape
S Standard
T Flat top
F Flat
D Form "D"

DIGIT "7"
The number stated in this position indicate the length
S Standard
L Long

DIGIT "8"-"9"
The number stated in this position indicate the nominal bore dash size

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PART NUMBERING SYSTEM

RING/SEALS

0 1 2 3 4 5 6 7 8 9

Root

DIGIT "0"
J Letter always means Accessories



DIGIT "1"
O Letter always means Rings



DIGIT "2"-"3"
The numbers stated in these positions indicate the product, referring to the following list

04 O'ring for Staple Lock
12 Bonded seal ring
15 Support plastic ring (open ring)
23 O'ring for Super Staple Lock



DIGIT "4"-"5"
Number stated in these positions indicates the external ring diameter



DIGIT "6"-"7"
Number stated in these positions indicates the external ring diameter



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DIGIT "8"-"9"
Number stated in these positions indicates the axial thickness



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PART NUMBERING SYSTEM

0 1 2 3 4 5 6 7 – 8 9 – 10 11

Root

DIGIT "0 1"

AV Means always Valves

0 1 2 3 4 5 6 7 – 8 9 – 10 11

DIGIT "2 3"

0 1 2 3 4 5 6 7 – 8 9 – 10 11

These digits identify the termination end (see table Termination End)
In case of termination ends differ only in terms of gender, indicate male termination (except for female "Swivel" version)

DIGIT "4"

0 1 2 3 4 5 6 7 – 8 9 – 10 11

Specifies Disign, shape, pattern, valve system...

A 2 ways Cubic Ball Valve
D 2 ways Cylindrical Ball Valve

DIGIT "5"

0 1 2 3 4 5 6 7 – 8 9 – 10 11

Gender

M Always Male
F Always Female
B Male - Female

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DIGIT "6"

0 1 2 3 4 5 6 7 – 8 9 – 10 11

The letter in this digit identify the handle type

0 No handle
1 Single Handle
L Single Long Handle
X Single Extra Long Handle
P Single Pad Lock Handle
S Single Straight
2 Double Handle
3 Hexagon Handle
5 Safety Handle
6 Safety Pad Lock Handle

DIGIT "7"

0 1 2 3 4 5 6 7 – 8 9 – 10 11

The letter in this digit identify the handle color or material (if not colored)

N Natural
R Red
W White
G Green
B Blue
O Orange

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PART NUMBERING SYSTEM

VALVES

DIGIT "8 9 10 11"

0 1 2 3 4 5 6 7 – 8 9 – 10 11

The numbers stated in these positions indicate the ends' size.
When male and female ends are present, the male is always the first end.
When all the ends are male or female, one end takes priority respect to the other one following the tables "Priority of the Ends".
When ends are part of the same family, the first size is the smallest.
When ends have the same size, the second size is omitted

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PART NUMBERING SYSTEM

PROTECTIONS

0 1 2 3 4 5 6 7 8 9 10 11 12 13

Root

DIGIT "0"
"J" letter always means Accessories

DIGIT "1"
"P" letter always means Protection

DIGIT "2"
The number stated in this position indicates the protection type

1 Spring
2 Sleeve
3 Clinch

DIGIT "3"
The number stated in this position indicates the material

1 Polyethilene
2 Polyammide
3 Polyester
4 Silicone

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DIGIT "4"
The letter stated in this position indicates the color

B Black
Y Yellow
A Orange

DIGIT "5-6"
The numbers stated in these positions indicate the product family

01 Protection Spirng
02 Mining Protection Spring
03 HT Protection Spring
04 Light Protection Spring
05 Fire Sleeve
06 Textile Sleeve
10 Clinch

DIGIT "7-8-9"
The numbers stated in these positions indicate the inside diameter in mm

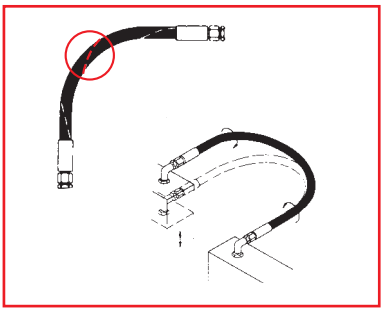
DIGIT "10-11-12-13"
These digits define marking technology and package type

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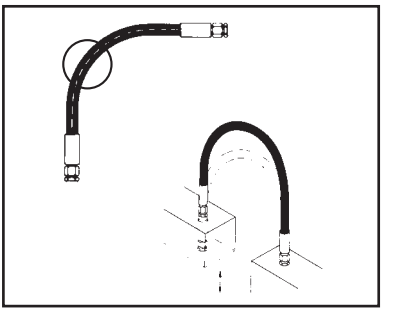
WARNING

HOSE INSTALLATION GUIDE / GUÍA DE INSTALACIÓN DE LA MANGUERA
INSTALLATIONSHINWEISE / GUIDA PER L'INSTALLAZIONE DEI TUBI

NO - WRONG USE



YES - CORRECT USE



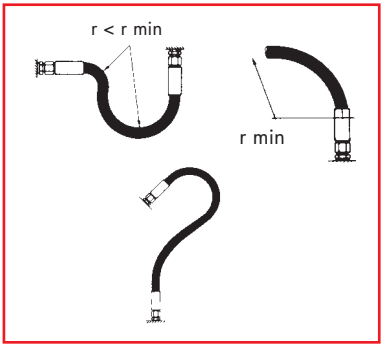
Avoid to twist the hose assembly. During installation avoid moving parts that can cause twisting effects on the hose assemblies.

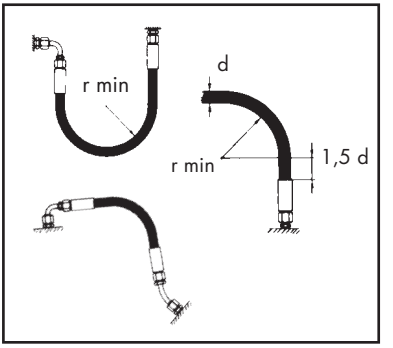
Evite torcer la manguera. Durante la instalación evite partes en movimiento que puedan causar excesivo radio de curvatura a las mangueras.

Vermeiden Sie die Verdrehung der Leitung.
Wo durch Bewegungen Verdrehungen entstehen können, vermeiden Sie es durch eine korrekte Installation.

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Evitare le torsioni dell'assemblato. Durante l'installazione evitare le parti in movimento che possono causare torsioni dell'assemblato.





Use proper fittings to avoid tight bend radius. Do not start hose bending closer than 1,5 time "d" to the ferrule.

Use los racores apropiados para evitar un excesivo radio de curvatura. No inicie la flexión de la manguera más cerca que 1,5 veces "d" del casquillo.

Benutzen Sie die richtigen Armaturen, um zu enge Biegeradien zu vermeiden. Lassen Sie Biegungen erst nach 1,5 mal "d" hinter der Einbindung zu.

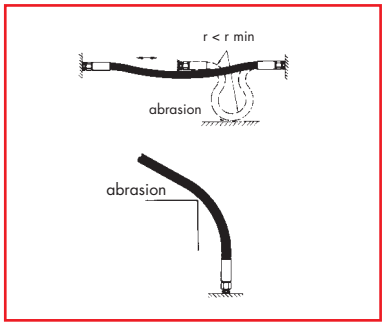
Utilizzare raccordi appropriati per evitare raggi di curvatura eccesssivamente ridotti. Il piegamento del tubo non deve cominciare prima di 1,5 volte "d" dalla fine della ghiera.

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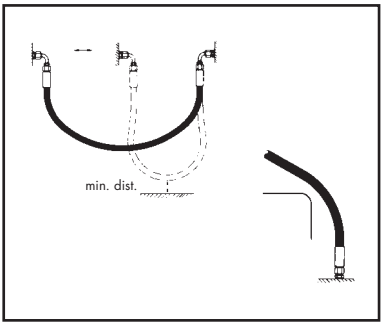
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WARNING

NO - WRONG USE



YES - CORRECT USE



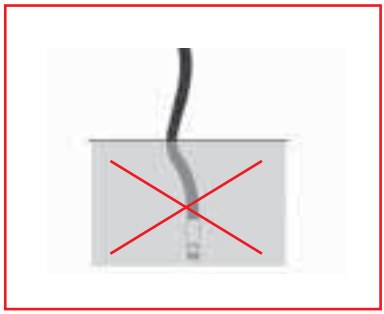
Avoid interference with objects that can cause abrasion or damage to the hose. On flexing applications, pay particular attention to avoid tensile stress or abrasion.

Evite la interferencia con objetos que puedan causar la abrasión o puedan dañar a la manguera. En aplicaciones flexibles, preste particular atención para evitar tensiones o abrasión.

Vermeiden Sie den Kontakt mit Gegenständen die Abrieb oder Beschädigung verursachen können.
Bei beweglichem Einbau achten Sie speziell auf die richtige Längenauslegung, um Abrieb und Überbiegung zu verhindern.

Evitare il contatto con oggetti che possono causare abrasioni o danneggiare il tubo. Nelle applicazioni flessibili, prestare particolare attenzione per evitare stress tensionali o abrasioni.

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The hydraulic hoses of the Manuli product range are not designed for immersion in the service fluid. This type of special applications should be avoided or carefully studied (pg 21).

La gama de productos de las mangueras hidráulicas Manuli no están diseñadas para la inmersión en el fluido de servicio. Este tipo de aplicaciones especiales debe evitarse o estudiarse cuidadosamente (pg 21).

Die Manuli Hydraulikschläuche sind nicht bestimmt für das kostante Eintauchen in hydraulischen Medien. Solche Anwendungen sollten vermieden werden oder sorgfältig ausgelegt werden (siehe Seite 21).

I tubi idraulici della gamma Manuli non sono disegnati per l'immersione in fluidi di esercizio. Questo tipo di applicazioni speciali dovrebbe essere evitato o studiato attentamente (pag 21).

For detailed information concerning the recommended practices for Hydraulic Hose assemblies, please refer to SAEJ1273. This document should be used as a guide to be considered when selecting, routing, fabricating, installing, replacing, maintaining and storing hose for hydraulic systems.

Para informacion mas detallada referente a las practicas recomendadas para el ensamble de manguera hidraulica por favor consultar la norma SAE J1273. Este documento deberia ser usado como guia para seleccionar, fabricar, instalar, reemplazar, reparar y almacenar manguera cuando se trate de sistemas hidraulicos.

Für detallierte Hinweise zur Verlegung von hydraulischen Schlauchleitungen beachten Sie bitte die SAEJ1273. Dieses Dokument muss als Richtlinie für die Auswahl, Herstellung, Installation, Ersatz, Instandhaltung und Lagerung von Hydraulikschläuchen betrachtet werden.

Per ulteriori informazioni relativamente all'installazione dei tubi idraulici, fare riferimento alla norma SAE J1273. la norma può esssere utilizzata come guida per una corretta selezione, produzione, installazione, sostituzione e riparazione di tubi per i sistemi idraulici.

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WARNING

GB

PRODUCT SELECTION

The foregoing description of the Manuli® hoses, fittings and hose assemblies, manufactured by Manuli Rubber Industries and subsidiaries, and the general installation instructions are provided as information to be considered when selecting hose, fittings and hose assemblies for a particular application. Additional factors which must be considered in selecting proper hoses, fittings and hose assemblies for any particular application include hose size, hose length, involved fluids, ambient and operating temperatures, system operating pressures, static head pressures and installation design for the application. Failure to consider all material factors in selecting a hose, fitting and hose assembly for a particular application can result in reducing the hose assembly life or other failures which can result in serious bodily injury or property damage. If there are any questions concerning the use of Manuli® hoses, fittings and hose assemblies for a particular application, please contact Manuli Rubber Industries.

PRODUCT INSTALLATION

The foregoing description of Manuli® hoses, fittings and hose assemblies and the general installation instructions are provided as information to be considered when installing Manuli® products.
Proper installation of hoses and fittings is essential to the safe and proper operation of hose assemblies.
Additional factors which must be considered in achieving a proper installation include correct minimum bend radius to avoid hose collapse, possible abrasion of hoses on rough surfaces or cutting edges, correct hose length given the relation of potential movement between hose ends, possible twisting or torsion of hoses in operation or installation, and possible high temperature in areas around the hoses. Failure to consider all material factors with respect to installation and improper installation of hoses, fittings and hose assemblies can result in reducing the hose assembly life or other failures that could result in serious bodily injury or property damage.

HOSE INTEGRATION

Manuli® hoses and fittings are designed as integral parts of hose assembly system to be used together and they should only be used together or in conjunction with other types of fittings for the Manuli® hose recommended by Manuli Rubber Industries and subsidiaries.
Failure to do so may result in reducing the hose assembly life or other failures which can result in serious bodily injury or property damage.
Product Selection, Product Installation and Hose Integration guide lines are essential to the proper operation and safe use of the Manuli® hoses, fittings, hose assemblies and related equipment. Improper installation of the hoses, fittings and hose assemblies can result in serious injury or property damage.
Further information on selection, installation and maintenance of hose and hose assemblies is described in "SAE Recommended Practice J1273 2001".
If you have any questions regarding the proper product selection and hose installation, please contact the Manuli Technical Center based in Italy.

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WARNING!
Failure or improper selection or improper use of any of the products found on this Manuli® catalogue or related items can cause death, personal injury and/or property damage. Before using any product, it is important that you analyze all aspects of your application and review the information explained in the current catalogue.
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ES

SELECCIÓN DEL PRODUCTO

La anterior descripción de las mangueras Manuli®, las conexiones y el ensamble de mangueras, fabricadas por Manuli Rubber Industries y sus subsidiarias, y las instrucciones generales de instalación son suministradas como información a ser considerada cuando seleccione la manguera, las conexiones y ensambles de manguera para una aplicación particular. Los factores adicionales, los cuales deben ser considerados para seleccionar la manguera apropiada, las conexiones y ensambles de mangueras para una aplicación particular incluyen tamaño y longitud de la manguera, fluidos involucrados, temperaturas de ambiente y de operación, presiones de sistema de operación, presion estática y diseños de instalación para la aplicación. Los fallos al considerar todos los factores materiales al seleccionar una manguera, conexiones y ensamble para una particular aplicación pueden convertirse en la reducción de la vida útil del ensamble de la manguera u otras fallas que pueden resultar en una seria herida corporal o daño a la propiedad. Si hay algunas preguntas sobre el uso de las mangueras Manuli®, conexiones y ensamble de mangueras para una aplicación particular, por favor contacte a Manuli Rubber Industries.

INSTALACIÓN DEL PRODUCTO

La anterior descripción de las mangueras Manuli, conexiones y ensambles de mangueras, y las instrucciones generales de instalación son suministradas como información a ser considerada cuando instale productos Manuli®. La instalación apropiada de mangueras y conexiones es esencial para la seguridad y apropiada operación de los ensambles de mangueras. Los factores adicionales los cuales deben ser considerados para obtener una correcta instalación incluyen el conocimiento del radio mínimo de curvatura para evitar el colapso de la manguera, posible abrasión de la manguera sobre superficies duras o bordes cortantes, longitud correcta de la manguera dada la relación del movimiento potencial entre las puntas de la manguera, posible torsión de las mangueras en operación o instalación, y posibles altas temperaturas en áreas alrededor de las mangueras. Los fallos al considerar todos los factores materiales con respecto a la instalación, e incorrecta instalación de mangueras, conexiones y ensambles pueden convertirse en una reducción de la vida útil del ensamble de la manguera u otros fallos que pueden originar serias heridas corporales y daño a la propiedad.

INTEGRACIÓN DE LA MANGUERA

Las mangueras y conexiones Manuli® están diseñadas como partes integrales del sistema de ensamble de mangueras para ser usados conjuntamente. Eventualmente, algun otro tipo de conexión puede ser utilizado previa recomendación de Manuli Rubber Industries o una Subsidiaria.

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Un fallo en lo anterior podría reducir la vida útil del ensamble de la manguera u otros fallos que podrían convertirse en serias heridas corporales o daños a la propiedad.

Las guías para la selección del producto, instalación e integración son esenciales para la operación apropiada y uso seguro de las mangueras, conexiones y máquinas de ensamble Manuli® y equipo relacionado. La instalación inapropiada de las mangueras, conexiones y ensambles de mangueras pueden resultar en serias heridas o daños a la propiedad.

Mas información sobre selección, instalación y mantenimiento de las mangueras se describe en la Norma "SAE recomendación J1273 NOV 91".

Si tiene alguna pregunta sobre la selección apropiada e instalación de la manguera por favor contacte al Centro Técnico de Manuli® en Italia.

ADVERTENCIA!

El descuido o una inadecuada selección o un inadecuado uso de alguno de los productos descritos en el catalogo de Manuli® pueden causar muerte, lesion personal y/o daño a la propiedad.

Antes de usar algun producto, es importante que usted analice todos los aspectos relacionados con su correcta aplicación previa revisión de la informacion presentada en este catálogo.

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WARNING

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PRODUKTAUSWAHL

Die vorangegangene Beschreibung von Manuli Schläuchen, Armaturen und Schlauchleitungen, hergestellt von Manuli Rubber Industries und Tochterunternehmen, sind ein allgemeiner Hinweis zur Auswahl von Schlauch, Armaturen und Schlauchleitungen für die jeweiligen Anwendungen. Zur korrekten Wahl von Schlauch, Armatur oder Schlauchleitung müssen ebenfalls Schlauchnennweite, Schlauchlänge, Medium, Umgebungs- und Betriebstemperatur, Betriebsdruck, statische Druckspitzen und Einbaukriterien als zusätzliche Faktoren beachtet werden.
Fehler bei der Berücksichtigung einzelner Kriterien zur Auswahl des richtigen Schlauches, Armatur oder Schlauchleitung für die jeweilige Anwendung können zu einer verkürzten Lebensdauer der Schlauchleitung führen oder zu Ausfällen, die ernsthafte Verletzungen oder Sachschäden zur Folge haben.

PRODUKTAUSWAHL

Die vorangegangene Beschreibung von Manuli Schläuchen, Armaturen und Schlauchleitungen und die allgemeinen Verarbeitungshinweise sind Richtlinien zur Einbindung von Manuli – Produkten. Der richtige Einbau von Schlauch und Armatur ist für einen sicheren und störungsfreien Betrieb der Schlauchleitung Voraussetzung. Der Mindestbiegeradius um einen Schlauchkollaps zu vermeiden, möglicher Abrieb des Schlauches verursacht durch rauhe Oberflächen oder scharfe
Kanten, die richtige Schlauchlänge in Relation zur voraussichtlichen Bewegung zwischen den Schlauchenden, mögliches Verdrehen oder Stauchen des Schlauchen beim Einbau oder im Betrieb und mögliche Wärmequellen in der Nähe der Leitung sind weitere Faktoren die bei einem korrekten Einbau
beachtet werden müssen.
Fehler bei der Berücksichtigung dieser Kriterien beim Einbau können zu einer verkürzten Lebensdauer der Schlauchleitung führen oder zu Ausfällen, die ernsthafte Verletzungen oder Sachschäden zur Folge haben. Manuli Schlauch und Armaturen wurden als integrierte Bestandteile eines Schlauchleitungssystems entwickelt und sollten nur zusammen verwendet werden oder mit anderen Armaturentypen, die von Manuli Rubber Industries empfohlen sind.
Nichtbeachtung kann zu einer verkürzten Lebensdauer der Schlauchleitung führen oder zu Ausfällen, die ernsthafte Verletzungen oder Sachschäden zur Folge haben.

SCHLAUCHINTEGRATION

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Manuli® Schlauch und Armaturen wurden als Komplett-Programm entwickelt und sollten auf Empfehlung von Manuli® Rubber Industries und deren Tochterfirmen auch nur aus „einer Hand“ bezogen werden um eine möglichst lange Lebensdauer der Schlauchleitung zu gewährleisten.
Dies nicht zu tun kann zur Verminderung der Lebensdauer der Schlauchleitung oder sogar zu Personenschaden und Sachschaden führen.
Produkt Auswahl, Produkt Installation und Schlauchleitung - Benutzeranleitung sind von größter Wichtigkeit für den sicheren Einbau und Umgang mit Manuli Schlauchleitungen. Nichtfachmännische Installationen von Schläuchen, Armaturen und Schlauchleitungen können zu Verletzungen oder Sachschäden führen.
Detaillierte Informationen über Auswahl, Einbau und Montage von Schlauch und Armaturen finden Sie in „SAE empfohlene Praxis J1273 2001“.
Für eventuelle Fragen bezüglich der richtigen Produktauswahl steht Ihnen das „Technik Center“ in Italien zur Verfügung. Die Verbindung dahin schafft Ihre Regionalvertretung.

WARNUNG!
Oberflächliche Auswahl oder fehlerhafter Gebrauch der in diesem Katalog aufgeführten Produkte oder Zubehör können zu Sachschäden und unter Umständen zu schweren Verletzungen mit Todesfolge führen. Es ist von höchster Wichtigkeit, dass vor dem Einsatz eines der im Katalog aufgeführten Produkte die jeweiligen Produktinformationen im Katalog mit größter Sorgfalt beachtet werden.
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IT

SELEZIONE DEL PRODOTTO

Le informazioni descritte nel presente catalogo relativamente a tubi, raccordi e assemblati flessibili Manuli (prodotti da Manuli Rubber Industries e consociate) e le istruzioni generali di montaggio devono essere considerate nella scelta del prodotto in rapporto all'applicazione particolare cui esso è destinato. Occorre inoltre considerare altri fattori come il diametro e la lunghezza del tubo, il fluido utilizzato nell'impianto, le temperature interne ed esterne d'esercizio, la pressione d'esercizio, la pressione static head e il progetto dell'impianto.
L'inosservanza delle indicazioni sopra citate può ridurre il ciclo di vita dell'assemblato o può causare altre problematiche che possono arrecare seri danni a cose o a persone. Per ulteriori informazioni riguardanti l'utilizzo dei tubi, raccordi o assemblati flessibili Manuli, vi invitiamo a contattare direttamente Manuli Rubber Industries.

INSTALLAZIONE DEL PRODOTTO

Le informazioni descritte nel presente catalogo relativamente a tubi, raccordi e assemblati flessibili Manuli e le istruzioni generali di montaggio devono essere considerate nell'installazione dei prodotti Manuli.
La corretta installazione dei tubi e dei raccordi è essenziale per il funzionamento in condizioni di sicurezza degli assemblati flessibili. Esistono inoltre ulteriori fattori che devono essere considerati per un'idonea installazione, quali: il rispetto del raggio minimo di curvatura del tubo flessibile che permette di evitare il collassamento, eventuali abrasioni del tubo, eventuali presenze di spigoli taglienti, la corretta lunghezza dell'assemblato in relazione al potenziale movimento fra le due estremità del tubo stesso, eventuali torsioni del tubo durante il funzionamento o l'installazione, l'eventuale presenza di temperature eccessivamente alte nelle zone circostanti il tubo.
L'inosservanza delle indicazioni sopra citate può causare una riduzione della vita dell'assemblato o altre problematiche che possono arrecare seri danni a cose o a persone.

INTEGRAZIONE DEI TUBI

I raccordi e tubi Manuli® sono stati progettati come parti integranti di uno stesso sistema e devono quindi essere utilizzati congiuntamente. Eventuali altri sistemi di raccordatura per i tubi in oggetto devono essere raccomandati da Manuli Rubber Industries e consociate.
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L'inosservanza delle indicazioni sopra citate può causare una riduzione della vita dell'assemblato o altre problematiche che possono arrecare seri danni a cose o a persone.
Le linee guida relative alla scelta del prodotto, all'installazione del prodotto e al pacchetto integrato sono essenziali per un utilizzo corretto e sicuro dei tubi, dei raccordi, degli assemblati e dell'equipaggiamento Manuli. L'inosservanza delle norme d'installazione di tubi, raccordi e assemblati flessibili può causare seri danni a cose o a persone.
Ulteriori informazioni sulla scelta, l'installazione e la manutenzione dei tubi e degli assemblati flessibili sono contenute nella norma "SAE Recommended Practice J1273 Nov 91".
Per ulteriori dettagli in merito alla corretta scelta del prodotto e alla relativa installazione, si prega di contattare il Centro Tecnico-Italia del Gruppo Manuli Rubber Industries.

ATTENZIONE!
La mancata o impropria selezione o l'uso improprio di ogni tipo di prodotto descritto nel presente catalogo può causare seri danni a cose e/o a persone. Prima di utilizzare qualsiasi tipo di prodotto, è importante analizzare tutti gli aspetti relativi all'applicazione su cui viene utilizzato e rivedere le indicazioni tecniche descritte nel presente catalogo.
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