

HOSES



Fluid connectors, solid solutions

manuli[®]
HYDRAULICS

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 respeta 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.

D

Die Produktpalette der Hydraulikschläuche ist speziell für Hydrauliksysteme und -ausstattungen in den unterschiedlichsten Branchen, etwa wie Baumaschinen, Bergbau, Industrieverarbeitung, Landwirtschaft, Straßenbauräte, 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 EXTREME-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.

RANGE		HOSE	HOSE STRUCTURE	NORM	KEY PERFORMANCE	PAGE
UNIVERSAL	TRADITIONAL	GOLDENSPIR® / 4SP	Wire spiralled	EN 856, ISO 3862-4SP	1.000.000 impulse cycle	22
		GOLDENSPIR® / 4SH	Wire spiralled	EN 856, ISO 3862-4SH	1.000.000 impulse cycle	24
		TRACTOR® / 1T	Wire braided	EN 853, ISO 1436-1SN, SAE J517-100R1AT	Standard hydraulic applications	26
		TRACTOR® / 2T	Wire braided	EN 853, ISO 1436-2SN, SAE J517-100R2AT	Standard hydraulic applications	28
		TRACTOR® / 1K	Wire braided	EN 857, ISO 11237-1SC	Standard hydraulic applications	30
		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
		HARVESTER®/17	Wire braided	SAE J517-100R17, ISO 11237-R17	Light and compact structure	36
		COVER	Wire braided	SAE J517-100 R5	General purpose hose	38
		SPIRTEX	Textile, Helix wire	SAE J517-100 R4	High quality suction hose	40
		MULTITEX	Textile	SAE J517-100 R6, EN 854, ISO 4079 R6/1TE	Universal low pressure solution	42
		ASTRO/2	Textile	EN 854, ISO 4079-2TE	Medium pressure solution	44
		ASTRO/3	Textile	EN 854, ISO 4079-3TE	Medium pressure solution	46
		HYDROPLAST	Textile	EN 855, ISO 3949-R7, SAE J517-100R7	Thermoplastic solution	48
		HYDROTWIN	Textile	EN 855, ISO 3949-R7, SAE J517-100R7	Twinned thermoplastic hose	50

RANGE		HOSE	HOSE STRUCTURE	MANULI® DESIGN EXCEEDS NORM	KEY PERFORMANCE	PAGE
EXTREME	TRADITIONAL	ROCKMASTER/1SN	Wire braided	EN 853, ISO 1436-1SN, SAE J517-100R1AT	Abrasion, weather and heat resistance	54
		ROCKMASTER/2SN	Wire braided	EN 853, ISO 1436-2SN, SAE J517-100R2AT	Abrasion, weather and heat resistance	56
		ROCKMASTER/2ST	Wire braided	EN 853, ISO 1436-2SN, SAE J517-100R2AT	Abrasion, weather and heat resistance	58
		ROCKMASTER/2 PLUS	Wire braided	EN 853, ISO 1436-2SN, SAE J517-100R2AT, perf. BCS174, ISO 6805-4	Abrasion, weather and heat resistance	60
		ROCKMASTER/1SC	Wire braided	EN 857, ISO 11237-1SC	Abrasion, weather and heat resistance	62
		ROCKMASTER/2SC	Wire braided	EN 857, ISO 11237-2SC, SAE J517-100R16S	Abrasion, weather and heat resistance	64
		ROCKMASTER/4SP	Wire spiralled	EN 856, ISO 3862-4SP	Abrasion, weather and heat resistance	66
		ROCKMASTER/4SH	Wire spiralled	EN 856, ISO 3862-4SH	Abrasion, weather and heat resistance	68
		ROCKMASTER/12	Wire spiralled	EN 856, ISO 3862-R12, SAE J517-100R12	Abrasion, weather and heat resistance	70
		ROCKMASTER/13	Wire spiralled	EN 856, ISO 3862-R13, SAE J517-100R13	Abrasion, weather and heat resistance	72
		ROCKMASTER/15	Wire spiralled	ISO 3862-R15, SAE J517-100R15	Abrasion, weather and heat resistance	74
		EQUATOR/1	Wire braided	EN 853, ISO 1436-1SN, SAE J517-100R1AT	Extreme temperature	76
		EQUATOR/2	Wire braided	EN 853, ISO 1436-2SN, SAE J517-100R2AT	Extreme temperature	78
		NOZONE/2K	Wire braided	EN 857, ISO 11237-2SC	Outstanding ozone resistance	80

HOSES

INDEX

RANGE	HOSE	HOSE STRUCTURE	MANULI® DESIGN EXCEEDS NORM	KEY PERFORMANCE	PAGE	
EXTREME	ISOBARIC	GOLDEN ISO/21 AntiWear	Wire braided	ISO 18752-A, ISO 11237-R17, SAE J517-100R17	Extreme abrasion resistance	84
		GOLDEN ISO/28 AntiWear	Wire braided	ISO 18752-A, ISO 11237-R19, SAE J517-100R19	Extreme abrasion resistance	86
		GOLDEN ISO/45 LongLife	Wire spiralled	ISO 18752-D ext, ISO 3862-R15, SAE J517-100R15	High fatigue resistance	88
		TWINPOWER/4000	Wire braided	EN 857, ISO 11237-R16/2SC, SAE J517-100R16/R16S	Compact twinned hose structure	90
		TWINPOWER/5000	Wire braided	Exceed ISO 11237 2SC, EN 857 2SC, SAE J517 type 100R16S	Compact twinned hose structure	92
		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
		SHIELDMASTER/6000	Wire braided and spiralled	Isobaric line, special multilayer cover	Outstanding abrasion resistance	100
		XTRAFLEX/4000	Wire spiralled	ISO 18752-C	Extreme flexibility	102
		XTRAFLEX/5000	Wire spiralled	ISO 18752-C	Extreme flexibility	104
		XTRAFLEX/6000	Wire spiralled	ISO 18752-C	Extreme flexibility	106
	SPECIAL APPLICATION	PUSH-FIT PILOT	Textile Wire braided	SAE J30 R6 -	Push-on hose Extreme Lightness	110 112
		TWINPOWER PLUS	Wire braided	EN 857, ISO 11237-2SC, SAE J517-100R16S	Compact twinned hose structure	114
		ETERNITY/2	Wire braided	EN 857, ISO 11237-2SC, SAE J517-100R16S	High service life and reliability	116
		DIAMONDSPiR	Wire spiralled	ISO 3862-R15, SAE J517-100R15	Very high pressure rating	118
		JACKMASTER	Wire braided	IJ-100	Extreme static pressure	120
		FIREND	Wire braided	EN 853, ISO 1436-1SN, SAE J517-100R1AT	Fire suppression systems	122
		GOLDENMINE	Wire spiralled	-	Extreme abrasion resistance	124
		SHIELDMASTER®/2 PLUS MINE	Wire braided	EN 853, ISO 1436-2SN, SAE J517-100R2AT, perf. BCS174, ISO 6805-4	Outstanding abrasion resistance MSHA approved	126
		SHIELDMASTER®/5000 MINE	Wire braided and spiralled	Isobaric line, perf. BCS174, ISO 6805	Outstanding abrasion resistance MSHA approved	128
		SHIELDMASTER®/6000 MINE	Wire spiralled	ISO 3862-R15, SAE J517-100R15, perf. BCS174, ISO 6805-6	Outstanding abrasion resistance MSHA approved	130
		CPH/2SC	Wire braided	-	Cable protection hose	132

HOSES

Universal traditional



Fluid connectors, solid solutions

manuli[®]
HYDRAULICS

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 ■ biological and mineral oils compatibility

Aprobada hasta 1.000.000 de ciclos de impulso ■ Resistencia de presión superior a estándar ■ compatible con aceites minerales y biológicos

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

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

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

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: hydraulischschläuche "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

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	52,4	2,06	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 estándar ■ **Bio** compatible con aceites minerales y biológicos

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

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

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

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)

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

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

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

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

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 acorde a 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

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

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: hydraulischschläuche "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

ES

PRINCIPALES APLICACIONES

Líneas de media y alta presión

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 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

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



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 vacío (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 ■ Vacuumbeständig 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.

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 8-12

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 8-12

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 8-12

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 8-12



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 resistance 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 vacío (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 marcate 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.

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

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

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 APPLICABLES: 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

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



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.



SAE 100 R2 pressure rating ■ Lightness and flexibility

Gama de presión SAE 100 R2 ■ Bajo peso y flexibilidad

SAE 100 R2 Druckstufe aber extrem leicht und flexibel ■ Sehr geringes Gewicht

Pressioni di esercizio a norma SAE 100 R2 ■ Peso contenuto e ottima flessibilità

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: Two high tensile steel braids

COVER: Environment resistant synthetic rubber

APPLICABLE SPECS.: SAE 100 R16 - ISO 11237 R16;

in addition: 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: SAE 100 R16 - ISO

11237 R16; adicionalmente aplica para: DN 16, 19 SAE

100 R17 - ISO 11237 R17

APROBACIONES: GOST-R, LR

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: hydraulischschläuche "Halogen-Free"

NIPPEL: MF2000® - MULTIFIT

SEELE: Ölbeständiges synthetisches Gummi

DRUCKTRÄGER: Zwei hochzugfesteStahldrahtgeflechte

DECKE: Umweltverträgliches synthetisches Gummi

ANGEWANDTE NORM: SAE 100 R16 - ISO 11237 R16;

und dazu: 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: SAE 100 R16 - ISO 11237 R16;

inoltre: DN 16, 19 SAE 100 R17 - ISO 11237 R17

OMOLOGAZIONI: GOST-R, LR

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

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

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

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

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

D

HAUPT-ANWENDUNGSGBIET

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: hydraulischschläuche "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



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

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

D

HAUPT-ANWENDUNGSGEBIET

Saugschlauch Rücklaufleitung

DAUERBETRIEB

-40°F / +212°F -40°C / +100°C

EMPFOHLENE MEDIEN

Mineralöl, Wasser, Öl auf Polyglykollbasis, Synthetik-Esterbasis, Rapsöl Wasser-/Ölemulsionen

NIPPEL: MF2000® - MULTIFIT

SEELE: Ölbeständiges synthetisches Gummi

DRUCKTRÄGER: Zwei hochzugfeste Textileinlagen mit einer Federstahlschleife

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



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 mineral y 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



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

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

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



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

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

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



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

GB

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 APPLICABLES: EN 854 3TE

ISO 4079 3TE

APROBACIONES: GL

BWB: Aprobaciones disponible bajo pedido

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

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

GB

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 líquidos con base de agua

FLUIDOS RECOMENDADOS

Aceite mineral y biológico, ASTM 1, ASTM 3, polyglycol en base de aceite, agua, aceite en emulsión acuosa

ESPIGA: MF2000® - TIPO MULTIFIT

TUBO: Elastomero termoplastico, resistente al aceite

REFUERZO: Dos trenzas de poliéster

CUBIERTA: Elastomero termoplástico resistente al ozono ya la abrasión

ESPECIFICACIONES APLICABLES: EN 855 R7, SAE 100R7

APROBACIONES: GOST-R

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

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

GB

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 líquidos con base de agua

FLUIDOS RECOMENDADOS

Aceite mineral y biológico, ASTM 1, ASTM 3, polyglycol 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

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

HOSES

Extreme traditional



Fluid connectors, solid solutions

manuli[®]
HYDRAULICS

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	375	5430	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	280	4060	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

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

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

ES

PRINCIPALES APLICACIONES

Líneas de baja y media presión, líneas de retorno, en condiciones ambientales de trabajo pesado, instalaciones específicas 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

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 Intermitente) +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: Excede EN 853 1SN - SAE 100 R1AT -

ISO 1436 1SN/R1AT

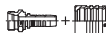
OMOLOGAZIONI: BV, DNV, DNV MED (DN 5÷16), FRAS,

GOST-R, LOBA, MSHA

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 antistatica e atossica ■ Resistenza a pressioni elevate

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 8+51), DGMS

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 8+51), DGMS

ES

PRINCIPALES APLICACIONES

Líneas de media y 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 / +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 8+51), 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: Excede 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 8+51), DGMS

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 antistática y atóxica ■ Resistencia a la presión superior a lo indicado en la Norma

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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,  (DN 6+51), MSHA, FRAS

ES

PRINCIPALES APLICACIONES

Líneas de media y 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 / +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,  (DN 6+51), MSHA, FRAS

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,  (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

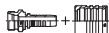
SPECIFICHE: Excede EN 853 2ST - SAE 100 R2A - ISO 1436 2ST/R2A

OMOLOGAZIONI: BV, GOST-R, LOBA, LR,  (DN 6+51), MSHA, FRAS

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

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 específicas 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 APPLICABLES: 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

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:

Übertrefft 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 Intermitente) +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:

Excede 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

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 vacío (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 antistatica e atossica ■ Resistenza al vuoto in accordo a SAE 100 R4, approvata fino al DN 31

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 específicas 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

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

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 antistática y atóxica ■ Resistencia de presión superior a lo indicado a la norma ■ Tamaños hasta DN 76 ■ Resistencia al vacío (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 antistatica e atossica ■ Pressioni d'esercizio migliorate ■ Estensione di gamma fino a DN 76 ■ Resistenza al vuoto (SAE 100 R4) fino a DN 76

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 8+25), MA, FRAS

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), **(B)** (DN 8+25), MA, FRAS

ES

PRINCIPALES APLICACIONES

Líneas de presión de media y alta en espacios reducidos en condiciones ambientales de trabajo pesado, instalaciones específicas 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 APPLICABLES: 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 8+25), 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: Excede 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 8+25), MA, FRAS

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 ■ 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 ■ compatible con aceites minerales y biológicos

Geprüft mit 1.000.000 Impulszyklen ■ Übertagende Abriebfestigkeit-Hohe Ozon- und Wetterbeständigkeit ■ Flammbeständig nach vielen Normen ■ Antistatische und antitoxische Decke ■ 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 ■ compatibilità con oli biologici e minerali

GB

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 performance 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)

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**

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 APPLICABLES: 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).**

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: Excede EN 856 4SP - ISO 3862 4SP

DN16&19: Copertura sottile, eccede performance EN 856 4SP e ISO 3862 4SP

OMOLOGAZIONI: DNV, DNV (MED), FRAS, GOST-R, LOBA, MSHA, RINA (DN 6+16),  MA

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

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	52,4	2,06	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

GB

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 19+51), RINA, MA, DGMS

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 19+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 19+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 Intermitente) +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: Excede EN 856 4SH -ISO 3862 4SH

OMOLOGAZIONI: DNV, DNV (MED), FRAS, GOST-R, LOBA (DN 19+51), LR, MSHA, **(B)** (DN 19+51), RINA, MA, DGMS

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 ■ Übertreffende 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

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

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

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 APPLICABLES: Excede EN 856 R12 - SAE 100 R12 - ISO 3862 R12

APROBACIONES: 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 Intermitente) +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

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 ■ Übertreffende 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

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 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),

(B) (DN 31+51), MSHA

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 Polyglykollbasis, 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),

(B) (DN 31+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),

(B) (DN 31+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 Intermitente) +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: Excede 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),

(B) (DN 31+51), MSHA

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 ■ Übertroffene 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

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,  (DN 38), MA

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: Übertrefft SAE 100 R15 - ISO 3862 R15

ZULASSUNGEN: ABS, BV, BV (MED), DNV, FRAS, GL, GOST-R, LOBA, LR, MSHA,  (DN 38), 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,  (DN 38), 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,  (DN 38), MA

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



																
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

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.



Eductor 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

D

HAUPT-ANWENDUNGS-GEBIET

Niedriger 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 Intermitente) +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: Excede 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

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



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

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



Eductor 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

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 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

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

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: Excede EN 853 2SN - SAE 100 R2AT -

ISO 1436-1 2SN/R2AT

OMOLOGAZIONI: ABS, BV, BV (MED), DNV, GL, GOST-R, LR, MSHA



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

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

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: Übertrifft 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

HOSES

Extreme isobaric



Fluid connectors, solid solutions

manuli[®]
HYDRAULICS

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 vacío (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

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

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

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 vacío (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

GB

MAIN APPLICATIONS

Medium and high pressure hydraulic lines with installation constraints, pilot lines, return, drain and suction 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

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 trecce 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

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 pressure=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 mayor compatibilidad con la gama de aceites hidráulicos ■ Superior resistencia a la abrasión ■ 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 curvatura 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 pressione 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

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

D

ANWENDUNGSBEREICH

Hochleistungs-Druckleitungen, hydrostatische Antriebe, Baumaschinen, Hydraulikpressen, Bohrergeräte, 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

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 sintético 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

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 condizioni 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 trecce 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 tipo100R15, ISO 3862 R15, ISO 18752-D extension

OMOLOGAZIONI: MSHA, GOST-R

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 abrasión 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

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 type 100R16, DN 12: ISO 11237 2SC, EN 857 2SC, SAE J517 type 100R16S

TYPE APPROVALS: GOST-R

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 Typ 100R16, DN 12: ISO 11237 2SC, EN 857 2SC, SAE J517 Typ 100R16S

ZULASSUNGEN: 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 abrasión 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

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

TUBO: 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 type 100R16, DN 12: ISO 11237 2SC, EN 857 2SC, SAE J517 type 100R16S

OMOLOGAZIONI: GOST-R

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

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

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

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 abrasión y a la intemperie

ESPECIFICACIONES APLICABLES: excede ISO 11237

2SC, EN 857 2SC, SAE J517 tipo 100R16S

APROBACIONES: 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

TUBO: 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

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

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 outstanding abrasion resistance

APPLICABLE SPECS.: MANULI® Design

TYPE APPROVALS: GOST-R

D

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

EMPFÖHLENE MEDIEN

Mineralöl, Pflanzenöl, Rapsöl, Glykol, Öl auf Polyglykolbasis, Wasser/Ölemulsion, Synthetik-Esterbasis, Wasser

WICHTIG: hydraulischschläuche "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

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 protección 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 APPLICABLES: Diseño MANULI®

APROBACIONES: 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

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

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 outstanding abrasion resistance

APPLICABLE SPECS.: MANULI® Design

TYPE APPROVALS: GOST-R

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: hydraulischschläuche "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

ES

PRINCIPALES APLICACIONES

Líneas de baja presión con extremas condiciones de abrasión (Ej. Mangueras rozando entre sí, 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

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

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

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 outstanding abrasion resistance

APPLICABLE SPECS.: MANULI® Design

TYPE APPROVALS: GOST-R

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

EMPOFOHLENE MEDIEN

Mineralöl, Pflanzenöl, Glykol, Öl auf Polyglykolbasis, Wasser/Mineralölemulsion, Synthetik-Esterbasis bis +212°F / +100°C Wasser

WICHTIG: hydraulischschläuche "Halogen-Free"

NIPPEL: MF2000® - MULTIFIT (DN 6÷16)

MF2000® - INTERLOCK PLUS (DN 19÷25)

SEELE: Ölbeständiges synthetisches Gummi

DRUCKKRÄGER: 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

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

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 composta bi-strato con eccellente resistenza all'abrasione

SPECIFICHE: MANULI® Design

OMOLOGAZIONI: GOST-R

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

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 outstanding abrasion resistance

APPLICABLE SPECS.: MANULI® Design

TYPE APPROVALS: GOST-R

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: hydraulischschläuche "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

ES

PRINCIPALES APLICACIONES

Líneas de presión para trabajo pesado con extremas condiciones de abrasión (Ej. Mangueras rozando entre sí, 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

Acete 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

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

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

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

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 Polyglykollbasis, 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

COPIERTURA: Gomma sintetica con alta resistenza all'ozono, agli agenti atmosferici e al calore

SPECIFICHE: MANULI® Design, ISO 18752-C

OMOLOGAZIONI: MSHA, GOST-R

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

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

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 Polyglykollbasis, 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

COPIERTURA: Gomma sintetica con alta resistenza

all'ozono, agli agenti atmosferici e al calore

SPECIFICHE: MANULI® Design, ISO 18752-C

OMOLOGAZIONI: MSHA, GOST-R

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

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

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

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 Polyglykollbasis, 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

HOSES

Extreme special applications



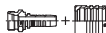
Fluid connectors, solid solutions

manuli[®]
HYDRAULICS

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.

GB

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)

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)

ES

PRINCIPALES APLICACIONES

Manguera push-on usada en líneas de baja presión, de retorno y de drenaje. Usada en sistemas de combustible 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)

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)



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 Altersbeständigkeit ■ 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

GB

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

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 Polyglykollbasis, 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

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

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

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 curvatura ■ Aprobado con 500.000 ciclos de impulsos flexibles (1,33 WP), 125.000 ciclos flexibles (método de prueba Manuli) ■ Superior resistencia a la presión 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 abrasión 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 cidi in con dizioni rotanti (1,33 pressione di esercizio), 125.000 cidi 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

GB

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 abrasión y a la intemperie

ESPECIFICACIONES APLICABLES: excede ISO 11237 2SC, EN 857 2SC, SAE J517 tipo 100R16S

APROBACIONES: GOST-R, MSHA

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



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
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 ■ Acentuada 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 ai test di impulsi rotanti con ghiera con pelatura (M00120)

GB

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 +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: 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

D

HAUPT-ANWENDUNGSGEBIET

Hochdruckleitungen in schwierigen Einbausituationen und schweren OEM Anwendungen

DAUERBETRIEB

-40°F / +250°F -40°C / +121°C

MAX. BETRIEBSTEMPERATUR:

+275°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® - MULTIFIT

SEELE: Ölbeständiges synthetisches 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: Excede EN 857 2SC, SAE 100 R16S e ISO 11237 2SC

OMOLOGAZIONI: DNV, DNV (MED), GOST-R, MSHA, LOBA

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
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 atóxica ■ 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

GB

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

D

HAUPT-ANWENDUNGSGEBIET

Höchstdruckleitungen unter erschwerenden 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 synthetisches 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), Übertrefft ISO 3862 R15

ZULASSUNGEN: 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

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 Intermitente) +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)

COPIERTURA: 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



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 hidráulicos ■ Extrema presión estática ■ 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

GB

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

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: hydraulischschläuche "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

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 APPLICABLES: IJ100 para levantamiento hidráulico

APROBACIONES: 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



								
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 15N 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 15N ■ Cubierta roja con retardante a la llama ■ Excelentes características para aplicaciones hidráulicas estándar ■ Marcada en relieve ■ Racores para No pelar MF2000 (dos piezas)

Extrem hohe Druckbeständigkeit gemäß SAE 100R1S und ISO 15N ■ Feuerhemmende rote Außenhülle ■ Ausgezeichnete Leistung bei allen hydraulischen Standardanwendungen ■ Nicht entfernbare eingeprägte Kennzeichnung ■ MF2000 (zweitellig) Nichtschäl-Fassungen und Armaturen

Resistenza alla pressione secondo le norme SAE 100R1S e ISO 15N ■ Copertura rossa ritardante di infiammabilità ■ Eccellenti performance per tutte le comuni applicazioni idrauliche ■ Marcatura in rilievo indelebile ■ Raccordi senza pelatura esterna MF2000 (due pezzi)

GB

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

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

ES

PRINCIPALES APLICACIONES

Use en los sistemas de supresión de fuego de vehículos móviles, equipos para minería, 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, aceites 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 sintético 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

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-inflammabili 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

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 Verarbeitungs- und Handlungsbedingungen

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

GB

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 abrasión y a la intemperie

ESPECIFICACIONES APLICABLES: Diseño MANULI®

APROBACIONES: MSHA, GOST-R

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 Synthetikumgummi

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 mineraria, 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

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
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

Aprobación 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 relieve 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 ■ Übertagende Ozon- und Abriebbeständigkeit ■ Einfache Montage und leichter Einbau (es sind keine Schutzhandschuhe erforderlich) ■ Nicht entfernbare eingepreßte 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

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 resistencia

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)

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 Stahlrahtgeflecht

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 Stahlrahteinlagen 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)

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 relieve

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

GB

MAIN APPLICATIONS

High pressure lines with installation 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

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 outstanding 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

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 Polyglykollbasis, 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: Gemischte 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

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

Aprobación 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 relieve 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 ■ Übertreffende 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

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, , MA requested)

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 hochzugfesteste Streifen aus Stahldrahtgeflecht

DECKE: Zweischichtiger Kompositaufbau mit ausgezeichnetem 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 Stahldrahtlagen für den Kohlebergbau)

ZULASSUNGEN: MSHA, LOBA, GOST-R (FRAS, , 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, , MA requerido)

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 composta 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, , MA richiesto)



					
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 ■ aprobación 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

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 resistencia

CUBIERTA: Caucho sintético azul con alta resistencia al ozono y a la intemperie

ESPECIFICACIONES APLICABLES: diseño Manuli

APROBACIONES: LOBA, MSHA, GOST-R

D

HAUPT-ANWENDUNGSGEBIET

Kabelschutzhschläuche für Bergbauanwendungen

DAUERBETRIEB

-40°F / +212°F -40°C / +100°C

NIPPEL: MF2000® - MULTIFIT

SEELE: Ölbeständiges synthetisches Elastomer

DRUCKTRÄGER: Zwei hochzugfeste Streifen aus

Stahlendrahtgeflecht

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

FITTINGS

MF2000®



Fluid connectors, solid solutions

manuli®
HYDRAULICS

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 für 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). Ergänzenze Produkte nach der japanischen Norm JIS (Japanese Industrial Standard), Französische NF Spezifikationen und einige Flanscharmaturen nach OEM-Vorschriften sind ebenfalls verfügbar.

Für Drahtgeflechschläuche 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.

IT

La gamma raccordi MRI 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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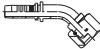
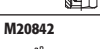
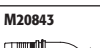
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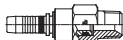
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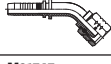
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MF2000® XTRALOCK TYPE FERRULE

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	250
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MF2000® XTRALOCK TYPE INSERTS

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M68540



45° XTRAFLANGE (SAE J518 CODE 62 - 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)

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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 GETEILTE FLANSCHHÄLFTEN - SAE J518 / ISO 6162-1
SEMIFLANGIA ISO/SAE CODE 61- SAE J518 / ISO 6162-1

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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 GETEILTE FLANSCHHÄLFTEN - SAE J518 / ISO 6162-2
SEMIFLANGIA ISO/SAE CODE 62 - SAE J518 / ISO 6162-2

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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

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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 CODE 62

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O820..



ANTI-KINK SLEEVE
CASQUILLO ANTI-COLAPSO
ABKNICKSCHUTZ-FÜHRUNG
GHIERA ANTI-KINK

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MF2000® PUSH-LOCK TYPE INSERT

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

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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)

260

L20593



90° BSP FEMALE SWEPT ELBOW 60° CONE - BS5200/ISO 12151-6 (SLIP-ON NUT)
HEMBRA BSP CODO DE 90° ASIENTO A 60° - 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)

261

L20543



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)
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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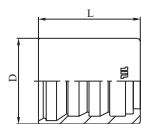
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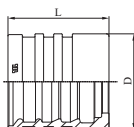
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M00110/M00120

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			



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			

FERRULE

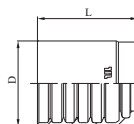
M03400

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	75,0			



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 hülsen ohne abschälen für 1-drahtgeflechschläuche 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).

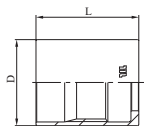
M00310

NO-SKIVE FERRULE FOR TEXTILE BRAID HOSES

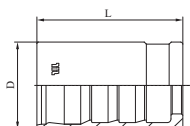
CASQUILLO SIN PELADO PARA MANGUERAS CON REFUERZO TEXTIL TRENZADO

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

PART. REF.	HOSE BORE			DIMENSIONS mm						
	DN	inch	Size		D	L				
M00820-03	5	3/16"	- 03		14,0	26,4				
M00830-04	6	1/4"	- 04		18,0	29,6				
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				

new
new

BS STANDARD CONNECTIONS

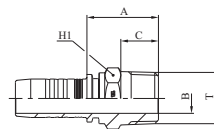
M10710

BSP MALE TAPERED - ISO 7

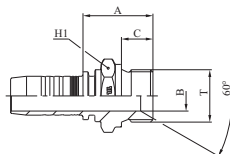
MACHO BSP (BSPT) ROSCA CONICA - ISO 7

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			H ₁
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



M10510

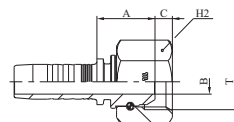
BSP MALE PARALLEL 60° CONE SEAT - BS5200 / ISO 8434-6
 MACHO BSP PARALLELO ASIENTO A 60° - BS5200 / ISO 8434-6
 AGR 60° INNENKONUS (BSP-GEWINDE NACH BS5200 / ISO 8434-6)
 MASCHIO GAS CILINDRICO 60° - BS5200 / ISO 8434-6

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H ₁	
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	31	2"	- 32	2" - 11	46,0	53,9	25,0		70	

BS STANDARD CONNECTIONS

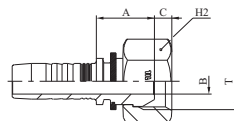
M20512

BSP FEMALE 60° CONE - BS5200 / ISO 12151-6 (THRUST-WIRE NUT)
 HEMBRA BSP ASIENTO A 60° - 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)

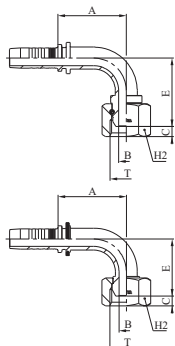


M20513

BSP FEMALE 60° CONE - BS5200 / ISO 12151-6 (SLIP-ON NUT)
 HEMBRA BSP ASIENTO A 60° - 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



M20592

90° BSP FEMALE SWEPT ELBOW 60° CONE - BS5200 / ISO 12151-6 (THRUST-WIRE NUT)
 HEMBRA BSP CODO DE 90° ASIENTO A 60° - 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

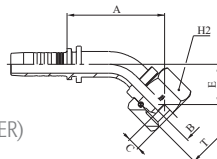
90° BSP FEMALE SWEPT ELBOW 60° CONE - BS5200 / ISO 12151-6 (SLIP-ON NUT)
 HEMBRA BSP CODO DE 90° ASIENTO A 60° - BS5200 / ISO 12151-6 (TUERCA LIBRE)
 DKR 90° BOGEN 60° KONUS - (BSP-GEWINDE NACH BS5200 / ISO 12151-6, HINTERLEGTE MUTTER)
 FEMMINA GAS 90° CONO 60° - BS5200 / ISO 12151-6 (DADO PASSANTE)

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

BS STANDARD CONNECTIONS

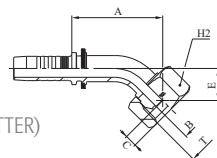
M20542

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)



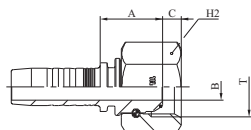
M20543

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)



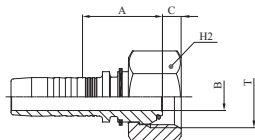
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H ₂
M20542-03-02	5	3/16"	- 03	1/8" - 28	3,1	31,0	4,4	15,0		14
M20543-03-04	5	3/16"	- 03	1/4" - 19	4,0	35,5	5,4	14,5		19
M20542-04-02	6	1/4"	- 04	1/8" - 28	3,1	35,5	4,4	14,5		14
M20543-04-04	6	1/4"	- 04	1/4" - 19	4,0	36,0	5,4	15,0		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

M20812



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 -
 (BSP-GEWINDE NACH BS5200 / ISO 12151-6 GESTIFTETE MUTTER)
 FEMMINA GAS CONO 60° O-RING - BS5200 / ISO 12151-6 (DADO SPINATO)

M20813



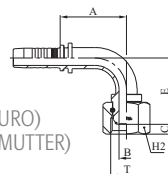
BSP O-RING FEMALE 60° CONE - BS5200 / ISO 12151-6 (SLIP-ON NUT)
 HEMBRA BSP CON O-RING ASIENTO A 60° - BS5200 / ISO 12151-6 (TUERCA LIBRE)
 DKOR 60° KONUS MIT O-RING
 (BSP-GEWINDE NACH BS5200 / ISO 12151-6 HINTERLEGTE MUTTER)
 FEMMINA GAS CONO 60° O-RING BS5200 / ISO 12151-6 (DADO PASSANTE)

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

BS STANDARD CONNECTIONS

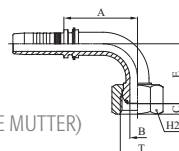
M20892

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)



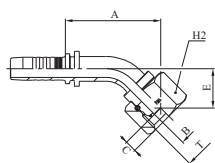
M20893

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)



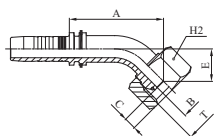
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H ₂
M20893-03-04	5	3/16"	- 03	1/4" - 19	4,0	29,0	4,9	29,0		19
M20893-04-04	6	1/4"	- 04	1/4" - 19	4,0	28,5	4,9	28,5		19
M20892-06-04	10	3/8"	- 06	1/4" - 19	4,0	35,5	4,9	33,0		19
M20893-06-06	10	3/8"	- 06	3/8" - 19	7,0	35,5	6,1	36,0		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

M20842



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
 (BSP-GEWINDE NACH BS5200 / ISO 12151-6, GESTIFTETE MUTTER)
 FEMMINA GAS 45° CONO 60° O-RING
 BS5200 / ISO 12151-6 (DADO SPINATO)

M20843



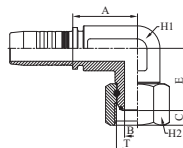
45° BSP O-RING FEMALE SWEPT ELBOW 60° CONE BS5200 / ISO 12151-6 (SLIP-ON NUT)
 HEMBRA BSP CON O-RING CODO DE 45° ASIENTO A 60°
 BS5200 / ISO 12151-6 (TUERCA LIBRE)
 DKOR 45° BOGEN 60° KONUS MIT O-RING
 (BSP-GEWINDE NACH BS5200 / ISO 12151-6, HINTERLEGTE MUTTER)
 FEMMINA GAS 45° CONO 60° O-RING
 BS5200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

BS STANDARD CONNECTIONS

M20882F

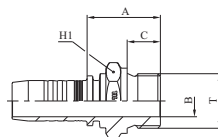
90° BSP O-RING FEMALE COMPACT ELBOW 60° CONE
 BS5200 / ISO 12151-6 (THRUST-WIRE NUT)
 HEMBRA BSP CON O-RING CODO COMPACTO DE 90° ASIENTO A 60°
 BS5200 / ISO 12151-6 (TUERCA CON SEGURO)
 DKOR 90° KOMPAKTBOGEN 60° KONUS MIT O-RING
 (BSP-GEWINDE NACH BS5200 / ISO 12151-6, GESTIFTETE MUTTER)
 FEMMINA GAS 90° CONO 60° O-RING TIPO COMPATTO
 BS5200 / ISO 12151-6 (DADO SPINATO)



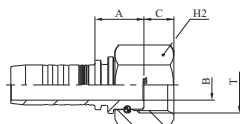
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E	H ₁	H ₂
M20882-04-04F	6	1/4"	- 04	1/4" - 19	4,0	20,0	4,9	22,0	14	19
M20882-06-06F	10	3/8"	- 06	3/8" - 19	7,0	23,1	6,1	27,5	19	22
M20882-08-08F	12	1/2"	- 08	1/2" - 14	9,3	24,9	6,5	31,1	22	27
M20882-10-10F	16	5/8"	- 10	5/8" - 14	12,5	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

BSP MALE FLAT SEAT
 MACHO BSP CARA PLANA
 AGR FLACH DICHEND
 MASCHIO GAS CILINDRICO SEDE PIANA

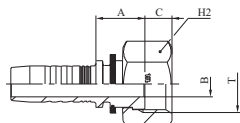


PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H ₁	
M10610-04-04	6	1/4"	- 04	1/4" - 19	6,0	25,5	11,0		19	
M10610-06-06	10	3/8"	- 06	3/8" - 19	9,5	28,1	12,0		22	
M10610-06-08	10	3/8"	- 06	1/2" - 14	13,0	30,6	14,0		27	
M10610-08-08	12	1/2"	- 08	1/2" - 14	13,0	31,1	14,0		27	
M10610-12-12	19	3/4"	- 12	3/4" - 14	18,0	35,5	16,0		32	



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		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

SAE STANDARD CONNECTIONS

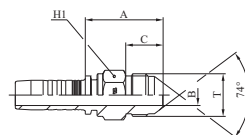
M12510

JIC MALE 37° CONE - SAE J516 / ISO 12151-5

MACHO JIC ASIENTO A 37° - SAE J516 / ISO 12151-5

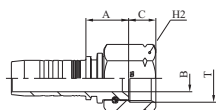
AGJ 37° AUSSENKONUS (UNF-GEWINDE NACH SAE J516 / ISO 12151-5)

MASCHIO JIC CONO 37° - SAE J516 / ISO 12151-5



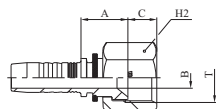
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H ₁	
M12510-04-04	6	1/4"	- 04	7/16" - 20	4,0	28,0	14,0		12	
M12510-04-05	6	1/4"	- 04	1/2" - 20	5,5	29,0	14,0		14	
M12510-04-06	6	1/4"	- 04	9/16" - 18	7,0	29,0	14,0		17	
M12510-05-04	8	5/16"	- 05	7/16" - 20	4,0	29,0	14,0		14	
M12510-05-05	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	

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° DICKKOPF (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° DICKKOPF (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				H ₂
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

SAE STANDARD CONNECTIONS

M22711

JIC FEMALE 37° CONE SEAT DOUBLE HEXAGON - SAE J516 / ISO 12151-5 (CRIMPED-BACK NUT)

HEMBRA JIC ASIENTO A 37° 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 37° DOBLE TUERCA

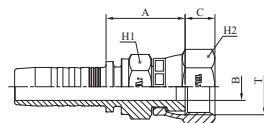
SAE J516 / ISO 12151-5 (TUERCA TIPO COMPACTO PRENSADA)

DKJ (KOMPAKT) 37° MIT KONTERSECHSKANT

(UNF GEWINDE NACH SAE J516 / ISO 12151-5, VORGEKRIMPTE MUTTER)

FEMMINA JIC CONO 37° DOPPIO ESAGONO

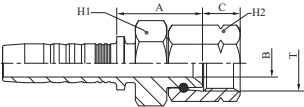
SAE J516 / ISO 12151-5 (DADO PRESSATO COMPATTO)



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

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

SAE STANDARD CONNECTIONS

M22712

JIC FEMALE 37° CONE SEAT DOUBLE HEXAGON SAE J516 / ISO 12151-5 (THRUST-WIRE NUT)

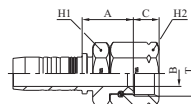
HEMBRA JIC ASIENTO A 37° DOBLE TUERCA SAE J516 / ISO 12151-5 (TUERCA CON SEGURO)

DKJ 37° DK MIT KONTERSECHSKANT

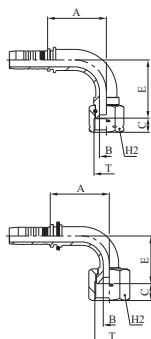
(UNF-GEWINDE NACH SAE J516 / ISO 12151-5, GESTIFTETE MUTTER)

FEMMINA JIC CONO 37° DOPPIO ESAGONO

SAE J516 / ISO 12151-5 (DADO SPINATO)



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		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	28,0	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



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° DICKKOPF (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° DICKKOPF (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

SAE STANDARD CONNECTIONS

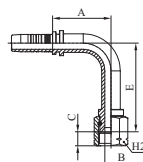
M24792

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)



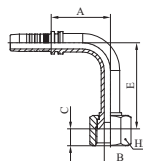
M24793

90° JIC FEMALE LONG DROP ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5 (SLIP-ON NUT)

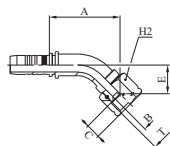
HEMBRA JIC CODO LARGO DE 90° ASIENTO A 37° - SAE J516 / ISO 12151-5 (TUERCA LIBRE)

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)

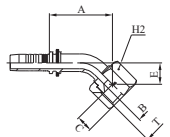


PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H ₂
M24792-04-04	6	1/4"	- 04	7/16" - 20	4,0	28,5	8,2	45,0		17
M24792-04-05	6	1/4"	- 04	1/2" - 20	4,0	28,5	9,2	45,0		17
M24793-04-06	6	1/4"	- 04	9/16" - 18	4,0	29,5	9,8	55,5		19
M24792-06-06	10	3/8"	- 06	9/16" - 18	7,0	35,5	9,2	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



M22542

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° 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 45° ASIENTO A 37° - 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

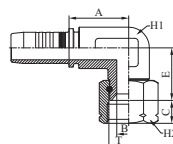
MULTIFIT TYPE



SAE STANDARD CONNECTIONS

M22582F

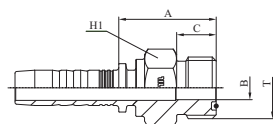
90° JIC FEMALE COMPACT ELBOW 37° CONE SEAT
 SAE J516 / ISO 12151-5 (THRUST-WIRE NUT)
 HEMBRA JIC CODO COMPACTO DE 90° ASIENTO A 37°
 SAE J516 / ISO 12151-5 (TUERCA CON SEGURO)
 DKJ 90° KOMPAKT BOGEN 37° DICHTKOPF
 (UNF-GEWINDE NACH SAE J516 / ISO 12151-5, GESTIFTETE MUTTER)
 FEMMINA JIC 90° TIPO COMPATTO 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

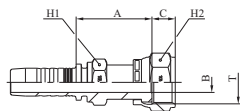
M12410

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	

M22411



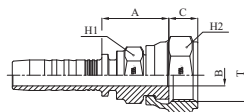
ORFS FEMALE - SAE J516 / ISO 12151-1 PULLBACK TYPE (CRIMPED BACK-NUT)
 HEMBRA ORFS - SAE J516 / ISO 12151-1 CUELLO LARGO (TUERCA PRENSADA)
 ORFS IG - SAE J516 / ISO 12151-1 RÜCKZUGSAUSFÜHRUNG (VERPRESSTE MUTTER)
 FEMMINA ORFS - SAE J516 / ISO 12151-1 VERSIONE RETRAIBILE (DADO PRESSATO)

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

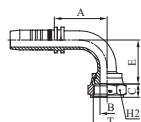
SAE STANDARD CONNECTIONS

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)

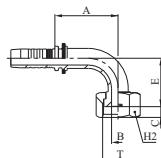


PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H ₁	H ₂
M27411-04-04	6	1/4"	- 04	9/16" - 18	4,0	20,5	8,0		13	19
M27411-04-06	6	1/4"	- 04	11/16" - 16	7,0	22,0	9,5		16	22
M27411-05-06	8	5/16"	- 05	11/16" - 16	7,0	25,5	9,5		16	22
M27411-06-06	10	3/8"	- 06	11/16" - 16	7,0	26,0	9,5		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



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

SAE STANDARD CONNECTIONS

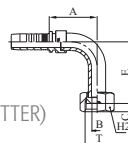
M24493*

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)

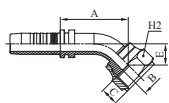
FEMMINA ORFS A 90° CURVA LUNGA - SAE J516 / ISO 12151-1 (DADO PASSANTE)



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

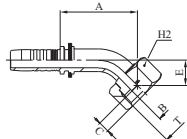
* Brazed solution / Con soldadura / Lötäusführung / Con saldatura

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

SAE STANDARD CONNECTIONS

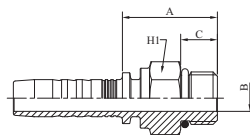
M13010

SAE MALE O-RING BOSS TYPE - SAE J516 / ISO 11926

MACHO SAE CON O-RING TIPO BOSS - SAE J516 / ISO 11926

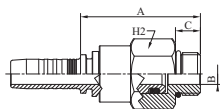
AGJO SAE O-RING (UNF-GEWINDE NACH SAE J516 / ISO 11926)

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	

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

MULTIFIT TYPE



SAE STANDARD CONNECTIONS

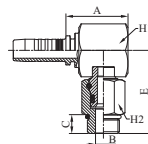
M14390*

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 / Löttauführung - Nicht zu benutzen als Drehverschraubung / Con soldadura - Da non usare come applicazione rotante

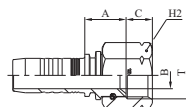
M22612

SAE FEMALE 45° CONE SEAT - SAE J516/J512 (THRUST-WIRE NUT)

HEMBRA SAE ASIENTO A 45° - SAE J516/J512 (TUERCA CON SEGURO)

DKJ DICKTKOPF GERADE 45° KONUS (UNF-GEWINDE NACH J516/J512, GESTIFTETE MUTTER)

FEMMINA SAE CONO 45° - SAE J516/J512 (DADO SPINATO)



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

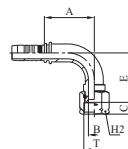
M22692

90° SAE FEMALE SWEPT ELBOW 45° CONE SEAT - SAE J516/J512 (THRUST-WIRE NUT)

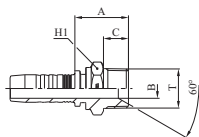
HEMBRA SAE CODO DE 90° ASIENTO A 45° - SAE J516/J512 (TUERCA CON SEGURO)

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



M12810

NPTF MALE 60° CONE SEAT - SAE J516/J514

MACHO NPTF ASIEN TO 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				
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	DN	inch	Size	T	B	A	C		H ₁	
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	35,4	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	

SAE STANDARD CONNECTIONS

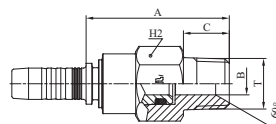
M14110R*

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

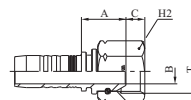
M22812

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)

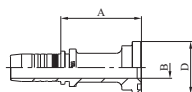
FEMMINA NPSM CONO 60° - SAE J516/J514 (DADO SPINATO)



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

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			

SAE STANDARD CONNECTIONS

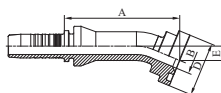
M23321

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

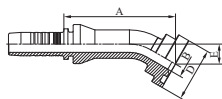
FLANGIA 22,5° ISO/SAE CODE 61 - SAE J516 / ISO 12151-3



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

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			

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SAE STANDARD CONNECTIONS

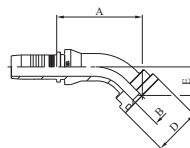
M23341

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

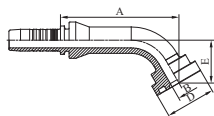
FLANGIA 45° ISO/SAE CODE 61 - SAE J516 / ISO 12151-3



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			

* 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

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			

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SAE STANDARD CONNECTIONS

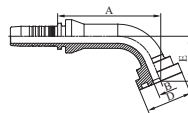
M23371

67,5° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3

BRIDA 67,5° ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3

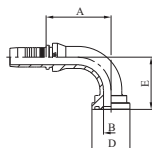
67,5° ISO/SAE CODE 61 FLANSCH - SAE J516 / ISO 12151-3

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		

* 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

SAE STANDARD CONNECTIONS

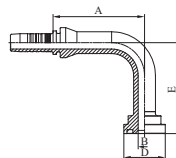
M23391 LONG DROP

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			

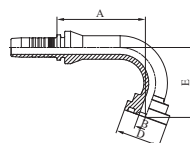
M23301P

110° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3

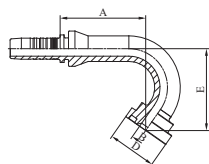
BRIDA 110° ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3

110° ISO/SAE CODE 61 FLANSCH - SAE J516 / ISO 12151-3

FLANGIA 110° ISO/SAE CODE 61 - SAE J516 / ISO 12151-3



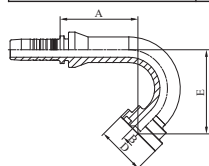
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm						
	DN	inch	Size		B	A	D	E			
M23301-08-12P	12	1/2"	- 08	3/4"	15,0	47,5	38,0	48,5			
M23301-12-12P	19	3/4"	- 12	3/4"	15,0	89,0	38,0	62			
M23301-12-16P	19	3/4"	- 12	1"	20,0	89,0	44,6	62			
M23301-16-16P	25	1"	- 16	1"	19,8	88,5	44,6	79			
M23301-16-20133P	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			



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

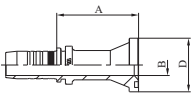
135° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3
 BRIDA 135° ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3
 135° ISO/SAE CODE 61 FLANSCH - SAE J516 / ISO 12151-3
 FLANGIA 135° ISO/SAE CODE 61 - SAE J516 / ISO 12151-3

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		

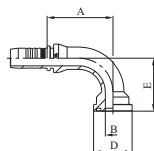
SAE STANDARD CONNECTIONS

M23611

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



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			



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

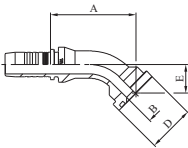
FLANGIA 90° ISO/SAE CODE 62 - SAE J516 / ISO 12151-3

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		

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		

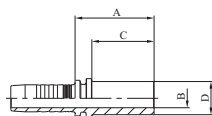
M22010

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	26,0			
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			

DIN STANDARD CONNECTIONS

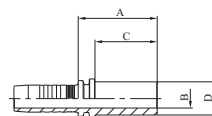
M22110

METRIC STANDPIPE HEAVY DUTY - DIN 2353 / ISO 8434-1

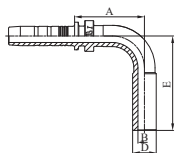
ESPIGA LISA METRICA RECTA SERIE PESADA - DIN 2353 / ISO 8434-1

BES - DIN 2353 / ISO 8434-1

ESTREMITÀ TUBOLARE SERIE PESANTE - DIN 2353 / ISO 8434-1



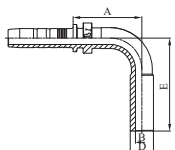
PART. REF.	HOSE BORE			PIPE	DIMENSIONS mm					
	DN	inch	Size	D	B	A	C			
M22110-03-08	5	3/16"	- 03	8	3,0	30,6	24,0			
M22110-03-10	5	3/16"	- 03	10	3,0	29,5	22,0			
M22110-04-08	6	1/4"	- 04	8	4,0	31,5	24,0			
M22110-04-10	6	1/4"	- 04	10	4,0	33,5	26,0			
M22110-04-12	6	1/4"	- 04	12	7,0	33,5	26,0			
M22110-05-12	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	55,3	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			



M22090

90° METRIC STANDPIPE LIGHT DUTY - DIN 2353 / ISO 8434-1
 ESIPIGA 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			



M22190

90° METRIC STANDPIPE HEAVY DUTY - DIN 2353 / ISO 8434-1
 ESIPIGA 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			

DIN STANDARD CONNECTIONS

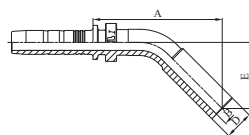
M22040

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			

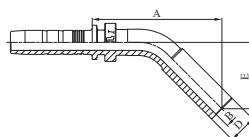
M22140

45° METRIC STANDPIPE HEAVY DUTY - DIN 2353 / ISO 8434-1

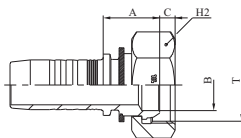
ESPIGA LISA METRICA SERIE PESADA CODO DE 45° - DIN 2353 / ISO 8434-1

BES 45° BOGEN - DIN 2353 / ISO 8434-1

ESTREMITÀ TUBOLARE 45° SERIE PESANTE - DIN 2353 / ISO 8434-1



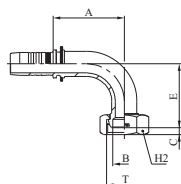
PART. REF.	HOSE BORE			PIPE	DIMENSIONS mm					
	DN	inch	Size	D	B	A	E			
M22140-04-08	6	1/4"	- 04	8	4,0	42,0	22,0			
M22140-04-10	6	1/4"	- 04	10	6,0	44,0	24,0			
M22140-06-14	10	3/8"	- 06	14	9,3	54,5	29,0			
M22140-08-16	12	1/2"	- 08	16	10,5	61,0	30,0			
M22140-10-20	16	5/8"	- 10	20	12,5	69,0	36,0			
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			



M21013

METRIC FEMALE 60° CONE - DIN 20078/3863
 HEMBRA METRICA ASIEN TO 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			H ₂
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° ASIEN TO A 60° - DIN 20078/3863
 DKM 90° BOGEN 60° KONUS - DIN 20078/3863
 FEMMINA METRICA 90° CONO 60° - DIN 20078/3863

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H ₂
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

DIN STANDARD CONNECTIONS

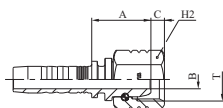
M21312

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)



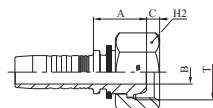
M21313

METRIC FEMALE MULTISEAL - DIN 20078/3868 (SLIP-ON NUT)

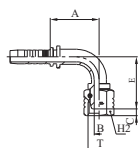
HEMBRA METRICA ASIENTO UNIVERSAL - DIN 20078/3868 (TUERCA LIBRE)

DKL UNIVERSALKONUS - DIN 20078/3868 (HINTERLEGTE MUTTER)

FEMMINA METRICA CONO UNIVERSALE - DIN 20078/3868 (DADO PASSANTE)

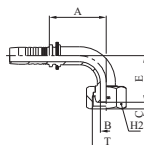


PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C			H ₂
M21313-03-12	5	3/16"	- 03	M 12x1,5	6	3,0	18,6	3,7			14
M21312-04-12	6	1/4"	- 04	M 12x1,5	6	4,0	19,5	4,0			17
M21313-04-14	6	1/4"	- 04	M 14x1,5	8	4,0	19,5	3,8			17
M21313-04-16	6	1/4"	- 04	M 16x1,5	10	4,0	19,5	4,0			19
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



M21392

90° METRIC FEMALE SWEPT ELBOW MULTISEAL DIN 20078/3868 (THRUST-WIRE NUT)
 HEMBRA METRICA CODO DE 90° 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

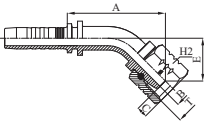
90° METRIC FEMALE SWEPT ELBOW MULTISEAL DIN 20078/3868 (SLIP-ON NUT)
 HEMBRA METRICA CODO DE 90° ASIENTO UNIVERSAL DIN 20078/3868 (TUERCA LIBRE)
 DKL UNIVERSALKONUS 90° BOGEN - DIN 20078/3868 (HINTERLEGTE MUTTER)
 FEMMINA METRICA 90° CONO UNIVERSALE - DIN 20078/3868 (DADO PASSANTE)

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

DIN STANDARD CONNECTIONS

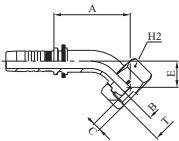
M21342

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

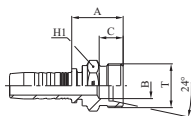
45° METRIC FEMALE SWEPT ELBOW MULTISEAL DIN 20078/3868 (SLIP-ON NUT)
HEMBRA METRICA CODO DE 45° ASIENTO UNIVERSAL DIN 20078/3868 (TUERCA LIBRE)
DKL UNIVERSALKONUS 45° BOGEN - DIN 20078/3868 (HINTERLEGTE MUTTER)
FEMMINA METRICA 45° CONO UNIVERSALE - DIN 20078/3868 (DADO PASSANTE)



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

M11110

METRIC MALE 24° CONE SEAT LIGHT DUTY - DIN 20066 / ISO 12151-2
 MACHO METRICO ASIENTO A 24° SERIE LIGERA DIN 20066 / ISO 12151-2
 CEL - DIN 20066 / ISO 12151-2
 MASCHIO METRICO 24° SERIE LEGGERA - DIN 20066 / ISO 12151-2

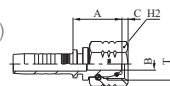


PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C		H ₁	H ₂
M11110-03-12	5	3/16"	- 03	M 12x1,5	6	3,0	21,0	10,0		14	
M11110-04-12	6	1/4"	- 04	M 12x1,5	6	4,0	21,5	10,0		14	
M11110-04-14	6	1/4"	- 04	M 14x1,5	8	4,0	21,5	10,0		14	
M11110-04-16	6	1/4"	- 04	M 16x1,5	10	7,0	23,5	11,0		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	

DIN STANDARD CONNECTIONS

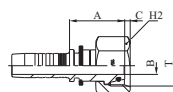
M21512

METRIC O-RING FEMALE 24° CONE LIGHT DUTY - DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT)
 HEMBRA METRICA CON O-RING ASIENTO A 24° 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 24° 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

M21592

90° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE LIGHT DUTY

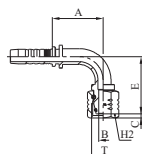
DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT)

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

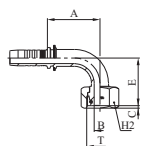
DIN 20066 / ISO 12151-2 (SLIP-ON NUT)

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)



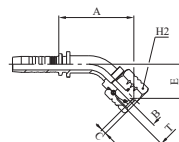
PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
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	DN	inch	Size	T	mm	B	A	C	E		H ₂
M21593-03-12	5	3/16"	- 03	M 12x1,5	6	3,0	26,0	1,7	30,0		14
M21593-03-14	5	3/16"	- 03	M 14x1,5	8	4,0	29,0	1,7	31,5		17
M21592-04-12	6	1/4"	- 04	M 12x1,5	6	3,0	28,5	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
M21592-16-45	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

DIN STANDARD CONNECTIONS

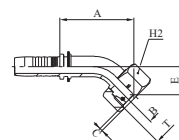
M21542

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)



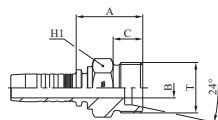
M21543

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

M11210



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		H ₁	
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	

DIN STANDARD CONNECTIONS

M21612

METRIC O-RING FEMALE 24° CONE HEAVY DUTY

DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT)

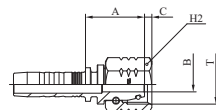
HEMBRA METRICA CON O-RING ASIENTO A 24° SERIE PESADA

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)

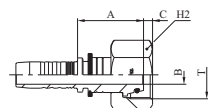
HEMBRA METRICA CON O-RING ASIENTO A 24° SERIE PESADA

DIN 20066 / ISO 12151-2 (TUERCA LIBRE)

DKOS - DIN 20066 / ISO 12151-2 (HINTERLEGTE MUTTER)

FEMMINA METRICA CONO 24° O-RING SERIE PESANTE

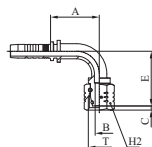
DIN 20066 / ISO 12151-2 (DADO PASSANTE)



PART. REF.	HOSE BORE		THREAD	PIPE	DIMENSIONS mm						
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	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

M21692



90° METRIC O-RING FEMALE SWEEP ELBOW 24° CONE HEAVY DUTY

DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT)

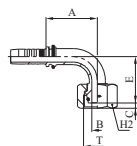
HEMBRA METRICA CON O-RING CODO DE 90° ASIENTO A 24° SERIE PESADA

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 SWEEP 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					
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	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

DIN STANDARD CONNECTIONS

M21642

45° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY

DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT)

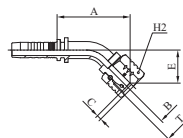
HEMBRA METRICA CON O-RING CODO DE 45° CONO 24° SERIE PESADA

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)

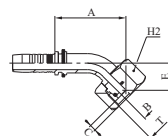
HEMBRA METRICA CON O-RING CODO DE 45° ASIENTO A 24° SERIE PESADA

DIN 20066 / ISO 12151-2 (TUERCA LIBRE)

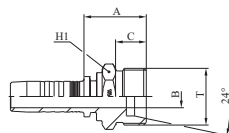
DKOS 45° BOGEN - DIN 20066 / ISO 12151-2 (HINTERLEGTE MUTTER)

FEMMINA METRICA 45° CONO 24° O-RING SERIE PESANTE

DIN 20066 / ISO 12151-2 (DADO PASSANTE)



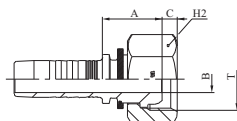
PART. REF.	HOSE BORE		THREAD	PIPE	DIMENSIONS mm						
	DN	inch				B	A	C	E		H ₂
M21643-04-14	6	1/4"	- 04	M 14x1,5	6	3,0	38,5	3,5	17,5		17
M21643-04-16	6	1/4"	- 04	M 16x1,5	8	4,0	36,0	3,4	15,0		19
M21643-04-18	6	1/4"	- 04	M 18x1,5	10	4,0	37,5	3,0	16,5		22
M21643-05-18	8	5/16"	- 05	M 18x1,5	10	4,0	42,5	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



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

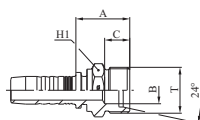
PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C		H1	
M11710-10-2718	16	5/8"	- 10	M 27x1,5	18	12,5	28,7	14,0		28	
M11710-10-2720	16	5/8"	- 10	M 27x1,5	20	12,5	28,7	14,0		28	
M11710-12-30	19	3/4"	- 12	M 30x1,5	22	15,0	30,0	14,0		30	
M11710-12-33	19	3/4"	- 12	M 33x1,5	25	15,0	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

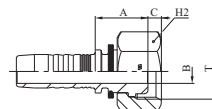
FRENCH METRIC MALE 24° CONE SEAT GAZ TYPE
MACHO METRICO FRANCES ASIENTO A 24° TIPO GAZ
AGF 24° INNENKONUS (FR. REIHE GAS)
MASCHIO METRICO 24° SERIE GAZ FRANCESE

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	

NF STANDARD CONNECTIONS

M21813

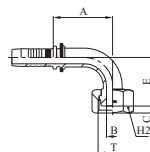
FRENCH METRIC FEMALE GAZ TYPE (SLIP-ON NUT)
 HEMBRA METRICA FRANCES TIPO GAZ (TUERCA LIBRE)
 DKF (FR. REIHE GAS, HINTERLEGTE MUTTER)
 FEMMINA METRICA SERIE GAZ FRANCESE (DADO PASSANTE)



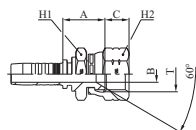
PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C			H ₂
M21813-04-20	6	1/4"	- 04	M 20x1,5	13,25	7,0	22,1	4,3			24
M21813-05-20	8	5/16"	- 05	M 20x1,5	13,25	7,0	22,1	4,3			24
M21813-06-20	10	3/8"	- 06	M 20x1,5	13,25	7,0	22,6	4,3			24
M21813-06-24	10	3/8"	- 06	M 24x1,5	16,75	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 DE 90° TIPO GAZ (TUERCA LIBRE)
 DKF 90° BOGEN (FR. REIHE MILL., HINTERLEGTE MUTTER)
 FEMMINA METRICA 90° SERIE GAZ FRANCESE (DADO PASSANTE)

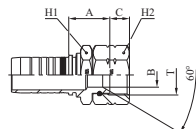


PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C	E		H ₂
M21893-05-20	8	5/16"	- 05	M 20x1,5	13,25	7,0	32,0	4,3	29,5		24
M21893-06-20	10	3/8"	- 06	M 20x1,5	13,25	7,0	36,5	4,3	33,5		24
M21893-08-24	12	1/2"	- 08	M 24x1,5	16,75	12,0	45,0	4,0	41,0		30
M21893-10-30	16	5/8"	- 10	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



M24011

JIS METRIC FEMALE 60° CONE SEAT (KOMATSU) JIS B 8363 (CRIMPED-BACK NUT)
 HEMBRA METRICA JIS ASIENTO A 60° (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

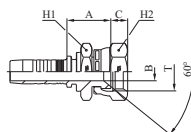
JIS METRIC FEMALE 60° CONE SEAT (KOMATSU) JIS B 8363 (THRUST-WIRE NUT)
 HEMBRA METRICA JIS ASIENTO A 60° (KOMATSU) JIS B 8363 (TUERCA CON SEGURO)
 DK KOMATSU MIT 60° KONUS (NACH JIS B 8363, GESTIFTETE MUTTER)
 FEMMINA METRICA GIAPPONESE CONO 60° TIPO KOMATSU JIS B 8363 (DADO SPINATO)

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	

JIS STANDARD CONNECTIONS

M23811

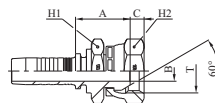
JIS BSP FEMALE 60° CONE SEAT (TOYOTA) - JIS B 8363 (CRIMPED-BACK NUT)
 HEMBRA JIS BSP ASIENTO A 60° (TOYOTA) - JIS B 8363 (TUERCA PRENSADA)
 DK TOYOTA MIT 60° KONUS MIT KONTERSECHSKANT (NACH JIS B 8363, PRESSMUTTER)
 FEMMINA GAS GIAPPONESE CONO 60° TIPO TOYOTA JIS B 8363 (DADO PRESSATO)



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

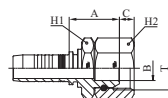
M20711

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)

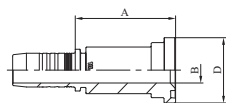


M20712

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)



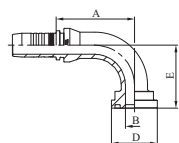
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H ₁	H ₂
M20711-04-04	6	1/4"	- 04	1/4" - 19	4,0	22,5	4,5		19	19
M20711-06-06	10	3/8"	- 06	3/8" - 19	7,0	24,6	6,4		22	22
M20711-08-08	12	1/2"	- 08	1/2" - 14	9,3	26,4	6,7		27	27
M20712-10-08	16	5/8"	- 10	1/2" - 14	9,3	28,8	6,5		27	27
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



M24111

STRAIGHT KOMATSU FLANGE
BRIDA RECTA KOMATSU
FLANSCH GERADE KOMATSU
FLANGIA DITTA SERIE KOMATSU

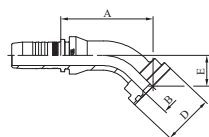
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D			
M24111-08-10	12	1/2"	- 08	5/8"	14,0	66,0	34,0			
M24111-10-10	16	5/8"	- 10	5/8"	14,0	65,7	34,0			
M24111-12-10	19	3/4"	- 12	5/8"	14,0	66,5	34,0			



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

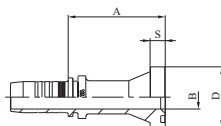
45° KOMATSU FLANGE
BRIDA KOMATSU CODO DE 45°
FLANSCH 45° BOGEN KOMATSU
FLANGIA 45° SERIE KOMATSU

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		

ORIGINAL EQUIPMENT CONNECTIONS

M23911

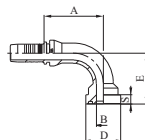
STRAIGHT SUPERCAT FLANGE
BRIDA RECTA SUPERCAT
FLANSCH GERADE SUPERCAT
FLANGIA DITTA SERIE SUPERCAT



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

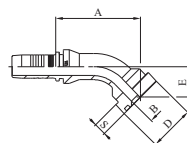
90° SUPERCAT FLANGE
BRIDA SUPERCAT CODO DE 90°
FLANSCH 90° BOGEN SUPERCAT
FLANGIA 90° SERIE SUPERCAT



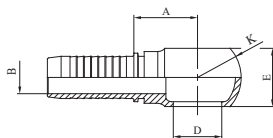
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E	S	
M23991-12-12	19	3/4"	- 12	3/4"	15,0	64,5	41,5	64,5	14,3	
M23991-16-16	25	1"	- 16	1"	19,8	77,5	47,7	76,5	14,3	
M23991-16-20	25	1"	- 16	1.1/4"	26,0	75,5	54,0	80,5	14,3	
M23991-20-20	31	1.1/4"	- 20	1.1/4"	26,0	85,5	54,0	87,0	14,3	

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	



O20310

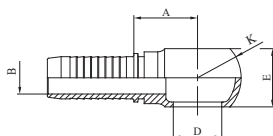
BSP BANJO

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	



O20910

METRIC BANJO - DIN 7642

BANJO METRICO - DIN 7642

RINGNIPPEL, METRISCH - DIN 7642

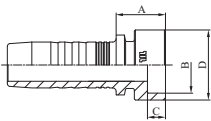
OCCHIELLO METRICO - DIN 7642

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	

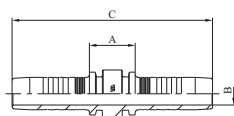
ACCESSORIES

M..IP

BRAZING TAIL
ESPIGA SOLDABLE (SALVAVIDAS)
EINLÖTNIPPEL
INSERTO A SILDARE



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		



M10050

DOUBLE CONNECTOR

CONECTOR DOBLE

SCHLAUCHVERBINDER - DOPPELNIPPEL

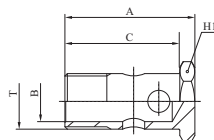
DOPPIO INSERTO

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			

ACCESSORIES

O80210

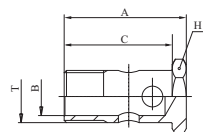
BSP BOLT
TORNILLO PASADOR BSP
HOHLSCHRAUBE ZÖLLIG
VITE GAS FORATA



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	

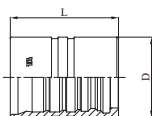
O80810

METRIC BOLT - DIN 7643
TORNILLO PASADOR METRICO - DIN 7643
HOHLSCHRAUBE - METRISCH - DIN 7643
VITE METRICA FORATA - DIN 7643



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	

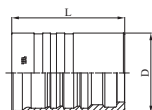
M01500



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				

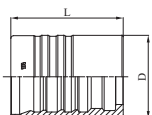
M01600



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)

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				

INTERLOCK PLUS TYPE



BS STANDARD CONNECTIONS

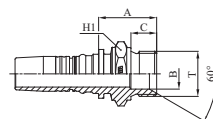
M30510

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	

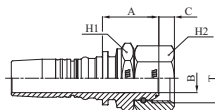
M40812

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)

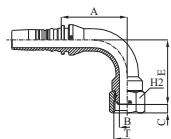
DKOR 60° KONUS MIT O-RING - BS5200 / ISO 12151-6 (STIFTMUTTER)

FEMMINA GAS CONO 60° O-RING - BS5200 / ISO 12151-6 (DADO SPINATO)



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

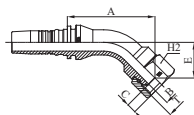
M40892



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		H ₂
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)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H ₂
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

INTERLOCK PLUS TYPE



SAE STANDARD CONNECTIONS

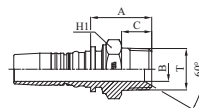
M32810

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	

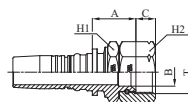
M42512

JIC FEMALE 37° CONE SEAT - SAE J516 / ISO 12151-5 (THRUST-WIRE NUT)

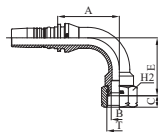
HEMBRA JIC ASIENTO A 37° - SAE J516 / ISO 12151-5 (TUERCA CON SEGURO)

JDJ 37° KONUS - SAE J516 / ISO 12151-5 (KONTERSECHSKANT UND STIFTMUTTER)

FEMMINA JIC CONO 37° - SAE J516 / ISO 12151-5 (DADO SPINATO)



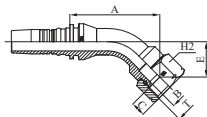
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H ₁	H ₂
M42512-12-12	19	3/4"	- 12	1.1/16" - 12	15,0	36,2	14,2		32	32
M42512-12-16	19	3/4"	- 16	1.5/16" - 12	21,7	33,0	15,2		41	41
M42512-16-16	25	1"	- 16	1.5/16" - 12	21,7	40,7	15,2		41	41
M42512-16-20	25	1"	- 16	1.5/8" - 12	26,0	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



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)
 JDJ 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		H ₂
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)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H ₂
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

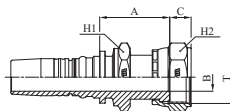
INTERLOCK PLUS TYPE



SAE STANDARD CONNECTIONS

M42411

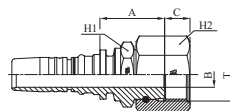
ORFS FEMALE - SAE J516 / ISO 12151-1 PULLBACK TYPE (CRIMPED BACK-NUT)
 HEMBRA ORFS - SAE J516 / ISO 12151-1 CUELLO LARGO (TUERCA PRENSADA)
 ORFS IG - SAE J516 / ISO 12151-1 RÜCKZUGSAUSFÜHRUNG (VERPRESSTE MUTTER)
 FEMMINA ORFS - SAE J516 / ISO 12151-1 VERSIONE RETRAIBILE (DADO PRESSATO)



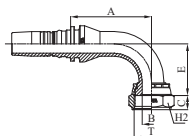
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H ₁	H ₂
M42411-10-10	16	5/8"	- 10	1" - 14	11,5	39,5	13,5		24	30
M42411-12-12	19	3/4"	- 12	1.3/16" - 12	14,5	45,9	14,5		32	36
M42411-12-16	19	3/4"	- 12	1.7/16" - 12	19,0	46,5	15,0		36	41
M42411-16-12	25	1"	- 16	1.3/16" - 12	14,5	47,5	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)



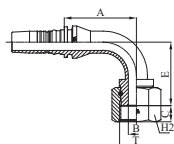
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C		H ₁	H ₂
M42412-12-12	19	3/4"	- 12	1.3/16" - 12	14,5	37,0	14,0		32	36
M42412-16-16	25	1"	- 16	1.7/16" - 12	19,5	42,0	15,0		41	46
M42412-20-20	31	1.1/4"	- 20	1.11/16" - 12	25,0	52,0	15,0		50	55
M42412-24-24	38	1.1/2"	- 24	2" - 12	31,0	55,0	15,0		60	60



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		H ₂
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 (GESHTFETE MUTTER)
 FEMMINA ORFS 90° - SAE J516 / ISO 12151-1 SERIE PESANTE (DADO SPINATO)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H ₂
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

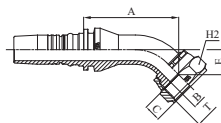
INTERLOCK PLUS TYPE



SAE STANDARD CONNECTIONS

M42441

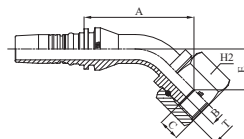
45° ORFS FEMALE SWEPT ELBOW - SAE J516 / ISO 12151-1 (CRIMPED BACK-NUT)
 HEMBRA ORFS CODO DE 45° CARA PLANA - SAE J516 / ISO 12151-1 (TUERCA PRENSADA)
 DK ORFS 45° - SAE J516 / ISO 12151-1 (PRESSMUTTER)
 FEMMINA ORFS 45° - SAE J516 / ISO 12151-1 (DADO PRESSATO)



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

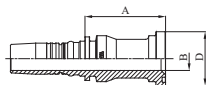
M42442

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 (GESCHFTETE MUTTER) - SAE J516 / ISO 12151-1
 FEMMINA ORFS 45° - SAE J516 / ISO 12151-1 SERIE PESANTE (DADO SPINATO)



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

M43310



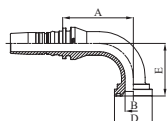
ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3

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			



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		

INTERLOCK PLUS TYPE



SAE STANDARD CONNECTIONS

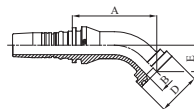
M43340

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		

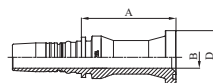
M43610

ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3

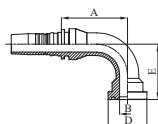
BRIDA ISO/SAE CODIGO 62 - SAE J516 / ISO 12151-3

ISO/SAE CODE 62 FLANSCH - SAE J516 / ISO 12151-3

FLANGIA ISO/SAE CODE 62 - SAE J516 / ISO 12151-3



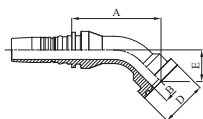
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D			
M43610-10-12	16	5/8"	- 10	3/4"	16,0	64,0	41,4			
M43610-10-16	16	5/8"	- 10	1"	20,0	81,5	47,7			
M43610-12-12	19	3/4"	- 12	3/4"	16,0	71,4	41,4			
M43610-12-16	19	3/4"	- 12	1"	20,0	83,4	47,7			
M43610-16-12	25	1"	- 16	3/4"	16,0	80,3	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			



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		



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		

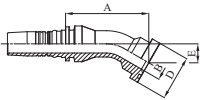
INTERLOCK PLUS TYPE



SAE STANDARD CONNECTIONS

M43630

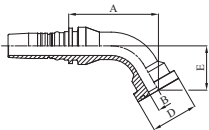
30° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3
BRIDA CODO 30° ISO/SAE CODIGO 62 - SAE J516 / ISO 12151-3
30° ISO/SAE CODE 62 FLANSCH - SAE J516 / ISO 12151-3
FLANGIA 30° ISO/SAE CODE 62 - SAE J516 / ISO 12151-3



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		

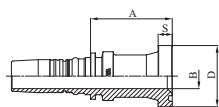
M43660

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		

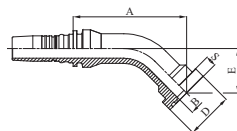
M43710



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 (COMPATIBLE CON PORTA SAE J518 CODE 62 / ISO 6162-2)

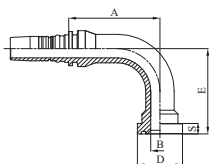
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	S		
M43710-10-12	16	5/8"	- 10	3/4"	16,0	51,5	41,4	9,0		
M43710-12-12	19	3/4"	- 12	3/4"	14,5	71,5	41,4	10,0		
M43710-16-16	25	1"	- 16	1"	19,5	64,0	47,7	11,0		
M43710-20-20	31	1.1/4"	- 20	1.1/4"	25,0	81,0	54,2	12,0		

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° (COMPATIBLE 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° (COMPATIBLE 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	

INTERLOCK PLUS TYPE



ORIGINAL EQUIPEMENT CONNECTIONS

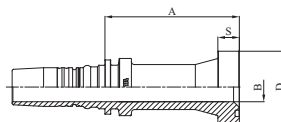
M43910

STRAIGHT SUPERCAT SERIES FLANGE

BRIDA RECTA SUPERCAT

FLANSCH GERADE SUPERCAT

FLANGIA DITTA 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		

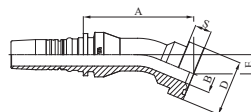
M43920

22,5° SUPERCAT SERIES FLANGE

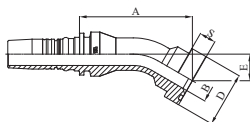
CODO 22,5° BRIDA SERIE SUPERCAT

22,5° FLANSCH SERIE SUPERCAT

FLANGIA 22,5° SERIE SUPERCAT



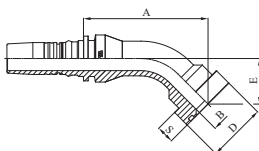
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E	S	
M43920-12-12	19	3/4"	- 12	3/4"	16,0	94,5	41,5	14,5	14,3	
M43920-12-16	19	3/4"	- 12	1"	20,0	102,0	47,7	16,5	14,3	
M43920-16-16	25	1"	- 16	1"	20,0	111,0	47,7	16,5	14,3	
M43920-16-20	25	1"	- 16	1.1/4"	26,0	115,5	54,0	19,0	14,3	
M43920-20-20	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	



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	



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	

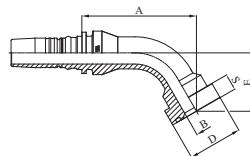
INTERLOCK PLUS TYPE



ORIGINAL EQUIPEMENT CONNECTIONS

M43960

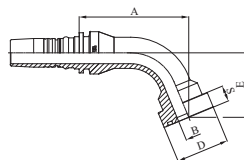
60° SUPERCAT SERIES FLANGE
 CODO 60° BRIDA SERIE SUPERCAT
 60° FLANSCH SERIE SUPERCAT
 FLANGIA 60° SERIE SUPERCAT



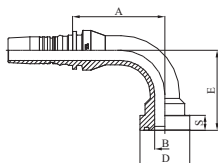
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				
	DN	inch	Size		B	A	D	E	S
M43960-12-12	19	3/4"	- 12	3/4"	16,0	101,5	41,5	44,0	14,3
M43960-12-16	19	3/4"	- 12	1"	20,0	106,5	47,7	48,0	14,3
M43960-16-16	25	1"	- 16	1"	20,0	122,0	47,7	51,0	14,3
M43960-16-16055	25	1"	- 16	1"	20,0	117,5	47,7	55,0	14,3
M43960-16-20	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

67,5° SUPERCAT SERIES FLANGE
 CODO 67,5° BRIDA SERIE SUPERCAT
 67,5° FLANSCH SERIE SUPERCAT
 FLANGIA 67,5° SERIE SUPERCAT



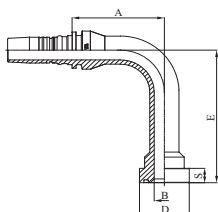
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				
	DN	inch	Size		B	A	D	E	S
M43970-12-12	19	3/4"	- 12	3/4"	16,0	95,5	41,5	49,5	14,3
M43970-12-16	19	3/4"	- 12	1"	20,0	100,0	47,7	54,0	14,3
M43970-16-16	25	1"	- 16	1"	20,0	115,0	47,7	58,0	14,3
M43970-16-20	25	1"	- 16	1.1/4"	26,0	115,0	54,0	62,0	14,3
M43970-20-20	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



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	



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	

INTERLOCK PLUS TYPE



XTRAFLANGE

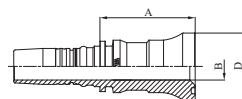
M48510

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

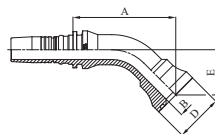
M48540

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

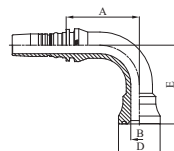
M48590

90° XTRAFLANGE (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE)

BRIDA CODO 90° XTRAFLANGE (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2)

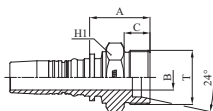
XTRAFLANSCH 90° BOGEN (SAE J518 CODE 62 - ISO 6162-2 KOMPATIBLER ANSCHLUSS)

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

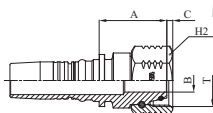
M31210



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

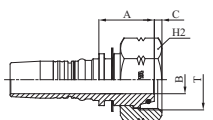
PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm				
	DN	inch	Size	T	mm	B	A	C		H1
M31210-10-30	16	5/8"	- 10	M 30x2	20	12,0	36,8	16,0		30
M31210-12-30	19	3/4"	- 12	M 30x2	20	14,5	38,5	16,0		32
M31210-12-36	19	3/4"	- 12	M 36x2	25	14,5	43,4	18,0		36
M31210-16-36	25	1"	- 16	M 36x2	25	19,5	45,0	18,0		36
M31210-16-42	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)

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

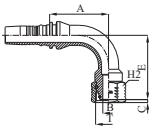
INTERLOCK PLUS TYPE



DIN STANDARD CONNECTIONS

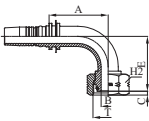
M41692

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)



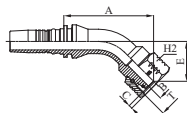
M41693

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)



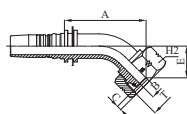
PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C	E		H ₂
M41693-10-30	16	5/8"	- 10	M 30x2	20	12,0	52,5	3,5	57,5		36
M41692-12-30	19	3/4"	- 12	M 30x2	25	12,5	63,8	3,2	68,5		36
M41693-12-36	19	3/4"	- 12	M 36x2	25	14,5	67,0	3,4	67,5		41
M41692-16-36	25	1"	- 16	M 36x2	25	16,0	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

M41642



45° METRIC O-RING FEMALE SWEEP 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 SWEEP 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

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

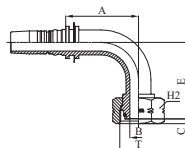
DIN 20066 / ISO 12151-2 (TUERCA CON PASADOR)

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)

CODO 45° METRICO MEDIO/LARGO 24° O-RING SERIE PESADA

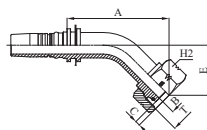
DIN 20066 / ISO 12151-2 (TUERCA CON PASADOR)

45° BOGEN O-RING METRISCH 24° KONUS H.T.

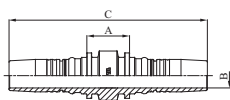
DIN 20066 / ISO 12151-2 (HINTERLEGTE MUTTER)

FEMMINA METRICA O-RING SERIE PESANTE CONO 24° CURVA 45° MEDIO/LUNGA

DIN 20066 / ISO 12151-2 (DADO PASSANTE)



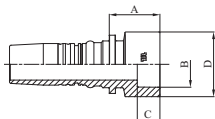
PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C	E		H ₂
M41243-10-30	16	5/8"	- 10	M 30x2	20	12,0	77,5	3,5	35,0		36
M41243-12-36	19	3/4"	- 12	M 36x2	25	14,5	101,0	3,4	45,0		41
M41243-16-42	25	1"	- 16	M 42x2	30	19,5	112,0	5,3	55,0		50
M41243-20-52	31	1.1/4"	- 20	M 52x2	38	26,1	133,0	8,0	63,0		60



M30050

DOUBLE CONNECTOR
CONNECTOR DOBLE
DOPPELVERBINDER
DOPPIO INSERTO

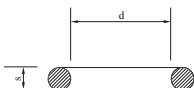
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		B	A	C			
M30050-20-20	31	1.1/4"	- 20		25,0	42,0	206,0			
M30050-24-24	38	1.1/2"	- 24		31,0	42,5	228,5			
M30050-32-32	51	2"	- 32		41,0	42,5	244,5			



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		



JO29

OPTIONAL INTERLOCK PLUS O-RING
INTERLOCK PLUS O-RING OPZIONALE
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

DIAMONDSPIR HOSE RANGE

M01750

DOUBLE SKIVE FERRULE FOR EXTRA DUTY SPIRAL HOSES (4 PLY)

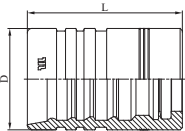
CASQUILLOS DE PELADO INTERNO Y EXTERNO PARA MANGUERAS

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)

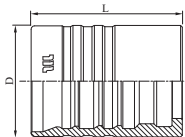
CASQUILLOS DE PELADO INTERNO Y EXTERNO PARA MANGUERAS

CON REFUERZO EN ESPIRAL (6 ESPIRALES)

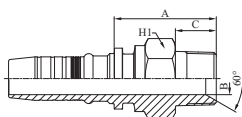
PRESSFASSUNG FÜR INNEN- UND AUSSENSCHÄLUNG FÜR SPEZIAL-SPIRALSCHLÄUCHE (6-LAGIG)

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		



M52810/M57810

NPTF MALE 60° CONE SEAT - SAE J516/J514

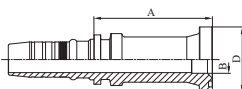
MACHO NPTF ASIEN TO A 60° - SAE J516/J514

AG NPTF KONUS 60° - SAE J516/J514

MASCHIO NPTF CONO 60° - SAE J516/J514

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm			
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	DN	inch	Size	T	B	A	C	H ₁
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 DITTA SAE CODE 62 - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm			
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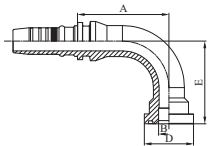
	DN	inch	Size		B	A	D	
M68610-12-12	19	3/4"	-12	3/4"	16,0	74,0	41,4	
M68610-16-16	25	1"	- 16	1"	20,0	86,0	47,7	
M68610-20-20	31	1.1/4"	- 20	1.1/4"	26,0	91,0	54,2	
M68610-24-24	38	1.1/2"	- 24	1.1/2"	32,0	97,5	63,7	
M68610-32-32	51	2"	- 32	2"	42,0	112,5	79,6	
M68610-32-40 *	51	2"	- 32	2.1/2"	51,5	124,0	107,8	
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

DIAMONDSPIR HOSE RANGE

M68690

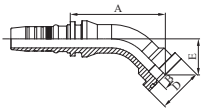
90° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3
BRIDA 90° ISO/SAE CODIGO 62 - SAE J516 / ISO 12151-3
90° ISO/SAE CODE 62 FLANSCH - SAE J516 / ISO 12151-3
FLANGIA 90° ISO/SAE CODE 62 - SAE J516 / ISO 12151-3



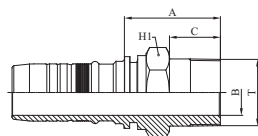
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm			
	DN	inch	Size		B	A	D	E
M68690-12-12	19	3/4"	- 12	3/4"	16,0	75,0	41,4	59,0
M68690-16-16	25	1"	- 16	1"	20,0	89,0	47,7	80,0
M68690-20-20	31	1.1/4"	- 20	1.1/4"	24,0	110,0	54,2	93,0
M68690-24-24	38	1.1/2"	- 24	1.1/2"	38,5	125,0	63,7	110,0
M68690-32-32	51	2"	- 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 / 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
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



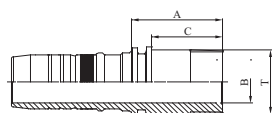
M53410

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

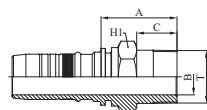
API MALE WITH CYLINDRICAL BODY (API 5B THREAD)

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		H _i
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		H _i
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		

XTRAFLANGE

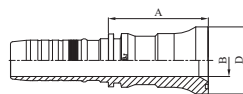
M68510

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

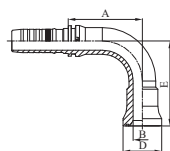
M68590

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)



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

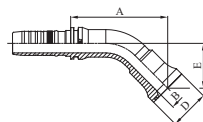
M68540

45° XTRAFLANGE (SAE J518 CODE 62 AND ISO 6162-2 PORT COMPATIBLE)

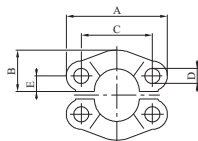
BRIDA 45° XTRAFLANGE (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2)

XTRAFLANSCH 45° BOGEN (SAE J518 CODE 62 / ISO 6162-2 KOMPATIBLER ANSCHLUSS)

XTRAFLANGIA 45° (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)



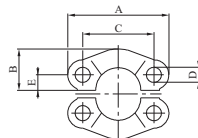
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				W.P.	WEIGHT
	DN	inch	Size		B	A	D	E	bar	kg
M68540-16-16	25	1"	- 16	1"	20,0	103,0	47,7	45,0	560	0,7
M68540-20-20	31	1.1/4"	- 20	1.1/4"	24,0	138,0	54,4	62,5	560	1,4
M68540-24-24	38	1.1/2"	- 24	1.1/2"	30,5	155,0	63,7	71,5	560	1,9
M68540-32-32	51	2"	- 32	2"	41,0	193,5	79,6	92,5	450	4,0



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 ZWEIFLÄGER 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 ZWEIFLÄGER GEGENFLANSCH - SAE J518 / ISO 6162-2
 SEMIFLANGIA ISO/SAE CODE 62 - SAE J518 / ISO 6162-2

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	

ACCESSORIES

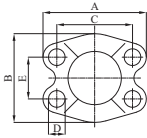
O83607

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

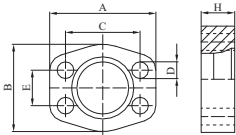
O88507

ONE-PIECE XTRAFLANGE CLAMP ISO 6162-2 / SAE J518 CODE 62 PORT COMPATIBLE

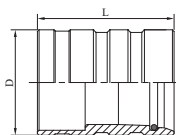
SEMIBRIDA UNA-PIEZA XTRAFLANGE ISO 6162-2 / SAE J518 COMPATIBLE CON CODIGO 62

VOLLFLANSCH FÜR XTRAFLANSCH ISO 6162-2 / SAE J518 CODE 62 KOMPATIBLER ANSCHLUSS

SEMIFLANGIA INTERA XTRAFLANGIA ISO 6162-2 / SAE J518 COMPATIBILE CON PORTA CODE 62



PART. REF.	FLANGE SIZE			DIMENSIONS mm						BOLT	WEIGHT
	DN	inch	Size	B	A	C	D	E	H	length 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



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	



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.

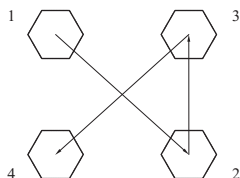
M437x0 - M686x0

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

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

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:

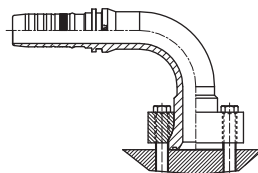


During the installation it is recommended to apply a light torque to each screw before the final one to avoid:

- misalignments 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 medias lunas durante la instalación.

XTRAFANGE ASSEMBLING SCHEME:
ESQUEMA PARA ENSAMBLAR UN XTRAFANGE:
XTRAFANS ANBAUSKIZZE:
SCHEMA D'ASSEMBLAGGIO DELLE XTRAFANGE:



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.

XTRALOCK FITTINGS CRIMPING OPERATION



The crimping operation to apply XTRALOCK fittings must be carried out with proper high performance crimping/assembly 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 recommended); ■ 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.

PUSH-LOCK TYPE



BS STANDARD CONNECTIONS

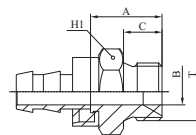
L10510

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	

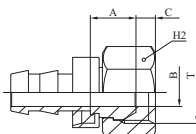
L20513

BSP FEMALE 60° CONE - BS5200/ISO 12151-6 (SLIP-ON NUT)

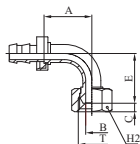
HEMBRA BSP ASIENTO A 60° - BS5200/ISO 12151-6 (TUERCA LIBRE)

DKR 90° KONUS (BSP-GEWINDE) - HINTERLEGTE MUTTER BS5200/ISO 12151-6

FEMMINA GAS CONO 90° - BS5200/ISO 12151-6 (DADO PASSANTE)



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

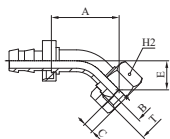


L20593*

90° BSP FEMALE SWEPT ELBOW 60° CONE - BS5200/ISO 12151-6 (SLIP-ON NUT)
 HEMBRA BSP CODO DE 90° ASIENTO A 60° - 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		H ₂
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 45° ASIENTO A 60° - 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)

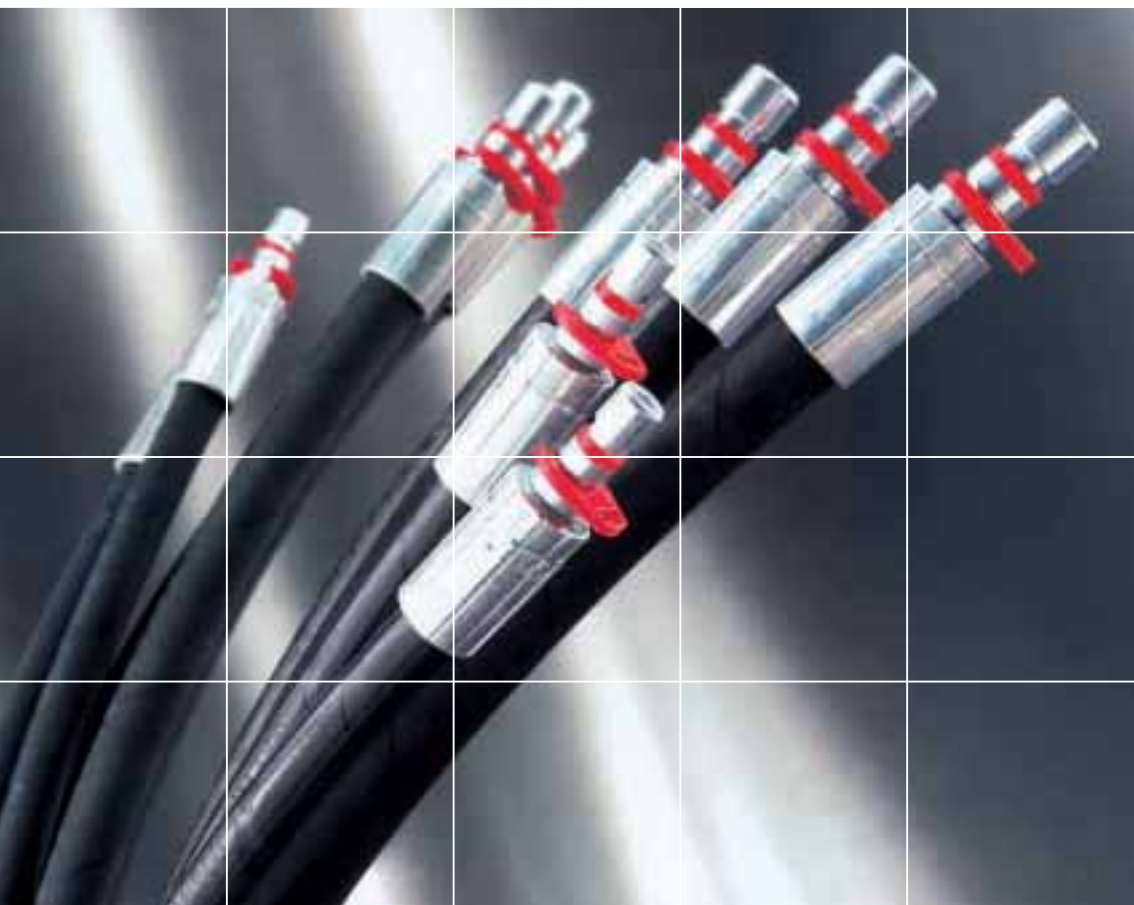
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size	T	B	A	C	E		H ₂
L20543-04-04	6	1/4"	- 04	1/4" - 19	4,0	29,0	5,8	12,0		19
L20543-06-06	10	3/8"	- 06	3/8" - 19	7,0	36,5	6,0	15,0		22
L20543-08-08	12	1/2"	- 08	1/2" - 14	9,5	42,0	6,5	18,5		27
L20543-10-10	16	5/8"	- 10	5/8" - 14	12,0	48,5	9,0	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



EASY FIT

Easy fit



Fluid connectors, solid solutions

manuli[®]
HYDRAULICS

EASY FIT

INTRODUCTION

GB

CONCEPT & TECHNOLOGY

- "Threadless" fittings, for an easy, fast installation of assemblies.
- Innovative termination end for installation made without any torque of thread but with axial push of the fitting.
- Disconnection operation with axial push and pull, simply using a screwdriver.

PRODUCT DESCRIPTION

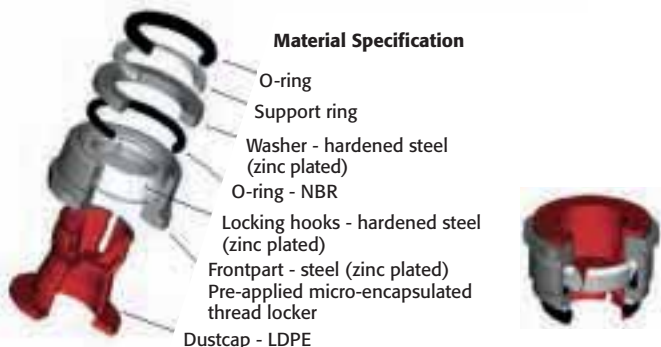
The complete product is composed by:

- Hardened steel insert with **MP2000**® tail for the complete compatibility with Manuli hoses and ferrules, including a release ring (dismounting purpose) and the stop clip for a safer assembling process.
- The cartridge, including the sealing arrangement and the mechanical retention system.
- Cavity housing or adapter with cartridge seat and male / female common threads for the better compatibility with all the port ends.



The cartridge, with external metric thread, is easy to connect directly to the port (provided by a proper hole) or to the adaptors. It is supplied with a plastic dustcap, to protect the connection system.

The cartridge (if not assembled) needs to be screwed in the female port or adaptor cavity housing, using the proper torque.



GB

KEY FEATURES & BENEFITS

- **MF¹⁰⁰⁰** Multifit insert to use the integrated reliable hose range
- Easy and fast installation on OEM lines: the click-to-connect feature considerably reduces the installation time
- No follow-up tightening needed
- Leak-free connections
- Longer hose life, thanks to self-aligning, which eliminates twisted hoses occurring during installation
- Maintenance or repair time drastically reduced
- Easy installation and disconnection in restricted spaces enables new system designs
- No more work injuries associated with connections/disconnections
- "Direct to the port" concept available to eliminate adaptors and possible related leakages. Cost effective solution
- **ECOAT** fitting protection with improved corrosion performance

APPLICATION RECOMMENDED

The severe qualification program is aimed to hydraulic applications, such as one/two wire braids hydraulic hoses and R12 spiral hoses.

Pressure lines up to 350 bar. Pilot applications at low pressures, suction and return lines for size up to DN 19 are possible targets of these fitting solutions, too.



EASY FIT

INTRODUCTION

ES

CONCEPTO Y TECNOLOGÍA

- Los racores "Sin Apriete", para una fácil y rápida instalación de los Latiguillos.
- Innovadora connexion para instalar sin Par de Apriete en la rosca pero con empuje axial en el racor.
- El funcionamiento de la desconexión empujando y estirando, simplemente usando un destornillador.

DESCRIPCIÓN DEL PRODUCTO

El producto completo está compuesto por:

- Espiga de acero endurecida con perfil  2000° para la completa compatibilidad con las mangueras y casquillos Manuli, incluyendo el anillo de desmontaje y el clip de montaje para asegurar el proceso de ensamblaje.
- El cartucho, incluyendo las juntas y el sistema de retención mecánica.
- La cavidad de alojamiento o adaptador con el cartucho, machos / hembras, para la mejor compatibilidad con todas las roscas.

El cartucho, con rosca métrica exterior, es fácil de conectar directamente al puerto (proporcionado por un agujero adecuado) o para los adaptadores. Se suministra con un tapón de plástico, para proteger el sistema de conexión.

El cartucho (si no está montado), se debe roscar en la parte hembra o en la cavidad del alojamiento, usando el par de apriete correcto.

VENTAJAS Y BENEFICIOS

- Espiga  2000° para usar con la gama de mangueras integradas
- Fácil y Rápida instalación en las líneas OEM: la ventaja del click-conectado reduce el tiempo de instalación
- No es necesario reapretar
- Conexión sin fugas
- Alarga la vida de la manguera, gracias al auto alineado, que evita que las mangueras se retuerzan durante la instalación
- Mantenimiento o tiempo de reparación drásticamente reducido
- Fácil instalación y desconexión en espacios reducidos que habilita para nuevos diseños
- Se evita accidentes laborales con la connexion/desconexión
- El concepto "Directo a la Rosca" elimina adaptadores y posibles fugas. Solución efectiva de costo
- Racor con protección  **EcoAT** que soporta la corrosión

APLICACIÓN RECOMENDADA

El programa severo de calificación apunta a las aplicaciones hidráulicas, como las mangueras con refuerzo de una/dos trenzas y la manguera espiral R12.

Líneas de presión hasta 350 bar. Aplicaciones de pilotaje a baja presión, líneas de aspiración y retorno hasta DN19, también es posible la aplicación.

D

KONZEPT & TECHNOLOGIE

- "Gewindelose" Anschlüsse für eine einfache und schnelle Installation von Baugruppen.
- Innovative Anschlussenden für eine Installation ohne zu schrauben, sondern durch einfaches Einstecken.
- Trennung durch Herausziehen, ganz einfach mit Hilfe eines Schraubenziehers.

PRODUKTBESCHREIBUNG

Das gesamte Produkt setzt sich wie folgt zusammen:

- Gehärtetem Stahl-Nippel mit **MF2000**® Einsatz für die vollständige Kompatibilität mit Manuli Schläuchen und Beschlägen, inkl. Lösering (für die Demontage) und dem Stop Clip für eine sichere Montage.
- Die Patrone, einschließlich der Abdichtung und das mechanische Rückhalte System.
- Gehäuse oder Adapter mit Anschlusscartridge für gängige Innen- oder Aussengewinde, damit ist eine hohe Kompatibilität mit allen Anschlussvarianten gesichert.

Die Patrone, mit externen metrisch, ist einfach an den Anschluss (durch eine geeignete Öffnung vorgesehen) oder auf den Adapter. Es ist mit einem Kunststoff-Staubschutzkappe geliefert, um die Verbindung zu schützen.

Die Patrone (wenn nicht zusammengesetzt), muss in die-Buchse oder Adapter Hohlraum Gehäuse geschraubt werden, mit dem richtigen Drehmoment.

WICHTIGSTE EIGENSCHAFTEN & VORTEILE

- **MF2000**® Multifit-Einsatz für die Nutzung integrierter Schlauchpalette
- Einfache und schnelle Installation bei OEM-Leitungen: Die click-to-connect Eigenschaft reduziert die Installationszeit deutlich
- Kein Nachziehen notwendig
- Leckfreie Anschlüsse
- Längere Lebensdauer der Schläuche dank Selbstausrichtung, dabei werden Schlauchverdrehungen bei der Installation aufgelöst
- Drastisch reduzierte Wartungs- oder Reparaturzeiten
- Einfache Installation und Trennung in beengten Räumen ermöglicht neue Systemdesigns
- Keine Verletzungsgefahr mehr beim Anschließen/Trennen
- "Direct to the port"-Konzept verfügbar, um Adapter und damit verbundene, mögliche Leckagen zu vermeiden. Kosteneffektive Lösung
- **ECOCAT**™ Armaturenbeschichtung mit verbessertem Korrosionsschutz

EMPFOHLENE ANWENDUNG

Das strenge Prüfungsprogramm zielt speziell auf Hydraulikanwendungen ab, wie etwa ein-/zwei-spiralige Hydraulikschläuche und R12 Spiralschläuche.

Druck bis 350 bar. Vorsteuerfunktionen bei niedrigem Druck, Saug- und Rücklaufleitungen mit einer Größe bis zu DN 19 sind ebenfalls mögliche Einsatzbereiche für diese Armaturenserie.

EASY FIT

INTRODUCTION

IT

CONCETTO E TECNOLOGIA

- Raccordo senza filettatura, per installazioni di assemblati facili e veloci
- Terminazione innovativa per installazioni senza torsione ma tramite spinta assiale del raccordo
- Semplice operazione di smontaggio mediante spinta e trazione assiale con uso di cacciavite

DESCRIZIONE DEL PRODOTTO

Il prodotto completo è composto da:

- Inserto in acciaio temprato con profilo  per una completa compatibilità con tubi flessibili e boccole Manuli. È compreso un anello di rilascio (purpuose dismounting) e clip stop per un processo di assemblaggio più sicuro.
- Cartuccia che include un dispositivo di chiusura e sistema meccanico di ritenzione.
- Porta dedicata o adattatore con cartuccia e filettatura maschio / femmina per la migliore compatibilità con tutti i tipi di porta.

La cartuccia, con filettatura esterna metrica, è facile da collegare direttamente alla porta (fornita di un adeguato foro) o agli adattatori. È fornita di un tappo di plastica per proteggere il sistema di connessione.

La cartuccia (se non assemblata) deve essere avvitata nella porta dedicata o nell'adattatore, usando l'adeguata coppia di serraggio.

VANTAGGI E BENEFICI

- Inserto  per un sicuro pacchetto integrato
- Installazione su linee OEM facile e veloce: il sistema "click-to-connect" riduce considerevolmente i tempi di installazione
- Operazione di stringimento non necessaria
- Connessione senza perdite di olio
- Maggior vita di servizio del tubo grazie all'allineamento automatico in grado di eliminare la torsione del tubo durante l'installazione
- Tempi di manutenzione e riparazione drasticamente ridotti
- Facile installazione e sconnessione in spazi ristretti per nuovi concetti di sistema
- Nessun infortunio di lavoro a causa di operazioni di connessione/sconnessione
- Concetto "direct to the port" per eliminare gli adattatori e possibili perdite di olio associate. Riduzione effettiva dei costi
- Protezione raccordi  con performance anticorrosione migliorate

APPLICAZIONE CONSIGLIATA

Il severo programma di qualificazione è volto alle applicazioni idrauliche, quali tubi uno/due trecce e i tubi spiralati R12.

Linee di pressione superiori ai 350bar. Applicazioni pilota a bassa pressione, linee di aspirazione e di ritorno per i tubi DN 19 sono compatibili con questa tipologia di soluzione.

MANULI INTEGRATED HOSE & FITTING RANGE

HOSE SIZE	EF-HP TERMINATION ENDS SIZE	MAX. WORKING PRESSURE (BAR)	HOSE TYPES
- 04 (DN 6)	- 04 - 06	350 350	Tractor/1T, Tractor/1K, Lyteflex, Harvester/17, Cover, Astro/3, Hydroplast, Equator/1, Pilot, Shieldmaster/2000, 4000, 5000, Rockmaster/1SN, Rockmaster/1SC, GoldenISO/21, GoldenISO/28
- 05 (DN 8)	- 06	350	Tractor/1T, Tractor/2T, Tractor/1K, Tractor/2K, Lyteflex, Harvester/17, Cover, Astro/3, Hydroplast, Equator/1, Equator/2, Pilot, Nozone/2K, Shieldmaster/4000, 5000, Rockmaster/1SN, 2SN, 2ST, Rockmaster/1SC, 2SC, GoldenISO/21, GoldenISO/28
- 06 (DN 10)	- 04 - 06 - 08	350 350 350	Goldenspir/12, Rockmaster/12, Tractor/1T, Tractor/2T, Tractor/1K, Tractor/2K, Lyteflex, Harvester/17, Cover, Astro/3, Hydroplast, Equator/1, Equator/2, Pilot, Nozone/2K, Shieldmaster/2000, 4000, 5000, Rockmaster/1SN, 2SN, 2ST, Rockmaster/1SC, 2SC, GoldenISO/21, GoldenISO/28
- 08 (DN 12)	- 08	350	Goldenspir/12, Rockmaster/12, Tractor/1T, Tractor/2T, Tractor/1K, Tractor/2K, Lyteflex, Harvester/17, Cover, Astro/3, Hydroplast, Equator/1, Equator/2, Pilot, Nozone/2K, Shieldmaster/2000, 4000, 5000, Rockmaster/1SN, 2SN, 2ST, Rockmaster/1SC, 2SC, GoldenISO/21, GoldenISO/28
- 10 (DN 16)	- 08	350	Goldenspir/12, Rockmaster/12, Tractor/1T, Tractor/2T, Tractor/1K, Tractor/2K, Lyteflex, Cover, Astro/3, Equator/1, Equator/2, Nozone/2K, Shieldmaster/4000, Rockmaster/1SN, 2SN, 2ST, Rockmaster/1SC, 2SC, GoldenISO/21, GoldenISO/28
- 12 (DN 19)	- 12	280	Goldenspir/12, Rockmaster/12, Tractor/1T, Tractor/2T, Tractor/1K, Tractor/2K, Lyteflex, Astro/3, Equator/1, Equator/2, Nozone/2K, Shieldmaster/4000, Rockmaster/1SN, 2SN, 2ST, Rockmaster/1SC, 2SC, GoldenISO/21, GoldenISO/28

SPECIFICATIONS/IMPULSE TEST

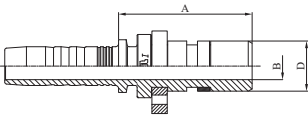
Impulse test	Tested with 500.000 flexing impulse cycles at 133% of W.P. = 350 bar (test pressure 465 bar) The -12 (DN 19) tested at 133% of W.P. = 280 bar (test pressure 373 bar)
Burst test	Pressure exceeding the 4 times max. working pressure
Corrosion test ECOAT	Exceeds 400 hours before red corrosion in standard salt spray test (ASTM B 117)
High temperature test	Tested up to of 100°C (internal fluid)
Validation test	Approved in field on off-highway machines

EASY FIT

MULTIFIT INSERT

M12H10

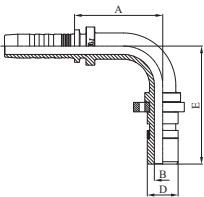
EF STRAIGHT MALE INSERT
EF EPIGA MACHO RECTO
EF GERADER STECKER
EF INSERTO DRITTO MASCHIO



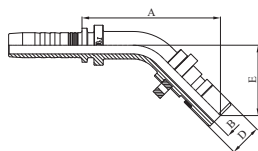
PART. REF.	HOSE BORE			PIPE		DIMENSIONS mm		W.P. bar	
	DN	inch	Size	D	Size	B	A		
M12H10-04-04	6	1/4"	- 04	10	- 04	4,0	30,0		350
M12H10-04-06	6	1/4"	- 04	13	- 06	7,0	34,0		350
M12H10-05-06	8	5/16"	- 05	13	- 06	7,0	34,0		350
M12H10-06-04	10	3/8"	- 06	10	- 04	4,0	30,5		350
M12H10-06-06	10	3/8"	- 06	13	- 06	7,0	34,5		350
M12H10-06-08	10	3/8"	- 06	16	- 08	9,3	34,5		350
M12H10-08-06	12	1/2"	- 08	13	- 06	7,0	35,0		350
M12H10-08-08	12	1/2"	- 08	16	- 08	9,3	35,0		350
M12H10-10-08	16	5/8"	- 10	16	- 08	9,3	35,0		350
M12H10-10-12	16	5/8"	- 10	23	- 12	15,0	44,5		280
M12H10-12-12	19	3/4"	- 12	23	- 12	15,0	45,5		280

M12H90

EF 90° ELBOW MALE INSERT
EF EPIGA CODO 90° MACHO
EF 90° WINKEL STECKER
EF INSERTO CURVO 90° MASCHIO



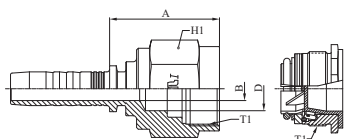
PART. REF.	HOSE BORE			PIPE		DIMENSIONS mm		W.P. bar	
	DN	inch	Size	D	Size	B	A		
M12H90-04-04	6	1/4"	- 04	10	- 04	4,0	30,0		350
M12H90-04-06	6	1/4"	- 04	13	- 06	7,0	36,5		350
M12H90-05-06	8	5/16"	- 05	13	- 06	7,0	36,5		350
M12H90-06-04	10	3/8"	- 06	10	- 04	4,0	30,5		350
M12H90-06-06	10	3/8"	- 06	13	- 06	7,0	37,0		350
M12H90-08-08	12	1/2"	- 08	16	- 08	9,3	44,0		350
M12H90-10-08	16	5/8"	- 10	16	- 08	9,3	47,0		350
M12H90-10-12	16	5/8"	- 10	23	- 12	15,0	55,0		280
M12H90-12-12	19	5/8"	- 12	23	- 12	15,0	62,5		280



M12H40

EF 45° ELBOW MALE INSERT
EF ESIPIGA CODO 45° MACHO
EF 45° WINKEL STECKER
EF INSERTO 45° MASCHIO CURVO

PART. REF.	HOSE BORE			PIPE		DIMENSIONS mm			W.P. bar
	DN	inch	Size	D	Size	B	A		
M12H40-04-04	6	1/4"	- 04	10	- 04	4,0	46,0	23,5	350
M12H40-04-06	6	1/4"	- 04	13	- 06	7,0	55,0	28,0	350
M12H40-05-06	8	5/16"	- 05	13	- 06	7,0	55,0	28,0	350
M12H40-06-04	10	3/8"	- 06	10	- 04	4,0	46,5	23,5	350
M12H40-06-06	10	3/8"	- 06	13	- 06	7,0	55,5	28,0	350
M12H40-08-08	12	1/2"	- 08	16	- 08	9,3	61,5	30,0	350
M12H40-10-08	16	5/8"	- 10	16	- 08	9,3	65,0	30,2	350
M12H40-10-12	16	5/8"	- 10	23	- 12	15,0	79,0	41,0	280
M12H40-12-12	19	3/4"	- 12	23	- 12	15,0	85,5	42,5	280



M22H10

EF STRAIGHT FEMALE INSERT
EF ESIPIGA RECTA HEMBRA
EF GERADER M-EINSATZ
EF INSERTO DRITTO FEMMINA

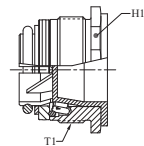
PART. REF.	HOSE BORE			PIPE		DIMENSIONS mm			W.P. bar
	DN	inch	Size	D	Size	B	A	H ₁	T ₁
M22H10-04-04	6	1/4"	- 04	10	- 04	4,0	30,0	22	M18x1
M22H10-06-06	10	3/8"	- 06	13	- 06	7,0	33,5	22	M22x1
M22H10-08-08	12	1/2"	- 08	16	- 08	9,3	34,0	28	M25x1
M22H10-10-08	16	5/8"	- 08	16	- 08	12,5	34,0	28	M25x1
M22H10-10-12	16	5/8"	- 10	23	- 12	12,5	45,5	38	M33x1,5
M22H10-12-12	19	3/4"	- 12	23	- 12	15,0	46,5	38	M33x1,5

EASY FIT

ADAPTORS

O82H10

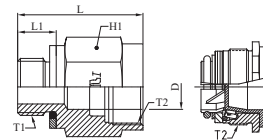
CARTRIDGE EF
CARTUCHO EF
STECKMODUL EF
CARTUCCIA EF



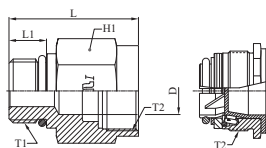
PART. REF.	HOSE BORE		CARTRIDGE SIZE	DIMENSIONS mm		W.P. bar	TORQUE Nm
	DN	Size		T ₁	H ₁		
O82H10-04	10	- 04	1/4"	M18x1	19	350	25-35
O82H10-06	13	- 06	3/8"	M22x1	23	350	30-40
O82H10-08	16	- 08	1/2"	M25x1	26	350	40-50
O82H10-12	23	- 12	3/4"	M33x1,5	34	280	70-80

A52032H

STRAIGHT ADAPTOR BSP MALE O-RING BOSS TYPE ISO 1179 EF FEMALE
ADAPTADOR RECTO MACHO BSP O-RING TIPO BOSS ISO 1179 EF HEMBRA
GERADER ADAPTER BSP AG O-RINGNUT ISO 1179 EF IG
ADATTATORE DRITTO BSP MASCHIO CON O-RING TIPO BOSS ISO 1179 EF FEMMINA



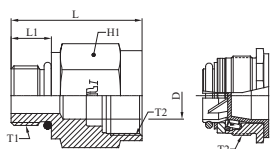
PART. REF.	THREAD	PIPE		DIMENSIONS mm				W.P. bar
	T ₁ (BSP)	D	Size	L	L ₁	H ₁	T ₂	
A52032H-04-04	1/4"-19	10	- 04	34,0	11,2	22	M18x1	350
A52032H-06-04	3/8"-19	10	- 04	34,0	11,2	22	M18x1	350
A52032H-06-06	3/8"-19	13	- 06	37,0	11,2	25	M22x1	350
A52032H-08-06	1/2"-14	13	- 06	40,0	14,5	27	M22x1	350
A52032H-08-08	1/2"-14	16	- 08	40,0	14,5	28	M25x1	350
A52032H-12-12	3/4"-14	23	- 12	50,5	14,5	38	M33x1,5	280
A52032H-16-12	1"-11	23	- 12	53,5	18,6	46	M33x1,5	280



A52302H

ADAPTOR SAE O-RING BOSS MALE ISO 11926 EF FEMALE
 ADAPTADOR MACHO SAE O-RING BOSS ISO 11926 EF HEMBRA
 ADAPTER SAE AG O-RING BOSS ISO 11926 EF IG
 ADATTATORE SAE CON O-RING ISO 11926 EF FEMMINA

PART. REF.	THREAD	PIPE	DIMENSIONS mm					W.P. bar
	T ₁ (UNF)	D	Size	L	L ₁	H ₁	T ₂	
A52302H-06-04	9/16"-18	10	- 04	33,0	10,0	22	M18x1	350
A52302H-06-06	9/16"-18	13	- 06	36,0	10,0	25	M22x1	350
A52302H-08-06	3/4"-16	13	- 06	37,0	11,5	25	M22x1	350
A52302H-08-08	3/4"-16	16	- 08	37,0	11,5	28	M25x1	350
A52302H-10-08	7/8"-14	16	- 08	38,5	13,0	28	M25x1	350
A52302H-10-12	7/8"-14	23	- 12	49,5	13,0	38	M33x1,5	280
A52302H-12-12	1.1/6"-12	23	- 12	51,0	15,0	38	M33x1,5	280



A52192H

ADAPTOR METRIC MALE ISO 6149 EF FEMALE
 ADAPTADOR MACHO MÉTRICO ISO 6149 EF HEMBRA
 METRISCHER ADAPTER AG ISO 6149 EF IG
 ADATTATORE METRICO MASCHIO ISO 6149 EF FEMMINA

PART. REF.	THREAD	PIPE	DIMENSIONS mm					W.P. bar
	T ₁ (METRIC)	D	Size	L	L ₁	H ₁	T ₂	
A52192H-14-04	M14x1,5	10	- 04	34,0	11,0	22	M18x1	350
A52192H-16-04	M16x1,5	10	- 04	35,0	12,5	22	M18x1	350
A52192H-18-06	M18x1,5	13	- 06	40,0	14,0	25	M22x1	350
A52192H-22-06	M22x1,5	13	- 06	40,0	15,0	27	M22x1	350
A52192H-22-08	M22x1,5	16	- 08	40,0	15,0	28	M25x1	350
A52192H-27-08	M27x2	16	- 08	43,0	18,5	32	M25x1	350
A52192H-27-12	M27x2	23	- 12	55,0	18,5	38	M33x1,5	280
A52192H-33-12	M33x2	23	- 12	54,0	18,5	41	M33x1,5	280



ADAPTORS

MFTM4000



Fluid connectors, solid solutions

manuli[®]
HYDRAULICS

INTRODUCTION

GB

The adaptor is an interface for connecting a number of ports without direct compatibility. Adaptors can be classified into PRODUCT GROUPS (JIC, ORFS, BSP, etc.) depending on end configuration type.

MF4000 range is manufactured from a solid piece of steel. Straight adaptors are manufactured from cold drawn bars and 45°, 90°, Tee and Cross geometry one are forged and then machined. This process eliminates the potential leak points that are typical of brazed fittings.

Standard O-Rings supplied with MF4000 adaptors range are made in NBR 90 ±5 Shore A and they are suitable for petroleum-base and non flammable water-base hydraulic fluids.

Our products are zinc plated so to provide corrosion protection responding to SAE and ISO standards when tested according to ASTM-B117, ISO 9227 salt spray test method.

In order to make the best choice among the product groups, some key features are provided in the following table.

STEEL TUBE FITTINGS COMPARISON

MAIN CHARACTERISTICS

FEATURE		JIC	BSP	ORFS	NPTF	NPSM
PERFORMANCE	Pressure Capability	Medium to High	Medium to High	Very High	Very High	Medium to High
	Seal Reliability	Good	Good	Excellent	Excellent	Good
	Vibration Resistance in Rigid Systems	Good	Very Good	Excellent	Excellent	Very Good
ASSEMBLY		Very Good	Good	Excellent	Excellent	Very Good
		Easy and quick tube preparation and good ease of installation	Easy and quick tube preparation and good ease of installation	Easy and quick tube preparation and excellent ease of installation	Easy and quick tube preparation and excellent ease of installation	Easy and quick tube preparation and good ease of installation
OIL SEAL TYPE		Metal to Metal	Metal to Metal	Elastomeric Seal	Sealing on the thread	Metal to Metal
TEMPERATURE CAPABILITY	Without O-Ring	(-50°C +260°C)	(-50°C +260°C)	NOT AVAILABLE	(-50°C +260°C)	(-50°C +260°C)
	With O-Ring	NOT AVAILABLE**	(-35°C +125°C)	(-35°C +125°C)	NOT AVAILABLE	NOT AVAILABLE
CURRENT USE		Used throughout the world	Mainly used in Japan & British Commonwealth countries	Mainly used in North America, gaining importance in Europe and Japan	Mainly used in the American market	Mainly used in the American market
SPECIFICATIONS		SAE J514 ISO 8434-2	BS 5200 ISO 8434-6	SAE J1453 ISO 8434-3	SAE J514	SAE J514

** For UNF SAE O-Ring male boss temperature capability is -31°F / +257°F -35°C /+ 125°C

ES

El adaptador es una interfase para conectar un número de roscas sin compatibilidad directa. Los adaptadores pueden ser clasificados en GRUPOS DE PRODUCTO (JIC, ORFS, BSP, etc.) dependiendo del tipo de configuración de su terminal.

La gama MF4000 está fabricada de una pieza sólida de acero, tanto rectos como en tes, y en cruz, a 45° y a 90°, las geometrías son forjadas y luego mecanizadas. Este proceso elimina las posibles fugas que son típicas de los adaptadores soldados. Los O-Rings estándares suministrados con los adaptadores MF4000 son de NBR 90 ±5 Shore A y son apropiados para fluidos hidráulicos con base en petróleo y no inflamables con base en agua.

Nuestros productos tienen un cincado plateado para proporcionar protección contra la corrosión respondiendo a los estándares SAE e ISO y para cumplir con el método de evaluación con salmuera ASTM-B177, ISO 9227.

Para hacer su mejor selección entre los grupos de productos, algunos puntos claves son suministrados en la siguiente tabla.

CUADRO COMPARATIVO ENTRE TIPOS DE CONECTOR

CARACTERÍSTICAS PRINCIPALES

RASGOS		JIC	BSP	ORFS	NPTF	NPSM
COMPORTAMIENTO	Capacidad de presión	Media a Alta	Media a Alta	Muy alta	Muy alta	Media a Alta
	Confiabilidad de sellado	Buena	Buena	Excelente	Excelente	Buena
	Resistencia a la vibración en sistemas rígidos	Buena	Muy Buena	Excelente	Excelente	Muy Buena
ENSAMBLE		Muy Buena	Buena	Excelente	Excelente	Muy Buena
		Fácil y rápida preparación del tubo y buena facilidad de instalación	Fácil y rápida preparación del tubo y buena facilidad de instalación	Fácil y rápida preparación del tubo y buena facilidad de instalación	Fácil y rápida preparación del tubo y excelente facilidad de instalación	Fácil y rápida preparación del tubo y buena facilidad de instalación
TIPO DE SELLADO		Metal con Metal	Metal con Metal	Junta Tórica	Deformación Rosca	Metal con Metal
RESISTENCIA A TEMPERATURA	Sin O-Ring	(-50°C +260°C)	(-50°C +260°C)	NO DISPONIBLE	(-50°C +260°C)	(-50°C +260°C)
	Con O-Ring	NO DISPONIBLE**	(-35°C +125°C)	(-35°C +125°C)	NO DISPONIBLE	NO DISPONIBLE
USO ACTUAL		Usado en todo el mundo	Usado principalmente en Japón y los países de la Unión Británica	Usado principalmente en Norteamérica, ganando importancia en Europa y Japón	Usado principalmente en América	Usado principalmente en América
ESPECIFICACIONES		SAE J514 ISO 8434-2	BS 5200 ISO 8434-6	SAE J1453 ISO 8434-3	SAE J514	SAE J514

** Para sae macho con O-Ring tipo boss capacidad de temperatura -31°F / +257°F -35°C / + 125°C

INTRODUCTION

D

Der Adapter ist die Schnittstelle mehrerer Anschlüsse ohne direkte Kompatibilität. Adapter können abhängig von der Anschlussform in verschiedene Produktgruppen (JIC, ORFS, BSP, usw.) eingeteilt werden. Die MF4000 Reihe wird aus massivem Material einteilig gefertigt; gerade Teile aus kalt gezogenem Stahl, 45°, 90°, T, L und Kreuzadapter sind geschmiedet und dann spanend bearbeitet. Diese Fertigungsmethode eliminiert die potentiellen Leckagestellen die für gelötete Teile typisch sind. Die Standard O-Ringe die für die MF4000 Reihe zum Einsatz kommen sind aus NBR mit einer Shore-Härte von 90+5 gefertigt und sind geeignet für den Einsatz mit Hydraulikmedien auf Basis von Mineralöl und nicht brennbaren Medien auf Wasserbasis. Unsere Produkte sind verzinkt und bieten Korrosionsschutz gemäß SAE und ISO und entsprechen den ASTM-B177 und ISO 9227 Salzprüftests. Um Ihnen bei der optimalen Auswahl behilflich zu sein, möchten wir in der folgenden Übersicht die Schlüsselmerkmale der Produktgruppen aufzeigen.

VERGLEICH DER VERSCHIEDENEN ROHRVERSCHRAUBUNGEN EIGENSCHAFT

FEATURE		JIC	BSP	ORFS	NPTF	NPSM
LEISTUNGS-MERKMALE	Druckbelastbarkeit	Mittel bis hoch	Mittel bis hoch	Sehr hoch	Sehr hoch	Mittel bis hoch
	Dichtigkeit	Gut	Gut	Ausgezeichnet	Ausgezeichnet	Gut
	Beständigkeit gegen Vibrationen	Gut	Sehr gut	Ausgezeichnet	Ausgezeichnet	Sehr gut
VERARBEITUNG		Sehr gut	Gut	Ausgezeichnet	Ausgezeichnet	Sehr gut
		Einfache und schnelle Vorbereitung des Rohres, einfache Installation	Einfache und schnelle Vorbereitung des Rohres, einfache Installation	Einfache und schnelle Vorbereitung des Rohres, exzellente Installation	Einfache und schnelle Vorbereitung des Rohres, exzellente Installation	Einfache und schnelle Vorbereitung des Rohres, einfache Installation
DICHTUNGSART		Metall auf Metall	Metall auf Metall	Elastomer Dichtung	Elastomer Dichtung	Metall auf Metall
TEMPERATUR-BESTÄNDIGKEIT	Ohne O-Ring	(-50°C +260°C)	(-50°C +260°C)	NICHT VERFÜGBAR	(-50°C +260°C)	(-50°C +260°C)
	Mit O-Ring	NOT AVAILABLE**	(-35°C +125°C)	(-35°C +125°C)	NICHT VERFÜGBAR	NICHT VERFÜGBAR
GEGENWÄRTIG IM EINSATZ		Weltweit	Haupts. Japan und British Commonwealth	Haupts. Nordamerika, Zunehmende Bedeutung in Europa U. Japan	Haupts. Amerika	Haupts. Amerika
SPEZIFIKATIONEN		SAE J514 ISO 8434-2	BS 5200 ISO 8434-6	SAE J1453 ISO 8434-3	SAE J514	SAE J514

** Für agio sae O-Ring (unf-gewinde) Temperatur-Fähigkeit -31°F / +257°F -35°C / +125°C

IT

L'adattatore è un'interfaccia per la connessione di porte e terminazioni non direttamente compatibili tra loro. Gli adattatori possono essere classificati in gruppi di prodotto (JIC, ORFS, BSP, ecc) che si differenziano a seconda della tipologia di configurazione della terminazione. La serie MF4000 è realizzata in acciaio in un unico pezzo. I pezzi dritti sono prodotti da barre, i pezzi a 45°, a 90°, a "T" e a croce sono forgiati ed in seguito rifiniti per asportazione di truciolo. Tale processo produttivo elimina potenziali perdite tipiche di raccordi saldo-brasati.

Gli O-Ring standard forniti con gli adattatori MF4000 sono realizzati con mescole a base nitrice (NBR) con durezza 90±5 ShA e sono adatti per fluidi idraulici a base minerale e per fluidi non infiammabili a base d'acqua.

I prodotti Manuli sono zincati al fine di proteggere dalla corrosione come da norma SAE o ISO ed inoltre soddisfano le norme ASTM-B177, ISO 9227 essendo testati con la prova di nebbia salina. Nella seguente tabella sono indicati alcuni parametri di riferimento per agevolare la scelta dell'adattatore in base alle specifiche esigenze.

COMPARAZIONE TIPOLOGIA DI RACCORDO

CARATTERISTICHE

FEATURE		JIC	BSP	ORFS	NPTF	NPSM
PERFORMANCE	Resistenza alla pressione	da Media ad Alta	da Media ad Alta	Alta	Alta	da Media ad Alta
	Affidabilità della tenuta	Buona	Buona	Ottima	Ottima	Buona
	Resistenza alle vibrazioni in sistemi rigidi	Buona	Molto Buona	Ottima	Ottima	Molto Buona
ASSEMBLAGGIO		Molto Buona	Buona	Ottima	Ottima	Molto Buona
		Facile e veloce preparazione del tubo e buona installazione	Facile e veloce preparazione del tubo e buona installazione	Facile e veloce preparazione del tubo e buona installazione	Facile e veloce preparazione del tubo e buona installazione	Facile e veloce preparazione del tubo e buona installazione
TIPO DI TENUTA		Metallo su Metallo	Metallo su Metallo	Guarnizione elastomerica	Guarnizione elastomerica	Metallo su Metallo
RESISTENZA AL CALORE	Senza O-Ring	(-50°C +260°C)	(-50°C +260°C)	NON DISPONIBILE	(-50°C +260°C)	(-50°C +260°C)
	Con O-Ring	NON DISPONIBILE**	(-35°C +125°C)	(-35°C +125°C)	NON DISPONIBILE	NON DISPONIBILE
USO CORRENTE		Usato in tutto il mondo	Principalmente usato in Giappone e Paesi britannici	Principalmente usato in nord America, sta guadagnando importanza in Europa ed in Giappone	Principalmente usato in America	Principalmente usato in America
SPECIFICHE		SAE J514 ISO 8434-2	BS 5200 ISO 8434-6	SAE J1453 ISO 8434-3	SAE J514	SAE J514

** Per maschio sae O-Ring capacità di temperatura -31°F / +257°F -35°C /+ 125°C

INTRODUCTION

FITTINGS AND ADAPTORS INTEGRATION COUPLING CHART FOR MANULI FITTINGS & ADAPTORS

TYPE	JIC 37°	BSP 30°	ORFS FACE SEAL	NPTF / NPSM
 MULTIFIT	M12510	M10710	M12410	M12810
	M22512/M22513	M10510	M22411	M14110...R
	M22712	M20512/M20513	M22491 /M22493	M22812
	M22592/M22593	M20592/M20593	M22441 /M22443	
	M22542/M22543	M20542/M20543	M24493	
	M22582	M20812/M20813		
	M24792	M20892/M20893		
		M20842 / M20843		
 INTERLOCK PLUS	M42512	M30710	M42411	M32810
	M42592	M30510	M42491	
	M42542	M40812	M42441	
		M40892		
		M40842		
 PUSH-LOCK		L10510		
		L20513		
		L20593		
		L20543		



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).

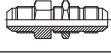
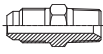
No se aconseja una frecuente conexión y desconexión.

Die Dichtheit wird durch Kopplung des konischen Innengewindes mit dem konischen Außengewinde erzielt (Deformierung des Gewindes).

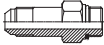
La tenuta si ottiene accoppiando la femmina conica e il maschio conico (distorsione del filetto).

REFERENCE	DESCRIPTION	PAGE
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MF4000® JIC ADAPTORS

A402500 	JIC MALE PLUG 37° CONE (SAE J514 / ISO 8434-2) TAPÓN MACHO JIC CONO 37° (SAE J514 / ISO 8434-2) JIC 37° AG STOPFEN (SAE J514 / ISO 8434-2) TAPPO MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)	296
A412500 	JIC FEMALE PLUG 37° CONE SEAT (SAE J514 / ISO 8434-2) TAPÓN HEMBRA CONO 37° (SAE J514 / ISO 8434-2) JIC 37° AG VERSCHLUSSKAPPE KONISCHER SITZ (SAE J514 / ISO 8434-2) TAPPO FEMMINA JIC CONO 37° (SAE J514 / ISO 8434-2)	296
A432500 	JIC METRIC TUBE NUT (SAE J514 / ISO 8434-2) TUERCA JIC PARA TUBO EN MM (SAE J514 / ISO 8434-2) JIC ROHRMUTTER METNSCH (SAE J514 / ISO 8434-2) DADO JIC PER TUBI METRICI (SAE J514 / ISO 8434-2)	297
A422500 	JIC METRIC TUBE SLEEVE (SAE J514 / ISO 8434-2) FÉRULA JIC PARA TUBO EN MM (SAE J514 / ISO 8434-2) JIC METRISCH ROHR-FÜHRUNGSRING (SAE J514 / ISO 8434-2) BUSSOLA JIC PER TUBI METRICI (SAE J514 / ISO 8434-2)	297
A502525 	UNION JIC MALE 37° CONE (SAE J514 / ISO 8434-2) UNIÓN MACHO CONO JIC 37° (SAE J514 / ISO 8434-2) JIC AG 37° KONISCHES ENDE - VERBINDER (SAE J514 / ISO 8434-2) GIUNZIONE MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)	298
A502523 	BULKHEAD UNION JIC MALE 37° CONE (SAE J514 / ISO 8434-2) PASATABIQUE RECTO JIC CONO 37° (SAE J514 / ISO 8434-2) JIC AG 37° KONISCHES ENDE - VERBINDER SCHOTTWAND (SAE J514 / ISO 8434-2) GIUNZIONE PASSAPARETE MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)	298
A522525 	JIC MALE 37° CONE - JIC FEMALE 37° CONE SEAT (SAE J514 / ISO 8434-2) MACHO JIC 37° - HEMBRA JIC 37° (SAE J514 / ISO 8434-2) JIC AG 37° KONISCHES ENDE - JIC IG 37° KONISCHES DICHTSITZ (SAE J514 / ISO 8434-2) MASCHIO JIC CONO 37° - FEMMINA JIC CONO 37° (SAE J514 / ISO 8434-2)	299
A502505 	JIC MALE 37° CONE (SAE J514 / ISO 8434-2) - BSP MALE 60° CONE SEAT DIN PROFILE (BS5200 / ISO 8434-6) MACHO JIC 37° (SAE J514 / ISO 8434-2) - MACHO BSP 60° PERFIL DIN (BS5200 / ISO 8434-6) JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2) - BSP AG 60° KONISCHES ENDE DIN PROFIL (BS5200 / ISO 8434-6) MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2) - MASCHIO BSP CONO 60° PROFILO DIN (BS5200 / ISO 8434-6)	300
A502503 	JIC MALE 37° CONE (SAE J514 / ISO 8434-2) - BSP MALE O-RING BOSS TYPE (ISO 1179-3) MACHO JIC 37° (SAE J514 / ISO 8434-2) - MACHO UNF TIPO O-RING BOSS (ISO 1179-3) JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2) - BSP AG MIT O-RING NUT (ISO 1179-3) MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2) - MASCHIO BSP TENUTA O-RING (ISO 1179-3)	301
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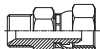
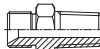
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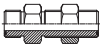
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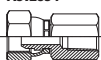
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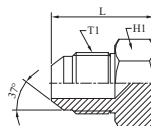
A402500

JIC MALE PLUG 37° CONE (SAE J514 / ISO 8434-2)

TAPÓN MACHO JIC CONO 37° (SAE J514 / ISO 8434-2)

JIC 37° AG STOPFEN (SAE J514 / ISO 8434-2)

TAPPO MASCHIO JIC CONO 37° (SAE J514/ ISO 8434-2)



PART. REF.	THREADS	DIMENSIONS mm	
	T ₁ (UNF)	L	H ₁
A402500-04	7/16" - 20	20,0	14
A402500-05	1/2" - 20	21,0	14
A402500-06	9/16" - 18	23,0	16
A402500-08	3/4" - 16	25,0	22
A402500-10	7/8" - 14	29,0	24
A402500-12	1.1/16" - 12	33,0	30
A402500-14	1.3/16" - 12	34,0	32
A402500-16	1.5/16" - 12	36,0	35
A402500-20	1.5/8" - 12	39,0	43
A402500-24	1.7/8" - 12	44,0	50

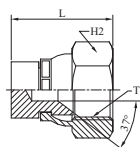
A412500

JIC FEMALE PLUG 37° CONE SEAT (SAE J514 / ISO 8434-2)

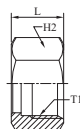
TAPÓN HEMBRA CONO 37° (SAE J514 / ISO 8434-2)

JIC 37° AG VERSCHLUßKAPPE KONISCHER SITZ (SAE J514 / ISO 8434-2)

TAPPO FEMMINA JIC CONO 37° (SAE J514/ ISO 8434-2)



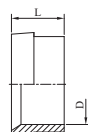
PART. REF.	THREADS	DIMENSIONS mm	
	T ₁ (UNF)	L	H ₂
A412500-04	7/16" - 20	24,0	16
A412500-05	1/2" - 20	25,0	16
A412500-06	9/16" - 18	27,0	19
A412500-08	3/4" - 16	31,0	22
A412500-10	7/8" - 14	32,0	27
A412500-12	1.1/16" - 12	34,0	32
A412500-14	1.3/16" - 12	34,0	35
A412500-16	1.5/16" - 12	39,0	38
A412500-20	1.5/8" - 12	44,0	50
A412500-24	1.7/8" - 12	48,0	55



A432500

JIC METRIC TUBE NUT (SAE J514 / ISO 8434-2)
 TUERCA JIC PARA TUBO EN MM (SAE J514 / ISO 8434-2)
 JIC ROHRMUTTER METNSCH (SAE J514 / ISO 8434-2)
 DADO JIC PER TUBI METRICI (SAE J514 / ISO 8434-2)

PART. REF.	O.D. PIPE mm	THREADS	DIMENSIONS mm	
		T ₁ (UNF)	L	H ₂
A432500-06-04	6	7/16" - 20	15,5	16
A432500-08-05	8	1/2" - 20	17,0	17
A432500-10-06	10	9/16" - 18	18,3	19
A432500-12-08	12	3/4" - 16	21,3	24
A432500-14-10	14	7/8" - 14	24,5	27
A432500-15-10	15	7/8" - 14	24,5	27
A432500-16-10	16	7/8" - 14	24,5	27
A432500-18-12	18	1.1/16" - 12	26,0	32
A432500-20-12	20	1.1/16" - 12	26,0	32
A432500-25-16	25	1.5/16" - 12	28,5	38
A432500-30-20	30	1.5/8" - 12	31,0	50
A432500-32-20	32	1.5/8" - 12	31,0	50
A432500-38-24	38	1.7/8" - 12	36,0	55



A422500

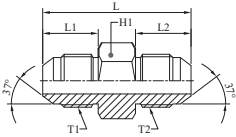
JIC METRIC TUBE SLEEVE (SAE J514 / ISO 8434-2)
 FÉRULA JIC PARA TUBO EN MM (SAE J514 / ISO 8434-2)
 JIC METRISCH ROHR-FÜHRUNGSRING (SAE J514 / ISO 8434-2)
 BUSSOLA JIC PER TUBI METRICI (SAE J514 / ISO 8434-2)

PART. REF.	O.D. PIPE mm	THREADS	DIMENSIONS mm	
	D	T ₁ (UNF)	L	
A422500-06-04	6	7/16" - 20	10,5	
A422500-08-05	8	1/2" - 20	11,5	
A422500-10-06	10	9/16" - 18	12,5	
A422500-12-08	12	3/4" - 16	14,5	
A422500-14-10	14	7/8" - 14	16,5	
A422500-15-10	15	7/8" - 14	16,5	
A422500-16-10	16	7/8" - 14	16,5	
A422500-18-12	18	1.1/16" - 12	17,0	
A422500-20-12	20	1.1/16" - 12	17,0	
A422500-25-16	25	1.5/16" - 12	19,5	
A422500-30-20	30	1.5/8" - 12	23,0	
A422500-32-20	32	1.5/8" - 12	23,0	
A422500-38-24	38	1.7/8" - 12	28,5	

JIC ADAPTORS

A502525

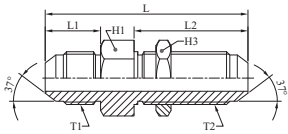
UNION JIC MALE 37° CONE (SAE J514 / ISO 8434-2)
UNIÓN MACHO CONO JIC 37° (SAE J514 / ISO 8434-2)
JIC AG 37° KONISCHES ENDE - VERBINDER (SAE J514 / ISO 8434-2)
GIUNZIONE MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)



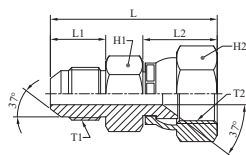
PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (UNF)	L	L ₁	L ₂	H ₁
A502525-04-04	7/16" - 20	7/16" - 20	34,0	14,0	14,0	12
A502525-05-05	1/2" - 20	1/2" - 20	36,0	14,0	14,0	14
A502525-06-06	9/16" - 18	9/16" - 18	38,0	14,0	14,0	14
A502525-06-08	9/16" - 18	3/4" - 16	43,0	14,0	16,7	19
A502525-08-08	3/4" - 16	3/4" - 16	41,0	16,7	16,7	19
A502525-08-10	3/4" - 16	7/8" - 14	48,0	16,7	19,3	22
A502525-10-10	7/8" - 14	7/8" - 14	46,0	19,3	19,3	22
A502525-10-12	7/8" - 14	1.1/16" - 12	56,0	19,3	21,9	27
A502525-12-12	1.1/16" - 12	1.1/16" - 12	52,0	21,9	21,9	27
A502525-16-16	1.5/16" - 12	1.5/16" - 12	60,0	23,1	23,1	35
A502525-20-20	1.5/8" - 12	1.5/8" - 12	65,0	24,3	24,3	44
A502525-24-24	1.7/8" - 12	1.7/8" - 12	71,0	27,5	27,5	50
A502525-32-32	2.1/2" - 12	2.1/2" - 12	86,0	33,9	33,9	65

A502523

BULKHEAD UNION JIC MALE 37° CONE (SAE J514 / ISO 8434-2)
PASATABIQUE RECTO JIC CONO 37° (SAE J514 / ISO 8434-2)
JIC AG 37° KONISCHES ENDE - VERBINDER SCHOTTWAND (SAE J514 / ISO 8434-2)
GIUNZIONE PASSAPARETE MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)



PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (UNF)	T ₂ (UNF)	L	L ₁	L ₂	H ₁	H ₃
A502523-04-04	7/16" - 20	7/16" - 20	52,5	14,0	31,5	17	17
A502523-05-05	1/2" - 20	1/2" - 20	53,5	14,0	31,0	19	19
A502523-06-06	9/16" - 18	9/16" - 18	56,0	14,0	33,0	22	22
A502523-08-08	3/4" - 16	3/4" - 16	62,0	16,7	36,0	24	24
A502523-10-10	7/8" - 14	7/8" - 14	69,5	19,3	40,0	30	30
A502523-12-12	1.1/16" - 12	1.1/16" - 12	79,0	21,9	45,5	36	36
A502523-16-16	1.5/16" - 12	1.5/16" - 12	80,0	23,1	45,5	41	41
A502523-20-20	1.5/8" - 12	1.5/8" - 12	87,0	24,3	46,5	50	50
A502523-24-24	1.7/8" - 12	1.7/8" - 12	90,0	27,5	47,0	55	55
A502523-32-32	2.1/2" - 12	2.1/2" - 12	106,5	33,9	53,0	70	70



A522525

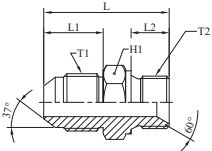
JIC MALE 37° CONE - JIC FEMALE 37° CONE SEAT (SAE J514 / ISO 8434-2)
 MACHO JIC 37° - HEMBRA JIC 37° (SAE J514 / ISO 8434-2)
 JIC AG 37° KONISCHES ENDE - JIC IG 37° KONISCHES DICHTSITZ (SAE J514 / ISO 8434-2)
 MASCHIO JIC CONO 37° - FEMMINA JIC CONO 37° (SAE J514 / ISO 8434-2)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (UNF)	L	L ₁	H ₁	H ₂
A522525-04-06	7/16" - 20	9/16" - 18	42,0	14,0	14	19
A522525-04-08	7/16" - 20	3/4" - 16	47,0	14,0	19	22
A522525-04-10	7/16" - 20	7/8" - 14	50,0	14,0	22	27
A522525-04-12	7/16" - 20	1.1/16" - 12	55,0	14,0	27	32
A522525-05-06	1/2" - 20	9/16" - 18	42,0	14,0	14	19
A522525-05-08	1/2" - 20	3/4" - 16	47,0	14,0	19	22
A522525-06-06	9/16" - 18	9/16" - 18	42,0	14,0	14	19
A522525-06-08	9/16" - 18	3/4" - 16	48,0	14,0	19	22
A522525-06-10	9/16" - 18	7/8" - 14	51,0	14,0	22	27
A522525-06-12	9/16" - 18	1.1/16" - 12	55,0	14,0	27	32
A522525-08-08	3/4" - 16	3/4" - 16	50,0	16,7	19	22
A522525-08-10	3/4" - 16	7/8" - 14	53,0	16,7	22	27
A522525-08-12	3/4" - 16	1.1/16" - 12	56,0	16,7	27	32
A522525-10-12	7/8" - 14	1.1/16" - 12	58,0	19,3	27	32
A522525-12-14	1.1/16" - 12	1.3/16" - 12	62,0	21,9	30	35
A522525-12-16	1.1/16" - 12	1.5/16" - 12	67,0	21,9	35	38
A522525-12-20	1.1/16" - 12	1.5/8" - 12	71,0	21,9	43	50
A522525-14-16	1.3/16" - 12	1.5/16" - 12	68,0	22,6	35	38
A522525-14-20	1.3/16" - 12	1.5/8" - 12	70,0	22,6	43	50
A522525-16-20	1.5/16" - 12	1.5/8" - 12	70,0	23,1	43	50
A522525-20-24	1.5/8" - 12	1.7/8" - 12	78,0	24,3	50	55

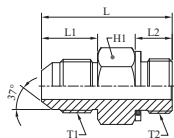
JIC ADAPTORS

A502505

JIC MALE 37° CONE (SAE J514 / ISO 8434-2)
BSP MALE 60° CONE SEAT DIN PROFILE (BS5200 / ISO 8434-6)
MACHO JIC 37° (SAE J514 / ISO 8434-2)
MACHO BSP 60° PERFIL DIN (BS5200 / ISO 8434-6)
JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2)
BSP AG 60° KONISCHES ENDE DIN PROFIL (BS5200 / ISO 8434-6)
MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)
MASCHIO BSP CONO 60° PROFILO DIN (BS5200 / ISO 8434-6)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (BSPP)	L ₁	L ₂	L	H ₁
A502505-04-04	7/16" - 20	1/4" - 19	14,0	11,0	33	19
A502505-05-04	1/2" - 20	1/4" - 19	14,0	11,0	34	19
A502505-06-04	9/16" - 18	1/4" - 19	14,0	11,0	35	19
A502505-06-06	9/16" - 18	3/8" - 19	14,0	12,0	35	22
A502505-08-06	3/4" - 16	3/8" - 19	16,7	12,0	38	22
A502505-10-08	7/8" - 14	1/2" - 14	19,3	14,0	45	27
A502505-10-12	7/8" - 14	3/4" - 14	19,3	16,0	49	32
A502505-12-08	1.1/16" - 12	1/2" - 14	21,9	14,0	47	27
A502505-12-12	1.1/16" - 12	3/4" - 14	21,9	16,0	50	32



A502503

JIC MALE 37° CONE (SAE J514 / ISO 8434-2) - BSP MALE O-RING BOSS TYPE (ISO 1179-3)
 MACHO JIC 37° (SAE J514 / ISO 8434-2) - MACHO UNF TIPO O-RING BOSS (ISO 1179-3)
 JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2) - BSP AG MIT O-RING NUT (ISO 1179-3)
 MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2) - MASCHIO BSP TENUTA O-RING (ISO 1179-3)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (BSP)	L	L ₁	L ₂	H ₁
A502503-04-02	7/16" - 20	1/8" - 28	30,0	14,0	7,6	14
A502503-04-04	7/16" - 20	1/4" - 19	36,0	14,0	11,2	19
A502503-04-06	7/16" - 20	3/8" - 19	36,5	14,0	11,2	22
A502503-04-08	7/16" - 20	1/2" - 14	40,5	14,0	14,5	27
A502503-05-02	1/2" - 20	1/8" - 28	30,0	14,0	7,6	14
A502503-05-04	1/2" - 20	1/4" - 19	36,5	14,0	11,2	19
A502503-05-06	1/2" - 20	3/8" - 19	36,5	14,0	11,2	22
A502503-06-04	9/16" - 18	1/4" - 19	37,0	14,0	11,2	19
A502503-06-06	9/16" - 18	3/8" - 19	37,0	14,0	11,2	22
A502503-06-08	9/16" - 18	1/2" - 14	41,0	14,0	14,5	27
A502503-08-04	3/4" - 16	1/4" - 19	39,0	16,7	11,2	19
A502503-08-06	3/4" - 16	3/8" - 19	39,0	16,7	11,2	22
A502503-08-08	3/4" - 16	1/2" - 14	43,0	16,7	14,5	27
A502503-08-12	3/4" - 16	3/4" - 14	47,0	16,7	14,5	32
A502503-10-06	7/8" - 14	3/8" - 19	42,0	19,3	11,2	22
A502503-10-08	7/8" - 14	1/2" - 14	45,0	19,3	14,5	27
A502503-10-12	7/8" - 14	3/4" - 14	49,0	19,3	14,5	32
A502503-12-08	1.1/16" - 12	1/2" - 14	48,0	21,9	14,5	27
A502503-12-12	1.1/16" - 12	3/4" - 14	52,0	21,9	14,5	32
A502503-12-16	1.1/16" - 12	1" - 11	55,0	21,9	18,6	41
A502503-14-12	1.3/16" - 12	3/4" - 14	54,0	22,6	14,5	32
A502503-16-12	1.5/16" - 12	3/4" - 14	53,0	23,1	14,5	35
A502503-16-16	1.5/16" - 12	1" - 11	55,0	23,1	18,6	41
A502503-16-20	1.5/16" - 12	1.1/4" - 11	60,0	23,1	18,6	50
A502503-20-16	1.5/8" - 12	1" - 11	59,0	24,3	18,6	43
A502503-20-20	1.5/8" - 12	1.1/4" - 11	62,0	24,3	18,6	50
A502503-24-20	1.7/8" - 12	1.1/4" - 11	64,0	27,5	18,6	50
A502503-24-24	1.7/8" - 12	1.1/2" - 11	67,0	27,5	18,6	55

JIC ADAPTORS

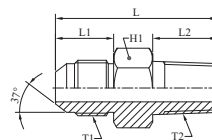
A502507

JIC MALE 37° CONE (SAE J514 / ISO 8434-2) - BSP MALE TAPERED (ISO 7)

MACHO 37° (SAE J514 / ISO 8434-2) - MACHO CÓNICO BSP (ISO 7)

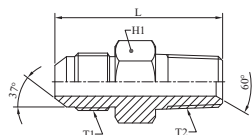
JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2) - BSP KONISCHES AG (ISO 7)

MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2) - MASCHIO BSP CONICO (ISO 7)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (BSPT)	L	L ₁	L ₂	H ₁
A502507-04-02	7/16" - 20	1/8" - 28	31,0	14,0	10,0	12
A502507-04-04	7/16" - 20	1/4" - 19	34,0	14,0	14,0	14
A502507-04-06	7/16" - 20	3/8" - 19	40,0	14,0	16,0	19
A502507-05-02	1/2" - 20	1/8" - 28	32,0	14,0	10,0	14
A502507-05-04	1/2" - 20	1/4" - 19	36,0	14,0	14,0	14
A502507-05-06	1/2" - 20	3/8" - 19	40,0	14,0	16,0	19
A502507-05-08	1/2" - 20	1/2" - 14	44,0	14,0	18,0	22
A502507-06-02	9/16" - 18	1/8" - 28	33,0	14,0	10,0	14
A502507-06-04	9/16" - 18	1/4" - 19	36,0	14,0	14,0	14
A502507-06-06	9/16" - 18	3/8" - 19	40,0	14,0	16,0	19
A502507-06-08	9/16" - 18	1/2" - 14	44,0	14,0	18,0	22
A502507-08-04	3/4" - 16	1/4" - 19	40,0	16,7	14,0	19
A502507-08-06	3/4" - 16	3/8" - 19	41,0	16,7	16,0	19
A502507-08-08	3/4" - 16	1/2" - 14	45,0	16,7	18,0	22
A502507-08-12	3/4" - 16	3/4" - 14	49,0	16,7	20,0	27
A502507-10-06	7/8" - 14	3/8" - 19	42,5	19,3	16,0	22
A502507-10-08	7/8" - 14	1/2" - 14	46,0	19,3	18,0	22
A502507-10-12	7/8" - 14	3/4" - 14	50,0	19,3	20,0	27
A502507-12-08	1.1/16" - 12	1/2" - 14	51,0	21,9	18,0	27
A502507-12-12	1.1/16" - 12	3/4" - 14	53,0	21,9	20,0	27
A502507-12-16	1.1/16" - 12	1" - 11	59,0	21,9	23,0	35
A502507-16-12	1.5/16" - 12	3/4" - 14	57,0	23,1	20,0	35
A502507-16-16	1.5/16" - 12	1" - 11	60,0	23,1	23,0	35
A502507-16-20	1.5/16" - 12	1.1/4" - 11	65,0	23,1	26,0	44
A502507-20-16	1.5/8" - 12	1" - 11	65,0	24,3	23,0	44
A502507-20-20	1.5/8" - 12	1.1/4" - 11	65,0	24,3	26,0	44
A502507-20-24	1.5/8" - 12	1.1/2" - 11	71,0	24,3	27,0	50
A502507-24-20	1.7/8" - 12	1.1/4" - 11	71,0	27,5	26,0	50
A502507-24-24	1.7/8" - 12	1.1/2" - 11	71,0	27,5	27,0	50
A502507-24-32	1.7/8" - 12	2" - 11	81,0	27,5	30,0	65
A502507-32-24	2.1/2" - 12	1.1/2" - 11	81,0	33,9	27,0	65
A502507-32-32	2.1/2" - 12	2" - 11	86,0	33,9	30,0	65

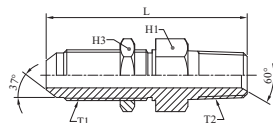
A502528



JIC MALE 37° CONE (SAE J514 / ISO 8434-2) - NPTF MALE 60° CONE SEAT (SAE J514)
 MACHO JIC 37° (SAE J514 / ISO 8434-2) - MACHO NPTF CONO 60° (SAE J514)
 JIC AG MIT 37° KONISCHES ENDE (SAE J514 / ISO 8434-2)
 NPTF AG KONISCHES ENDE 60° (SAE J514)
 MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2) - MASCHIO NPTF CONO 60° (SAE J514)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (NPTF)	L	H ₁		
A502528-04-02	7/16"-20	1/8"-27	31,0	13		
A502528-04-04	7/16"-20	1/4"-18	36,0	14		
A502528-05-04	1/2"-20	1/4"-18	36,0	14		
A502528-06-04	9/16"-18	1/4"-18	36,3	16		
A502528-06-06	9/16"-18	3/8"-18	36,3	19		
A502528-06-08	9/16"-18	1/2"-14	42,9	22		
A502528-08-06	3/4"-16	3/8"-18	38,9	19		
A502528-08-08	3/4"-16	1/2"-14	45,5	22		
A502528-10-08	7/8"-14	1/2"-14	48,0	24		
A502528-10-12	7/8"-14	3/4"-14	49,5	27		
A502528-12-08	1.1/16"-12	1/2"-14	52,3	27		
A502528-12-12	1.1/16"-12	3/4"-14	52,3	27		
A502528-12-16	1.1/16"-12	1"-11,5	57,2	35		
A502528-16-12	1.5/16"-12	3/4"-14	53,6	35		
A502528-16-16	1.5/16"-12	1"-11,5	58,4	35		
A502528-16-20	1.5/16"-12	1.1/4"-11,5	61,0	44		
A502528-20-20	1.5/8"-12	1.1/4"-11,5	62,2	44		
A502528-24-24	1.7/8"-12	1.1/2"-11,5	68,0	50		

A502328



JIC MALE BULKHEAD 37° CONE (SAE J514 / ISO 8434-2) - NPTF MALE 60° CONE SEAT (SAE J514)
 PASATABIQUE RECTO MACHO JIC 37° (SAE J514 / ISO 8434-2)
 MACHO NPTF CONO 60° (SAE J514)
 JIC AG FÜR SCHOTTWAND 37° KONISCHESENDE (SAE J514 / ISO 8434-2)
 NPTF AG 60° KONISCHES ENDE (SAE J514)
 MASCHIO JIC PASSAPARETE CONO 37° (SAE J514 / ISO 8434-2)
 MASCHIO NPTF CONO 60° (SAE J514)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (NPTF)	L	H ₁	H ₃	
A502328-04-04	7/16"-20	1/4"-18	52,8	17	17	
A502328-06-04	9/16"-18	1/4"-18	55,4	22	22	
A502328-08-06	3/4"-16	3/8"-18	61,7	24	24	
A502328-10-08	7/8"-14	1/2"-14	71,1	30	30	
A502328-12-12	1.1/16"-12	3/4"-14	74,2	36	36	
A502328-16-16	1.5/16"-12	1"-11,5	78,7	41	41	

JIC ADAPTORS

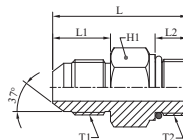
A502530

JIC MALE 37° CONE (SAE J514 / ISO 8434-2) - SAE MALE O-RING BOSS TYPE (ISO 11926)

MACHO JIC 37° (SAE J514 / ISO 8434-2) - MACHO UNF TIPO O-RING BOSS (ISO 11926)

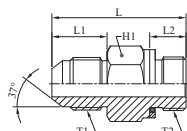
JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2) - SAE AG MIT O-RING NUT (ISO 11926)

MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2) - MASCHIO SAE TENUTA O-RING (ISO 11926)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (UNF)	L	L ₁	L ₂	H ₁
A502530-04-04	7/16" - 20	7/16" - 20	31,0	14,0	9,5	14
A502530-04-05	7/16" - 20	1/2" - 20	31,0	14,0	9,5	16
A502530-04-06	7/16" - 20	9/16" - 18	34,0	14,0	10,0	19
A502530-05-04	1/2" - 20	7/16" - 20	32,0	14,0	9,5	14
A502530-05-05	1/2" - 20	1/2" - 20	32,0	14,0	9,5	16
A502530-05-06	1/2" - 20	9/16" - 18	34,0	14,0	10,0	19
A502530-06-04	9/16" - 18	7/16" - 20	32,0	14,0	9,5	14
A502530-06-05	9/16" - 18	1/2" - 20	32,0	14,0	9,5	16
A502530-06-06	9/16" - 18	9/16" - 18	35,0	14,0	10,0	19
A502530-06-08	9/16" - 18	3/4" - 16	36,5	14,0	11,5	22
A502530-06-12	9/16" - 18	1.1/16" - 12	45,0	14,0	15,5	32
A502530-08-06	3/4" - 16	9/16" - 18	37,0	16,7	10,0	19
A502530-08-08	3/4" - 16	3/4" - 16	37,5	16,7	11,5	22
A502530-08-10	3/4" - 16	7/8" - 14	41,5	16,7	13,0	27
A502530-08-12	3/4" - 16	1.1/16" - 12	47,0	16,7	15,5	32
A502530-10-08	7/8" - 14	3/4" - 16	41,5	19,3	11,5	22
A502530-10-10	7/8" - 14	7/8" - 14	43,0	19,3	13,0	27
A502530-10-12	7/8" - 14	1.1/16" - 12	48,0	19,3	15,5	32
A502530-12-08	1.1/16" - 12	3/4" - 16	45,0	21,9	11,5	27
A502530-12-10	1.1/16" - 12	7/8" - 14	47,0	21,9	13,0	27
A502530-12-12	1.1/16" - 12	1.1/16" - 12	51,0	21,9	15,5	32
A502530-12-16	1.1/16" - 12	1.5/16" - 12	52,0	21,9	15,5	38
A502530-16-12	1.5/16" - 12	1.1/16" - 12	53,0	23,1	15,5	35
A502530-16-16	1.5/16" - 12	1.5/16" - 12	54,0	23,1	15,5	38
A502530-16-20	1.5/16" - 12	1.5/8" - 12	56,0	23,1	15,5	50
A502530-20-20	1.5/8" - 12	1.5/8" - 12	58,5	24,3	15,5	50
A502530-24-24	1.7/8" - 12	1.7/8" - 12	60,0	27,5	15,5	55
A502530-32-32	2.1/2" - 12	2.1/2" - 12	70,5	33,9	15,5	70

A502519



JIC MALE 37° CONE (SAE J514 / ISO 8434-2)
METRIC MALE WITH O-RING AND RETAINING RING (ISO 6149)

MACHO JIC 37° (SAE J514 / ISO 8434-2)

MACHO METRICO CON O-RING Y WASHER (ISO 6149)

JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2)

METRISCHES AG MIT O-RING NUT UND SICHERUNGSRING (ISO 6149)

MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)

MASCHIO METRICO TENUTA O-RING CON RONDELLA (ISO 6149)

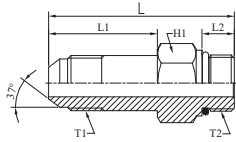
PART. REF.	THREADS	DIMENSIONS mm				
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	T ₁ (UNF)	T ₂ (METRIC)	L	L ₁	L ₂	H ₁
A502519-04-10	7/16" - 20	10x1	30,0	14,0	9,5	16
A502519-04-12	7/16" - 20	12x1.5	34,0	14,0	11,0	19
A502519-05-10	1/2" - 20	10x1	30,0	14,0	9,5	16
A502519-05-12	1/2" - 20	12x1.5	35,0	14,0	11,0	19
A502519-05-14	1/2" - 20	14x1.5	35,0	14,0	11,0	19
A502519-05-18	1/2" - 20	18x1.5	38,0	14,0	14,0	22
A502519-06-12	9/16" - 18	12x1.5	35,0	14,0	11,0	19
A502519-06-14	9/16" - 18	14x1.5	35,0	14,0	11,0	19
A502519-06-16	9/16" - 18	16x1.5	37,5	14,0	12,5	22
A502519-06-18	9/16" - 18	18x1.5	39,0	14,0	14,0	22
A502519-06-22	9/16" - 18	22x1.5	42,0	14,0	15,0	27
A502519-08-16	3/4" - 16	16x1.5	39,0	16,7	12,5	22
A502519-08-18	3/4" - 16	18x1.5	41,0	16,7	14,0	24
A502519-10-18	7/8" - 14	18x1.5	42,0	19,3	14,0	24
A502519-10-22	7/8" - 14	22x1.5	45,0	19,3	15,0	27
A502519-12-22	1.1/16" - 12	22x1.5	49,0	21,9	15,0	27
A502519-12-27	1.1/16" - 12	27x2	54,0	21,9	18,5	32
A502519-16-27	1.5/16" - 12	27x2	55,0	23,1	18,5	35
A502519-16-33	1.5/16" - 12	33x2	56,0	23,1	18,5	41
A502519-20-42	1.5/8" - 12	42x2	62,0	24,3	19,0	50
A502519-24-48	1.7/8" - 12	48x2	67,0	27,5	21,5	55

JIC ADAPTORS

A502230

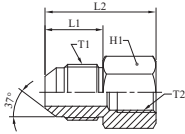
JIC MALE LONG 37° CONE (SAE J514) - SAE MALE O-RING BOSS TYPE (ISO 11926)
MACHO LARGO JIC 37° (SAE J514) - MACHO UNF TIPO O-RING BOSS (ISO 11926)
JIC AG 37° KONISCHES ENDE (SAE J514) - SAE AG O-RINGNUT AUSFÜHRUNG (ISO 11926)
PROLUNGA MASCHIO JIC CONO 37° (SAE J514) - MASCHIO SAE TENUTA O-RING (ISO 11926)



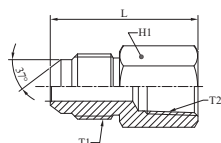
PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (UNF)	L	L ₁	L ₂	H ₁
A502230-04-04	7/16" - 20	7/16" - 20	53,0	35,5	9,5	14
A502230-05-05	1/2" - 20	1/2" - 20	54,5	37,0	9,5	16
A502230-06-06	9/16" - 18	9/16" - 18	58,5	39,5	10,0	19
A502230-08-08	3/4" - 16	3/4" - 16	68,5	48,0	11,5	22
A502230-10-10	7/8" - 14	7/8" - 14	77,0	53,0	13,0	27
A502230-12-12	1.1/16" - 12	1.1/16" - 12	91,5	63,5	15,5	32
A502230-16-16	1.5/16" - 12	1.5/16" - 12	101,0	72,0	15,5	38
A502230-20-20	1.5/8" - 12	1.5/8" - 12	119,0	88,0	15,5	50
A502230-24-24	1.7/8" - 12	1.7/8" - 12	130,5	98,5	15,5	55
A502230-32-32	2.1/2" - 12	2.1/2" - 12	160,0	123,0	15,5	70

A522504

JIC MALE 37° CONE (SAE J514 / ISO 8434-2) - BSP FIXED FEMALE (ISO 1179-1)
MACHO JIC 37° (SAE J514 / ISO 8434-2) - HEMBRA FIJA BSP (ISO 1179-1)
JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2) - BSP IG (ISO 1179-1)
MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2) - FEMMINA FISSA BSP (ISO 1179-1)



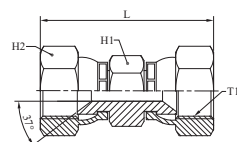
PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (BSPP)	L ₁	L ₂	H ₁	
A522504-04-04	7/16"-20	1/4"-19	14,0	35,0	19	
A522504-05-04	1/2"-20	1/4"-19	14,0	35,0	19	
A522504-06-04	9/16"-18	1/4"-19	14,0	35,0	19	
A522504-08-06	3/4"-16	3/8"-19	16,7	39,0	22	
A522504-12-08	1.1/16"-12	1/2"-14	21,9	49,0	30	
A522504-12-12	1.1/16"-12	3/4"-14	21,9	52,0	36	
A522504-20-20	1.5/8"-12	1.1/4"-11	24,3	63,0	50	



A522534

JIC MALE 37° CONE (SAE J514 / ISO 8434-2) - NPTF FIXED FEMALE (SAE J514)
 MACHO JIC 37° (SAE J514 / ISO 8434-2) - HEMBRA FIJA NPTF (SAE J514)
 JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2) - NPTF IG (SAE J514)
 MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2) - FEMMINA FISSA NPTF (SAE J514)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (NPTF)	L	H ₁		
A522534-04-04	7/16"-20	1/4"-18	35,3	19		
A522534-05-04	1/2"-20	1/4"-18	35,3	19		
A522534-06-04	9/16"-18	1/4"-18	35,6	19		
A522534-06-06	9/16"-18	3/8"-18	37,0	22		
A522534-08-08	3/4"-16	1/2"-14	45,5	27		
A522534-10-08	7/8"-14	1/2"-14	48,0	27		
A522534-12-12	1.1/16"-12	3/4"-14	52,3	35		
A522534-16-16	1.5/16"-12	1"-11,5	59,7	41		
A522534-20-20	1.5/8"-12	1.1/4"-11,5	63,3	50		



A512525

UNION JIC FEMALE 37° CONE SEAT (SAE J514 / ISO 8434-2)
 UNIÓN HEMBRA JIC 37° (SAE J514 / ISO 8434-2)
 JIC IG 37° KONISCHER DICHTSITZ VERBINDER (SAE J514 / ISO 8434-2)
 GIUNZIONE FEMMINA JIC CONO 37° (SAE J514 / ISO 8434-2)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (UNF)	L	H ₁	H ₂	
A512525-08-08	3/4" - 16	3/4" - 16	51,0	22	22	
A512525-10-10	7/8" - 14	7/8" - 14	57,0	27	27	
A512525-12-12	1.1/16" - 12	1.1/16" - 12	62,0	32	32	

JIC ADAPTORS

A520325

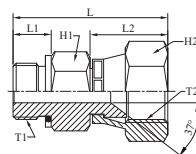
JIC FEMALE 37° CONE SEAT (SAE J514 / ISO 8434-2) - BSP MALE O-RING BOSS TYPE (ISO 1179-3)

HEMBRA JIC 37° (SAE J514 / ISO 8434-2) - MACHO BSP TIPO O-RING BOSS (ISO 1179-3)

JIC IG 37° KONISCHER DICHTSITZ (SAE J514 / ISO 8434-2)

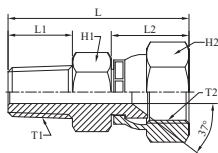
BSP AG O-RINGNUT AUSFÜHRUNG (ISO 1179-3)

FEMMINA JIC CONO 37° (SAE J514 / ISO 8434-2) - MASCHIO BSP TENUTA O-RING (ISO 1179-3)



PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (BSPP)	T ₂ (UNF)	L	L ₁	L ₂	H ₁	H ₂
A520325-02-04	1/8" - 28	7/16" - 20	32,0	7,6	17,0	14	16
A520325-02-05	1/8" - 28	1/2" - 20	33,0	7,6	18,0	14	16
A520325-04-04	1/4" - 19	7/16" - 20	37,0	11,2	17,0	19	16
A520325-04-05	1/4" - 19	1/2" - 20	38,0	11,2	18,0	19	16
A520325-04-06	1/4" - 19	9/16" - 18	39,5	11,2	19,5	19	19
A520325-04-08	1/4" - 19	3/4" - 16	43,5	11,2	23,5	19	22
A520325-06-04	3/8" - 19	7/16" - 20	37,0	11,2	17,0	22	16
A520325-06-05	3/8" - 19	1/2" - 20	38,5	11,2	18,0	22	16
A520325-06-06	3/8" - 19	9/16" - 18	40,0	11,2	19,5	22	19
A520325-06-08	3/8" - 19	3/4" - 16	43,5	11,2	23,3	22	22
A520325-06-10	3/8" - 19	7/8" - 14	46,0	11,2	25,0	22	27
A520325-08-04	1/2" - 14	7/16" - 20	41,0	14,5	17,0	27	16
A520325-08-06	1/2" - 14	9/16" - 18	43,5	14,5	20,0	27	19
A520325-08-08	1/2" - 14	3/4" - 16	47,5	14,5	23,5	27	22
A520325-08-10	1/2" - 14	7/8" - 14	49,0	14,5	25,0	27	27
A520325-08-12	1/2" - 14	1.1/16" - 12	51,5	14,5	27,5	27	32
A520325-12-08	3/4" - 14	3/4" - 16	53,0	14,5	23,5	32	22
A520325-12-10	3/4" - 14	7/8" - 14	54,0	14,5	25,0	32	27
A520325-12-12	3/4" - 14	1.1/16" - 12	55,5	14,5	27,5	32	32
A520325-12-14	3/4" - 14	1.3/16" - 12	55,0	14,5	27,0	32	32
A520325-12-16	3/4" - 14	1.5/16" - 12	54,0	14,5	31,0	35	38
A520325-16-12	1" - 11	1.1/16" - 12	58,0	18,6	27,5	41	32
A520325-16-16	1" - 11	1.5/16" - 12	61,5	18,6	31,0	41	38
A520325-16-20	1" - 11	1.5/8" - 12	64,0	18,6	32,0	43	50
A520325-20-16	1.1/4" - 11	1.5/16" - 12	66,0	18,6	35,0	50	38
A520325-20-20	1.1/4" - 11	1.5/8" - 12	67,0	18,6	32,0	50	50
A520325-20-24	1.1/4" - 11	1.7/8" - 12	70,5	18,6	35,5	50	55
A520325-24-24	1.1/2" - 11	1.7/8" - 12	74,5	18,6	35,5	55	55

A520725



JIC FEMALE 37° CONE SEAT (SAE J514 / ISO 8434-2) - BSP MALE TAPERED (ISO 7)
 HEMBRA JIC 37° (SAE J514 / ISO 8434-2) - MACHO CÓNICO (ISO 7)
 JIC IG 37° KONISCHER DICHTSITZ (SAE J514 / ISO 8434-2)
 BSP AG KONISCHES GEWINDE (ISO 7)
 FEMMINA JIC CONO 37° (SAE J514 / ISO 8434-2) - MASCHIO BSP CONICO (ISO 7)

PART. REF.	THREADS		DIMENSIONS				
			mm				
	T ₁ (BSPT)	T ₂ (UNF)	L	L ₁	L ₂	H ₁	H ₂
A520725-02-04	1/8" - 28	7/16" - 20	34,0	10,0	17,0	12	16
A520725-02-05	1/8" - 28	1/2" - 20	35,0	10,0	18,0	14	16
A520725-04-04	1/4" - 19	7/16" - 20	39,7	14,0	17,0	14	16
A520725-04-05	1/4" - 19	1/2" - 20	38,0	14,0	28,0	14	16
A520725-04-06	1/4" - 19	9/16" - 18	39,5	14,0	19,5	14	19
A520725-04-08	1/4" - 19	3/4" - 16	45,5	14,0	23,5	19	22
A520725-06-06	3/8" - 19	9/16" - 18	43,5	16,0	19,5	19	19
A520725-06-08	3/8" - 19	3/4" - 16	47,5	16,0	23,5	19	22
A520725-06-10	3/8" - 19	7/8" 14	49,0	16,0	25,0	22	27
A520725-08-06	1/2" - 14	9/16" - 18	47,0	18,0	19,5	22	19
A520725-08-08	1/2" - 14	3/4" - 16	51,0	18,0	23,5	22	22
A520725-08-10	1/2" - 14	7/8" - 14	53,0	18,0	25,0	22	27
A520725-08-12	1/2" - 14	1.1/16" - 12	57,0	18,0	27,5	27	32
A520725-12-10	3/4" - 14	7/8" - 14	55,0	20,0	25,0	27	27
A520725-12-12	3/4" - 14	1.1/16" - 12	57,5	20,0	27,5	27	32
A520725-12-14	3/4" - 14	1.3/16" - 12	59,0	20,0	27,0	32	35
A520725-12-16	3/4" - 14	1.5/16" - 12	63,0	20,0	31,0	35	38
A520725-16-12	1" - 11	1.1/16" - 12	62,5	23,0	27,5	35	32
A520725-16-16	1" - 11	1.5/16" - 12	64,0	23,0	31,0	35	38
A520725-16-20	1" - 11	1.5/8" - 12	68,0	23,0	32,0	44	50
A520725-20-20	1.1/4" - 11	1.5/8" - 12	71,0	26,0	32,0	44	50
A520725-24-24	1.1/2" - 11	1.7/8" - 12	80,0	27,0	35,5	50	55

JIC ADAPTORS

A522825

JIC FEMALE 37° CONE SEAT (SAE J514 / ISO 8434-2)

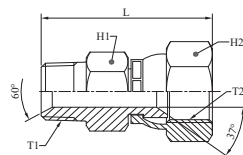
NPTF MALE 60° CONE SEAT (SAE J514)

HEMBRA JIC 37° (SAE J514 / ISO 8434-2) - MACHO NPTF CONO 60° (SAE J514)

JIC IG 37° KONISCHER DICHTSITZ (SAE J514 / ISO 8434-2)

NPTF AG 60° KONISCHES ENDE (SAE J514)

FEMMINA JIC CONO 37° (SAE J514 / ISO 8434-2) - MASCHIO NPTF CONO 60° (SAE J514)



PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (NPTF)	T ₂ (UNF)	L	H ₁	H ₂		
A522825-02-04	1/8"-27	7/16"-20	34,3	13	16		
A522825-04-04	1/4"-18	7/16"-20	39,6	16	16		
A522825-04-06	1/4"-18	9/16"-18	42,6	14	19		
A522825-06-06	3/8"-18	9/16"-18	41,4	19	19		
A522825-06-08	3/8"-18	3/4"-16	43,9	22	22		
A522825-08-08	1/2"-14	3/4"-16	50,3	22	22		
A522825-12-12	3/4"-14	1.1/16"-12	57,9	27	32		
A522825-16-16	1"-11,5	1.5/16"-12	65,0	35	38		
A522825-20-20	1.1/4"-11,5	1.5/8"-12	72,0	44	50		

A523025

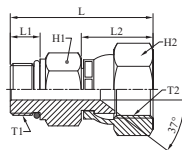
JIC FEMALE 37° CONE SEAT (SAE J514 / ISO 8434-2) - SAE MALE O-RING BOSS TYPE (ISO 11926)

HEMBRA JIC 37° (SAE J514 / ISO 8434-2) - MACHO SAE TIPO O-RING BOSS (ISO 11926)

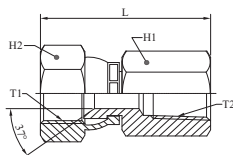
JIC IG 37° KONISCHER DICHTSITZ (SAE J514 / ISO 8434-2)

SAE AG O-RINGNUT AUSFÜHRUNG (ISO 11926)

FEMMINA JIC CONO 37° (SAE J514 / ISO 8434-2) - MASCHIO SAE TENUTA O-RING (ISO 11926)



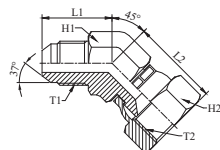
PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (UNF)	T ₂ (UNF)	L	L ₁	L ₂	H ₁	H ₂
A523025-04-04	7/16" - 20	7/16" - 20	32,5	9,5	17,0	14	16
A523025-05-05	1/2" - 20	1/2" - 20	36,0	9,5	18,0	16	16
A523025-06-06	9/16" - 18	9/16" - 18	37,5	10,0	19,5	19	19
A523025-08-08	3/4" - 16	3/4" - 16	43,5	11,5	23,5	22	22
A523025-10-10	7/8" - 14	7/8" - 14	48,0	13,0	25,0	27	27
A523025-12-12	1.1/16" - 12	1.1/16" - 12	55,5	15,5	27,5	32	32
A523025-14-14	1.3/16" - 12	1.3/16" - 12	54,5	15,5	27,0	35	35
A523025-16-16	1.5/16" - 12	1.5/16" - 12	59,0	15,5	31,0	38	38
A523025-20-20	1.5/8" - 12	1.5/8" - 12	62,5	15,5	32,0	50	50
A523025-24-24	1.7/8" - 12	1.7/8" - 12	68,0	15,5	35,5	55	55



A512534

JIC FEMALE 37° CONE SEAT (SAE J514 / ISO 8434-2) - NPTF FIXED FEMALE (SAE J514)
 HEMBRA JIC 37° (SAE J514 / ISO 8434-2) - HEMBRA FIJA NPTF (SAE J514)
 JIC IG 37° KONISCHER DICHTSITZ (SAE J514 / ISO 8434-2) - NPTF IG (SAE J514)
 FEMMINA JIC CONO 37° (SAE J514 / ISO 8434-2) - FEMMINA FISSA NPTF (SAE J514)

PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (UNF)	T ₂ (NPTF)	L	H ₁	H ₂		
A512534-06-06	9/16"-18	3/8"-18	42,8	22	19		
A512534-08-06	3/4"-16	3/8"-18	45,3	22	22		
A512534-08-08	3/4"-16	1/2"-14	48,5	27	22		
A512534-10-08	7/8"-14	1/2"-14	50,8	27	27		
A512534-12-12	1.1/16"-12	3/4"-14	58,0	35	32		
A512534-16-16	1.5/16"-12	1"-11,5	66,4	41	38		
A512534-20-20	1.5/8"-12	1.1/4"-11,5	71,8	50	50		



A552525

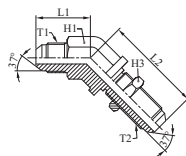
45° ELBOW JIC MALE 37° CONE - JIC FEMALE 37° CONE SEAT (SAE J514 / ISO 8434-2)
 CODO 45° MACHO JIC 37° - HEMBRA JIC 37° (SAE J514 / ISO 8434-2)
 45° WINKELVERSCHRAUBUNG JIC AG 37° KONISCHES ENDE
 JIC IG 37° KONISCHER DICHTSITZ (SAE J514 / ISO 8434-2)
 GOMITO 45° MASCHIO JIC CONO 37° - FEMMINA JIC CONO 37° (SAE J514 / ISO 8434-2)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (UNF)	L ₁	L ₂	H ₁	H ₂
A552525-04-04	7/16"-20	7/16"-20	22,0	24,5	14	16
A552525-05-05	1/2"-20	1/2"-20	22,0	26,5	14	16
A552525-06-06	9/16"-18	9/16"-18	22,0	28,5	14	19
A552525-08-08	3/4"-16	3/4"-16	26,0	32,0	19	22
A552525-10-10	7/8"-14	7/8"-14	30,0	37,0	22	27
A552525-12-12	1.1/16"-12	1.1/16"-12	32,5	38,5	27	32
A552525-16-16	1.5/16"-12	1.5/16"-12	40,0	45,0	35	38
A552525-20-20	1.5/8"-12	1.5/8"-12	46,0	51,5	44	50
A552525-24-24	1.7/8"-12	1.7/8"-12	49,0	57,5	50	55

JIC ADAPTORS

A532523

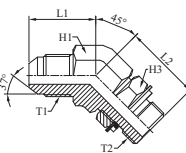
BULKHEAD UNION 45° ELBOW JIC MALE 37° CONE (SAE J514 / ISO 8434-2)
 PASATABIQUE 45° MACHO JIC 37° (SAE J514 / ISO 8434-2)
 45° VERBINDER JIC AG KONISCHES ENDE FÜR SCHOTTWAND (SAE J514 / ISO 8434-2)
 GOMITO 45° PASSAPARETE MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)



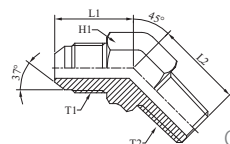
PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (UNF)	L ₁	L ₂	H ₁	H ₃
A532523-04-04	7/16" - 20	7/16" - 20	22,0	39,0	14	17
A532523-05-05	1/2" - 20	1/2" - 20	22,0	39,0	14	19
A532523-06-06	9/16" - 18	9/16" - 18	22,0	42,5	14	22
A532523-08-08	3/4" - 16	3/4" - 16	25,0	49,5	19	24
A532523-10-10	7/8" - 14	7/8" - 14	28,0	55,0	22	30
A532523-12-12	1.1/16" - 12	1.1/16" - 12	32,5	62,0	27	36
A532523-16-16	1.5/16" - 12	1.5/16" - 12	40,0	65,0	32	41
A532523-20-20	1.5/8" - 12	1.5/8" - 12	40,5	67,5	41	50
A532523-24-24	1.7/8" - 12	1.7/8" - 12	45,0	68,0	50	55

A532509

45° ADJUSTABLE ELBOW JIC MALE 37° CONE (SAE J514 / ISO 8434-2)
 BSP MALE O-RING BOSS TYPE (ISO 1179-3)
 CODO ORIENTABILE 45° MACHO JIC 37° (SAE J514 / ISO 8434-2)
 MACHO BSP TIPO O-RING BOSS (ISO 1179-3)
 45° EINSTELLBARE WINKELVERSCHARUBUNG JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2)
 BSP AG O-RINGNUT AUSFÜHRUNG (ISO 1179-3)
 GOMITO 45° ORIENTABILE MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)
 MASCHIO BSP TENUTA O-RING (ISO 1179-3)



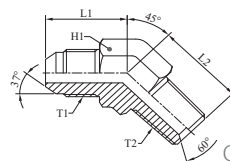
PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (UNF)	L ₁	L ₂	H ₁	H ₃
A532509-04-02	7/16" - 20	1/8" - 28	22,0	26,5	14	14
A532509-04-04	7/16" - 20	1/4" - 19	22,0	28,0	14	19
A532509-05-04	1/2" - 20	1/4" - 19	22,0	28,0	14	19
A532509-06-04	9/16" - 18	1/4" - 19	22,0	28,0	14	19
A532509-06-06	9/16" - 18	3/8" - 19	25,0	33,0	19	22
A532509-08-06	3/4" - 16	3/8" - 19	26,0	33,0	19	22
A532509-08-08	3/4" - 16	1/2" - 14	26,0	38,5	22	27
A532509-10-08	7/8" - 14	1/2" - 14	30,0	38,5	22	27
A532509-10-12	7/8" - 14	3/4" - 14	31,5	43,0	27	32
A532509-12-12	1.1/16" - 12	3/4" - 14	32,5	43,0	27	32
A532509-16-16	1.5/16" - 12	1" - 11	40,0	47,0	35	41
A532509-20-20	1.5/8" - 12	1.1/4" - 11	46,0	48,5	44	50



A532507

45° ELBOW JIC MALE 37° CONE (SAE J514 / ISO 8434-2) - BSP MALE TAPERED (ISO 7)
 CODO 45° MACHO JIC 37° (SAE J514 / ISO 8434-2) - MACHO CONICO BSP (ISO 7)
 45° WINKEL JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2) - BSP AG KONISCH (ISO 7)
 GOMITO 45° MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2) - MASCHIO BSP CONICO (ISO 7)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (BSPT)	L ₁	L ₂	H ₁	
A532507-04-02	7/16" - 20	1/8" - 28	22,0	18,0	14	
A532507-04-04	7/16" - 20	1/4" - 19	22,0	21,0	14	
A532507-05-04	1/2" - 20	1/4" - 19	22,0	21,0	14	
A532507-06-04	9/16" - 18	1/4" - 19	22,0	21,0	14	
A532507-06-06	9/16" - 18	3/8" - 19	26,0	26,0	19	
A532507-08-06	3/4" - 16	3/8" - 19	26,0	26,0	19	
A532507-08-08	3/4" - 16	1/2" - 14	28,0	31,0	22	
A532507-10-08	7/8" - 14	1/2" - 14	28,0	31,0	22	
A532507-12-12	1.1/16" - 12	3/4" - 14	32,5	31,5	27	
A532507-16-16	1.5/16" - 12	1" - 11	40,0	41,0	35	
A532507-20-20	1.5/8" - 12	1.1/4" - 11	46,0	46,0	44	
A532507-24-24	1.7/8" - 12	1.1/2" - 11	49,0	46,5	50	
A532507-32-32	2.1/2" - 12	2" - 11	58,0	55,0	65	



A532528

45° ELBOW JIC MALE 37° CONE (SAE J514 / ISO 8434-2) - NPTF MALE 60° CONE SEAT (SAE J514)
 CODO 45° MACHO JIC 37° (SAE J514 / ISO 8434-2) - MACHO NPTF CONO 60° (SAE J514)
 45° WINKEL JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2)
 NPTF AG 60° KONISCHES ENDE (SAE J514)
 GOMITO 45° MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2) - MASCHIO NPTF CONO 60° (SAE J514)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (NPTF)	L ₁	L ₂	H ₁	
A532528-04-02	7/16"-20	1/8"-27	18,3	16,3	11	
A532528-04-04	7/16"-20	1/4"-18	20,8	21,8	14	
A532528-05-04	1/2"-20	1/4"-18	20,8	21,8	14	
A532528-06-04	9/16"-18	1/4"-18	21,0	21,8	14	
A532528-06-06	9/16"-18	3/8"-18	22,1	24,1	19	
A532528-08-08	3/4"-16	1/2"-14	25,2	29,7	22	
A532528-08-12	3/4"-16	3/4"-14	26,4	30,5	27	
A532528-10-08	7/8"-14	1/2"-14	28,2	29,7	22	
A532528-12-12	1.1/16"-12	3/4"-14	32,5	30,5	27	
A532528-16-16	1.5/16"-12	1"-11,5	37,3	37,6	33	
A532528-20-20	1.5/8"-12	1.1/4"-11,5	40,4	42,4	41	

JIC ADAPTORS

A532531

45° ADJUSTABLE ELBOW JIC MALE 37° CONE (SAE J514 / ISO 8434-2)

SAE MALE O-RING BOSS TYPE (ISO 11926)

CODO ORIENTABLE 45° MACHO JIC 37° (SAE J514 / ISO 8434-2)

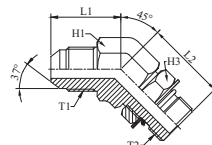
MACHO SAE O-RING TIPO BOSS (ISO 11926)

45° WINKEL, EINSTELLBAR JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2)

SAE AG O-RINGNUT AUSFÜHRUNG (ISO 11926)

GOMITO 45° MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)

MASCHIO SAE TENUTA O-RING (ISO 11926)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (UNF)	L ₁	L ₂	H ₁	H ₃
A532531-04-04	7/16" - 20	7/16" - 20	22,0	26,5	14	16
A532531-05-05	1/2" - 20	1/2" - 20	22,0	26,5	14	16
A532531-06-06	9/16" - 18	9/16" - 18	22,0	28,0	14	19
A532531-06-08	9/16" - 18	3/4" - 16	24,0	33,0	19	24
A532531-08-06	3/4" - 16	9/16" - 18	26,0	30,0	19	19
A532531-08-08	3/4" - 16	3/4" - 16	26,0	33,0	19	24
A532531-08-10	3/4" - 16	7/8" - 14	28,0	38,5	22	27
A532531-10-10	7/8" - 14	7/8" - 14	30,0	38,5	22	27
A532531-12-10	1.1/16" - 12	7/8" - 14	32,5	41,5	27	27
A532531-12-12	1.1/16" - 12	1.1/16" - 12	32,5	43,0	27	32
A532531-16-16	1.5/16" - 12	1.5/16" - 12	40,0	47,0	35	38
A532531-20-20	1.5/8" - 12	1.5/8" - 12	46,0	48,5	44	50

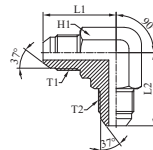
A562525

UNION 90° ELBOW JIC MALE 37° CONE (SAE J514 / ISO 8434-2)

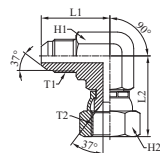
CODO 90° MACHO JIC 37° (SAE J514 / ISO 8434-2)

90° WINKELVERBINDER JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2)

GIUNZIONE 90° MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)



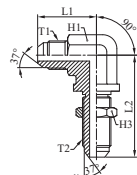
PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (UNF)	L ₁	L ₂	H ₁	
A562525-04-04	7/16" - 20	7/16" - 20	22,5	22,5	12	
A562525-05-05	1/2" - 20	1/2" - 20	25,0	25,0	14	
A562525-06-06	9/16" - 18	9/16" - 18	26,0	26,0	14	
A562525-08-08	3/4" - 16	3/4" - 16	31,5	31,5	19	
A562525-10-10	7/8" - 14	7/8" - 14	36,5	36,5	22	
A562525-12-12	1.1/16" - 12	1.1/16" - 12	42,0	42,0	27	
A562525-16-16	1.5/16" - 12	1.5/16" - 12	46,0	46,0	35	
A562525-20-20	1.5/8" - 12	1.5/8" - 12	52,0	52,0	41	
A562525-24-24	1.7/8" - 12	1.7/8" - 12	59,0	59,0	50	
A562525-32-32	2.1/2" - 12	2.1/2" - 12	75,0	75,0	65	



A582525

90° ELBOW JIC MALE 37° CONE - JIC FEMALE 37° CONE SEAT (SAE J514 / ISO 8434-2)
 CODO 90° MACHO - HEMBRA JIC 37° (SAE J514 / ISO 8434-2)
 90° WINKELVERBINDER JIC AG 37° KONISCHES ENDE
 JIC IG 37° KONISCHER DICHTSITZ (SAE J514 / ISO 8434-2)
 GOMITO 90° MASCHIO JIC CONO 37° - FEMMINA JIC CONO 37° (SAE J514 / ISO 8434-2)

PART. REF.	THREADS		DIMENSIONS			
			mm			
	T ₁ (UNF)	T ₂ (UNF)	L ₁	L ₂	H ₁	H ₂
A582525-04-04	7/16" - 20	7/16" - 20	25,0	26,0	14	16
A582525-05-05	1/2" - 20	1/2" - 20	25,0	28,0	14	16
A582525-06-06	9/16" - 18	9/16" - 18	27,0	31,0	14	19
A582525-08-08	3/4" - 16	3/4" - 16	31,5	35,5	19	22
A582525-10-10	7/8" - 14	7/8" - 14	36,5	42,0	22	27
A582525-12-12	1.1/16" - 12	1.1/16" - 12	42,0	45,5	27	32
A582525-16-16	1.5/16" - 12	1.5/16" - 12	46,0	51,5	35	38
A582525-20-20	1.5/8" - 12	1.5/8" - 12	52,0	59,0	41	50
A582525-24-24	1.7/8" - 12	1.7/8" - 12	59,0	67,0	50	55



A562523

BULKHEAD UNION 90° ELBOW JIC MALE 37° CONE (SAE J514 / ISO 8434-2)
 PASATABIQUE 90° MACHO JIC 37° (SAE J514 / ISO 8434-2)
 90° WINKELVERBINDER JIC AG 37° KONISCHES ENDE, FÜR SCHOTTWAND (SAE J514 / ISO 8434-2)
 GOMITO 90° PASSAPARETE MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)

PART. REF.	THREADS		DIMENSIONS			
			mm			
	T ₁ (UNF)	T ₂ (UNF)	L ₁	L ₂	H ₁	H ₃
A562523-04-04	7/16" - 20	7/16" - 20	24,0	41,0	14	17
A562523-05-05	1/2" - 20	1/2" - 20	24,0	43,0	14	19
A562523-06-06	9/16" - 18	9/16" - 18	24,0	45,0	14	22
A562523-08-08	3/4" - 16	3/4" - 16	31,5	54,0	19	24
A562523-10-10	7/8" - 14	7/8" - 14	35,0	60,0	22	30
A562523-12-12	1.1/16" - 12	1.1/16" - 12	38,0	68,0	27	36
A562523-16-16	1.5/16" - 12	1.5/16" - 12	48,0	71,0	32	41

JIC ADAPTORS

A562509

90° ADJUSTABLE ELBOW JIC MALE 37° CONE (SAE J514 / ISO 8434-2)

BSP MALE O-RING BOSS TYPE (ISO 1179-3)

CODO ORIENTABLE 90° MACHO JIC 37° (SAE J514 / ISO 8434-2)

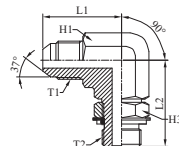
MACHO BSP TIPO O-RING BOSS (ISO 1179-3)

90° WINKEL EINSTELLBAR, JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2)

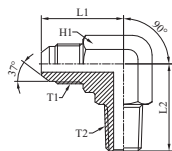
BSP AG O-RINGNUT AUSFÜHRUNG (ISO 1179-3)

GOMITO 90° ORIENTABILE MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)

MASCHIO BSP TENUTA O-RING (ISO 1179-3)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (BSPP)	L ₁	L ₂	H ₁	H ₃
A562509-04-02	7/16" - 20	1/8" - 28	25,0	26,5	14	14
A562509-04-04	7/16" - 20	1/4" - 19	25,0	31,5	14	19
A562509-04-06	7/16" - 20	3/8" - 19	28,5	36,5	19	22
A562509-04-08	7/16" - 20	1/2" - 14	31,0	43,0	22	27
A562509-05-02	1/2" - 20	1/8" - 28	25,0	26,5	14	14
A562509-05-04	1/2" - 20	1/4" - 19	25,0	31,5	14	19
A562509-05-06	1/2" - 20	3/8" - 19	28,5	36,5	19	22
A562509-06-04	9/16" - 18	1/4" - 19	27,0	31,5	14	19
A562509-06-06	9/16" - 18	3/8" - 19	29,0	36,5	19	22
A562509-06-08	9/16" - 18	1/2" - 14	31,0	43,0	22	27
A562509-08-04	3/4" - 16	1/4" - 19	31,5	33,5	19	19
A562509-08-06	3/4" - 16	3/8" - 19	31,5	36,5	19	22
A562509-08-08	3/4" - 16	1/2" - 14	34,0	43,0	22	27
A562509-08-12	3/4" - 16	3/4" - 14	37,0	49,0	27	32
A562509-10-06	7/8" - 14	3/8" - 19	36,5	39,5	22	22
A562509-10-08	7/8" - 14	1/2" - 14	36,5	43,0	22	27
A562509-10-12	7/8" - 14	3/4" - 14	39,5	49,0	27	32
A562509-12-08	1.1/16" - 12	1/2" - 14	42,0	45,5	27	27
A562509-12-12	1.1/16" - 12	3/4" - 14	42,0	49,0	27	32
A562509-12-16	1.1/16" - 12	1" - 11	46,0	52,0	35	41
A562509-16-12	1.5/16" - 12	3/4" - 14	46,0	52,0	35	32
A562509-16-16	1.5/16" - 12	1" - 11	46,0	52,0	35	41
A562509-16-20	1.5/16" - 12	1.1/4" - 11	52,0	57,0	41	50
A562509-20-16	1.5/8" - 12	1" - 11	52,0	57,0	41	41
A562509-20-20	1.5/8" - 12	1.1/4" - 11	52,0	57,0	41	50
A562509-24-20	1.7/8" - 12	1.1/4" - 11	59,0	65,0	50	50
A562509-24-24	1.7/8" - 12	1.1/2" - 11	59,0	65,0	50	55



A562507

90° ELBOW JIC MALE 37° CONE (SAE J514 / ISO 8434-2) - BSP MALE TAPERED (ISO 7)
 CODO 90° MACHO JIC 37° (SAE J514 / ISO 8434-2) - MACHO CONICO BSP (ISO 7)
 90° WINKEL JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2) - BSP AG KONISCH (ISO 7)
 GOMITO 90° MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2) - MASCHIO BSP CONICO (ISO 7)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (BSPT)	L ₁	L ₂	H ₁	
A562507-04-02	7/16" - 20	1/8" - 28	22,5	21,0	12	
A562507-04-04	7/16" - 20	1/4" - 19	26,0	27,0	14	
A562507-04-06	7/16" - 20	3/8" - 19	28,5	31,0	19	
A562507-05-02	1/2" - 20	1/8" - 28	26,0	23,0	14	
A562507-05-04	1/2" - 20	1/4" - 19	26,0	27,0	14	
A562507-05-06	1/2" - 20	3/8" - 19	28,5	31,0	19	
A562507-06-04	9/16" - 18	1/4" - 19	26,0	27,0	14	
A562507-06-06	9/16" - 18	3/8" - 19	29,0	31,0	19	
A562507-06-08	9/16" - 18	1/2" - 14	33,0	37,0	22	
A562507-08-04	3/4" - 16	1/4" - 19	31,5	31,0	19	
A562507-08-06	3/4" - 16	3/8" - 19	31,5	31,0	19	
A562507-08-08	3/4" - 16	1/2" - 14	34,0	37,0	22	
A562507-10-06	7/8" - 14	3/8" - 19	36,5	34,0	22	
A562507-10-08	7/8" - 14	1/2" - 14	36,5	37,0	22	
A562507-10-12	7/8" - 14	3/4" - 14	39,5	40,5	27	
A562507-12-08	1.1/16" - 12	1/2" - 14	42,0	40,5	27	
A562507-12-12	1.1/16" - 12	3/4" - 14	42,0	40,5	27	
A562507-12-16	1.1/16" - 12	1" - 11	46,0	48,0	35	
A562507-16-12	1.5/16" - 12	3/4" - 14	46,0	46,0	35	
A562507-16-16	1.5/16" - 12	1" - 11	46,0	48,0	35	
A562507-16-20	1.5/16" - 12	1.1/4" - 11	52,0	57,0	41	
A562507-20-16	1.5/8" - 12	1" - 11	52,0	54,0	41	
A562507-20-20	1.5/8" - 12	1.1/4" - 11	52,0	57,0	41	
A562507-20-24	1.5/8" - 12	1.1/2" - 11	59,0	65,0	50	
A562507-24-20	1.7/8" - 12	1.1/4" - 11	59,0	65,0	50	
A562507-24-24	1.7/8" - 12	1.1/2" - 11	59,0	65,0	50	
A562507-24-32	1.7/8" - 12	2" - 11	72,0	74,0	65	
A562507-32-24	2.1/2" - 12	1.1/2" - 11	75,0	74,0	65	
A562507-32-32	2.1/2" - 12	2" - 11	75,0	74,0	65	

JIC ADAPTORS

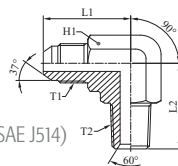
A562528

90° ELBOW JIC MALE 37° CONE (SAE J514 / ISO 8434-2) - NPTF MALE 60° CONE SEAT (SAE J514)

CODO 90° MACHO JIC 37° (SAE J514 / ISO 8434-2) - MACHO NPTF CONO 60° (SAE J514)

90° WINKEL JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2) - NPTF AG 60° KONISCHES ENDE (SAE J514)

GOMITO 90° MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2) - MASCHIO NPTF CONO 60° (SAE J514)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (NPTF)	L ₁	L ₂	H ₁	
A562528-04-02	7/16"-20	1/8"-27	22,6	19,8	11	
A562528-04-04	7/16"-20	1/4"-18	26,7	27,7	14	
A562528-05-04	1/2"-20	1/4"-18	26,7	27,7	14	
A562528-06-04	9/16"-18	1/4"-18	26,9	27,7	14	
A562528-06-06	9/16"-18	3/8"-18	29,0	31,0	19	
A562528-06-08	9/16"-18	1/2"-14	31,0	37,3	22	
A562528-08-06	3/4"-16	3/8"-18	31,8	31,0	19	
A562528-08-08	3/4"-16	1/2"-14	33,8	37,3	22	
A562528-08-12	3/4"-16	3/4"-14	36,0	40,4	27	
A562528-10-08	7/8"-14	1/2"-14	36,8	37,3	22	
A562528-10-12	7/8"-14	3/4"-14	39,1	40,4	27	
A562528-12-08	1.1/16"-12	1/2"-14	42,2	40,4	27	
A562528-12-12	1.1/16"-12	3/4"-14	42,2	40,4	27	
A562528-12-16	1.1/16"-12	1"-11,5	44,7	50,0	33	
A562528-16-12	1.5/16"-12	3/4"-14	46,0	45,2	33	
A562528-16-16	1.5/16"-12	1"-11,5	46,0	50,0	33	
A562528-20-20	1.5/8"-12	1.1/4"-11,5	52,3	60,5	41	
A562528-24-24	1.7/8"-12	1.1/2"-11,5	59,2	67,0	48	

A582825

90° ELBOW JIC FEMALE 37° CONE SEAT (SAE J514 / ISO 8434-2)

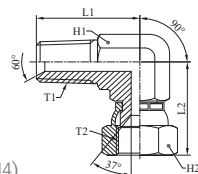
NPTF MALE 60° CONE SEAT (SAE J514)

CODO 90° HEMBRA JIC 37° (SAE J514 / ISO 8434-2) - MACHO NPTF CONO 60° (SAE J514)

90° WINKEL JIC IG 37° KONISCHER DICHTSITZ (SAE J514 / ISO 8434-2)

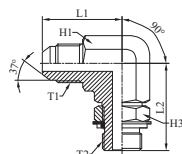
NPTF AG 60° KONISCHES ENDE (SAE J514)

GOMITO 90° FEMMINA JIC CONO 37° (SAE J514 / ISO 8434-2) - MASCHIO NPTF CONO 60° (SAE J514)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (NPTF)	T ₂ (UNF)	L ₁	L ₂	H ₁	H ₂
A582825-02-04	1/8"-27	7/16"-20	19,8	25,4	11	16
A582825-04-04	1/4"-18	7/16"-20	27,7	29,0	14	16
A582825-04-06	1/4"-18	9/16"-18	27,7	31,8	14	19
A582825-06-06	3/8"-18	9/16"-18	31,0	32,6	19	19
A582825-06-08	3/8"-18	3/4"-16	31,0	35,0	19	22
A582825-08-08	1/2"-14	3/4"-16	37,3	38,4	22	22
A582825-12-12	3/4"-14	1.1/16"-12	40,4	44,5	27	32
A582825-16-16	1"-11,5	1.5/16"-12	50,0	50,8	33	38
A582825-20-20	1.1/4"-11,5	1.5/8"-12	60,5	58,7	41	50

A562519



90° ADJUSTABLE ELBOW JIC MALE 37° CONE (SAE J514 / ISO 8434-2)

METRIC MALE WITH O-RING AND RETAINING RING (ISO 6149)

CODO ORIENTABLE 90° MACHO JIC 37° (SAE J514 / ISO 8434-2)

MACHO METRICO CON O-RING Y WASHER (ISO 6149)

90° WINKEL EINSTELLBAR JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2)

METRISCHES AG MIT O-RING UND SICHERUNGSRING (ISO 6149)

GOMITO 90° ORIENTABILE MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)

MASCHIO METRICO CON O-RING E RONDELLA (ISO 6149)

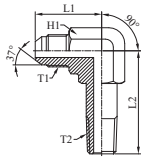
PART. REF.	THREADS	DIMENSIONS mm				
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	T ₁ (UNF)	T ₂ (METRIC)	L ₁	L ₂	H ₁	H ₂
A562519-04-10	7/16" - 20	10x1	25,0	27,0	14	14
A562519-04-12	7/16" - 20	12x1.5	25,0	31,5	14	17
A562519-05-10	1/2" - 20	10x1	25,0	27,0	14	14
A562519-05-12	1/2" - 20	12x1.5	25,0	31,5	14	17
A562519-05-14	1/2" - 20	14x1.5	25,0	31,5	14	19
A562519-06-14	9/16" - 18	14x1.5	27,0	31,5	14	19
A562519-06-16	9/16" - 18	16x1.5	29,0	36,5	19	22
A562519-08-16	3/4" - 16	16x1.5	31,5	36,5	19	22
A562519-08-18	3/4" - 16	18x1.5	31,5	39,5	19	24
A562519-10-18	7/8" - 14	18x1.5	36,5	41,5	22	24
A562519-10-22	7/8" - 14	22x1.5	36,5	43,0	22	27
A562519-12-22	1.1/16" - 12	22x1.5	42,0	45,5	27	27
A562519-12-27	1.1/16" - 12	27x2	42,0	50,5	27	32
A562519-16-27	1.5/16" - 12	27x2	46,0	55,0	35	32
A562519-16-33	1.5/16" - 12	33x2	46,0	55,0	35	41
A562519-20-42	1.5/8" - 12	42x2	52,0	60,0	41	50
A562519-24-48	1.7/8" - 12	48x2	59,0	64,0	50	55

JIC ADAPTORS

A562502

90° ELBOW JIC MALE 37° CONE (SAE J514 / ISO 8434-2) - BSP MALE TAPERED LONG (ISO 7)
CODO 90° MACHO JIC 37° (SAE J514 / ISO 8434-2) - MACHO CONICO LARGO (ISO 7)
90° WINKEL JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2) - BSP AG KONISCH, LANG (ISO 7)
GOMITO 90° MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2) - MASCHIO BSP CONICO LUNGO (ISO 7)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (NPTF)	T ₂ (UNF)	L ₁	L ₂	H ₁	H ₂
A562502-04-02	7/16" - 20	1/8" - 28	24,0	49,0	14	
A562502-04-04	7/16" - 20	1/4" - 19	24,0	49,0	14	
A562502-05-04	1/2" - 20	1/4" - 19	24,0	49,0	14	
A562502-06-04	9/16" - 18	1/4" - 19	24,0	49,0	14	
A562502-08-06	3/4" - 16	3/8" - 16	31,5	61,0	19	
A562502-08-08	3/4" - 16	1/2" - 14	34,0	73,0	24	
A562502-10-08	7/8" - 14	1/2" - 14	35,5	73,0	24	
A562502-12-12	1.1/16" - 12	3/4" - 14	37,0	87,0	27	
A562502-16-16	1.5/16" - 12	1" - 11	46,0	107,0	35	

A562531

90° ADJUSTABLE ELBOW JIC MALE 37° CONE (SAE J514 / ISO 8434-2)

SAE MALE O-RING BOSS TYPE (ISO 11926)

CODO ORIENTABLE 90° MACHO JIC 37° (SAE J514 / ISO 8434-2)

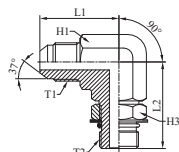
MACHO SAE TIPO O-RING BOSS (ISO 11926)

90° WINKEL EINSTELLBAR JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2)

SAE AG O-RINGNUT AUSFÜHRUNG (ISO 11926)

GOMITO 90° ORIENTABILE MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)

MASCHIO SAE TENUTA O-RING (ISO 11926)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (UNF)	L ₁	L ₂	H ₁	H ₂
A562531-04-04	7/16" - 20	7/16" - 20	25,0	26,5	14	16
A562531-04-06	7/16" - 20	9/16" - 18	25,0	31,5	14	19
A562531-05-04	1/2" - 20	7/16" - 20	25,0	26,5	14	16
A562531-05-05	1/2" - 20	1/2" - 20	25,0	27,5	14	16
A562531-05-06	1/2" - 20	9/16" - 18	25,0	31,5	14	19
A562531-06-04	9/16" - 18	7/16" - 20	27,0	30,0	14	16
A562531-06-05	9/16" - 18	1/2" - 20	27,0	30,0	14	16
A562531-06-06	9/16" - 18	9/16" - 18	27,0	31,5	14	19
A562531-06-08	9/16" - 18	3/4" - 16	29,0	36,5	19	24
A562531-06-10	9/16" - 18	7/8" - 14	31,0	43,0	22	27
A562531-08-06	3/4" - 16	9/16" - 18	31,5	33,5	19	19
A562531-08-08	3/4" - 16	3/4" - 16	31,5	36,5	19	24
A562531-08-10	3/4" - 16	7/8" - 14	34,0	43,0	22	27
A562531-08-12	3/4" - 16	1.1/16" - 12	37,0	49,0	27	32
A562531-10-06	7/8" - 14	9/16" - 18	36,5	37,0	22	19
A562531-10-08	7/8" - 14	3/4" - 16	36,5	39,5	22	24
A562531-10-10	7/8" - 14	7/8" - 14	36,5	43,0	22	27
A562531-10-12	7/8" - 14	1.1/16" - 12	39,5	49,0	27	32
A562531-12-08	1.1/16" - 12	3/4" - 16	42,0	44,0	27	24
A562531-12-10	1.1/16" - 12	7/8" - 14	42,0	47,0	27	27
A562531-12-12	1.1/16" - 12	1.1/16" - 12	42,0	49,0	27	32
A562531-12-16	1.1/16" - 12	1.5/16" - 12	46,0	52,0	35	38
A562531-16-12	1.5/16" - 12	1.1/16" - 12	46,0	52,0	35	32
A562531-16-16	1.5/16" - 12	1.5/16" - 12	46,0	52,0	35	38
A562531-16-20	1.5/16" - 12	1.5/8" - 12	52,0	57,0	41	50
A562531-20-16	1.5/8" - 12	1.5/16" - 12	52,0	57,0	41	38
A562531-20-20	1.5/8" - 12	1.5/8" - 12	52,0	57,0	41	50
A562531-20-24	1.5/8" - 12	1.7/8" - 12	59,0	65,0	50	55
A562531-24-20	1.7/8" - 12	1.5/8" - 12	59,0	65,0	50	50
A562531-24-24	1.7/8" - 12	1.7/8" - 12	59,0	65,0	50	55

JIC ADAPTORS

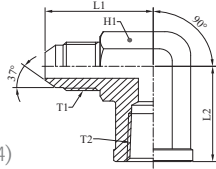
A582534

90° ELBOW JIC MALE 37° CONE (SAE J514 / ISO 8434-2) - NPTF FIXED FEMALE (SAE J514)

CODO 90° MACHO JIC 37° (SAE J514 / ISO 8434-2) - HEMBRA FIJA NPTF (SAE J514)

90° WINKEL JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2) - NPTF IG (SAE J514)

GOMITO 90° MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2) - FEMMINA FISSA NPTF (SAE J514)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (NPTF)	L ₁	L ₂	H ₁	
A582534-04-04	7/16"-20	1/4"-18	31,0	22,4	19	
A582534-05-04	1/2"-20	1/4"-18	31,0	22,4	19	
A582534-06-04	9/16"-18	1/4"-18	31,2	22,4	19	
A582534-06-06	9/16"-18	3/8"-18	33,3	25,9	22	
A582534-08-08	3/4"-16	1/2"-14	38,6	31,2	27	
A582534-10-08	7/8"-14	1/2"-14	41,7	31,2	27	
A582534-12-12	1.1/16"-12	3/4"-14	48,0	34,5	33	
A582534-16-16	1.5/16"-12	1"-11,5	55,1	41,2	41	

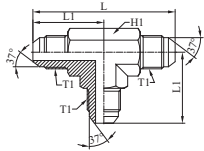
A702525

UNION TEE JIC MALE 37° CONE (SAE J514 / ISO 8434-2)

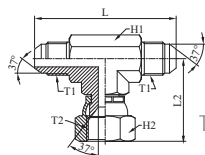
TE UNION MACHO JIC 37° (SAE J514 / ISO 8434-2)

T-VERBINDER AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2)

GUINZIONE A "T" MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)



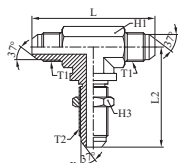
PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)		L ₁	L ₂	H ₁	
A702525-04-04	7/16" - 20		45,0	22,5	12	
A702525-05-05	1/2" - 20		50,0	25,0	14	
A702525-06-06	9/16" - 18		54,0	27,0	14	
A702525-08-08	3/4" - 16		63,0	31,5	19	
A702525-10-10	7/8" - 14		73,0	36,5	22	
A702525-12-12	1.1/16" - 12		84,0	42,0	27	
A702525-16-16	1.5/16" - 12		92,0	46,0	36	
A702525-20-20	1.5/8" - 12		104,0	52,0	41	
A702525-24-24	1.7/8" - 12		118,0	59,0	50	



A712525

BRANCH TEE JIC MALE 37° CONE - JIC FEMALE 37° CONE SEAT (SAE J514 / ISO 8434-2)
 TE CENTRAL MACHO JIC 37° - HEMBRA JIC 37° (SAE J514 / ISO 8434-2)
 T-ADAPTER JIC AG 37° KONISCHES ENDE - JIC IG 37° KONISCHER DICHTSITZ (SAE J514 / ISO 8434-2)
 "T" CENTRALE MASCHIO JIC CONO 37° - FEMMINA JIC CONO 37° (SAE J514 / ISO 8434-2)

PART. REF.	THREADS	DIMENSIONS mm				
	T ₁ (UNF)	T ₂ (UNF)	L ₁	L ₂	H ₁	H ₂
A712525-04-04	7/16" - 20	7/16" - 20	52,0	26,0	14	16
A712525-05-05	1/2" - 20	1/2" - 20	52,0	28,0	14	16
A712525-06-06	9/16" - 18	9/16" - 18	54,0	31,0	14	19
A712525-08-08	3/4" - 16	3/4" - 16	63,0	35,5	19	22
A712525-10-10	7/8" - 14	7/8" - 14	73,0	42,0	22	27
A712525-12-12	1.1/16" - 12	1.1/16" - 12	84,0	45,5	27	32
A712525-16-16	1.5/16" - 12	1.5/16" - 12	92,0	51,5	36	38
A712525-20-20	1.5/8" - 12	1.5/8" - 12	104,0	59,0	41	50
A712525-24-24	1.7/8" - 12	1.7/8" - 12	118,0	67,0	50	55



A782523

BULKHEAD BRANCH TEE JIC MALE 37° CONE (SAE J514 / ISO 8434-2)
 PASATABIQUE CENTRAL MACHO JIC 37° (SAE J514 / ISO 8434-2)
 T-ADAPTER JIC AG 37° KONISCHES ENDE, FÜR SCHOTTWAND (SAE J514 / ISO 8434-2)
 GIUNZIONE A "T" PASSAPARETE MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)

PART. REF.	THREADS	DIMENSIONS mm				
	T ₁ (UNF)	T ₂ (UNF)	L ₁	L ₂	H ₁	H ₃
A782523-04-04	7/16" - 20	7/16" - 20	49,0	40,5	14	17
A782523-05-05	1/2" - 20	1/2" - 20	54,0	43,5	14	19
A782523-06-06	9/16" - 18	9/16" - 18	55,0	46,0	14	22
A782523-08-08	3/4" - 16	3/4" - 16	69,0	53,5	19	24
A782523-10-10	7/8" - 14	7/8" - 14	79,0	60,5	22	30
A782523-12-12	1.1/16" - 12	1.1/16" - 12	90,0	68,0	27	36
A782523-16-16	1.5/16" - 12	1.5/16" - 12	98,0	71,0	32	41
A782523-20-20	1.5/8" - 12	1.5/8" - 12	110,0	79,0	41	50
A782523-24-24	1.7/8" - 12	1.7/8" - 12	118,0	87,0	50	55

JIC ADAPTORS

A782509

ADJUSTABLE BRANCH TEE JIC MALE 37° CONE (SAE J514 / ISO 8434-2)

BSP MALE O-RING BOSS TYPE (ISO 1179-3)

TE ORIENTABLE MACHO JIC 37° (SAE J514 / ISO 8434-2)

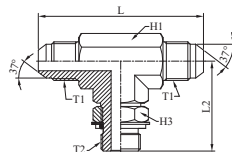
MACHO BSP TIPO O-RING BOSS (ISO 1179-3)

T-ADAPTER EINSTELLBAR, JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2)

BSP AG O-RINGNUT AUSFÜHRUNG (ISO 1179-3)

"T" CENTRALE ORIENTABILE MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)

MASCHIO BSP TENUTA O-RING (ISO 1179-3)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (BSPP)	L	L ₂	H ₁	H ₃
A782509-04-04	7/16" - 20	1/4" - 19	50,0	31,5	14	19
A782509-04-06	7/16" - 20	3/8" - 19	57,0	36,5	19	22
A782509-05-04	1/2" - 20	1/4" - 19	50,0	31,5	14	19
A782509-05-06	1/2" - 20	3/8" - 19	57,0	36,5	19	22
A782509-06-04	9/16" - 18	1/4" - 19	54,0	31,5	14	19
A782509-06-06	9/16" - 18	3/8" - 19	58,0	36,5	19	22
A782509-06-08	9/16" - 18	1/2" - 14	62,0	43,0	22	27
A782509-08-06	3/4" - 16	3/8" - 19	63,0	36,5	19	22
A782509-08-08	3/4" - 16	1/2" - 14	68,0	43,0	22	27
A782509-10-06	7/8" - 14	3/8" - 19	73,0	39,5	22	22
A782509-10-08	7/8" - 14	1/2" - 14	73,0	43,0	22	27
A782509-10-12	7/8" - 14	3/4" - 14	79,0	49,0	27	32
A782509-12-12	1.1/16" - 12	3/4" - 14	84,0	49,0	27	32
A782509-12-16	1.1/16" - 12	1" - 11	92,0	52,0	36	41
A782509-16-12	1.5/16" - 12	3/4" - 14	92,0	52,0	36	32
A782509-16-16	1.5/16" - 12	1" - 11	92,0	52,0	36	41

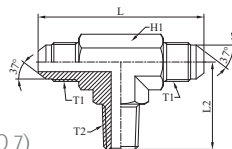
A782507

BRANCH TEE JIC MALE 37° CONE (SAE J514 / ISO 8434-2) - BSP MALE TAPERED (ISO 7)

TE CENTRAL MACHO JIC 37° (SAE J514 / ISO 8434-2) - MACHO CONICO BSP (ISO 7)

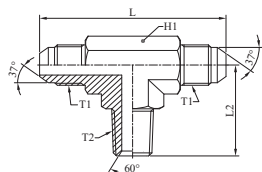
T-ADAPTER JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2) - BSP AG KONISCH (ISO 7)

"T" CENTRALE MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2) - MASCHIO BSP CONICO (ISO 7)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (BSPT)	L	L ₂	H ₁	
A782507-04-02	7/16" - 20	1/8" - 28	45,0	21,0	12	
A782507-05-02	1/2" - 20	1/8" - 28	50,0	23,0	14	
A782507-06-04	9/16" - 18	1/4" - 19	54,0	27,0	14	
A782507-08-06	3/4" - 16	3/8" - 19	63,0	31,0	19	
A782507-10-08	7/8" - 14	1/2" - 14	73,0	37,0	22	
A782507-12-12	1.1/16" - 12	3/4" - 14	84,0	40,5	27	
A782507-16-16	1.5/16" - 12	1" - 11	92,0	46,0	36	
A782507-20-20	1.5/8" - 12	1.1/4" - 11	104,0	54,0	41	
A782507-24-24	1.7/8" - 12	1.1/2" - 11	118,0	60,0	50	

A782528



BRANCH TEE JIC MALE 37° CONE (SAE J514 / ISO 8434-2)

NPTF MALE 60° CONE SEAT (SAE J514)

TE CENTRAL MACHO JIC 37° (SAE J514 / ISO 8434-2)

MACHO NPTF CONO 60° (SAE J514)

T-ADAPTER JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2)

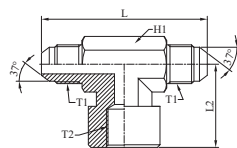
NPTF AG 60° KONISCHES ENDE (SAE J514)

"T" CENTRALE MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)

MASCHIO NPTF CONO 60° (SAE J514)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (NPTF)	L	L ₂	H ₁	
A782528-04-04	7/16"-20	1/4"-18	53,3	27,7	14	
A782528-05-04	1/2"-20	1/4"-18	53,3	27,7	14	
A782528-06-04	9/16"-18	1/4"-18	53,9	27,7	14	
A782528-06-06	9/16"-18	3/8"-18	57,9	31,0	19	
A782528-08-08	3/4"-16	1/2"-14	67,6	37,3	22	
A782528-10-08	7/8"-14	1/2"-14	73,7	37,3	22	
A782528-12-12	1.1/16"-12	3/4"-14	84,3	40,4	27	
A782528-16-16	1.5/16"-12	1"-11,5	92,0	50,0	33	
A782528-20-20	1.5/8"-12	1.1/4"-11,5	104,7	60,5	41	

A712502



BRANCH TEE JIC MALE 37° CONE (SAE J514 / ISO 8434-2)

BSP FEMALE TAPERED (ISO 7)

TE CENTRAL MACHO JIC 37° (SAE J514 / ISO 8434-2) - HEMBRA CONICA BSP (ISO 7)

T-ADAPTER JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2) - BSP IG KONISCH (ISO 7)

"T" CENTRALE MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)

FEMMINA BSP CONICA (ISO 7)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (BSPT)	L	L ₂	H ₁	
A712502-04-02	7/16" - 20	1/8" - 28	48,0	17,0	17	
A712502-05-02	1/2" - 20	1/8" - 28	50,0	19,0	17	
A712502-06-04	9/16" - 18	1/4" - 19	57,0	22,5	19	
A712502-08-06	3/4" - 16	3/8" - 19	68,0	26,0	22	
A712502-10-08	7/8" - 14	1/2" - 14	79,0	31,0	27	
A712502-12-12	1.1/16" - 12	3/4" - 14	89,0	34,5	36	
A712502-16-16	1.5/16" - 12	1" - 11	104,0	41,0	41	
A712502-20-20	1.5/8" - 12	1.1/4" - 11	118,0	43,0	50	

JIC ADAPTORS

A782531

ADJUSTABLE BRANCH TEE JIC MALE 37° CONE (SAE J514 / ISO 8434-2)

SAE MALE O-RING BOSS TYPE (ISO 11926)

TE ORIENTABLE LATERAL MACHO JIC 37° (SAE J514 / ISO 8434-2)

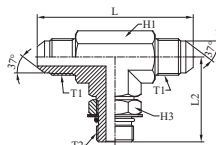
MACHO SAE TIPO O-RING BOSS (ISO 11926)

T-ADAPTER EINSTELLBAR JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2)

SAE AG O-RINGNUT AUSFÜHRUNG (ISO 11926)

"T" CENTRALE ORIENTABILE MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)

MASCHIO SAE TENUTA O-RING (ISO 11926)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (UNF)	L	L ₂	H ₁	H ₃
A782531-04-04	7/16" - 18	7/16" - 18	50,0	26,5	14	16
A782531-05-05	1/2" - 20	1/2" - 20	50,0	27,5	14	16
A782531-06-06	9/16" - 18	9/16" - 18	54,0	31,5	14	19
A782531-08-08	3/4" - 16	3/4" - 16	63,0	36,5	19	24
A782531-10-10	7/8" - 14	7/8" - 14	73,0	43,0	22	27
A782531-12-12	1.1/16" - 12	1.1/16" - 12	84,0	49,0	27	32
A782531-16-16	1.5/16" - 12	1.5/16" - 12	92,0	52,0	36	38

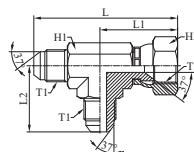
A722525

RUN TEE JIC MALE 37° CONE - JIC FEMALE 37° CONE SEAT (SAE J514 / ISO 8434-2)

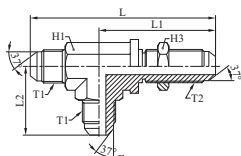
TE LATERAL MACHO 37° - HEMBRA JIC 37° (SAE J514 / ISO 8434-2)

T-ADAPTER JIC AG 37° KONISCHES ENDE - JIC IG KONISCHER DICHTSITZ (SAE J514 / ISO 8434-2)

"T" LATERALE MASCHIO JIC CONO 37° - FEMMINA JIC CONO 37° (SAE J514 / ISO 8434-2)



PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (UNF)	T ₂ (UNF)	L	L ₁	L ₂	H ₁	H ₂
A722525-04-04	7/16" - 20	7/16" - 20	52,0	26,0	26,0	14	16
A722525-05-05	1/2" - 20	1/2" - 20	54,0	28,0	26,0	14	16
A722525-06-06	9/16" - 18	9/16" - 18	58,0	31,0	27,0	14	19
A722525-08-08	3/4" - 16	3/4" - 16	67,0	35,5	31,5	19	22
A722525-10-10	7/8" - 14	7/8" - 14	78,5	42,0	36,5	22	27
A722525-12-12	1.1/16" - 12	1.1/16" - 12	87,5	45,5	42,0	27	32
A722525-16-16	1.5/16" - 12	1.5/16" - 12	97,5	51,5	46,0	36	38
A722525-20-20	1.5/8" - 12	1.5/8" - 12	111,0	59,0	52,0	41	50
A722525-24-24	1.7/8" - 12	1.7/8" - 12	126,0	67,0	59,0	50	55



A762523

BULKHEAD RUN TEE JIC MALE 37° CONE (SAE J514 / ISO 8434-2)

TE PASATABIQUE LATERAL MACHO JIC 37° (SAE J514 / ISO 8434-2)

T-ADAPTER JIC AG 37° KONISCHES ENDE FÜR SCHOTTWAND (SAE J514 / ISO 8434-2)

GIUNZIONE A "T" LATERALE PASSAPARETE MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)

PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (UNF)	T ₂ (UNF)	L	L ₁	L ₂	H ₁	H ₃
A762523-04-04	7/16" - 20	7/16" - 20	65,0	40,5	24,5	14	17
A762523-05-05	1/2" - 20	1/2" - 20	67,0	41,0	26,0	14	19
A762523-06-06	9/16" - 18	9/16" - 18	73,6	46,0	27,5	14	22
A762523-08-08	3/4" - 16	3/4" - 16	89,0	54,5	34,5	19	24
A762523-10-10	7/8" - 14	7/8" - 14	100,0	60,5	39,5	22	30
A762523-12-12	1.1/16" - 12	1.1/16" - 12	113,0	68,0	45,0	27	36
A762523-16-16	1.5/16" - 12	1.5/16" - 12	120,5	71,0	49,5	32	41
A762523-20-20	1.5/8" - 12	1.5/8" - 12	134,0	79,0	55,0	41	50
A762523-24-24	1.7/8" - 12	1.7/8" - 12	146,0	87,0	59,0	50	55

A762509

ADJUSTABLE RUN TEE JIC MALE 37° CONE (SAE J514 / ISO 8434-2)

BSP MALE O-RING BOSS TYPE (ISO 1179-3)

TE ORIENTABLE LATERAL MACHO JIC 37° (SAE J514 / ISO 8434-2)

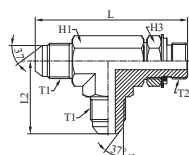
MACHO BSP TIPO O-RING BOSS (ISO 1179-3)

T-ADAPTER EINSTELLBAR JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2)

BSP AG O-RINGNUT AUSFÜHRUNG (ISO 1179-3)

"T" LATERALE ORIENTABILE MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)

MASCHIO BSP TENUTA O-RING (ISO 1179-3)

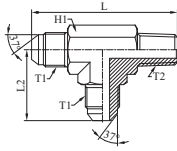


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (BSPP)	L	L ₂	H ₁	H ₃
A762509-04-04	7/16" - 20	1/4" - 19	56,5	25,0	14	19
A762509-04-06	7/16" - 20	3/8" - 19	65,0	28,5	19	22
A762509-05-04	1/2" - 20	1/4" - 19	56,5	25,0	14	19
A762509-05-06	1/2" - 20	3/8" - 19	65,0	28,5	19	22
A762509-06-04	9/16" - 18	1/4" - 19	58,5	27,0	14	19
A762509-06-06	9/16" - 18	3/8" - 19	65,5	29,0	19	22
A762509-06-08	9/16" - 18	1/2" - 14	74,0	31,0	22	27
A762509-08-06	3/4" - 16	3/8" - 19	68,0	31,5	19	22
A762509-08-08	3/4" - 16	1/2" - 14	77,0	34,0	22	27
A762509-10-06	7/8" - 14	3/8" - 19	76,0	36,5	22	22
A762509-10-08	7/8" - 14	1/2" - 14	79,5	36,5	22	27
A762509-10-12	7/8" - 14	3/4" - 14	88,5	39,5	27	32
A762509-12-12	1.1/16" - 12	3/4" - 14	91,0	42,0	27	32
A762509-12-16	1.1/16" - 12	1" - 11	98,0	46,0	36	41
A762509-16-12	1.5/16" - 12	3/4" - 14	98,0	46,0	36	32
A762509-16-16	1.5/16" - 12	1" - 11	98,0	46,0	36	41

JIC ADAPTORS

A762507

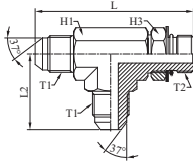
RUN TEE JIC MALE 37° CONE (SAE J514 / ISO 8434-2) - BSP MALE TAPERED (ISO 7)
TE LATERAL MACHO JIC 37° (SAE J514 / ISO 8434-2) - MACHO CONICO (ISO 7)
T-ADAPTER JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2) - BSP AG KONISCH (ISO 7)
"T" LATERALE MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2) - MASCHIO BSP CONICO (ISO 7)



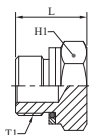
PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (BSPT)	L	L ₂	H ₁	
A762507-04-02	7/16" - 20	1/8" - 28	43,5	22,5	12	
A762507-05-02	1/2" - 20	1/8" - 28	48,0	25,0	14	
A762507-06-04	9/16" - 18	1/4" - 19	54,0	27,0	14	
A762507-08-06	3/4" - 16	3/8" - 19	62,5	31,5	19	
A762507-10-08	7/8" - 14	1/2" - 14	73,5	36,5	22	
A762507-12-12	1.1/16" - 12	3/4" - 14	82,5	42,0	27	
A762507-16-16	1.5/16" - 12	1" - 11	92,0	46,0	36	
A762507-20-20	1.5/8" - 12	1.1/4" - 11	106,0	52,0	41	
A762507-24-24	1.7/8" - 12	1.1/2" - 11	119,0	59,0	50	

A762531

ADJUSTABLE RUN TEE JIC MALE 37° CONE (SAE J514 / ISO 8434-2)
SAE MALE O-RING BOSS TYPE (ISO 11926)
TE ORIENTABLE LATERAL MACHO JIC 37° (SAE J514 / ISO 8434-2)
MACHO SAE TIPO O-RING BOSS (ISO 11926)
T-ADAPTER EINSTELLBAR JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2)
SAE AG O-RINGNUT AUSFÜHRUNG (ISO 11926)
"T" LATERALE ORIENTABILE MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)
MASCHIO SAE TENUTA O-RING (ISO 11926)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (UNF)	L	L ₂	H ₁	H ₃
A762531-04-04	7/16" - 20	7/16" - 20	51,5	25,0	14	16
A762531-05-05	1/2" - 20	1/2" - 20	52,5	25,0	14	16
A762531-06-06	9/16" - 18	9/16" - 18	58,5	27,0	14	19
A762531-08-08	3/4" - 16	3/4" - 16	68,0	31,5	19	24
A762531-10-10	7/8" - 14	7/8" - 14	79,5	36,5	22	27
A762531-10-12	7/8" - 14	1.1/16" - 12	88,5	39,5	27	32
A762531-12-12	1.1/16" - 12	1.1/16" - 12	91,0	42,0	27	32
A762531-16-16	1.5/16" - 12	1.5/16" - 12	98,0	46,0	36	38



A400300

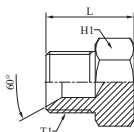
BSP O-RING BOSS MALE PLUG (ISO 1179-3)

TAPÓN MACHO BSP (ISO 1179-3)

BSP VERSCHLUSSSCHRAUBE MIT O-RINGNUT (ISO 1179-3)

TAPPO MASCHIO BSP TENUTA O-RING (ISO 1179-3)

PART. REF.	THREADS	DIMENSIONS mm		
	T _i (BSPP)	L	H ₁	
A400300-04	1/4" - 19	21,0	19	
A400300-06	3/8" - 19	22,0	22	
A400300-08	1/2" - 14	27,0	27	
A400300-12	3/4" - 14	32,0	36	
A400300-16	1" - 11	36,0	41	
A400300-20	1.1/4" - 11	41,0	50	
A400300-24	1.1/2" - 11	42,0	55	



A400500

BSP 60° CONE SEAT MALE PLUG (BS5200 / ISO 8434-6)

TAPÓN MACHO BSP CONO 60° (BS5200 / ISO 8434-6)

BSP 60° KONISCHER DICHTSITZ VERSCHLUSSSCHRAUBE (BS5200 / ISO 8434-6)

TAPPO MASCHIO BSP CONO 60° (BS5200 / ISO 8434-6)

PART. REF.	THREADS	DIMENSIONS mm		
	T _i (BSPP)	L	H ₁	
A400500-02	1/8" - 28	16,0	12	
A400500-04	1/4" - 19	19,0	14	
A400500-06	3/8" - 19	23,0	19	
A400500-08	1/2" - 14	27,0	22	
A400500-12	3/4" - 14	30,0	27	
A400500-16	1" - 11	34,0	35	
A400500-20	1.1/4" - 11	40,0	43	
A400500-24	1.1/2" - 11	43,0	50	

BSP ADAPTORS

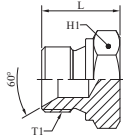
A400500D

BSP 60° CONE SEAT MALE PLUG DIN PROFILE (BS5200 / ISO 8434-6)

TAPÓN MACHO BSP CONO 60° PERFIL DIN (BS5200 / ISO 8434-6)

BSP 60° KONISCHER DICHTSITZ VERSCHLUSSSCHRAUBE DIN PROFIL (BS5200 / ISO 8434-6)

TAPPO MASCHIO BSP CONO 60° PROFILO DIN (BS5200 / ISO 8434-6)



PART. REF.	THREADS	DIMENSIONS mm		
	T ₁ (BSPP)	L	H ₁	
A400500-04D	1/4" - 19	19,0	19	
A400500-06D	3/8" - 19	20,0	22	
A400500-08D	1/2" - 14	25,0	27	
A400500-10D	5/8" - 14	26,0	30	
A400500-12D	3/4" - 14	27,0	32	
A400500-16D	1" - 11	31,5	41	
A400500-20D	1.1/4" - 11	34,0	50	
A400500-24D	1.1/2" - 11	37,0	55	

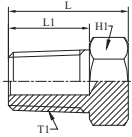
A400700

BSP MALE TAPERED PLUG (ISO 7)

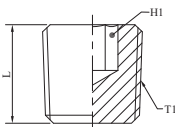
TAPÓN MACHO CONICO BSP (ISO 7)

BSP VERSCHLUSSSCHRAUBE MIT KONISCHEM GEWINDE (ISO 7)

TAPPO MASCHIO BSP CONICO (ISO 7)



PART. REF.	THREADS	DIMENSIONS mm		
	T ₁ (BSPT)	L	L ₁	H ₁
A400700-02	1/8" - 28	17,5	10,0	12
A400700-04	1/4" - 19	20,5	14,0	14
A400700-06	3/8" - 19	24,0	16,0	19
A400700-08	1/2" - 14	26,5	18,0	22
A400700-12	3/4" - 14	32,0	20,0	27
A400700-16	1" - 11	36,0	23,0	35
A400700-20	1.1/4" - 11	41,5	26,0	43
A400700-24	1.1/2" - 11	43,0	27,0	50



A400700E

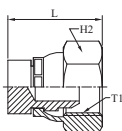
BSP MALE TAPERED PLUG "HEXAGONAL SOCKET HEAD" (ISO 7)

TAPÓN MACHO "ALLEN" (ISO 7)

BSP VERSCHLUSSSCHRAUBE MIT IMBUSKOPF (ISO 7)

TAPPO MASCHIO BSP CONICO AD ESAGONO INCASSATO (ISO 7)

PART. REF.	THREADS	DIMENSIONS mm		
	T ₁ (BSPT)	L	H ₁	
A400500-04D	1/4" - 19	19,0	19	
A400500-06D	3/8" - 19	20,0	22	
A400500-08D	1/2" - 14	25,0	27	
A400500-10D	5/8" - 14	26,0	30	
A400500-12D	3/4" - 14	27,0	32	
A400500-16D	1" - 11	31,5	41	
A400500-20D	1.1/4" - 11	34,0	50	
A400500-24D	1.1/2" - 11	37,0	55	



A410500

BSP 60° CONE FEMALE PLUG (BS5200 / ISO 8434-6)

TAPÓN HEMBRA CONO 60° (BS5200 / ISO 8434-6)

BSP VERSCHLUSSKAPPE 60° KONISCHER DICHTSITZ (BS5200 / ISO 8434-6)

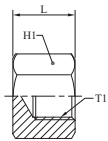
TAPPO FEMMINA BSP CONO 60° (BS5200 / ISO 8434-6)

PART. REF.	THREADS	DIMENSIONS mm		
	T ₁ (BSPP)	L	H ₂	
A410500-02	1/8" - 28	21,0	14	
A410500-04	1/4" - 19	23,0	19	
A410500-06	3/8" - 19	27,0	22	
A410500-08	1/2" - 14	30,0	27	
A410500-10	5/8" - 14	26,0	30	
A410500-12	3/4" - 14	35,0	32	
A410500-16	1" - 11	39,0	41	
A410500-20	1.1/4" - 11	43,0	50	
A410500-24	1.1/2" - 11	48,0	55	

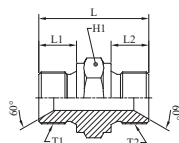
BSP ADAPTORS

A410400

BSP FIXED FEMALE PLUG (ISO 1179-1)
TAPÓN HEMBRA BSP (ISO 1179-1)
BSP VERSCHLUSSKAPPE MIT IG (ISO 1179-1)
TAPPO FEMMINA FISSA BSP (ISO 1179-1)



PART. REF.	THREADS	DIMENSIONS		
		mm		
	T ₁ (BSPP)	L	H ₁	
A410400-04	1/4" - 19	19,0	19	
A410400-06	3/8" - 19	19,0	22	
A410400-08	1/2" - 14	24,0	27	
A410400-12	3/4" - 14	25,0	32	
A410400-16	1" - 14	29,0	41	



A500505

UNION BSP MALE 60° CONE SEAT DIN PROFILE (BS5200 / ISO 8434-6)

UNIÓN MACHO BSP CONO 60° PERFIL DIN (BS5200 / ISO 8434-6)

BSP AG VERBINDER 60° KONISCHER DICHTSITZ, DIN PROFIL (BS5200 / ISO 8434-6)

GIUNZIONE MASCHIO BSP CONO 60° PROFILO DIN (BS5200 / ISO 8434-6)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L	L ₁	L ₂	H ₁
A500505-02-02	1/8" - 28	1/8" - 28	25,0	8,7	8,7	14
A500505-02-04	1/8" - 28	1/4" - 19	29,0	8,7	11,0	19
A500505-04-04	1/4" - 19	1/4" - 19	32,0	11,0	11,0	19
A500505-04-06	1/4" - 19	3/8" - 19	33,0	11,0	12,0	22
A500505-04-08	1/4" - 19	1/2" - 14	36,5	11,0	14,0	27
A500505-04-12	1/4" - 19	3/4" - 14	39,0	11,0	16,0	32
A500505-06-06	3/8" - 19	3/8" - 19	34,0	12,0	12,0	22
A500505-06-08	3/8" - 19	1/2" - 14	37,0	12,0	14,0	27
A500505-06-10	3/8" - 19	5/8" - 14	39,0	12,0	16,0	30
A500505-06-12	3/8" - 19	3/4" - 14	41,0	12,0	16,0	32
A500505-08-08	1/2" - 14	1/2" - 14	39,5	14,0	14,0	27
A500505-08-10	1/2" - 14	5/8" - 14	41,5	14,0	16,0	30
A500505-08-12	1/2" - 14	3/4" - 14	43,5	14,0	16,0	32
A500505-08-16	1/2" - 14	1" - 11	47,5	14,0	19,0	41
A500505-10-10	5/8" - 14	5/8" - 14	43,5	16,0	16,0	30
A500505-10-12	5/8" - 14	3/4" - 14	44,5	16,0	16,0	32
A500505-12-12	3/4" - 14	3/4" - 14	44,5	16,0	16,0	32
A500505-12-16	3/4" - 14	1" - 11	48,5	16,0	19,0	41
A500505-12-20	3/4" - 14	1.1/4" - 11	52,5	16,0	20,0	50
A500505-16-16	1" - 11	1" - 11	51,5	19,0	19,0	41
A500505-16-20	1" - 11	1.1/4" - 11	55,5	19,0	20,0	50
A500505-16-24	1" - 11	1.1/2" - 11	58,5	19,0	22,0	55
A500505-20-20	1.1/4" - 11	1.1/4" - 11	56,5	20,0	20,0	50
A500505-20-24	1.1/4" - 11	1.1/2" - 11	59,5	20,0	22,0	55
A500505-24-24	1.1/2" - 11	1.1/2" - 11	61,5	22,0	22,0	55
A500505-24-32	1.1/2" - 11	2" - 11	67,5	22,0	25,0	70
A500505-32-32	2" - 11	2" - 11	71,0	25,0	25,0	70

BSP ADAPTORS

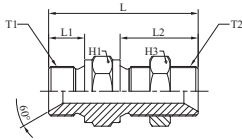
A500504

BULKHEAD UNION BSP MALE 60° CONE SEAT (BS5200 / ISO 8434-6)

PASATABIQUE RECTO MACHO BSP CONO 60° (BS5200 / ISO 8434-6)

BSP VERBINDER AG 60° KONISCHES ENDE FÜR SCHOTTWAND (BS5200 / ISO 8434-6)

GIUNZIONE PASSAPARETE MASCHIO BSP CONO 60° (BS5200 / ISO 8434-6)



PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (BSPP)	T ₂ (BSPP)	L ₁	L ₂	L	H ₁	H ₃
A500504-02-02	1/8" - 28	1/8" - 19	8,7	25,0	38,0	14,0	14
A500504-04-04	1/4" - 19	1/4" - 19	11,0	29,0	47,0	19,0	19
A500504-06-06	3/8" - 14	3/8" - 14	12,0	31,0	52,0	22,0	22
A500504-08-08	1/2" - 14	1/2" - 14	14,0	34,0	60,0	27,0	27
A500504-10-10	5/8" - 11	5/8" - 11	16,0	37,0	64,0	30,0	30
A500504-12-12	3/4" - 11	3/4" - 11	16,0	37,0	66,0	32,0	32
A500504-16-16	1" - 11	1" - 11	19,0	41,0	74,0	41,0	41
A500504-20-20	1.1/4" - 11	1.1/4" - 11	20,0	45,0	81,0	50,0	50

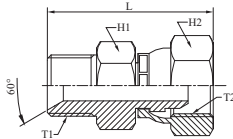
A520505

BSP MALE 60° CONE SEAT - BSP FEMALE 60° CONE (BS5200 / ISO 8434-6)

MACHO BSP CONO 60° - HEMBRA BSP CONO 60° (BS5200 / ISO 8434-6)

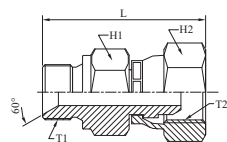
BSP AG 60° KONISCHES ENDE - BSP IG 60° KONISCHER DICHTSITZ (BS5200 / ISO 8434-6)

MASCHIO BSP CONO 60° - FEMMINA BSP CONO 60° (BS5200 / ISO 8434-6)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L	H ₁	H ₂	
A520505-04-04	1/4" - 19	1/4" - 19	36,0	14	19	
A520505-06-06	3/8" - 19	3/8" - 19	42,0	19	22	
A520505-08-08	1/2" - 14	1/2" - 14	48,5	22	27	
A520505-12-12	3/4" - 14	3/4" - 14	57,0	27	32	
A520505-16-16	1" - 11	1" - 11	64,5	35	41	
A520505-20-20	1.1/4" - 11	1.1/4" - 11	72,0	44	50	
A520505-24-24	1.1/2" - 11	1.1/2" - 11	79,0	50	55	

A520505D



BSP MALE 60° CONE SEAT DIN PROFILE - BSP FEMALE 60° CONE (BS5200 / ISO 8434-6)

MACHO BSP CONO 60° PERFIL DIN - HEMBRA BSP CONO 60° (BS5200 / ISO 8434-6)

BSP AG 60° KONISCHES ENDE DIN PROFIL

BSP IG 60° KONISCHER DICHTSITZ (BS5200 / ISO 8434-6)

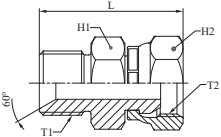
MASCHIO BSP CONO 60° PROFILO DIN - FEMMINA BSP CONO 60° (BS5200 / ISO 8434-6)

PART. REF.	THREADS		DIMENSIONS			
			mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L	H ₁	H ₂	
A520505-04-04D	1/4" - 19	1/4" - 19	38,0	19	19	
A520505-04-06D	1/4" - 19	3/8" - 19	39,5	19	22	
A520505-04-08D	1/4" - 19	1/2" - 14	42,0	22	27	
A520505-06-04D	3/8" - 19	1/4" - 19	38,0	22	19	
A520505-06-06D	3/8" - 19	3/8" - 19	40,5	22	22	
A520505-06-08D	3/8" - 19	1/2" - 14	43,0	22	27	
A520505-08-06D	1/2" - 14	3/8" - 19	43,5	27	22	
A520505-08-08D	1/2" - 14	1/2" - 14	46,0	27	27	
A520505-08-12D	1/2" - 14	3/4" - 14	51,0	27	32	
A520505-10-10D	5/8" - 14	5/8" - 14	51,0	30	30	
A520505-12-08D	3/4" - 14	1/2" - 14	49,0	32	27	
A520505-12-12D	3/4" - 14	3/4" - 14	54,0	32	32	
A520505-12-16D	3/4" - 14	1" - 11	55,0	35	41	
A520505-16-12D	1" - 11	3/4" - 14	59,5	41	32	
A520505-16-16D	1" - 11	1" - 11	64,0	41	41	
A520505-20-20D	1.1/4" - 11	1.1/4" - 11	67,0	50	50	
A520505-24-24D	1.1/2" - 11	1.1/2" - 11	78,0	55	55	

BSP ADAPTORS

A520528

BSP MALE 60° CONE SEAT (BS5200 / ISO 8434-6)
NPSM SWIVEL FEMALE 60° CONE (SAE J514)
MACHO BSP CONO 60° (BS5200 / ISO 8434-6)
HEMBRA GIRATORIA NPSM CONO 60° (SAE J514)
BSP AG 60° KONISCHES ENDE (BS5200 / ISO 8434-6)
NPSM IG, 60° KONISCHER DICHTSITZ, VERSTELLBAR (SAE J514)
MASCHIO BSP CONO 60° (BS5200 / ISO 8434-6)
FEMMINA NPSM CONO 60° (SAE J514)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (NPSM)	L	H ₁	H ₂	
A520528-06-06	3/8"-19	3/8"-18	40,5	19	22	
A520528-08-06	1/2"-14	3/8"-18	43,5	22	22	
A520528-08-08	1/2"-14	1/2"-14	46,0	22	27	
A520528-08-12	1/2"-14	3/4"-14	51,0	27	32	
A520528-16-08	1"-11	1/2"-14	57,0	35	27	
A520528-16-12	1"-11	3/4"-14	59,5	35	32	
A520528-16-16	1"-11	1"-11,5	64,0	35	38	
A520528-24-24	1.1/2"-11	1.1/2"-11,5	78,0	50	54	

A500503

BSP MALE 60° CONE SEAT (BS5200 / ISO 8434-6)

BSP MALE O-RING BOSS TYPE (ISO 1179-3)

MACHO BSP CONO 60° (BS5200 / ISO 8434-6)

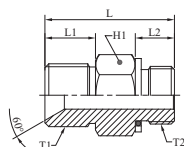
MACHO BSP TIPO O-RING BOSS (ISO 1179-3)

BSP AG 60° KONISCHES ENDE (BS5200 / ISO 8434-6)

BSP AG O-RINGNUT AUSFÜHRUNG (ISO 1179-3)

MASCHIO BSP CONO 60° (BS5200 / ISO 8434-6)

MASCHIO BSP TENUTA O-RING (ISO 1179-3)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L	L ₁	L ₂	H ₁
A500503-04-04	1/4" - 19	1/4" - 19	33,0	11,0	11,2	19
A500503-04-06	1/4" - 19	3/8" - 19	34,0	11,0	11,2	22
A500503-06-04	3/8" - 19	1/4" - 19	36,0	12,0	11,2	19
A500503-06-06	3/8" - 19	3/8" - 19	36,0	12,0	11,2	22
A500503-06-08	3/8" - 19	1/2" - 14	39,0	12,0	14,5	27
A500503-08-06	1/2" - 14	3/8" - 19	39,0	14,0	11,2	22
A500503-08-08	1/2" - 14	1/2" - 14	42,0	14,0	14,5	27
A500503-08-12	1/2" - 14	3/4" - 14	46,0	14,0	14,5	32
A500503-12-08	3/4" - 14	1/2" - 14	44,0	16,0	14,5	27
A500503-12-12	3/4" - 14	3/4" - 14	48,0	16,0	14,5	32
A500503-12-16	3/4" - 14	1" - 11	50,0	16,0	18,6	41
A500503-16-12	1" - 11	3/4" - 14	50,0	19,0	14,5	35
A500503-16-16	1" - 11	1" - 11	52,0	19,0	18,6	41
A500503-16-20	1" - 11	1.1/4" - 11	56,0	19,0	18,6	50
A500503-20-16	1.1/4" - 11	1" - 11	57,0	20,0	18,6	43
A500503-20-20	1.1/4" - 11	1.1/4" - 11	60,0	20,0	18,6	50
A500503-24-20	1.1/2" - 11	1.1/4" - 11	60,0	22,0	18,6	50
A500503-24-24	1.1/2" - 11	1.1/2" - 11	63,0	22,0	18,6	55

BSP ADAPTORS

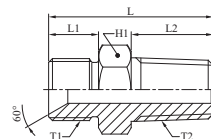
A500507

BSP MALE 60° CONE SEAT (BS5200 / ISO 8434-6) - BSP MALE TAPERED (ISO 7)

MACHO BSP CONO 60° (BS5200 / ISO 8434-6) - MACHO CONICO (ISO 7)

BSP AG 60° KONISCHES ENDE (BS5200 / ISO 8434-6) - BSP AG KONISCH (ISO 7)

MASCHIO BSP CONO 60° (BS5200 / ISO 8434-6) - MASCHIO BSP CONICO (ISO 7)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPT)	L	L ₁	L ₂	H ₁
A500507-02-02	1/8" - 28	1/8" - 28	23,0	8,0	10,0	12
A500507-02-04	1/8" - 28	1/4" - 19	28,0	8,0	14,0	14
A500507-04-02	1/4" - 19	1/8" - 28	28,0	11,0	10,0	14
A500507-04-04	1/4" - 19	1/4" - 19	32,0	11,0	14,0	14
A500507-04-06	1/4" - 19	3/8" - 19	33,0	11,0	16,0	19
A500507-04-08	1/4" - 19	1/2" - 14	37,0	11,0	18,0	22
A500507-06-04	3/8" - 19	1/4" - 19	33,0	12,0	14,0	19
A500507-06-06	3/8" - 19	3/8" - 19	34,0	12,0	16,0	19
A500507-06-08	3/8" - 19	1/2" - 14	38,0	12,0	18,0	22
A500507-08-04	1/2" - 14	1/4" - 19	37,0	14,0	14,0	22
A500507-08-06	1/2" - 14	3/8" - 19	38,0	14,0	16,0	22
A500507-08-08	1/2" - 14	1/2" - 14	40,0	14,0	18,0	22
A500507-08-12	1/2" - 14	3/4" - 14	44,0	14,0	20,0	27
A500507-10-08	5/8" - 14	1/2" - 14	42,0	16,0	18,0	27
A500507-12-08	3/4" - 14	1/2" - 14	43,0	16,0	18,0	27
A500507-12-12	3/4" - 14	3/4" - 14	46,0	16,0	20,0	27
A500507-12-16	3/4" - 14	1" - 11	50,0	16,0	23,0	35
A500507-16-12	1" - 11	3/4" - 14	50,0	19,0	20,0	35
A500507-16-16	1" - 11	1" - 11	53,0	19,0	23,0	35
A500507-16-20	1" - 11	1.1/4" - 11	58,0	19,0	26,0	44
A500507-20-16	1.1/4" - 11	1" - 11	56,0	20,0	23,0	44
A500507-20-20	1.1/4" - 11	1.1/4" - 11	59,0	20,0	26,0	44
A500507-20-24	1.1/4" - 11	1.1/2" - 11	62,0	20,0	27,0	50
A500507-24-20	1.1/2" - 11	1.1/4" - 11	62,0	22,0	26,0	50
A500507-24-24	1.1/2" - 11	1.1/2" - 11	63,0	22,0	27,0	50
A500507-32-32	2" - 11	2" - 11	72,0	25,0	30,0	65

A500528

BSP MALE 60° CONE SEAT (BS5200 / ISO 8434-6)

NPTF MALE 60° CONE SEAT (SAE J514)

MACHO BSP CONO 60° (BS5200 / ISO 8434-6)

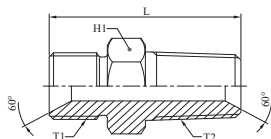
MACHO NPTF CONO 60° (SAE J514)

BSP AG 60° KONISCHES ENDE (BS5200 / ISO 8434-6)

NPTF AG 60° KONISCHES ENDE (SAE J514)

MASCHIO BSP CONO 60° (BS5200 / ISO 8434-6)

MASCHIO NPTF CONO 60° (SAE J514)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (NPTF)	L	H ₁		
A500528-04-04	1/4"-19	1/4"-18	31,5	16		
A500528-04-06	1/4"-19	3/8"-18	31,5	19		
A500528-06-06	3/8"-19	3/8"-18	32,5	19		
A500528-08-08	1/2"-14	1/2"-14	40,0	22		
A500528-12-12	3/4"-14	3/4"-14	44,0	27		
A500528-16-16	1"-11	1"-11,5	53,0	35		
A500528-20-20	1.1/4"-11	1.1/4"-11,5	57,0	44		
A500528-24-24	1.1/2"-11	1.1/2"-11,5	63,0	50		

BSP ADAPTORS

A500530

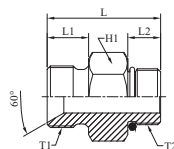
BSP MALE 60° CONE SEAT (BS5200 / ISO 8434-6) - SAE MALE O-RING BOSS TYPE (ISO 11926)

MACHO BSP CONO 60° (BS5200 / ISO 8434-6) - MACHO SAE TIPO O-RING BOSS (ISO 11926)

BSP AG 60° KONISCHES ENDE (BS5200 / ISO 8434-6)

SAE AG O-RINGNUT AUSFÜHRUNG (ISO 11926)

MASCHIO BSP CONO 60° (BS5200 / ISO 8434-6) - MASCHIO SAE TENUTA O-RING (ISO 11926)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (UNF)	L	L ₁	L ₂	H ₁
A500530-04-04	1/4" - 19	7/16" - 20	27,5	11,0	9,0	14
A500530-04-06	1/4" - 19	9/16" - 18	29,0	11,0	10,0	17
A500530-04-08	1/4" - 19	3/4" - 16	33,5	11,0	11,0	22
A500530-04-10	1/4" - 19	7/8" - 14	38,5	11,0	13,0	27
A500530-06-06	3/8" - 19	9/16" - 18	31,5	12,0	10,0	17
A500530-06-08	3/8" - 19	3/4" - 16	33,5	12,0	11,0	22
A500530-06-10	3/8" - 19	7/8" - 14	35,5	12,0	13,0	27
A500530-08-06	1/2" - 14	9/16" - 18	35,0	12,0	10,0	22
A500530-08-08	1/2" - 14	3/4" - 16	36,0	14,0	11,0	22
A500530-08-10	1/2" - 14	7/8" - 14	39,0	14,0	13,0	27
A500530-10-06	5/8" - 14	9/16" - 18	37,0	16,0	10,0	27
A500530-10-08	5/8" - 14	3/4" - 16	37,0	16,0	11,0	27
A500530-10-10	5/8" - 14	7/8" - 14	40,5	16,0	13,0	27
A500530-10-12	5/8" - 14	1.1/16" - 12	44,5	16,0	15,0	32
A500530-12-08	3/4" - 14	3/4" - 16	42,0	16,0	11,0	32
A500530-12-12	3/4" - 14	1.1/16" - 12	46,0	16,0	15,0	32
A500530-12-16	3/4" - 14	1.5/16" - 12	46,0	16,0	15,0	41
A500530-16-12	1" - 11	1.1/16" - 12	48,0	19,0	15,0	41
A500530-16-16	1" - 11	1.5/16" - 12	48,0	19,0	15,0	41

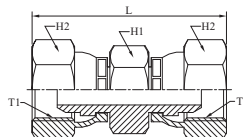
A510505

UNION BSP FEMALE 60° CONE (BS5200 / ISO 8434-6)

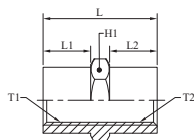
UNIÓN HEMBRA BSP CONO 60° (BS5200 / ISO 8434-6)

BSP VERBINDER IG 60° KONISCHER DICHTSITZ (BS5200 / ISO 8434-6)

GIUNZIONE FEMMINA BSP CONO 60° (BS5200 / ISO 8434-6)



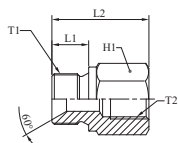
PART. REF.	THREADS	DIMENSIONS mm		
	T ₁ (BSPP)	L	H ₁	H ₂
A510505-04-04	1/4" - 19	39,0	14	19
A510505-06-06	3/8" - 19	45,0	19	22
A510505-08-08	1/2" - 14	52,0	22	27
A510505-12-12	3/4" - 14	63,0	27	32
A510505-16-16	1" - 11	74,0	35	41
A510505-20-20	1.1/4" - 11	77,0	44	50
A510505-24-24	1.1/2" - 11	87,0	50	55



A510404

UNION BSP FIXED FEMALE (ISO 1179-1)
UNIÓN HEMBRA FIJA BSP (ISO 1179-1)
BSP IG VERBINDER (ISO 1179-1)
GIUNZIONE FEMMINA FISSA BSP (ISO 1179-1)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L	L ₁	L ₂	H ₁
A510404-02-02	1/8" - 28	1/8" - 28	20,0	7,0	7,0	14
A510404-02-04	1/8" - 28	1/4" - 19	25,0	7,0	12,0	19
A510404-04-04	1/4" - 19	1/4" - 19	30,0	12,0	12,0	19
A510404-04-06	1/4" - 19	3/8" - 19	30,0	12,0	12,0	24
A510404-06-06	3/8" - 19	3/8" - 19	30,0	12,0	12,0	24
A510404-06-08	3/8" - 19	1/2" - 14	35,0	12,0	15,0	27
A510404-08-08	1/2" - 14	1/2" - 14	38,0	15,0	15,0	27
A510404-08-12	1/2" - 14	3/4" - 14	40,0	15,0	15,0	35
A510404-12-12	3/4" - 14	3/4" - 14	40,0	15,0	15,0	36
A510404-12-16	3/4" - 14	1" - 11	47,0	15,0	19,0	41
A510404-16-16	1" - 11	1" - 11	51,0	19,0	19,0	41
A510404-16-20	1" - 11	1.1/4" - 11	50,0	19,0	19,0	55
A510404-20-20	1.1/4" - 11	1.1/4" - 11	51,0	19,0	19,0	55
A510404-24-24	1.1/2" - 11	1.1/2" - 11	51,0	19,0	19,0	60



A520504

BSP MALE 60° CONE SEAT DIN PROFILE (BS5200 / ISO 8434-6) - BSP FIXED FEMALE (ISO 1179-1)
MACHO BSP CONO 60° PERFIL DIN (BS5200 / ISO 8434-6) - HEMBRA FIJA BSP (ISO 1179-1)
BSP AG 60° KONISCHES ENDE (BS5200 / ISO 8434-6) - BSP IG (ISO 1179-1)
MASCHIO BSP CONO 60° PROFILO DIN (BS5200 / ISO 8434-6) - FEMMINA FISSA BSP (ISO 1179-1)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L ₁	L ₂	H ₁	
A520504-04-06	1/4" - 19	3/8" - 19	11,0	33,0	22	
A520504-06-04	3/8" - 19	1/4" - 19	12,0	38,0	22	
A520504-06-08	3/8" - 19	1/2" - 14	12,0	38,0	27	
A520504-08-04	1/2" - 14	1/4" - 19	14,0	36,0	27	
A520504-08-06	1/2" - 14	1/2" - 14	14,0	36,0	27	
A520504-08-12	1/2" - 14	3/4" - 14	14,0	46,0	32	
A520504-12-06	3/4" - 14	3/8" - 19	16,0	42,0	32	
A520504-12-08	3/4" - 14	1/2" - 14	16,0	42,0	32	
A520504-12-16	3/4" - 14	1" - 11	16,0	49,0	41	
A520504-16-12	1" - 11	3/4" - 14	19,0	50,0	41	
A520504-20-20	1.1/4" - 11	1.1/4" - 11	20,0	53,0	50	

BSP ADAPTORS

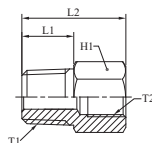
A520704

BSP MALE TAPERED (ISO 7) - BSP FIXED FEMALE (ISO 1179-1)

MACHO CONICO BSP (ISO 7) - HEMBRA FIJA BSP (ISO 1179-1)

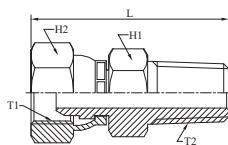
BSP AG KONISCHES GEWINDE (ISO 7) - BSP IG (ISO 1179-1)

MASCHIO BSP CONICO (ISO 7) - FEMMINA FISSA BSP (ISO 1179-1)



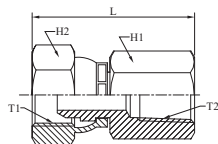
PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPT)	T ₂ (BSPP)	L ₁	L ₂	H ₁	
A520704-02-04	1/8" - 28	1/4" - 19	10,0	29,0	19	
A520704-02-06	1/8" - 28	3/8" - 19	10,0	33,0	22	
A520704-04-02	1/4" - 19	1/8" - 28	14,0	20,0	14	
A520704-04-04	1/4" - 19	1/4" - 19	14,0	32,0	19	
A520704-04-06	1/4" - 19	3/8" - 19	14,0	34,0	22	
A520704-06-02	3/8" - 19	1/8" - 28	16,0	21,0	19	
A520704-06-04	3/8" - 19	1/4" - 19	16,0	22,0	19	
A520704-06-06	3/8" - 19	3/8" - 19	16,0	32,0	22	
A520704-06-08	3/8" - 19	1/2" - 14	16,0	39,0	27	
A520704-08-02	1/2" - 14	1/8" - 28	18,0	27,0	22	
A520704-08-04	1/2" - 14	1/4" - 19	18,0	27,0	22	
A520704-08-06	1/2" - 14	3/8" - 19	18,0	27,0	22	
A520704-08-08	1/2" - 14	1/2" - 14	18,0	41,0	27	
A520704-08-12	1/2" - 14	3/4" - 14	18,0	45,0	32	
A520704-08-16	1/2" - 14	1" - 11	18,0	51,0	41	
A520704-12-04	3/4" - 14	1/4" - 19	20,0	28,0	27	
A520704-12-06	3/4" - 14	3/8" - 19	20,0	29,0	27	
A520704-12-08	3/4" - 14	1/2" - 14	20,0	29,0	27	
A520704-12-16	3/4" - 14	1" - 11	20,0	50,0	41	
A520704-16-08	1" - 11	1/2" - 14	23,0	34,0	35	
A520704-16-12	1" - 11	3/4" - 14	23,0	34,0	35	
A520704-16-16	1" - 11	1" - 11	23,0	56,0	41	
A520704-16-20	1" - 11	1.1/4" - 11	23,0	57,5	50	
A520704-20-12	1.1/4" - 11	3/4" - 14	26,0	36,0	44	
A520704-20-16	1.1/4" - 11	1" - 11	26,0	36,0	44	
A520704-20-24	1.1/4" - 11	1.1/2" - 11	26,0	63,0	55	
A520704-24-16	1.1/2" - 11	1" - 11	27,0	39,5	50	
A520704-24-20	1.1/2" - 11	1.1/4" - 11	27,0	40,0	50	
A520704-32-20	2" - 11	1.1/4" - 11	30,0	62,0	65	
A520704-32-24	2" - 11	1.1/2" - 11	30,0	64,0	65	

A520705



BSP MALE TAPERED (ISO 7) - BSP FEMALE 60° CONE (BS5200 / ISO 8434-6)
 MACHO CONICO BSP (ISO 7) - HEMBRA BSP CONO 60° (BS5200 / ISO 8434-6)
 BSP AG KONISCHE GEWINDE (ISO 7)
 BSP IG 60° KONISCHER DICHTSITZ (BS5200 / ISO 8434-6)
 MASCHIO BSP CONICO (ISO 7) - FEMMINA BSP CONO 60° (BS5200 / ISO 8434-6)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPT)	L	H ₁	H ₂	
A520705-04-04	1/4" - 19	1/4" - 19	37,0	14	19	
A520705-06-06	3/8" - 19	3/8" - 19	43,0	19	22	
A520705-06-08	3/8" - 19	1/2" - 14	46,0	22	27	
A520705-08-06	1/2" - 14	3/8" - 19	46,0	22	22	
A520705-08-08	1/2" - 14	1/2" - 14	49,0	22	27	
A520705-12-12	3/4" - 14	3/4" - 14	56,0	27	32	
A520705-16-16	1" - 11	1" - 11	66,0	35	41	
A520705-20-20	1.1/4" - 11	1.1/4" - 11	72,0	44	50	
A520705-24-24	1.1/2" - 11	1.1/2" - 11	80,0	50	55	



A510502

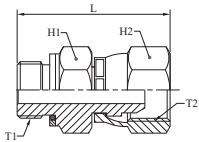
BSP FEMALE 60° CONE (BS5200 / ISO 8434-6) - BSP FEMALE TAPERED (ISO 7)
 HEMBRA BSP CONO 60° (BS5200 / ISO 8434-6) - HEMBRA CONICA BSP (ISO 7)
 BSP IG 60° KONISCHER DICHTSITZ (BS5200 / ISO 8434-6) - BSP IG KONISCH (ISO 7)
 FEMMINA BSP CONO 60° (BS5200 / ISO 8434-6) - FEMMINA BSP CONICA (ISO 7)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPT)	L	H ₁	H ₂	
A510502-04-04	1/4" - 19	1/4" - 19	34,0	19	19	
A510502-06-06	3/8" - 19	3/8" - 19	40,0	22	22	
A510502-08-08	1/2" - 14	1/2" - 14	47,0	27	27	
A510502-12-12	3/4" - 14	3/4" - 14	53,0	35	32	
A510502-16-16	1" - 11	1" - 11	61,0	41	41	
A510502-20-20	1.1/4" - 11	1.1/4" - 11	67,0	50	50	
A510502-24-24	1.1/2" - 11	1.1/2" - 11	73,0	55	55	

BSP ADAPTORS

A520305

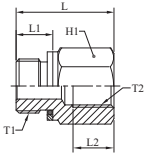
BSP MALE O-RING BOSS TYPE (ISO 1179-3) - BSP FEMALE 60° CONE (BS5200 / ISO 8434-6)
MACHO BSP TIPO O-RING BOSS (ISO 1179-3) - HEMBRA BSP CONO 60° (BS5200 / ISO 8434-6)
BSP AG O-RINGNUT AUSFÜHRUNG (ISO 1179-3)
BSP IG 60° KONISCHER DICHTSITZ (BS5200 / ISO 8434-6)
MASCHIO BSP TENUTA O-RING (ISO 1179-3) - FEMMINA BSP CONO 60° (BS5200 / ISO 8434-6)



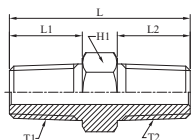
PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L	H ₁	H ₂	
A520305-04-04	1/4" - 19	1/4" - 19	36,5	19	19	
A520305-06-06	3/8" - 19	3/8" - 19	39,5	22	22	
A520305-08-08	1/2" - 14	1/2" - 14	45,5	27	27	
A520305-12-12	3/4" - 14	3/4" - 14	54,0	32	32	
A520305-16-16	1" - 11	1" - 11	61,5	41	41	
A520305-20-20	1.1/4" - 11	1.1/4" - 11	67,0	50	50	
A520305-24-24	1.1/2" - 11	1.1/2" - 11	73,5	55	55	

A520304

BSP MALE O-RING BOSS TYPE (ISO 1179-3) - BSP FIXED FEMALE (ISO 1179-1)
MACHO BSP TIPO O-RING BOSS (ISO 1179-3) - HEMBRA FIJA BSP (ISO 1179-1)
BSP AG O-RINGNUT AUSFÜHRUNG (ISO 1179-3) - BSP IG (ISO 1179-1)
MASCHIO BSP TENUTA O-RING (ISO 1179-3) - FEMMINA FISSA BSP (ISO 1179-1)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L	L ₁	L ₂	H ₁
A520304-02-04	1/8" - 28	1/4" - 19	28,0	7,6	12,5	19
A520304-04-06	1/4" - 19	3/8" - 19	36,0	11,2	12,5	24
A520304-06-04	3/8" - 19	1/4" - 19	30,0	11,2	12,5	22
A520304-06-08	3/8" - 19	1/2" - 14	41,0	11,2	14,5	30
A520304-08-06	1/2" - 14	3/8" - 19	36,0	14,5	12,5	27
A520304-08-12	1/2" - 14	3/4" - 14	46,0	14,5	16,5	36
A520304-12-08	3/4" - 14	1/2" - 14	41,0	14,5	14,5	32
A520304-12-16	3/4" - 14	1" - 11	51,0	14,5	18,5	41
A520304-16-12	1" - 11	3/4" - 14	47,0	18,6	16,5	41
A520304-16-20	1" - 11	1.1/4" - 11	57,0	18,6	20,5	55
A520304-20-16	1.1/4" - 11	1" - 11	52,0	18,6	18,5	50
A520304-20-24	1.1/4" - 11	1.1/2" - 11	60,0	18,6	20,5	60



A500707

UNION BSP MALE TAPERED (ISO 7)
 UNIÓN MACHO CONICO BSP (ISO 7)
 BSP KONISCHES AG VERBINDER (ISO 7)
 GIUNZIONE MASCHIO BSP CONICO (ISO 7)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPT)	T ₂ (BSPT)	L	L ₁	L ₂	H ₁
A500707-02-02	1/8" - 28	1/8" - 28	25,0	10,0	10,0	12
A500707-02-04	1/8" - 28	1/4" - 19	30,0	10,0	14,0	14
A500707-02-06	1/8" - 28	3/8" - 19	31,0	10,0	16,0	19
A500707-04-04	1/4" - 19	1/4" - 19	34,0	14,0	14,0	14
A500707-04-06	1/4" - 19	3/8" - 19	35,0	14,0	16,0	19
A500707-04-08	1/4" - 19	1/2" - 14	39,0	14,0	18,0	22
A500707-06-06	3/8" - 19	3/8" - 19	36,0	16,0	16,0	19
A500707-06-08	3/8" - 19	1/2" - 14	40,0	16,0	18,0	22
A500707-06-12	3/8" - 19	3/4" - 14	44,0	16,0	20,0	27
A500707-08-08	1/2" - 14	1/2" - 14	42,0	18,0	18,0	22
A500707-08-12	1/2" - 14	3/4" - 14	46,0	18,0	20,0	27
A500707-08-16	1/2" - 14	1" - 11	50,0	18,0	23,0	35
A500707-12-12	3/4" - 14	3/4" - 14	49,0	20,0	20,0	27
A500707-12-16	3/4" - 14	1" - 11	53,0	20,0	23,0	35
A500707-16-16	1" - 11	1" - 11	56,0	23,0	23,0	35
A500707-16-20	1" - 11	1.1/4" - 11	61,0	23,0	26,0	44
A500707-20-20	1.1/4" - 11	1.1/4" - 11	64,0	26,0	26,0	44
A500707-20-24	1.1/4" - 11	1.1/2" - 11	67,0	26,0	27,0	50
A500707-24-24	1.1/2" - 11	1.1/2" - 11	68,0	27,0	27,0	50
A500707-24-32	1.1/2" - 11	2" - 11	74,0	27,0	30,0	65
A500707-32-32	2" - 11	2" - 11	77,0	30,0	30,0	65

BSP ADAPTORS

A530509

45° ADJUSTABLE ELBOW BSP MALE 60° CONE SEAT (BS5200 / ISO 8434-6)

BSP MALE O-RING BOSS TYPE (ISO 1179-3)

CODO ORIENTABLE 45° MACHO BSP CONO 60° (BS5200 / ISO 8434-6)

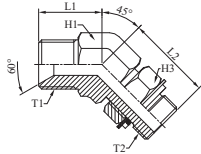
MACHO BSP TIPO O-RING BOSS (ISO 1179-3)

45° WINKEL EINSTELLBAR, BSP AG 60° KONISCHES ENDE (BS5200 / ISO 8434-6)

BSP AG O-RINGNUT AUSFÜHRUNG (ISO 1179-3)

GOMITO 45° ORIENTABILE MASCHIO BSP CONO 60° (SAE BS5200 / ISO 8434-6)

MASCHIO BSP TENUTA O-RING (ISO 1179-3)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L ₁	L ₂	H ₁	H ₃
A530509-04-04	1/4" - 19	1/4" - 19	21,0	28,0	14	19
A530509-04-06	1/4" - 19	3/8" - 19	23,0	33,0	19	22
A530509-06-04	3/8" - 19	1/4" - 19	25,0	33,0	19	19
A530509-06-06	3/8" - 19	3/8" - 19	25,0	33,0	19	22
A530509-06-08	3/8" - 19	1/2" - 14	26,0	38,5	22	27
A530509-08-06	1/2" - 14	3/8" - 19	28,0	38,5	22	22
A530509-08-08	1/2" - 14	1/2" - 14	28,0	38,5	22	27
A530509-08-12	1/2" - 14	3/4" - 14	30,0	43,0	27	32
A530509-12-08	3/4" - 14	1/2" - 14	33,0	43,0	27	27
A530509-12-12	3/4" - 14	3/4" - 14	33,0	43,0	27	32
A530509-12-16	3/4" - 14	1" - 11	35,0	47,0	35	41
A530509-16-12	1" - 11	3/4" - 14	38,0	46,0	35	32
A530509-16-16	1" - 11	1" - 11	38,0	47,0	35	41
A530509-16-20	1" - 11	1.1/4" - 11	40,0	48,5	44	50
A530509-20-16	1.1/4" - 11	1" - 11	45,0	48,5	44	41
A530509-20-20	1.1/4" - 11	1.1/4" - 11	45,0	48,5	44	50

A530507

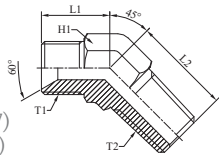
45° ELBOW BSP MALE 60° CONE SEAT (BS5200 / ISO 8434-6)

BSP MALE TAPERED (ISO 7)

CODO 45° MACHO BSP CONO 60° (BS5200 / ISO 8434-6) - MACHO CONICO BSP (ISO 7)

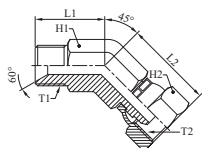
45° WINKEL BSP AG 60° KONISCHES ENDE (BS5200 / ISO 8434-6) - BSP KONISCHES AG (ISO 7)

GOMITO 45° MASCHIO BSP CONO 60° (BS5200 / ISO 8434-6) - MASCHIO BSP CONICO (ISO 7)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L ₁	L ₂	H ₁	
A530507-04-04	1/4" - 19	1/4" - 19	21,0	21,0	14	
A530507-06-06	3/8" - 19	3/8" - 19	25,0	26,0	19	
A530507-08-08	1/2" - 14	1/2" - 14	28,0	31,0	22	
A530507-12-12	3/4" - 14	3/4" - 14	33,0	31,5	27	
A530507-16-16	1" - 11	1" - 11	38,0 41,0	35		
A530507-20-20	1.1/4" - 11	1.1/4" - 11	45,0	46,0	44	
A530507-24-24	1.1/2" - 11	1.1/2" - 11	47,0	48,0	50	
A530507-32-32	2" - 11	2" - 11	56,0	55,0	65	

A550505



45° ELBOW BSP MALE 60° CONE SEAT - BSP FEMALE 60° CONE (BS5200 / ISO 8434-6)

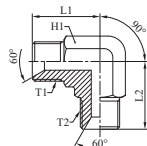
CODO 45° MACHO CONO 60° - HEMBRA CONO 60° (BS5200 / ISO 8434-6)

45° WINKEL BSP AG 60° KONISCHES ENDE

BSP IG 60° KONISCHER DICHTSITZ (BS5200 / ISO 8434-6)

GOMITO 45° MASCHIO BSP CONO 60° - FEMMINA BSP CONO 60° (BS5200 / ISO 8434-6)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L ₁	L ₂	H ₁	H ₂
A550505-04-04	1/4" - 19	1/4" - 19	21,0	23,0	14	19
A550505-06-06	3/8" - 19	3/8" - 19	25,0	28,0	19	22
A550505-08-08	1/2" - 14	1/2" - 14	28,0	29,5	22	27
A550505-12-12	3/4" - 14	3/4" - 14	33,0	37,0	27	32
A550505-16-16	1" - 11	1" - 11	38,0	46,0	35	41
A550505-20-20	1.1/4" - 11	1.1/4" - 11	45,0	51,5	44	50
A550505-24-24	1.1/2" - 11	1.1/2" - 11	47,0	55,0	50	55



A560505

UNION 90° ELBOW BSP MALE 60° CONE SEAT (BS5200 / ISO 8434-6)

CODO 90° MACHO BSP CONO 60° (BS5200 / ISO 8434-6)

90° WINKELVERBINDER BSP AG 60° KONISCHES ENDE (BS5200 / ISO 8434-6)

GIUNZIONE 90° MASCHIO BSP CONO 60° (BS5200 / ISO 8434-6)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L ₁	L ₂	H ₁	
A560505-04-04	1/4" - 19	1/4" - 19	25,0	25,0	14	
A560505-06-06	3/8" - 19	3/8" - 19	29,0	29,0	19	
A560505-08-08	1/2" - 14	1/2" - 14	33,0	33,0	22	
A560505-12-12	3/4" - 14	3/4" - 14	38,0	38,0	27	
A560505-16-16	1" - 11	1" - 11	45,0	45,0	35	
A560505-20-20	1.1/4" - 11	1.1/4" - 11	52,0	52,0	41	
A560505-24-24	1.1/2" - 11	1.1/2" - 11	59,0	59,0	50	

BSP ADAPTORS

A530531

45° ADJUSTABLE ELBOW BSP MALE 60° CONE SEAT (BS5200 / ISO 8434-6)

SAE MALE O-RING BOSS TYPE (ISO 11926)

CODO ORIENTABLE 45° MACHO BSP CONO 60° (BS5200 / ISO 8434-6)

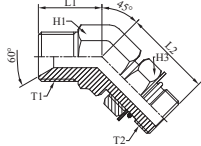
MACHO SAE TIPO O-RING BOSS (ISO 11926)

45° WINKEL EINSTELLBAR BSP AG 60° KONISCHES ENDE (BS5200 / ISO 8434-6)

SAE AG O-RINGNUT AUSFÜHRUNG (ISO 11926)

GOMITO 45° ORIENTABILE MASCHIO BSP CONO 60° (SAE BS5200 / ISO 8434-6)

MASCHIO SAE TENUTA O-RING (ISO 11926)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (UNF)	L ₁	L ₂	H ₁	H ₃
A530531-04-06	1/4" - 19	9/16" - 18	21,0	28,0	14	19
A530531-06-08	3/8" - 19	3/4" - 16	25,0	33,0	19	24
A530531-08-10	1/2" - 14	7/8" - 14	28,0	38,5	22	27
A530531-12-12	3/4" - 14	1.1/16" - 12	33,0	43,0	27	32
A530531-16-16	1" - 11	1.5/16" - 12	38,0	47,0	35	38
A530531-20-20	1.1/4" - 11	1.5/8" - 12	45,0	48,5	44	50

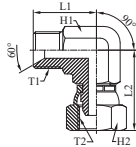
A580505

90° ELBOW BSP MALE 60° CONE SEAT - BSP FEMALE 60° CONE (BS5200 / ISO 8434-6)

CODO 90° MACHO BSP CONO 60° - HEMBRA BSP CONO 60° (BS5200 / ISO 8434-6)

90° WINKEL BSP AG 60° KONISCHES ENDE - BSP IG 60° KONISCHER DICHTSITZ (BS5200 / ISO 8434-6)

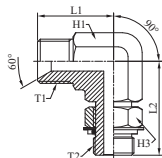
GOMITO 90° MASCHIO BSP CONO 60° - FEMMINA BSP CONO 60° (BS5200 / ISO 8434-6)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L ₁	L ₂	H ₁	H ₂
A580505-04-04	1/4" - 19	1/4" - 19	25,0	28,0	14	19
A580505-06-06	3/8" - 19	3/8" - 19	29,0	31,0	19	22
A580505-08-08	1/2" - 14	1/2" - 14	33,0	37,0	22	27
A580505-12-12	3/4" - 14	3/4" - 14	38,0	45,0	27	32
A580505-16-16	1" - 11	1" - 11	45,0	52,0	35	41
A580505-20-20	1.1/4" - 11	1.1/4" - 11	52,0	62,0	41	50
A580505-24-24	1.1/2" - 11	1.1/2" - 11	59,0	73,0	50	55

A560509

90° ADJUSTABLE ELBOW BSP MALE 60° CONE SEAT (BS5200 / ISO 8434-6)
 BSP MALE O-RING BOSS TYPE (ISO 1179-3)
 CODO ORIENTABLE 90° MACHO BSP CONO 60° (BS5200 / ISO 8434-6)
 MACHO BSP TIPO O-RING BOSS (ISO 1179-3)
 90° WINKELADAPTER BSP AG 60° KONISCHES ENDE (BS5200 / ISO 8434-6)
 BSP AG O-RINGNUT AUSFÜHRUNG (ISO 1179-3)
 GOMITO 90° ORIENTABILE MASCHIO BSP CONO 60° (BS5200 / ISO 8434-6)
 MASCHIO BSP TENUTA O-RING (ISO 1179-3)

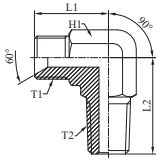


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L ₁	L ₂	H ₁	H ₂
A560509-04-04	1/4" - 19	1/4" - 19	25,0	31,5	14	19
A560509-04-06	1/4" - 19	3/8" - 19	26,0	36,5	19	22
A560509-06-04	3/8" - 19	1/4" - 19	29,0	33,5	19	19
A560509-06-06	3/8" - 19	3/8" - 19	29,0	36,5	19	22
A560509-06-08	3/8" - 19	1/2" - 14	30,0	43,0	22	27
A560509-08-06	1/2" - 14	3/8" - 19	33,0	39,5	22	22
A560509-08-08	1/2" - 14	1/2" - 14	33,0	43,0	22	27
A560509-08-12	1/2" - 14	3/4" - 14	36,0	49,0	27	32
A560509-12-08	3/4" - 14	1/2" - 14	38,0	45,5	27	27
A560509-12-12	3/4" - 14	3/4" - 14	38,0	49,0	27	32
A560509-12-16	3/4" - 14	1" - 11	42,0	52,0	35	41
A560509-16-12	1" - 11	3/4" - 14	45,0	52,0	35	32
A560509-16-16	1" - 11	1" - 11	45,0	52,0	35	41
A560509-16-20	1" - 11	1.1/4" - 11	52,0	57,0	41	50
A560509-20-16	1.1/4" - 11	1" - 11	52,0	57,0	41	41
A560509-20-20	1.1/4" - 11	1.1/4" - 11	52,0	57,0	41	50

BSP ADAPTORS

A560507

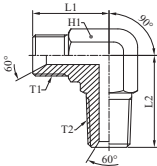
90° ELBOW BSP MALE 60° CONE SEAT (BS5200 / ISO 8434-6) - BSP MALE TAPERED (ISO 7)
CODO 90° MACHO BSP CONO 60° (BS5200 / ISO 8434-6) - MACHO CONICO BSP (ISO 7)
90° WINKEL BSO AG 60° KONISCHES ENDE (BS5200 / ISO 8434-6) - BSP KONISCHES AG (ISO 7)
GOMITO 90° MASCHIO BSP CONO 60° (BS5200 / ISO 8434-6) - MASCHIO BSP CONICO (ISO 7)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPT)	L ₁	L ₂	H ₁	
A560507-04-04	1/4" - 19	1/4" - 19	25,0	27,0	14	
A560507-06-06	3/8" - 19	3/8" - 19	29,0	31,0	19	
A560507-08-08	1/2" - 14	1/2" - 14	33,0	37,0	22	
A560507-12-12	3/4" - 14	3/4" - 14	38,0	42,0	27	
A560507-16-16	1" - 11	1" - 11	45,0	48,0	35	
A560507-20-20	1.1/4" - 11	1.1/4" - 11	52,0	57,0	41	
A560507-24-24	1.1/2" - 11	1.1/2" - 11	59,0	65,0	50	
A560507-32-32	2" - 11	2" - 11	73,0	74,0	65	

A560528

90° ELBOW BSP MALE 60° CONE SEAT (BS5200 / ISO 8434-6)
NPTF MALE 60° CONE SEAT (SAE J514)
CODO 90° MACHO BSP CONO 60° (BS5200 / ISO 8434-6)
MACHO NPTF CONO 60° (SAE J514)
90° WINKEL BSP AG 60° KONISCHES ENDE (BS5200 / ISO 8434-6)
NPTF AG 60° KONISCHES ENDE (SAE J514)
GOMITO 90° MASCHIO BSP CONO 60° (BS5200 / ISO 8434-6)
MASCHIO NPTF CONO 60° (SAE J514)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (NPTF)	L ₁	L ₂	H ₁	
A560528-04-04	1/4"-19	1/4"-18	26,0	28,0	14	
A560528-06-06	3/8"-19	3/8"-18	29,0	31,0	19	
A560528-08-08	1/2"-14	1/2"-14	34,0	37,5	22	
A560528-12-12	3/4"-14	3/4"-14	41,0	40,0	27	
A560528-16-16	1"-11	1"-11,5	45,0	50,0	33	
A560528-20-20	1.1/4"-11	1.1/4"-11,5	52,0	60,0	41	

A560531

90° ADJUSTABLE ELBOW BSP MALE 60° CONE SEAT (BS5200 / ISO 8434-6)

SAE MALE O-RING BOSS TYPE (ISO 11926)

CODO ORIENTABLE 90° MACHO BSP CONO 60° (BS5200 / ISO 8434-6)

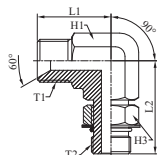
MACHO SAE TIPO O-RING BOSS (ISO 11926)

90° WINKEL EINSTELLBAR BSP AG 60° KONISCHES ENDE (BS5200 / ISO 8434-6)

SAE AG O-RINGNUT AUSFÜHRUNG (ISO 11926)

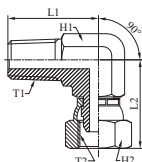
GOMITO 90° ORIENTABILE MASCHIO BSP CONO 60° (BS5200 / ISO 8434-6)

MASCHIO SAE TENUTA O-RING (ISO 11926)



PART. REF.	THREADS	DIMENSIONS mm				
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	T ₁ (BSPP)	T ₂ (UNF)	L ₁	L ₂	H ₁	H ₃
A560531-04-06	1/4" - 19	9/16" - 18	25,0	31,5	14	19
A560531-06-08	3/8" - 19	3/4" - 16	29,0	36,5	19	24
A560531-08-10	1/2" - 14	7/8" - 14	33,0	43,0	22	27
A560531-12-12	3/4" - 14	1.1/16" - 12	38,0	49,0	27	32
A560531-16-16	1" - 11	1.5/16" - 12	45,0	52,0	35	38
A560531-20-20	1.1/4" - 11	1.5/8" - 12	52,0	57,0	41	50



A580705

90° ELBOW BSP MALE TAPERED (ISO 7) - BSP FEMALE 60° CONE (BS5200 / ISO 8434-6)

CODO 90° MACHO CONICO (ISO 7) - HEMBRA BSP CONO 60° (BS5200 / ISO 8434-6)

90° WINKEL BSP KONISCHES AG (ISO 7) - BSP IG 60° KONISCHER DICHTSITZ (BS5200 / ISO 8434-6)

GOMITO 90° MASCHIO BSP CONICO (ISO 7) - FEMMINA BSP CONO 60° (BS5200 / ISO 8434-6)

PART. REF.	THREADS	DIMENSIONS mm				
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	T ₁ (BSPT)	T ₂ (BSPP)	L ₁	L ₂	H ₁	H ₂
A580705-04-04	1/4" - 19	1/4" - 19	27,0	28,0	14	19
A580705-06-06	3/8" - 19	3/8" - 19	31,0	31,0	19	22
A580705-08-08	1/2" - 14	1/2" - 14	37,0	37,0	22	27
A580705-12-12	3/4" - 14	3/4" - 14	40,5	45,0	27	32
A580705-16-16	1" - 11	1" - 11	48,0	52,0	35	41
A580705-20-20	1.1/4" - 11	1.1/4" - 11	57,0	62,0	41	50
A580705-24-24	1.1/2" - 11	1.1/2" - 11	65,0	73,0	50	55

BSP ADAPTORS

A580905

90° ADJUSTABLE ELBOW BSP FEMALE 60° CONE (BS5200 / ISO 8434-6)

BSP MALE O-RING BOSS TYPE (ISO 1179-3)

CODO ORIENTABLE 90° HEMBRA BSP CONO 60° (BS5200 / ISO 8434-6)

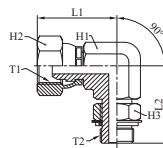
MACHO BSP TIPO O-RING BOSS (ISO 1179-3)

90° WINKEL EINSTELLBAR BSP IG 60° KONISCHER DICHTSITZ (BS5200 / ISO 8434-6)

BSP AG O-RINGNUT AUSFÜHRUNG (ISO 1179-3)

GOMITO 90° ORIENTABILE FEMMINA BSP CONO 60° (BS5200 / ISO 8434-6)

MASCHIO BSP TENUTA O-RING (ISO 1179-3)



PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (BSPP)	T ₂ (BSPP)	L ₁	L ₂	H ₁	H ₂	H ₃
A580905-04-04	1/4" - 19	1/4" - 19	28,0	32,0	14	19	19
A580905-06-06	3/8" - 19	3/8" - 19	31,0	37,0	19	22	22
A580905-08-08	1/2" - 14	1/2" - 14	37,0	43,0	22	27	27
A580905-12-12	3/4" - 14	3/4" - 14	45,0	49,0	27	32	32
A580905-16-16	1" - 11	1" - 11	52,0	52,0	35	41	41
A580905-20-20	1.1/4" - 11	1.1/4" - 11	59,5	57,0	41	50	50
A580905-24-24	1.1/2" - 11	1.1/2" - 11	67,0	65,0	50	55	55

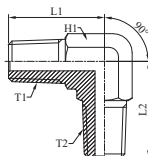
A560707

UNION 90° ELBOW BSP MALE TAPERED (ISO 7)

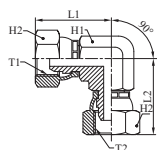
CODO 90° MACHO BSP CONICO (ISO 7)

90° WINKELVERBINDER BSP KONISCHES AG (ISO 7)

GIUNZIONE 90° MASCHIO BSP CONICO (ISO 7)



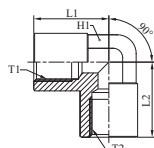
PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPT)	T ₂ (BSPT)	L ₁	L ₂	H ₁	
A560707-02-02	1/8" - 28	1/8" - 28	21,0	21,0	12	
A560707-04-04	1/4" - 19	1/4" - 19	25,0	25,0	14	
A560707-06-06	3/8" - 19	3/8" - 19	31,0	31,0	19	
A560707-08-08	1/2" - 14	1/2" - 14	35,0	35,0	22	
A560707-12-12	3/4" - 14	3/4" - 14	41,0	41,0	27	
A560707-16-16	1" - 11	1" - 11	48,0	48,0	35	
A560707-20-20	1.1/4" - 11	1.1/4" - 11	55,0	55,0	41	
A560707-24-24	1.1/2" - 11	1.1/2" - 11	60,0	60,0	50	
A560707-32-32	2" - 11	2" - 11	74,0	74,0	65	



A570505

UNION 90° ELBOW BSP FEMALE 60° CONE (BS5200 / ISO 8434-6)
 CODO 90° HEMBRA BSP CONO 60° (BS5200 / ISO 8434-6)
 90° WINKELVERBINDER BSP IG 60° KONISCHER DICHTSITZ (BS5200 / ISO 8434-6)
 GIUNZIONE 90° FEMMINA BSP CONO 60° (BS5200 / ISO 8434-6)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L ₁	L ₂	H ₁	H ₂
A570505-04-04	1/4" - 19	1/4" - 19	28,0	28,0	14	19
A570505-06-06	3/8" - 19	3/8" - 19	31,0	31,0	19	22
A570505-08-08	1/2" - 14	1/2" - 14	37,0	37,0	24	27
A570505-12-12	3/4" - 14	3/4" - 14	45,0	45,0	27	32
A570505-16-16	1" - 11	1" - 11	54,0	54,0	35	41
A570505-20-20	1.1/4" - 11	1.1/4" - 11	59,5	59,5	41	50
A570505-24-24	1.1/2" - 11	1.1/2" - 11	67,0	67,0	50	55



A570404

UNION 90° ELBOW BSP FIXED FEMALE (ISO 1179-1)
 CODO 90° HEMBRA FIJA BSP (ISO 1179-1)
 90° WINKELVERBINDER BSP IG (ISO 1179-1)
 GIUNZIONE 90° FEMMINA FISSA BSP (ISO 1179-1)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L ₁	L ₂	H ₁	
A570404-02-02	1/8" - 28	1/8" - 28	22,5	22,5	17	
A570404-04-04	1/4" - 19	1/4" - 19	22,5	22,5	21	
A570404-06-06	3/8" - 19	3/8" - 19	26,0	26,0	25	
A570404-08-08	1/2" - 14	1/2" - 14	28,5	28,5	30	
A570404-12-12	3/4" - 14	3/4" - 14	33,0	33,0	37	
A570404-16-16	1" - 11	1" - 11	38,5	38,5	43	
A570404-20-20	1.1/4" - 11	1.1/4" - 11	46,0	46,0	52	
A570404-24-24	1.1/2" - 11	1.1/2" - 11	49,0	49,0	59	

BSP ADAPTORS

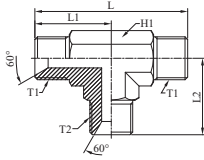
A700505

UNION TEE BSP MALE 60° CONE SEAT (BS5200 / ISO 8434-6)

TE MACHO BSP CONO 60° (BS5200 / ISO 8434-6)

T-VERBINDER BSP AG 60° KONISCHES ENDE (BS5200 / ISO 8434-6)

GIUNZIONE A "T" MASCHIO BSP CONO 60° (BS5200 / ISO 8434-6)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L	L ₁	L ₂	H ₁
A700505-04-04	1/4" - 19	1/4" - 19	50,0	25,0	25,0	14
A700505-06-06	3/8" - 19	3/8" - 19	58,0	29,0	29,0	19
A700505-08-08	1/2" - 14	1/2" - 14	66,0	33,0	33,0	22
A700505-12-12	3/4" - 14	3/4" - 14	76,0	38,0	38,0	27
A700505-16-16	1" - 11	1" - 11	90,0	45,0	45,0	36
A700505-20-20	1.1/4" - 11	1.1/4" - 11	104,0	52,0	52,0	41
A700505-24-24	1.1/2" - 11	1.1/2" - 11	118,0	59,0	59,0	50

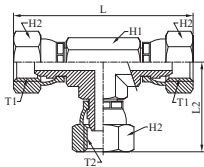
A730505

UNION TEE BSP FEMALE 60° CONE (BS5200 / ISO 8434-6)

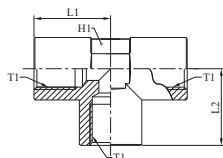
TE HEMBRA BSP CONO 60° (BS5200 / ISO 8434-6)

T-VERBINDER BSP IG 60° KONISCHER DICHTSITZ (BS5200 / ISO 8434-6)

GIUNZIONE A "T" FEMMINA BSP CONO 60° (BS5200 / ISO 8434-6)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L	L ₂	H ₁	H ₂
A730505-04-04	1/4" - 19	1/4" - 19	56,0	28,0	14	19
A730505-06-06	3/8" - 19	3/8" - 19	62,0	31,0	19	22
A730505-08-08	1/2" - 14	1/2" - 14	74,0	37,0	22	27
A730505-12-12	3/4" - 14	3/4" - 14	90,0	45,0	27	32
A730505-16-16	1" - 11	1" - 11	108,0	54,0	35	41
A730505-20-20	1.1/4" - 11	1.1/4" - 11	124,0	62,0	41	50
A730505-24-24	1.1/2" - 11	1.1/2" - 11	146,0	73,0	50	55



A730404

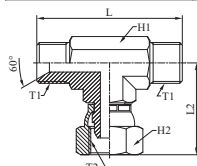
UNION TEE BSP FIXED FEMALE (ISO 1179-1)

TE HEMBRA FIJA BSP (ISO 1179-1)

T-VERBINDER BSP IG (ISO 1179-1)

GIUNZIONE A "T" FEMMINA FISSA BSP (ISO 1179-1)

PART. REF.	THREADS	DIMENSIONS mm			
	T ₁ (BSPP)	L ₁	L ₂	H ₁	
A570404-02-02	1/8" - 28	22,0	22,0	17	
A570404-04-04	1/4" - 19	22,0	22,0	19	
A570404-06-06	3/8" - 19	25,0	25,0	24	
A570404-08-08	1/2" - 14	28,5	28,5	30	
A570404-12-12	3/4" - 14	32,5	32,5	36	
A570404-16-16	1" - 11	36,5	36,5	43	
A570404-20-20	1.1/4" - 11	44,0	44,0	52	
A570404-24-24	1.1/2" - 11	49,0	49,0	58	



A710505

BRANCH TEE BSP MALE 60° CONE SEAT - BSP FEMALE 60° CONE (BS5200 / ISO 8434-6)

TE CENTRAL MACHO BSP CONO 60° - HEMBRA BSP CONO 60° (BS5200 / ISO 8434-6)

T-ADAPTER BSP AG 60° KONISCHES ENDE - BSP IG 60° KONISCHER DICHTSITZ (BS5200 / ISO 8434-6)

"T" CENTRALE MASCHIO BSP CONO 60° - FEMMINA BSP CONO 60° (BS5200 / ISO 8434-6)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L	L ₂	H ₁	H ₂
A710505-04-04	1/4" - 19	1/4" - 19	50,0	28,0	14	19
A710505-06-06	3/8" - 19	3/8" - 19	58,0	31,0	19	22
A710505-08-08	1/2" - 14	1/2" - 14	66,0	37,0	22	27
A710505-12-12	3/4" - 14	3/4" - 14	76,0	45,0	27	32
A710505-16-16	1" - 11	1" - 11	90,0	54,0	36	41
A710505-20-20	1.1/4" - 11	1.1/4" - 11	104,0	62,0	41	50
A710505-24-24	1.1/2" - 11	1.1/2" - 11	118,0	73,0	50	55

BSP ADAPTORS

A780509

ADJUSTABLE BRANCH TEE BSP MALE 60° CONE SEAT (BS5200 / ISO 8434-6)

BSP MALE O-RING BOSS TYPE (ISO 1179-3)

TE ORIENTABLE CENTRAL MACHO BSP CONO 60° (BS5200 / ISO 8434-6)

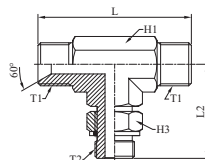
MACHO BSP TIPO O-RING BOSS (ISO 1179-3)

T-ADAPTER EINSTELLBAR, BSP AG 60° KONISCHES ENDE (BS5200 / ISO 8434-6)

BSP AG O-RINGNUT AUSFÜHRUNG (ISO 1179-3)

"T" CENTRALE ORIENTABILE MASCHIO BSP CONO 60° (BS5200 / ISO 8434-6)

MASCHIO BSP TENUTA O-RING (ISO 1179-3)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L	L ₂	H ₁	H ₃
A780509-04-04	1/4" - 19	1/4" - 19	50,0	31,5	14	19
A780509-06-06	3/8" - 19	3/8" - 19	58,0	36,5	19	22
A780509-08-08	1/2" - 14	1/2" - 14	66,0	43,0	22	27
A780509-12-12	3/4" - 14	3/4" - 14	76,0	49,0	27	32
A780509-16-16	1" - 11	1" - 11	90,0	52,0	36	41
A780509-20-20	1.1/4" - 11	1.1/4" - 11	104,0	57,0	41	50
A780509-24-24	1.1/2" - 11	1.1/2" - 11	118,0	64,0	50	55

A780531

ADJUSTABLE BRANCH TEE BSP MALE 60° CONE SEAT (BS5200 / ISO 8434-6)

SAE MALE O-RING BOSS TYPE (ISO 11926)

TE ORIENTABLE CENTRAL MACHO BSP CONO 60° (BS5200 / ISO 8434-6)

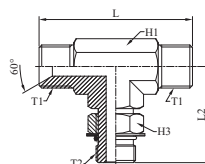
MACHO SAE TIPO O-RING BOSS (ISO 11926)

T-ADAPTER EINSTELLBAR BSP AG 60° KONISCHES ENDE (BS5200 / ISO 8434-6)

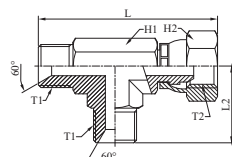
SAE AG O-RINGNUT AUSFÜHRUNG (ISO 11926)

"T" CENTRALE ORIENTABILE MASCHIO BSP CONO 60° (BS5200 / ISO 8434-6)

MASCHIO SAE TENUTA O-RING (ISO 11926)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (UNF)	L	L ₂	H ₁	H ₃
A780531-04-04	1/4" - 19	7/16" - 20	50,0	26,0	14	16
A780531-06-06	3/8" - 19	9/16" - 18	58,0	34,5	19	19
A780531-08-08	1/2" - 14	3/4" - 16	66,0	39,5	22	24
A780531-08-10	1/2" - 14	7/8" - 14	66,0	43,0	22	27
A780531-12-10	3/4" - 14	7/8" - 14	76,0	45,5	27	27
A780531-12-12	3/4" - 14	1.1/16" - 12	76,0	49,0	27	32
A780531-16-16	1" - 11	1.5/16" - 12	90,0	52,0	36	38
A780531-20-20	1.1/4" - 11	1.5/8" - 12	104,0	57,0	41	50
A780531-24-24	1.1/2" - 11	1.7/8" - 12	118,0	64,0	50	55



A720505

RUN TEE BSP MALE 60° CONE SEAT - BSP FEMALE 60° CONE (BS5200 / ISO 8434-6)

TE LATERAL MACHO BSP CONO 60° - HEMBRA BSP CONO 60° (BS5200 / ISO 8434-6)

T-ADAPTER BSP AG 60° KONISCHES ENDE

BSP IG 60° KONISCHER DICHTSITZ (BS5200 / ISO 8434-6)

"T" LATERALE MASCHIO BSP CONO 60° - FEMMINA BSP CONO 60° (BS5200 / ISO 8434-6)

PART. REF.	THREADS		DIMENSIONS			
			mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L	L ₂	H ₁	H ₂
A720505-04-04	1/4" - 19	1/4" - 19	53,0	25,0	14	19
A720505-06-06	3/8" - 19	3/8" - 19	60,0	29,0	19	22
A720505-08-08	1/2" - 14	1/2" - 14	70,0	33,0	22	27
A720505-12-12	3/4" - 14	3/4" - 14	83,0	38,0	27	32
A720505-16-16	1" - 11	1" - 11	99,0	45,0	36	41
A720505-20-20	1.1/4" - 11	1.1/4" - 11	114,0	52,0	41	50
A720505-24-24	1.1/2" - 11	1.1/2" - 11	132,0	59,0	50	55

A760509

ADJUSTABLE RUN TEE BSP MALE 60° CONE SEAT (BS5200 / ISO 8434-6)

BSP MALE O-RING BOSS TYPE (ISO 1179-3)

TE ORIENTABLE LATERAL MACHO BSP CONO 60° (BS5200 / ISO 8434-6)

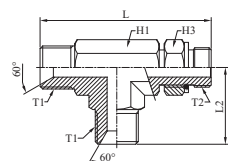
MACHO BSP TIPO O-RING BOSS (ISO 1179-3)

T-ADAPTER EINSTELLBAR BSP AG 60° KONISCHES ENDE (BS5200 / ISO 8434-6)

BSP AG O-RINGNUT AUSFÜHRUNG (ISO 1179-3)

"T" LATERALE ORIENTABILE MASCHIO BSP CONO 60° (BS5200 / ISO 8434-6)

MASCHIO BSP TENUTA O-RING (ISO 1179-3)



PART. REF.	THREADS		DIMENSIONS			
			mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L	L ₂	H ₁	H ₃
A760509-04-04	1/4" - 19	1/4" - 19	56,5	25,0	14	19
A760509-06-06	3/8" - 19	3/8" - 19	65,5	29,0	19	22
A760509-08-08	1/2" - 14	1/2" - 14	76,0	33,0	22	27
A760509-12-12	3/4" - 14	3/4" - 14	87,0	38,0	27	32
A760509-16-16	1" - 11	1" - 11	97,0	45,0	36	41
A760509-20-20	1.1/4" - 11	1.1/4" - 11	109,0	52,0	41	50
A760509-24-24	1.1/2" - 11	1.1/2" - 11	123,0	59,0	50	55

BSP ADAPTORS

A760531

ADJUSTABLE RUN TEE BSP MALE 60° CONE SEAT (BS5200 / ISO 8434-6)

SAE MALE O-RING BOSS TYPE (ISO 11926)

TE ORIENTABLE LATERAL MACHO BSP CONO 60° (BS5200 / ISO 8434-6)

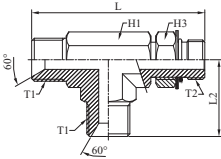
MACHO SAE TIPO O-RING BOSS (ISO 11926)

T-ADAPTER EINSTELLBAR BSP AG 60° KONISCHES ENDE (BS5200 / ISO 8434-6)

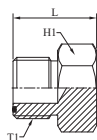
SAE AG O-RINGNUT AUSFÜHRUNG (ISO 11926)

“T” LATERALE ORIENTABILE MASCHIO BSP CONO 60° (BS5200 / ISO 8434-6)

MASCHIO SAE TENUTA O-RING (ISO 11926)



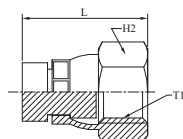
PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (UNF)	L	L ₂	H ₁	H ₃
A760531-04-04	1/4" - 19	7/16" - 20	51,0	25,0	14	16
A760531-06-06	3/8" - 19	9/16" - 18	63,5	29,0	19	19
A760531-08-08	1/2" - 14	3/4" - 16	72,5	33,0	22	24
A760531-08-10	1/2" - 14	7/8" - 14	76,0	33,0	22	27
A760531-12-10	3/4" - 14	7/8" - 14	83,5	38,0	27	27
A760531-12-12	3/4" - 14	1.1/16" - 12	87,0	38,0	27	32
A760531-16-16	1" - 11	1.5/16" - 12	97,0	45,0	36	38
A760531-20-20	1.1/4" - 11	1.5/8" - 12	109,0	52,0	41	50
A760531-24-24	1.1/2" - 11	1.7/8" - 12	123,0	59,0	50	55



A402400

ORFS MALE PLUG (SAE J1453 / ISO 8434-3)
 TAPÓN MACHO ORFS (SAE J1453 / ISO 8434-3)
 ORFS VERSCHLUSSSCHRAUBE (SAE J1453 / ISO 8434-3)
 TAPPO MASCHIO ORFS (SAE J1453 / ISO 8434-3)

PART. REF.	THREADS	DIMENSIONS mm	
	T ₁ (UNF/S-UN)	L	H ₁
A402400-04	9/16" - 18	16,5	16
A402400-06	11/16" - 16	19,5	19
A402400-08	13/16" - 16	21,0	22
A402400-10	1" - 14	23,5	27
A402400-12	1.3/16" - 12	29,0	32
A402400-16	1.7/16" - 12	31,5	38
A402400-20	1.11/16" - 12	31,5	46
A402400-24	2" - 12	31,5	55



A412400

ORFS FEMALE PLUG (SAE J1453 / ISO 8434-3)
 TAPÓN HEMBRA ORFS (SAE J1453 / ISO 8434-3)
 ORFS VERSCHLUSSKAPPE MIT IG (SAE J1453 / ISO 8434-3)
 TAPPO FEMMINA ORFS (SAE J1453 / ISO 8434-3)

PART. REF.	THREADS	DIMENSIONS mm	
	T ₁ (UNF/S-UN)	L	H ₂
A412400-04	9/16" - 18	23,0	19
A412400-06	11/16" - 16	28,0	22
A412400-08	13/16" - 16	31,0	24
A412400-10	1" - 14	36,0	30
A412400-12	1.3/16" - 12	39,0	36
A412400-16	1.7/16" - 12	43,0	41
A412400-20	1.11/16" - 12	44,0	50
A412400-24	2" - 12	48,0	60

ORFS ADAPTORS

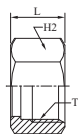
A432400

ORFS METRIC TUBE NUT (SAE J1453 - ISO 8434-3)

TUERCA ORFS (SAE J1453 - ISO 8434-3)

ORFS ROHRMUTTER METRISCH (SAE J1453 - ISO 8434-3)

DADO ORFS PER TUBI METRICI (SAE J1453 - ISO 8434-3)



PART. REF.	O.D. PIPE mm	THREADS	DIMENSIONS mm	
		T ₁ (UNF/S-UN)	L	H ₂
A432400-06-04	6	9/16" - 18	14,5	17
A432400-10-06	10	11/16" - 16	17,0	22
A432400-12-08	12	13/16" - 16	21,0	24
A432400-16-10	16	1" - 14	23,5	30
A432400-20-12	20	1.3/16" - 12	26,0	36
A432400-25-16	25	1.7/16" - 12	27,0	41
A432400-30-20	30	1.11/16" - 12	28,0	50,
A432400-38-24	38	2" - 12	28,0	60

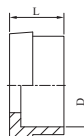
A422400

ORFS METRIC TUBE SLEEVE (SAE J1453 - ISO 8434-3)

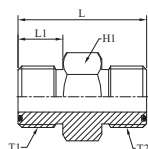
FÉRULA ORFS (SAE J1453 - ISO 8434-3)

ORFS SCHNEIDRING METRISCH (SAE J1453 - ISO 8434-3)

BUSSOLA ORFS PER TUBI METRICI (SAE J1453 - ISO 8434-3)



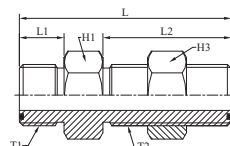
PART. REF.	O.D. PIPE mm	THREADS	DIMENSIONS mm	
	D	T ₁ (UNF/S-UN)	L	
A422400-06-04	6	9/16" - 18	9,5	
A422400-10-06	10	11/16" - 16	9,5	
A422400-12-08	12	13/16" - 16	9,5	
A422400-16-10	16	1" - 14	10,5	
A422400-20-12	20	1.3/16" - 12	14,0	
A422400-25-16	25	1.7/16" - 12	15,5	
A422400-30-20	30	1.11/16" - 12	15,5	
A422400-38-24	38	2" - 12	15,5	



A502424

UNION ORFS MALE (SAE J1453 / ISO 8434-3)
 UNIÓN MACHO ORFS (SAE J1453 / ISO 8434-3)
 ORFS VERBINDER AG (SAE J1453 / ISO 8434-3)
 GIUNZIONE MASCHIO ORFS (SAE J1453 / ISO 8434-3)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (UNF/S-UN)	L	L ₁	H ₁	
A502424-04-04	9/16" - 18	9/16" - 18	27,5	10,0	16	
A502424-06-06	11/16" - 16	11/16" - 16	31,0	11,0	19	
A502424-08-08	13/16" - 16	13/16" - 16	35,5	13,0	22	
A502424-10-10	1" - 14	1" - 14	42,5	15,5	27	
A502424-12-12	1.3/16" - 12	1.3/16" - 12	47,0	17,0	32	
A502424-16-16	1.7/16" - 12	1.7/16" - 12	49,5	17,5	38	
A502424-20-20	1.11/16" - 12	1.11/16" - 12	51,5	17,5	46	
A502424-24-24	2" - 12	2" - 12	53,0	17,5	55	



A502427

BULKHEAD UNION ORFS MALE (SAE J1453 / ISO 8434-3)
 PASATABIQUE MACHO ORFS (SAE J1453 / ISO 8434-3)
 ORFS VERBINDER AG FÜR SCHOTTWAND (SAE J1453 / ISO 8434-3)
 GIUNZIONE PASSAPARETE MASCHIO ORFS (SAE J1453 / ISO 8434-3)

PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (UNF/S-UN)	T ₂ (UNF/S-UN)	L	L ₁	L ₂	H ₁	H ₃
A502427-04-04	9/16" - 18	9/16" - 18	48,5	10,0	31,5	22	22
A502427-06-06	11/16" - 16	11/16" - 16	54,0	11,0	34,0	27	27
A502427-08-08	13/16" - 16	13/16" - 16	58,5	13,0	36,5	30	30
A502427-10-10	1" - 14	1" - 14	66,5	15,5	40,5	32	32
A502427-12-12	1.3/16" - 12	1.3/16" - 12	69,0	17,0	41,5	38	38
A502427-16-16	1.7/16" - 12	1.7/16" - 12	70,0	17,5	42,0	46	46
A502427-20-20	1.11/16" - 12	1.11/16" - 12	70,0	17,5	42,0	50	50
A502427-24-24	2" - 12	2" - 12	70,0	17,5	42,0	60	60

ORFS ADAPTORS

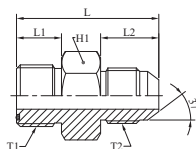
A502425

ORFS MALE (SAE J1453 / ISO 8434-3) - JIC MALE 37° CONE (SAE J514 / ISO 8434-2)

MACHO ORFS (SAE J1453 / ISO 8434-3) - MACHO JIC CONO 37° (SAE J514 / ISO 8434-2)

ORFS AG (SAE J1453 / ISO 8434-3) - JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2)

MASCHIO ORFS (SAE J1453 / ISO 8434-3) - MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (UNF)	L	L ₁	L ₂	H ₁
A502425-04-04	9/16" - 18	7/16" - 20	32,5	10,0	14,0	17
A502425-06-06	11/16" - 16	9/16" - 18	35,5	11,0	14,0	19
A502425-08-08	13/16" - 16	3/4" - 16	40,5	13,0	16,7	22
A502425-10-10	1" - 14	7/8" - 14	47,0	15,5	19,3	27
A502425-12-12	1.3/16" - 12	1.1/16" - 12	52,5	17,0	21,9	32
A502425-16-16	1.7/16" - 12	1.5/16" - 12	56,0	17,5	23,1	41
A502425-20-20	1.11/16" - 12	1.5/8" - 12	60,0	17,5	24,3	46

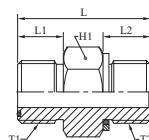
A502403

ORFS MALE (SAE J1453 / ISO 8434-3) - BSP MALE O-RING BOSS TYPE (ISO 1179-3)

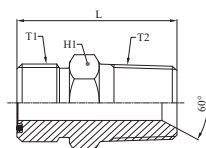
MACHO ORFS (SAE J1453 / ISO 8434-3) - MACHO BSP TIPO O-RING BOSS (ISO 1179-3)

ORFS AG (SAE J1453 / ISO 8434-3) - BSP AG O-RINGNUT AUSFÜHRUNG (ISO 1179-3)

MASCHIO ORFS (SAE J1453 / ISO 8434-3) - MASCHIO BSP TENUTA O-RING (ISO 1179-3)



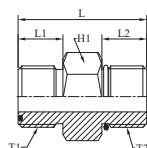
PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (BSPP)	L	L ₁	L ₂	H ₁
A502403-04-04	9/16" - 18	1/4" - 19	30,0	10,0	11,2	19
A502403-04-06	9/16" - 18	3/8" - 19	31,0	10,0	11,2	22
A502403-06-04	11/16" - 16	1/4" - 19	32,5	11,0	11,2	19
A502403-06-06	11/16" - 16	3/8" - 19	32,5	11,0	11,2	22
A502403-06-08	11/16" - 16	1/2" - 14	35,5	11,0	14,5	27
A502403-08-06	13/16" - 16	3/8" - 19	34,5	13,0	11,2	22
A502403-08-08	13/16" - 16	1/2" - 14	37,0	13,0	14,5	27
A502403-08-12	13/16" - 16	3/4" - 14	41,0	13,0	14,5	32
A502403-10-08	1" - 14	1/2" - 14	39,5	15,5	14,5	27
A502403-10-12	1" - 14	3/4" - 14	43,5	15,5	14,5	32
A502403-12-12	1.3/16" - 12	3/4" - 14	45,0	17,0	14,5	32
A502403-12-16	1.3/16" - 12	1" - 11	49,0	17,0	18,6	41
A502403-16-16	1.7/16" - 12	1" - 11	50,0	17,5	18,6	41
A502403-16-20	1.7/16" - 12	1.1/4" - 11	54,0	17,5	18,6	50



A502428

ORFS MALE (SAE J1453 / ISO 8434-3) - NPTF MALE 60° CONE SEAT (SAE J514)
 MACHO ORFS (SAE J1453 / ISO 8434-3) - MACHO NPTF CONO 60° (SAE J514)
 ORFS AG (SAE J1453 / ISO 8434-3) - NPTF AG 60° KONISCHES ENDE (SAE J514)
 MASCHIO ORFS (SAE J1453 / ISO 8434-3) - MASCHIO NPTF CONO 60° (SAE J514)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (NPTF)	L	H ₁		
A502428-04-04	9/16"-18	1/4"-18	32,0	16		
A502428-04-06	9/16"-18	3/8"-18	32,0	19		
A502428-06-04	11/16"-16	1/4"-18	34,0	19		
A502428-06-06	11/16"-16	3/8"-18	34,0	19		
A502428-06-08	11/16"-16	1/2"-14	39,4	24		
A502428-08-06	13/16"-16	3/8"-18	36,8	22		
A502428-08-08	13/16"-16	1/2"-14	41,7	22		
A502428-10-08	1"-14	1/2"-14	46,2	27		
A502428-12-12	1.3/16"-12	3/4"-14	49,3	32		
A502428-16-16	1.7/16"-12	1"-11,5	55,6	38		
A502428-20-20	1.11/16"-12	1.1/4"-11,5	58,4	46		



A502430

ORFS MALE (SAE J1453 / ISO 8434-3) - SAE MALE O-RING BOSS TYPE (ISO 11926)
 MACHO ORFS (SAE J1453 / ISO 8434-3) - MACHO SAE TIPO O-RING BOSS (ISO 11926)
 ORFS AG (SAE J1453 / ISO 8434-3) - SAE AG O-RINGNUT AUSFÜHRUNG (ISO 11926)
 MASCHIO ORFS (SAE J1453 / ISO 8434-3) - MASCHIO SAE TENUTA O-RING (ISO 11926)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (UNF)	L	L ₁	L ₂	H ₁
A502430-04-04	9/16" - 18	7/16" - 20	28,5	10,0	9,5	16
A502430-06-06	11/16" - 16	3/4" - 16	32,0	11,0	10,0	19
A502430-06-08	11/16" - 16	3/4" - 16	34,5	11,0	11,5	22
A502430-08-08	13/16" - 16	3/4" - 16	36,5	13,0	11,5	22
A502430-10-10	1" - 14	7/8" - 14	43,0	15,5	13,0	27
A502430-12-12	1.3/16" - 12	1.1/16" - 12	48,5	17,0	15,5	32
A502430-16-16	1.7/16" - 12	1.5/16" - 12	50,5	17,5	15,5	38
A502430-20-20	1.11/16" - 12	1.5/8" - 12	52,5	17,5	15,5	50
A502430-24-24	2" - 12	1.7/8" - 12	54,0	17,5	15,5	55

ORFS ADAPTORS

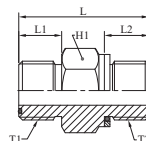
A502419

ORFS MALE (SAE J1453 / ISO 8434-3) - METRIC MALE WITH O-RING AND RETAINING RING (ISO 6149)

MACHO ORFS (SAE J1453 / ISO 8434-3) - MACHO METRICO CON O-RING Y WASHER (ISO 6149)

ORFS AG (SAE J1453 / ISO 8434-3) - METRISCHES AG MIT O-RING UND SICHERUNGSRING (ISO 6149)

MASCHIO ORFS (SAE J1453 / ISO 8434-3) - MASCHIO METRICO CON O-RING E RONDELLA (ISO 6149)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (METRIC)	L	L ₁	L ₂	H ₁
A502419-04-10	9/16" - 18	10 x 1	26,0	10,0	9,5	17
A502419-04-12	9/16" - 18	12 x 1,5	28,0	10,0	11,0	17
A502419-06-14	11/16" - 16	14 x 1,5	31,0	11,0	11,0	19
A502419-06-16	11/16" - 16	16 x 1,5	33,0	11,0	12,5	22
A502419-08-18	13/16" - 16	18 x 1,5	36,0	13,0	14,0	24
A502419-08-22	13/16" - 16	22 x 1,5	38,0	13,0	15,0	27
A502419-10-22	1" - 14	22 x 1,5	40,5	15,5	15,0	27
A502419-10-27	1" - 14	27 x 2	46,0	15,5	18,5	32
A502419-12-27	1.3/16" - 12	27 x 2	47,5	17,0	18,5	32
A502419-12-33	1.3/16" - 12	33 x 2	49,0	17,0	18,5	41
A502419-16-33	1.7/16" - 12	33 x 2	50,0	17,5	18,5	41
A502419-16-42	1.7/16" - 12	42 x 2	52,0	17,5	19,0	50
A502419-20-42	1.11/16" - 12	42 x 2	52,0	17,5	19,0	50
A502419-20-48	1.11/16" - 12	48 x 2	56,0	17,5	21,5	55

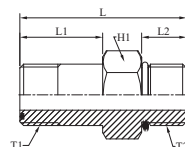
A502930

ORFS MALE LONG (SAE J1453) - SAE MALE O-RING BOSS TYPE (ISO 11926)

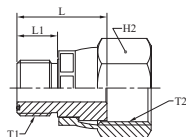
MACHO LARGO ORFS (SAE J1453) - MACHO SAE TIPO O-RING BOSS (ISO 11926)

ORFS LANGES AG (SAE J1453) - SAE AG O-RING NUT AUSFÜHRUNG (ISO 11926)

PROLUNGA MASCHIO ORFS (SAE J1453) - MASCHIO SAE TENUTA O-RING (ISO 11926)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (UNF)	L	L ₁	L ₂	H ₁
A502930-04-04	9/16" - 18	7/16" - 20	52,5	34,0	9,5	16
A502930-06-06	11/16" - 16	9/16" - 18	57,5	37,0	10,0	19
A502930-08-08	13/16" - 16	3/4" - 16	68,0	44,5	11,5	22
A502930-10-10	1" - 14	7/8" - 14	79,0	52,5	13,0	27
A502930-12-12	1.3/16" - 12	1.1/16" - 12	95,5	64,0	15,5	32
A502930-16-16	1.7/16" - 12	1.5/16" - 12	105,0	73,0	15,5	38
A502930-20-20	1.11/16" - 12	1.5/8" - 12	121,0	86,5	15,5	46
A502930-24-24	2" - 12	1.7/8" - 12	133,5	97,0	15,5	55

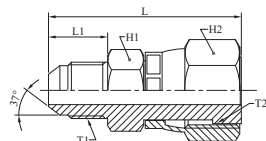


A522424

ORFS MALE - ORFS SWIVEL FEMALE (SAE J1453 / ISO 8434-3)
 MACHO ORFS - HEMBRA GIRATORIA ORFS (SAE J1453 / ISO 8434-3)
 ORFS AG - ORFS DREHBARE MUTTER (SAE J1453 / ISO 8434-3)
 MASCHIO ORFS - FEMMINA ORFS (SAE J1453 / ISO 8434-3)

PART. REF.	THREADS	DIMENSIONS mm				
	T ₁ (UNF/S-UN)	T ₂ (UNF/S-UN)	L	L ₁	H ₂	
A522424-04-06	9/16" - 18	11/16" - 16	20,0	10,0	22	
A522424-04-08	9/16" - 18	13/16" - 16	22,0	10,0	24	
A522424-06-08	11/16" - 16	13/16" - 16	23,0	11,0	24	
A522424-06-10	11/16" - 16	1" - 14	24,0	11,0	30	
A522424-08-10	13/16" - 16	1" - 14	25,5	13,0	30	
A522424-08-12	13/16" - 16	1.3/16" - 12	27,5	13,0	36	
A522424-10-12	1" - 14	1.3/16" - 12	29,5	15,5	36	
A522424-10-16	1" - 14	1.7/16" - 12	32,0	15,5	41	
A522424-12-16	1.3/16" - 12	1.7/16" - 12	33,0	17,0	41	
A522424-12-20	1.3/16" - 12	1.11/16" - 12	33,5	17,0	50	
A522424-16-20	1.7/16" - 12	1.11/16" - 12	34,0	17,5	50	
A522424-20-24	1.11/16" - 12	2" - 12	34,0	17,5	60	

A522524



JIC MALE 37° CONE (SAE J514 / ISO 8434-2)
 ORFS SWIVEL FEMALE (SAE J1453 / ISO 8434-3)
 MACHO JIC 37° (SAE J514 / ISO 8434-2)
 HEMBRA GIRATORIA ORFS (SAE J1453 / ISO 8434-3)
 JIC AG 37° KONISCHES ENDE (SAE J514 / ISO 8434-2)
 ORFS DREHBARE MUTTER (SAE J1453 / ISO 8434-3)
 MASCHIO JIC CONO 37° (SAE J514 / ISO 8434-2)
 FEMMINA ORFS (SAE J1453 / ISO 8434-3)

PART. REF.	THREADS	DIMENSIONS mm				
	T ₁ (UNF)	T ₂ (UNF/S-UN)	L	L ₁	H ₁	H ₂
A522524-04-04	7/16" - 20	9/16" - 18	39,0	15,0	17	19
A522524-06-06	9/16" - 18	11/16" - 16	43,0	16,0	22	22
A522524-08-08	3/4" - 16	13/16" - 16	48,5	18,0	24	24
A522524-10-10	7/8" - 14	1" - 14	57,0	21,0	30	30
A522524-12-12	1.1/16" - 12	1.3/16" - 12	63,0	24,0	36	36
A522524-16-16	1.5/16" - 12	1.7/16" - 12	67,0	25,0	41	41
A522524-20-20	1.5/8" - 12	1.11/16" - 12	73,0	28,0	50	50

ORFS ADAPTORS

A520524

BSP MALE 60° CONE SEAT DIN PROFILE (B55200 / ISO 8434-6)

ORFS SWIVEL FEMALE (SAE J1453 / ISO 8434-3)

MACHO BSP CONO 60° PERFIL DIN (B55200 / ISO 8434-6)

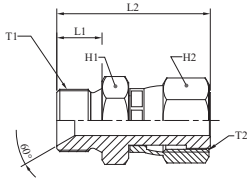
HEMBRA GIRATORIA ORFS (SAE J1453 / ISO 8434-3)

BSP AG 60° KONISCHES ENDE (B55200 / ISO 8434-6)

ORFS DREHBARE MUTTER (SAE J1453 / ISO 8434-3)

MASCHIO BSP CONO 60° PROFILO DIN (B55200 / ISO 8434-6)

FEMMINA ORFS (SAE J1453 / ISO 8434-3)



PART. REF.	THREADS		DIMENSIONS			
			mm			
	T ₁ (BSP)	T ₂ (UNF/S-UN)	L ₁	L ₂	H ₁	H ₂
A520524-04-04	1/4" - 19	9/16" - 18	11,0	34,5	19	17
A520524-06-06	3/8" - 19	11/16" - 16	12,0	39,0	22	22
A520524-06-08	3/8" - 19	13/16" - 16	12,0	42,5	22	24
A520524-08-06	1/2" - 14	11/16" - 16	14,0	41,5	27	22
A520524-08-08	1/2" - 14	13/16" - 16	14,0	44,5	27	24
A520524-08-10	1/2" - 14	1" - 14	14,0	50,5	27	30
A520524-12-12	3/4" - 14	1.3/16" - 12	16,0	56,5	32	36
A520524-16-16	1" - 11	1.7/16" - 12	19,0	62,0	41	41

A523024

SAE MALE O-RING BOSS TYPE (ISO 11926) - ORFS SWIVEL FEMALE (SAE J1453 / ISO 8434-3)

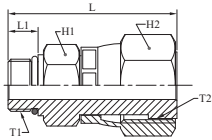
MACHO SAE TIPO O-RING BOSS (ISO 11926)

HEMBRA GIRATORIA ORFS (SAE J1453 / ISO 8434-3)

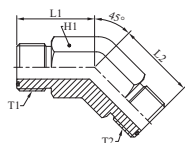
SAE AG O-RINGNUT AUSFÜHRUNG (ISO 11926)

ORFS DREHBARE MUTTER (SAE J1453 / ISO 8434-3)

MASCHIO SAE TENUTA O-RING (ISO 11926) - FEMMINA ORFS (SAE J1453 / ISO 8434-3)



PART. REF.	THREADS		DIMENSIONS			
			mm			
	T ₁ (UNF)	T ₂ (UNF/S-UN)	L	L ₁	H ₁	H ₂
A523024-04-04	7/16" - 20	9/16" - 18	33,0	9,5	17	19
A523024-06-06	9/16" - 18	11/16" - 16	36,0	10,0	19	22
A523024-06-08	3/4" - 16	13/16" - 16	41,0	11,5	22	24
A523024-10-10	7/8" - 14	1" - 14	47,5	13,0	27	30
A523024-12-12	1.1/16" - 12	1.3/16" - 12	54,0	15,5	32	36
A523024-16-16	1.5/16" - 12	1.7/16" - 12	56,0	15,5	41	41
A523024-20-20	1.5/8" - 12	1.11/16" - 12	60,0	15,5	46	50



A532424

UNION 45° ELBOW ORFS MALE (SAE J1453 / ISO 8434-3)

CODO 45° MACHO ORFS (SAE J1453 / ISO 8434-3)

45° WINKELVERBINDER ORFS AG (SAE J1453 / ISO 8434-3)

GIUNZIONE 45° MASCHIO ORFS (SAE J1453 / ISO 8434-3)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (UNF/S-UN)	L ₁	L ₂	H ₁	
A532424-04-04	9/16" - 18	9/16" - 18	16,0	16,0	14	
A532424-06-06	11/16" - 16	11/16" - 16	20,0	20,0	19	
A532424-08-08	13/16" - 16	13/16" - 16	22,0	22,0	19	
A532424-10-10	1" - 14	1" - 14	26,0	26,0	27	
A532424-12-12	1.3/16" - 12	1.3/16" - 12	31,0	31,0	35	
A532424-16-16	1.7/16" - 12	1.7/16" - 12	34,0	34,0	44	
A532424-20-20	1.11/16" - 12	1.11/16" - 12	34,0	34,0	44	

A532431

45° ADJUSTABLE ELBOW ORFS MALE (SAE J1453 / ISO 8434-3)

SAE MALE O-RING BOSS TYPE (ISO 11926)

CODO ORIENTABLE 45° MACHO ORFS (SAE J1453 / ISO 8434-3)

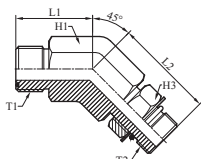
MACHO SAE TIPO O-RING BOSS (ISO 11926)

45° WINKEL EINSTELLBAR ORFS AG (SAE J1453 / ISO 8434-3)

SAE AG O-RINGNUT AUSFÜHRUNG (ISO 11926)

GOMITO 45° ORIENTABILE MASCHIO ORFS (SAE J1453 / ISO 8434-3)

MASCHIO SAE TENUTA O-RING (ISO 11926)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (UNF)	L ₁	L ₂	H ₁	H ₃
A532431-04-04	9/16" - 18	7/16" - 20	16,0	26,5	14	16
A532431-06-06	11/16" - 16	9/16" - 18	19,0	33,0	19	19
A532431-08-08	13/16" - 16	3/4" - 16	20,5	36,5	19	24
A532431-10-10	1" - 14	7/8" - 14	23,5	43,0	27	27
A532431-12-12	1.3/16" - 12	1.1/16" - 12	29,0	46,0	35	32
A532431-16-16	1.7/16" - 12	1.5/16" - 12	30,0	47,0	35	38
A532431-20-20	1.11/16" - 12	1.5/8" - 12	32,0	48,5	44	50

ORFS ADAPTORS

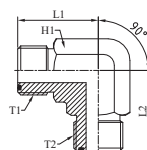
A562424

UNION 90° ELBOW ORFS MALE (SAE J1453 / ISO 8434-3)

CODO 90° MACHO ORFS (SAE J1453 / ISO 8434-3)

90° WINKELVERBINDER ORFS AG (SAE J1453 / ISO 8434-3)

GIUNZIONE 90° MASCHIO ORFS (SAE J1453 / ISO 8434-3)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (UNF/S-UN)	L ₁	L ₂	H ₁	
A562424-04-04	9/16" - 18	9/16" - 18	21,5	21,5	14	
A562424-06-06	11/16" - 16	11/16" - 16	25,0	25,0	19	
A562424-08-08	13/16" - 16	13/16" - 16	28,0	28,0	19	
A562424-10-10	1" - 14	1" - 14	33,5	33,5	27	
A562424-12-12	1.3/16" - 12	1.3/16" - 12	37,5	37,5	30	
A562424-16-16	1.7/16" - 12	1.7/16" - 12	41,5	41,5	36	
A562424-20-20	1.11/16" - 12	1.11/16" - 12	44,5	44,5	41	
A562424-24-24	2" - 12	2" - 12	49,0	49,0	50	

A562409

90° ADJUSTABLE ELBOW ORFS MALE (SAE J1453 / ISO 8434-3)

BSP MALE O-RING BOSS TYPE (ISO 1179-3)

CODO ORIENTABLE 90° MACHO ORFS (SAE J1453 / ISO 8434-3)

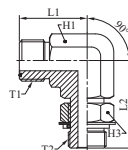
MACHO BSP TIPO O-RING BOSS (ISO 1179-3)

90° WINKELVERBINDER EINSTELLBAR ORFS AG (SAE J1453 / ISO 8434-3)

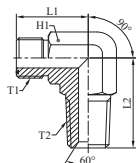
BSP AG O-RINGNUT AUSFÜHRUNG (ISO 1179-3)

GOMITO 90° ORIENTABILE MASCHIO ORFS (SAE J1453 / ISO 8434-3)

MASCHIO BSP TENUTA O-RING (ISO 1179-3)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (BSPP)	L ₁	L ₂	H ₁	H ₃
A562409-04-04	9/16" - 18	1/4" - 19	21,5	32,0	14	19
A562409-04-06	9/16" - 18	3/8" - 19	23,5	36,5	19	22
A562409-06-04	11/16" - 16	1/4" - 19	25,0	32,0	19	19
A562409-06-06	11/16" - 16	3/8" - 19	25,0	36,5	19	22,
A562409-06-08	11/16" - 16	1/2" - 14	27,0	43,0	22	27
A562409-08-06	13/16" - 16	3/8" - 19	28,0	36,5	19	22
A562409-08-08	13/16" - 16	1/2" - 14	28,0	43,0	22	27
A562409-08-12	13/16" - 16	3/4" - 14	33,5	48,0	30	32
A562409-10-08	1" - 14	1/2" - 14	33,5	48,0	27	27
A562409-10-12	1" - 14	3/4" - 14	33,5	48,0	27	32
A562409-12-12	1.3/16" - 12	3/4" - 14	37,5	48,0	30	32
A562409-12-16	1.3/16" - 12	1" - 11	38,0	56,0	33	41
A562409-16-16	1.7/16" - 12	1" - 11	41,5	56,0	36	41
A562409-20-20	1.11/16" - 12	1.1/4" - 11	44,5	58,0	41	50



A562428

90° ELBOW ORFS MALE (SAE J1453 / ISO 8434-3) - NPTF MALE 60° CONE SEAT (SAE J514)
 CODO 90° MACHO ORFS (SAE J1453 / ISO 8434-3) - MACHO NPTF CONO 60° (SAE J514)
 90° WINKEL ORFS AG (SAE J1453 / ISO 8434-3) - NPTF AG 60° KONISCHES ENDE (SAE J514)
 GOMITO 90° MASCHIO ORFS (SAE J1453 / ISO 8434-3) - MASCHIO NPTF CONO 60° (SAE J514)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (NPTF)	L ₁	L ₂	H ₁	
A562428-04-04	9/16"-18	1/4"-18	21,6	28,5	14	
A562428-04-06	9/16"-18	3/8"-18	23,4	31,0	19	
A562428-06-04	11/16"-16	1/4"-18	24,9	27,7	19	
A562428-06-06	11/16"-16	3/8"-18	24,9	31,0	19	
A562428-06-08	11/16"-16	1/2"-14	29,2	37,3	22	
A562428-08-06	13/16"-16	3/8"-18	27,9	31,0	19	
A562428-08-08	13/16"-16	1/2"-14	27,9	37,3	22	
A562428-10-08	1"-14	1/2"-14	33,3	37,3	27	
A562428-10-12	1"-14	3/4"-14	33,3	40,4	27	
A562428-12-12	1.3/16"-12	3/4"-14	37,3	40,4	30	
A562428-16-16	1.7/16"-12	1"-11,5	41,7	50,0	36	
A562428-20-20	1.11/16"-12	1.1/4"-11,5	44,7	60,5	41	

A562431

90° ADJUSTABLE ELBOW ORFS MALE (SAE J1453 / ISO 8434-3)
 SAE MALE O-RING BOSS TYPE (ISO 11926)

CODO ORIENTABLE 90° MACHO ORFS (SAE J1453 / ISO 8434-3)

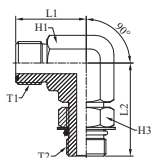
MACHO SAE TIPO O-RING BOSS (ISO 11926)

90° WINKELADAPTER EINSTELLBAR ORFS AG (SAE J1453 / ISO 8434-3)

SAE AG O-RINGNUT AUSFÜHRUNG (ISO 11926)

GOMITO 90° ORIENTABILE MASCHIO ORFS (SAE J1453 / ISO 8434-3)

MASCHIO SAE TENUTA O-RING (ISO 11926)

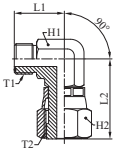


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (UNF)	L ₁	L ₂	H ₁	H ₃
A562431-04-04	9/16" - 18	7/16" - 20	21,5	26,0	14	16
A562431-04-06	9/16" - 18	9/16" - 18	21,5	31,5	14	19
A562431-06-06	11/16" - 16	9/16" - 18	25,0	34,5	19	19
A562431-08-08	13/16" - 16	3/4" - 16	28,0	36,5	19	24
A562431-10-10	1" - 14	7/8" - 14	33,5	45,5	27	27
A562431-12-12	1.3/16" - 12	1.1/16" - 12	37,5	52,0	32	32
A562431-16-16	1.7/16" - 12	1.5/16" - 12	41,5	57,0	36	38
A562431-20-20	1.11/16" - 12	1.5/8" - 12	44,5	57,0	41	50

ORFS ADAPTORS

A582424

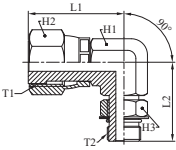
90° ELBOW ORFS MALE - ORFS SWIVEL FEMALE (SAE J1453 / ISO 8434-3)
CODO 90° MACHO ORFS - HEMBRA GIRATORIA ORFS (SAE J1453 / ISO 8434-3)
90° WINKELADAPTER ORFS AG - ORFS IG DREHBAR (SAE J1453 / ISO 8434-3)
GOMITO 90° MASCHIO ORFS - FEMMINA ORFS (SAE J1453 / ISO 8434-3)



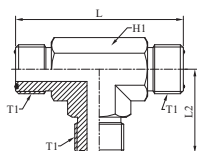
PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (UNF/S-UN)	L ₁	L ₂	H ₁	H ₂
A582424-04-04	9/16" - 18	9/16" - 18	21,5	26,5	14	19
A582424-06-06	11/16" - 16	11/16" - 16	25,0	29,0	19	22
A582424-08-08	13/16" - 16	13/16" - 16	28,0	38,0	19	24
A582424-10-10	1" - 14	1" - 14	33,5	41,0	27	30
A582424-12-12	1.3/16" - 12	1.3/16" - 12	37,5 46,5	30	36	
A582424-16-16	1.7/16" - 12	1.7/16" - 12	41,5	53,5	35	41
A582424-20-20	1.11/16" - 12	1.11/16" - 12	44,5	58,0	41	50

A583124

90° ADJUSTABLE ELBOW ORFS SWIVEL FEMALE (SAE J1453 / ISO 8434-3)
SAE MALE O-RING BOSS TYPE (ISO 11926)
CODO ORIENTABLE 90° HEMBRA GIRATORIA ORFS (SAE J1453 / ISO 8434-3)
MACHO SAE TIPO O-RING BOSS (ISO 11926)
90° WINKELADAPTER EINSTELLBAR ORFS IG DREHBAR (SAE J1453 / ISO 8434-3)
SAE AG O-RINGNUT AUSFÜHRUNG (ISO 11926)
GOMITO 90° ORIENTABILE FEMMINA ORFS (SAE J1453 / ISO 8434-3)
MASCHIO SAE TENUTA O-RING (ISO 11926)



PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (UNF/S-UN)	T ₂ (UNF)	L ₁	L ₂	H ₁	H ₂	H ₃
A583124-04-04	9/16" - 18	7/16" - 20	26,5	30,0	14	19	16
A583124-06-06	11/16" - 16	9/16" - 18	29,0	37,0	19	22	19
A583124-08-08	13/16" - 16	3/4" - 16	34,0	40,5	19	24	24
A583124-10-10	1" - 14	7/8" - 14	41,0	47,0	27	30	27
A583124-12-12	1.3/16" - 12	1.1/16" - 12	46,5	52,0	32	36	32
A583124-16-16	1.7/16" - 12	1.5/16" - 12	51,0	57,0	36	41	38
A583124-20-20	1.11/16" - 12	1.5/8" - 12	58,0	62,0	41	50	50



A702424

UNION TEE ORFS MALE (SAE J1453 / ISO 8434-3)

TE MACHO ORFS (SAE J1453 / ISO 8434-3)

T-VERBINDER ORFS AG (SAE J1453 / ISO 8434-3)

GIUNZIONE A "T" MASCHIO ORFS (SAE J1453 / ISO 8434-3)

PART. REF.	THREADS	DIMENSIONS mm			
	T ₁ (UNF/S-UN)	L	L ₂	H ₁	
A702424-04-04	9/16" - 18	43,0	21,5	14	
A702424-06-06	11/16" - 16	50,0	25,0	19	
A702424-08-08	13/16" - 16	56,0	28,0	19	
A702424-10-10	1" - 14	66,5	33,5	27	
A702424-12-12	1.3/16" - 12	75,0	37,5	32	
A702424-16-16	1.7/16" - 12	83,5	41,5	36	
A702424-20-20	1.11/16" - 12	89,5	44,5	41	
A702424-24-24	2" - 12	97,5	48,5	50	

A782431

ADJUSTABLE BRANCH TEE ORFS MALE (SAE J1453 / ISO 8434-3)

SAE MALE O-RING BOSS TYPE (ISO 11926)

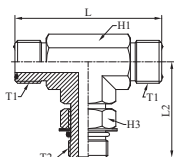
TE ORIENTABLE CENTRAL MACHO ORFS (SAE J1453 / ISO 8434-3)

MACHO SAE TIPO O-RING (ISO 11926)

T-ADAPTER ORFS AG (SAE J1453 / ISO 8434-3) - SAE AG O-RINGNUT AUSFÜHRUNG (ISO 11926)

"T" CENTRALE ORIENTABILE MASCHIO ORFS (SAE J1453 / ISO 8434-3)

MASCHIO SAE TENUTA O-RING (ISO 11926)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (UNF)	L	L ₂	H ₁	H ₃
A782431-04-04	9/16" - 18	7/16" - 20	43,0	26,0	14	16
A782431-06-06	11/16" - 16	9/16" - 18	50,0	34,5	19	19
A782431-08-08	13/16" - 16	3/4" - 16	56,0	36,5	19	24
A782431-10-10	1" - 14	7/8" - 14	66,5	45,5	27	27
A782431-12-12	1.3/16" - 12	1.1/16" - 12	75,0	52,0	27	32
A782431-16-16	1.7/16" - 12	1.5/16" - 12	83,5	57,0	36	38
A782431-20-20	1.11/16" - 12	1.5/8" - 12	89,5	61,0	41	50

ORFS ADAPTORS

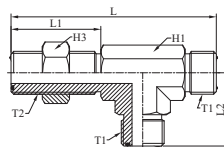
A762427

BULKHEAD RUN TEE ORFS MALE (SAE J1453 / ISO 8434-3)

TE PASATABIQUE LATERAL MACHO ORFS (SAE J1453 / ISO 8434-3)

T-VERBINDER ORFS AG FÜR SCHOTTWAND (SAE J1453 / ISO 8434-3)

GIUNZIONE A "T" LATERALE PASSAPARETE MASCHIO ORFS (SAE J1453 / ISO 8434-3)



PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (UNF/S-UN)	T ₂ (UNF/S-UN)	L	L ₁	L ₂	H ₁	H ₃
A762427-04-04	9/16" - 18	9/16" - 18	69,0	47,0	22,5	14	22
A762427-06-06	11/16" - 16	11/16" - 16	78,0	52,0	26,0	19	27
A762427-08-08	13/16" - 16	13/16" - 16	84,5	55,5	29,0	19	30
A762427-10-10	1" - 14	1" - 14	97,5	63,0	34,5	27	35
A762427-12-12	1.3/16" - 12	1.3/16" - 12	110,0	67,5	38,5	30	38
A762427-16-16	1.7/16" - 12	1.7/16" - 12	113,5	71,0	42,5	36	46
A762427-20-20	1.11/16" - 12	1.11/16" - 12	120,5	75,5	45,5	41	50

A762431

ADJUSTABLE RUN TEE ORFS MALE (SAE J1453 / ISO 8434-3)

SAE MALE O-RING BOSS TYPE (ISO 11926)

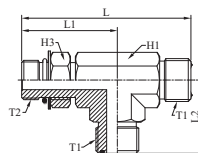
TE ORIENTABLE LATERAL MACHO ORFS (SAE J1453 / ISO 8434-3)

MACHO SAE TIPO O-RING BOSS (ISO 11926)

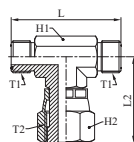
T-ADAPTER ORFS AG (SAE J1453 / ISO 8434-3) - SAE AG O-RINGNUT (ISO 11926)

"T" LATERALE ORIENTABILE MASCHIO ORFS (SAE J1453 / ISO 8434-3)

MASCHIO SAE TENUTA O-RING (ISO 11926)



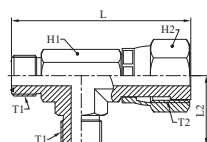
PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (UNF/S-UN)	T ₂ (UNF)	L	L ₁	L ₂	H ₁	H ₃
A762431-04-04	9/16" - 18	7/16" - 20	48,0	26,5	21,5	14	16
A762431-06-06	11/16" - 16	9/16" - 18	59,5	34,5	25,0	19	19
A762431-08-08	13/16" - 16	3/4" - 16	64,5	36,5	28,0	19	24
A762431-10-10	1" - 14	7/8" - 14	79,0	45,5	33,5	27	27
A762431-12-12	1.3/16" - 12	1.1/16" - 12	89,5	52,0	37,5	27	32
A762431-16-16	1.7/16" - 12	1.5/16" - 12	98,5	57,0	41,5	36	38
A762431-20-20	1.11/16" - 12	1.5/8" - 12	105,5	61,0	44,5	41	50



A712424

BRANCH TEE ORFS MALE - ORFS SWIVEL FEMALE (SAE J1453 / ISO 8434-3)
 TE CENTRAL MACHO ORFS - HEMBRA GIRATORIA ORFS (SAE J1453 / ISO 8434-3)
 T-ADAPTER ORFS AG - ORFS IG DREHBAR (SAE J1453 / ISO 8434-3)
 "T" CENTRALE MASCHIO ORFS - FEMMINA ORFS (SAE J1453 / ISO 8434-3)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (UNF/S-UN)	L	L ₂	H ₁	H ₂
A712424-04-04	9/16" -18	9/16" -18	43,0	26,5	14	19
A712424-06-06	11/16" -16	11/16" -16	50,0	29,0	19	22
A712424-08-08	13/16" -16	13/16" -16	56,0	38,0	19	24
A712424-10-10	1" -14	1" -14	67,0	41,0	27	30
A712424-12-12	1.3/16" -12	1.3/16" -12	75,0	46,5	27	36
A712424-16-16	1.7/16" -12	1.7/16" -12	83,0	53,5	36	41
A712424-20-20	1.11/16" -12	1.11/16" -12	89,0	58,0	41	50



A722424

RUN TEE ORFS MALE - ORFS SWIVEL FEMALE (SAE J1453 / ISO 8434-3)
 TE LATERAL MACHO ORFS - HEMBRA GIRATORIA ORFS (SAE J1453 / ISO 8434-3)
 T-ADAPTER ORFS AG - ORFS IG DREHBAR (SAE J1453 / ISO 8434-3)
 "T" LATERALE MASCHIO ORFS - FEMMINA ORFS (SAE J1453 / ISO 8434-3)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (UNF/S-UN)	L	L ₂	H ₁	H ₂
A722424-04-04	9/16" - 18	9/16" - 18	48,0	21,5	14	19
A722424-06-06	11/16" - 16	11/16" - 16	54,0	25,0	19	22
A722424-08-08	13/16" - 16	13/16" - 16	66,0	28,0	19	24
A722424-10-10	1" - 14	1" - 14	74,5	33,5	27	30
A722424-12-12	1.3/16" - 12	1.3/16" - 12	84,0	37,5	27	36
A722424-16-16	1.7/16" - 12	1.7/16" - 12	95,0	41,5	36	41
A722424-20-20	1.11/16" - 12	1.11/16" - 12	102,5	44,5	41	50

NPTF - NPSM ADAPTORS

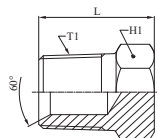
A402800

NPTF MALE PLUG 60° CONE SEAT (SAE J514)

TAPON MACHO NPTF CONO 60° (SAE J514)

NPTF VERSCHLUSSSCHRAUBE 60° KONISCHER DICHTSITZ (SAE J514)

TAPPO MASCHIO NPTF CONO 60° (SAE J514)



PART. REF.	THREADS	DIMENSIONS mm			
	T ₁ (NPTF)	L	H ₁		
A402800-02	1/8"-27	15,2	11		
A402800-04	1/4"-18	21,6	16		
A402800-06	3/8"-18	21,6	19		
A402800-08	1/2"-14	27,9	22		
A402800-12	3/4"-14	29,7	27		
A402800-16	1"-11,5	34,5	33		
A402800-20	1.1/4"-11,5	37,3	44		
A402800-24	1.1/2"-11,5	39,9	50		

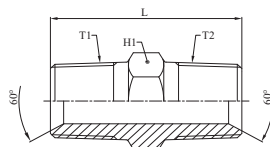
A502828

UNION NPTF MALE 60° CONE SEAT (SAE J514)

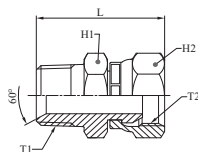
UNIÓN NPTF MACHO CONO 60° (SAE J514)

NPTF VERBINDER AG 60° KONISCHES ENDE (SAE J514)

GIUNZIONE MASCHIO NPTF CONO 60° (SAE J514)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (NPTF)	T ₂ (NPTF)	L	H ₁		
A502828-02-02	1/8"-27	1/8"-27	26,9	11		
A502828-02-04	1/8"-27	1/4"-18	32,0	16		
A502828-04-04	1/4"-18	1/4"-18	36,8	16		
A502828-04-06	1/4"-18	3/8"-18	36,8	19		
A502828-06-06	3/8"-18	3/8"-18	36,8	19		
A502828-06-08	3/8"-18	1/2"-14	43,2	22		
A502828-08-08	1/2"-14	1/2"-14	48,0	22		
A502828-08-12	1/2"-14	3/4"-14	49,8	27		
A502828-12-12	3/4"-14	3/4"-14	49,8	27		
A502828-12-16	3/4"-14	1"-11,5	54,5	35		
A502828-16-16	1"-11.1/2	1"-11,5	59,4	35		
A502828-20-20	1.1/4"-11.1/2	1.1/4"-11,5	63,0	44		
A502828-24-24	1.1/2"-11.1/2	1.1/2"-11,5	66,3	50		



A522828

NPTF MALE 60° CONE SEAT - NPSM SWIVEL FEMALE 60° CONE (SAE J514)

MACHO NPTF CONO 60° - HEMBRA GIRATORIA NPSM CONO 60° (SAE J514)

NPTF AG 60° KONISCHES ENDE - NPSM IG DREHBAR 60° KONISCHER DICHTSITZ (SAE J514)

MASCHIO NPTF CONO 60° - FEMMINA NPSM CONO 60° (SAE J514)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (NPTF)	T ₂ (NPSM)	L	H ₁	H ₂	
A522828-02-04	1/8"-27	1/4"-18	31,5	17	19	
A522828-04-04	1/4"-18	1/4"-18	36,0	17	19	
A522828-04-06	1/4"-18	3/8"-18	38,6	19	22	
A522828-06-04	3/8"-18	1/4"-18	37,9	19	19	
A522828-06-06	3/8"-18	3/8"-18	38,6	22	22	
A522828-08-06	1/2"-14	3/8"-18	45,0	22	22	
A522828-08-08	1/2"-14	1/2"-14	48,0	27	27	
A522828-08-12	1/2"-14	3/4"-14	53,1	32	32	
A522828-12-08	3/4"-14	1/2"-14	49,0	27	27	
A522828-12-12	3/4"-14	3/4"-14	53,3	32	32	
A522828-12-16	3/4"-14	1"-11,5	54,9	38	38	
A522828-16-12	1"-11,5	3/4"-14	58,2	38	32	
A522828-16-16	1"-11,5	1"-11,5	59,7	38	38	
A522828-20-20	1.1/4"-11,5	1.1/4"-11,5	64,0	44	50	
A522828-24-24	1.1/2"-11,5	1.1/2"-11,5	68,3	54	54	

NPTF - NPSM ADAPTORS

A522834

INCREASE ADAPTOR / REDUCER BUSHING NPTF MALE
NPTF FIXED FEMALE (SAE J514)

ADAPTADOR PROLONGADOR / REDUCTOR MACHO NPTF CONO 60°

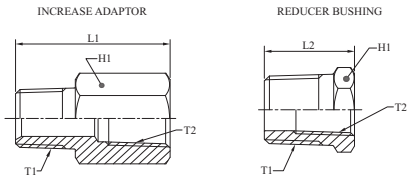
HEMBA FIK NPTF (SAE J514)

GEWINDEVERGRÖßERUNG / GEWINDEREDUZIERUNG

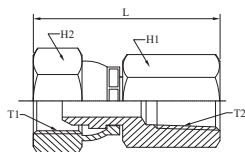
NPTF AG-NPTF IG (SAE J514)

ESPANSORE / RIDUZIONE MASCHIO NPTF CONO 60°

FEMMINA FISSA NPTF (SAE J514)



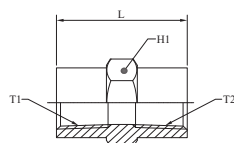
PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (NPTF)	T ₂ (NPTF)	L ₁	L ₂	H ₁	
A522834-02-04	1/8"-27	1/4"-18	30,7	-	19	
A522834-04-02	1/4"-18	1/8"-27	-	21,6	16	
A522834-04-06	1/4"-18	3/8"-18	36,6	-	22	
A522834-06-04	3/8"-18	1/4"-18	-	21,6	19	
A522834-06-08	3/8"-18	1/2"-14	42,7	-	27	
A522834-08-04	1/2"-14	1/4"-18	-	27,9	22	
A522834-08-06	1/2"-14	3/8"-18	-	27,9	22	
A522834-08-12	1/2"-14	3/4"-14	49,0	-	35	
A522834-12-06	3/4"-14	3/8"-18	-	29,7	27	
A522834-12-08	3/4"-14	1/2"-14	-	29,7	27	
A522834-12-16	3/4"-14	1"-11,5	55,4	-	41	
A522834-16-12	1"-11,5	3/4"-14	-	34,5	35	
A522834-16-20	1"-11,5	1.1/4"-11,5	62,5	-	50	
A522834-20-16	1.1/4"-11,5	1"-11,5	-	37,3	44	
A522834-20-24	1.1/4"-11,5	1.1/2"-11,5	63,5	-	60	
A522834-24-20	1.1/2"-11,5	1.1/4"-11,5	-	39,9	50	



A512834

NPSM SWIVEL FEMALE 60° CONE - NPTF FIXED FEMALE (SAE J514)
 HEMBRA GIRATORIA NPSM CONO 60° - HEMBRA FIJA NPTF (SAE J514)
 NPSM IG 60° KONISCHER DICHTSITZ, DREHBAR - NPTF IG (SAE J514)
 FEMMINA NPSM CONO 60° - FEMMINA FISSA NPTF (SAE J514)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (NPSM)	T ₂ (NPTF)	L	H ₁	H ₂	
A512834-04-04	1/4"-18	1/4"-18	36,0	19	19	
A512834-04-06	1/4"-18	3/8"-18	37,6	22	19	
A512834-06-06	3/8"-18	3/8"-18	38,1	22	22	
A512834-06-08	3/8"-18	1/2"-14	43,7	27	22	
A512834-08-08	1/2"-14	1/2"-14	46,7	27	27	
A512834-12-12	3/4"-14	3/4"-14	50,0	32	32	
A512834-16-16	1"-11,5	1"-11,5	59,7	38	38	
A512834-20-20	1.1/4"-11,5	1.1/4"-11,5	61,0	50	50	
A512834-24-24	1.1/2"-11,5	1.1/2"-11,5	64,0	54	54	



A513434

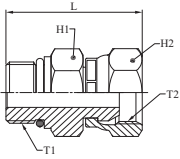
UNION NPTF FIXED FEMALE (SAE J514)
 UNION HEMBRA FIJA NPTF (SAE J514)
 NPTF VERBINDER IG (SAE J514)
 GIUNZIONE FEMMINA FISSA NPTF (SAE J514)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (NPTF)	L	H ₁		
A513434-02-02	1/8"-27	1/8"-27	19,0	16		
A513434-04-04	1/4"-18	1/4"-18	28,7	19		
A513434-06-06	3/8"-18	3/8"-18	28,7	22		
A513434-08-08	1/2"-14	1/2"-14	38,1	27		
A513434-12-12	3/4"-14	3/4"-14	38,9	35		
A513434-16-16	1"-11,5	1"-11,5	48,0	41		
A513434-20-20	1.1/4"-11,5	1.1/4"-11,5	49,0	50		
A513434-24-24	1.1/2"-11,5	1.1/2"-11,5	49,0	60		

NPTF - NPSM ADAPTORS

A523028

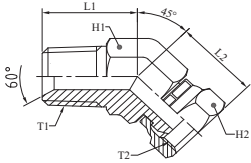
SAE MALE O-RING BOSS TYPE (ISO 11926) - NPSM SWIVEL FEMALE 60° CONE (SAE J514)
MACHO SAE TIPO O-RING BOSS (ISO 11926) - HEMBRA GIRTORIA CONO 60° (SAE J514)
SAE AG O-RINGNUT AUSFÜHRUNG (ISO 11926)
NPSM IG 60° KONISCHER DICHTSITZ DREHBAR (SAE J514)
MASCHIO SAE TENUTA O-RING (ISO 11926) - FEMMINA NPSM CONO 60° (SAE J514)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (NPSM)	L	H ₁	H ₂	
A523028-04-04	7/16"-20	1/4"-18	33,0	14	19	
A523028-05-04	1/2"-20	1/4"-18	32,5	16	19	
A523028-06-04	9/16"-18	1/4"-18	33,8	19	19	
A523028-06-06	9/16"-18	3/8"-18	35,3	19	22	
A523028-08-06	3/4"-16	3/8"-18	36,8	22	22	
A523028-08-08	3/4"-16	1/2"-14	40,1	22	27	
A523028-08-12	3/4"-16	3/4"-14	44,7	27	32	
A523028-10-08	7/8"-14	1/2"-14	42,7	27	27	
A523028-10-12	7/8"-14	3/4"-14	46,5	27	32	
A523028-12-12	1.1/16"-12	3/4"-14	49,5	32	32	
A523028-16-16	1.5/16"-12	1"-11,5	52,3	38	38	

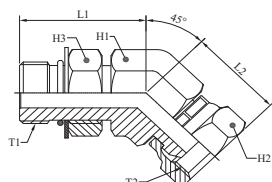
A552828

45° ELBOW NPTF MALE 60° CONE SEAT - NPSM SWIVEL FEMALE 60° CONE (SAE J514)
CODO 45° MACHO NPTF CONO 60° - HEMBRA GIRATORIA NPSM CONO 60° (SAE J514)
45° WINKELADAPTER NPTF IFG 60° KONISCHER DICHTSITZ
NPSM IG 60° KONISCHER DICHTSITZ DREHBAR (SAE J514)
GOMITO 45° MASCHIO NPTF CONO 60° - FEMMINA NPSM CONO 60° (SAE J514)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (NPTF)	T ₂ (NPSM)	L ₁	L ₂	H ₁	H ₂
A552828-04-04	1/4"-18	1/4"-18	21,8	23,4	14	19
A552828-06-06	3/8"-18	3/8"-18	24,1	25,9	19	22
A552828-06-08	3/8"-18	1/2"-14	24,9	29,5	22	27
A552828-08-08	1/2"-14	1/2"-14	29,7	29,5	22	27
A552828-12-12	3/4"-14	3/4"-14	30,5	34,8	27	32
A552828-16-16	1"-11,5	1"-11,5	37,6	38,1	33	38
A552828-20-20	1.1/4"-11,5	1.1/4"-11,5	42,4	41,9	41	50

A553128



45° ADJUSTABLE ELBOW NPSM SWIVEL FEMALE 60° CONE (SAE J514)

SAE MALE O-RING BOSS TYPE (ISO 11926)

CODO ORIENTABLE 45° HEMBRA GIRATORIA NPSM CONO 60° (SAE J514)

MACHO SAE TIPO O-RING BOSS (ISO 11926)

45° WINKELADAPTER EINSTELLBAR NPSM IG 60° KONISCHER DICHTSITZ DREHBAR

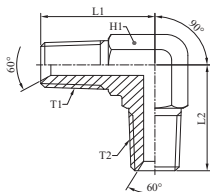
(SAE J514) SAE AG O-RINGNUT AUSFÜHRUNG (ISO 11926)

GOMITO 45° ORIENTABILE FEMMINA NPSM CONO 60° (SAE J514)

MASCHIO SAE TENUTA O-RING (ISO 11926)

PART. REF.	THREADS		DIMENSIONS mm				
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	T ₁ (UNF)	T ₂ (NPSM)	L ₁	L ₂	H ₁	H ₂	H ₃
A553128-04-06	7/16"-20	3/8"-18	27,4	26,4	19	22	16
A553128-08-06	3/4"-16	3/8"-18	33,0	27,2	19	22	22
A553128-08-08	3/4"-16	1/2"-14	33,0	29,7	19	27	22
A553128-08-12	3/4"-16	3/4"-14	36,0	34,8	27	32	22
A553128-10-08	7/8"-14	1/2"-14	38,6	29,5	22	27	27
A553128-12-12	1.1/16"-12	3/4"-14	43,9	34,8	27	32	32
A553128-16-16	1.5/16"-12	1"-11,5	47,2	38,1	33	38	38



A562828

UNION 90° ELBOW NPTF MALE 60° CONE SEAT (SAE J514)

CODO 90° MACHO NPTF CONO 60° (SAE J514)

90° WINKELVERBINDER NPTF AG 60° KONISCHES ENDE (SAE J514)

GIUNZIONE 90° MASCHIO NPTF CONO 60° (SAE J514)

PART. REF.	THREADS		DIMENSIONS mm				
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	T ₁ (NPTF)	T ₂ (NPTF)	L ₁	L ₂	H ₁		
A562828-02-02	1/8"-27	1/8"-27	19,8	19,8	11		
A562828-04-04	1/4"-18	1/4"-18	27,7	27,7	14		
A562828-04-06	1/4"-18	3/8"-18	31,0	31,0	19		
A562828-06-06	3/8"-18	3/8"-18	31,0	31,0	19		
A562828-06-08	3/8"-18	1/2"-14	32,5	37,3	22		
A562828-08-08	1/2"-14	1/2"-14	37,3	37,3	22		
A562828-12-12	3/4"-14	3/4"-14	40,4	40,4	27		
A562828-16-16	1"-11.1/2	1"-11.1/2	50,0	50,0	33		
A562828-20-20	1.1/4"-11.1/2	1.1/4"-11.1/2	60,5	60,5	41		

NPTF - NPSM ADAPTORS

A582828

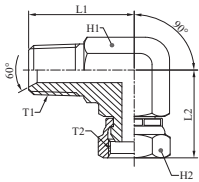
90° ELBOW NPTF MALE 60° CONE SEAT - NPSM SWIVEL FEMALE 60° CONE (SAE J514)

CODO 90° MACHO NPTF CONO 60° - HEMBRA GIRATORIA NPSM CONO 60° (SAE J514)

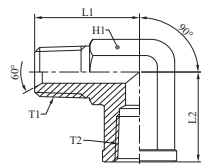
90° WINKELADAPTER NPTF AG 60° KONISCHES ENDE

NPSM IG 60° KONISCHER DICHTSITZ, DREHBAR (SAE J514)

GOMITO 90° MASCHIO NPTF CONO 60° - FEMMINA NPSM CONO 60° (SAE J514)



PART. REF.	THREADS	DIMENSIONS					
		mm					
	T ₁ (NPTF)	T ₂ (NPSM)	L ₁	L ₂	H ₁	H ₂	
A582828-04-04	1/4"-18	1/4"-18	27,7	27,2	14	19	
A582828-04-06	1/4"-18	3/8"-18	31,0	30,5	19	22	
A582828-06-04	3/8"-18	1/4"-18	31,0	29,5	19	19	
A582828-06-06	3/8"-18	3/8"-18	31,0	30,5	19	22	
A582828-06-08	3/8"-18	1/2"-14	32,5	35,3	22	27	
A582828-08-06	1/2"-14	3/8"-18	37,3	31,8	22	22	
A582828-08-08	1/2"-14	1/2"-14	37,3	35,3	22	27	
A582828-12-12	3/4"-14	3/4"-14	40,4	41,9	27	32	
A582828-16-16	1"-11,5	1"-11,5	50,0	48,0	33	38	
A582828-20-20	1.1/4"-11,5	1.1/4"-11,5	60,5	54,6	41	50	
A582828-24-24	1.1/2"-11,5	1.1/2"-11,5	67,0	58,7	48	54	



A582834

90° ELBOW NPTF MALE 60° CONE SEAT - NPTF FIXED FEMALE (SAE J514)

CODO 90° MACHO NPTF CONO 60° - HEMBRA FIJA NPTF (SAE J514)

90° WINKELADAPTER NPTF AG 60° KONISCHES ENDE - NPTF IG (SAE J514)

GOMITO 90° MASCHIO NPTF CONO 60° - FEMMINA FISSA NPTF (SAE J514)

PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (NPTF)	T ₂ (NPTF)	L ₁	L ₂	H ₁		
A582834-02-02	1/8"-27	1/8"-27	19,8	16,8	14		
A582834-02-04	1/8"-27	1/4"-18	22,9	22,4	19		
A582834-04-02	1/4"-18	1/8"-27	27,7	17,0	14		
A582834-04-04	1/4"-18	1/4"-18	27,7	22,4	19		
A582834-04-06	1/4"-18	3/8"-18	31,0	25,9	22		
A582834-06-04	3/8"-18	1/4"-18	31,0	25,7	19		
A582834-06-06	3/8"-18	3/8"-18	31,0	25,9	22		
A582834-06-08	3/8"-18	1/2"-14	32,5	31,2	27		
A582834-08-06	1/2"-14	3/8"-18	37,3	25,9	22		
A582834-08-08	1/2"-14	1/2"-14	37,3	31,2	27		
A582834-12-12	3/4"-14	3/4"-14	40,4	34,5	33		
A582834-16-16	1"-11,5	1"-11,5	50,0	41,2	41		
A582834-20-20	1.1/4"-11,5	1.1/4"-11,5	60,5	43,2	48		
A582834-24-24	1.1/2"-11,5	1.1/2"-11,5	67,0	52,8	65		

NPTF - NPSM ADAPTORS

A583128

90° ADJUSTABLE ELBOW NPSM SWIVEL FEMALE 60° CONE (SAE J514)

SAE MALE O-RING BOSS TYPE (ISO 11926)

CODO ORIENTABLE 90° HEMBRA GIRATORIA NPSM CONO 60° (SAE J514)

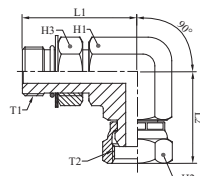
MACHO SAE TIPO O-RING BOSS (ISO 11926)

90° WINKELADAPTER NPSM IG 60° KONISCHER DICHTSITZ, DREHBAR (SAE J514)

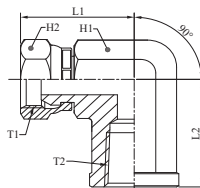
SAE AG O-RINGNUT AUSFÜHRUNG (ISO 11926)

GOMITO 90° ORIENTABILE FEMMINA NPSM CONO 60° (SAE J514)

MASCHIO SAE TENUTA O-RING (ISO 11926)



PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (UNF)	T ₂ (NPSM)	L ₁	L ₂	H ₁	H ₂	H ₃
A583128-04-04	7/16"-20	1/4"-18	26,2	24,9	11	19	16
A583128-06-04	9/16"-18	1/4"-18	31,8	27,2	14	19	19
A583128-06-06	9/16"-18	3/8"-18	31,8	28,2	14	22	19
A583128-08-06	3/4"-16	3/8"-18	36,8	30,5	19	22	22
A583128-08-08	3/4"-16	1/2"-14	36,8	33,5	19	27	22
A583128-08-12	3/4"-16	3/4"-14	41,2	41,9	27	32	22
A583128-10-08	7/8"-14	1/2"-14	43,2	35,3	22	27	27
A583128-10-12	7/8"-14	3/4"-14	45,2	41,2	27	32	27
A583128-12-12	1.1/16"-12	3/4"-14	49,3	41,9	27	32	32
A583128-16-16	1.5/16"-12	1"-11.1/2	52,0	48,0	33	38	38



A572834

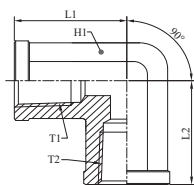
90° ELBOW NPSM SWIVEL FEMALE 60° CONE - NPTF FIXED FEMALE (SAE J514)

CODO 90° HEMBRA GIRATORIA NPSM CONO 60° - HEMBRA FIJA NPTF (SAE J514)

90° WINKELADAPTER NPSM IG 60° KONISCHER DICHTSITZ, DREHBAR - NPTF IG (SAE J514)

GOMITO 90° FEMMINA NPSM CONO 60° - FEMMINA FISSA NPTF (SAE J514)

PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (NPSM)	T ₂ (NPTF)	L ₁	L ₂	H ₁	H ₂	
A572834-04-04	1/4"-18	1/4"-18	30,0	22,4	19	19	
A572834-06-06	3/8"-18	3/8"-18	32,3	25,9	22	22	
A572834-08-08	1/2"-14	1/2"-14	38,6	31,2	27	27	
A572834-12-12	3/4"-14	3/4"-14	46,2	34,5	33	32	
A572834-16-16	1"-11,5	1"-11,5	52,8	41,5	41	38	
A572834-20-20	1.1/4"-11,5	1.1/4"-11,5	57,2	43,2	48	50	
A572834-24-24	1.1/2"-11,5	1.1/2"-11,5	71,9	52,8	63	54	



A573434

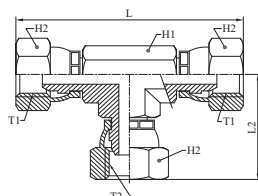
UNION 90° ELBOW NPTF FIXED FEMALE (SAE J514)

CODO 90° HEMBRA FIJA NPTF (SAE J514)

90° WINKELVERBINDER NPTF IG (SAE J514)

GIUNZIONE 90° FEMMINA FISSA NPTF (SAE J514)

PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (NPTF)	T ₂ (NPTF)	L ₁	L ₂	H ₁	H ₂	H ₃
A573434-02-02	1/8"-27	1/8"-27	16,8	16,8	14		
A573434-02-04	1/8"-27	1/4"-18	22,4	22,4	19		
A573434-04-04	1/4"-18	1/4"-18	22,4	22,4	19		
A573434-06-06	3/8"-18	3/8"-18	25,9	25,9	22		
A573434-06-08	3/8"-18	1/2"-14	31,2	31,2	27		
A573434-08-08	1/2"-14	1/2"-14	31,2	31,2	27		
A573434-12-12	3/4"-14	3/4"-14	34,5	34,5	33		
A573434-16-16	1"-11,5	1"-11,5	41,2	41,2	41		
A573434-20-20	1.1/4"-11,5	1.1/4"-11,5	43,2	43,2	48		
A573434-24-24	1.1/2"-11,5	1.1/2"-11,5	52,8	52,8	65		



A732828

UNION TEE NPSM SWIVEL FEMALE 60° CONE (SAE J514)

TE HEMBRA GIRATORIA NPSM CONO 60° (SAE J514)

T-VERBINDER NPSM IG 60° KONISCHER DICHTSITZ, DREHBAR (SAE J514)

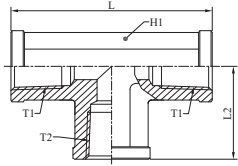
GIUNZIONE A "T" FEMMINA NPSM CONO 60° (SAE J514)

PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (NPSM)	T ₂ (NPSM)	L ₁	L ₂	H ₁	H ₂	
A732828-04-04	1/4"-18	1/4"-18	54,4	27,2	14	19	
A732828-06-06	3/8"-18	3/8"-18	61,0	30,5	19	22	
A732828-08-08	1/2"-14	1/2"-14	70,6	35,3	22	27	
A732828-12-12	3/4"-14	3/4"-14	83,8	41,9	27	32	
A732828-16-16	1"-11,5	1"-11,5	96,0	48,0	33	38	
A732828-20-20	1.1/4"-11,5	1.1/4"-11,5	109,2	54,6	41	50	

NPTF - NPSM ADAPTORS

A733434

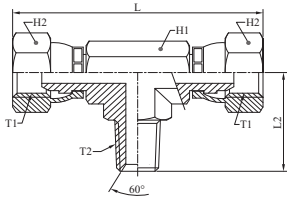
UNION TEE NPTF FIXED FEMALE (SAE J514)
TE HEMBRA FIJA NPTF (SAE J514)
T-VERBINDER NPTF IG (SAE J514)
GIUNZIONE A "T" FEMMINA FISSA NPTF (SAE J514)



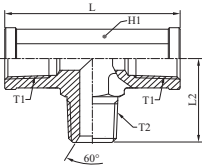
PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (NPTF)	T ₂ (NPTF)	L	L ₂	H ₁		
A733434-02-02	1/8"-27	1/8"-27	33,5	16,8	14		
A733434-04-04	1/4"-18	1/4"-18	44,7	22,4	19		
A733434-06-06	3/8"-18	3/8"-18	51,8	25,9	22		
A733434-08-08	1/2"-14	1/2"-14	62,5	31,2	27		
A733434-12-12	3/4"-14	3/4"-14	69,0	34,5	33		
A733434-16-16	1"-11.1/2	1"-11.1/2	82,3	41,2	41		
A733434-20-20	1.1/4"-11.1/2	1.1/4"-11.1/2	86,4	43,2	48		
A733434-24-24	1.1/2"-11.1/2	1.1/2"-11.1/2	105,7	52,8	65		

A742828

BRANCH TEE NPSM SWIVEL FEMALE 60° CONE
NPTF MALE 60° CONE SEAT (SAE J514)
TE CENTRAL HEMBRA GIRATORIA NPSM CONO 60°
MACHO NPTF CONO 60° (SAE J514)
T-ADAPTER NPSM IG 60° KONISCHER DICHTSITZ, DREHBAR
NPTF AG 60° KONISCHES ENDE (SAE J514)
"T" CENTRALE FEMMINA NPSM CONO 60°
MASCHIO NPTF CONO 60° (SAE J514)



PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (NPSM)	T ₂ (NPTF)	L	L ₂	H ₁	H ₂	
A742828-04-04	1/4"-18	1/4"-18	54,4	27,7	14	19	
A742828-06-06	3/8"-18	3/8"-18	61,0	31,0	19	22	
A742828-08-08	1/2"-14	1/2"-14	70,6	37,3	22	27	
A742828-12-12	3/4"-14	3/4"-14	83,8	40,4	27	32	
A742828-16-16	1"-11,5	1"-11,5	96,0	50,0	33	38	
A742828-20-20	1.1/4"-11,5	1.1/4"-11,5	109,2	60,5	41	50	



A742834

BRANCH TEE NPTF FIXED FEMALE - NPTF MALE 60° CONE SEAT (SAE J514)
TE CENTRAL HEMBRA FIJA NPTF - MACHO NPTF CONO 60° (SAE J514)
T-ADAPTER NPTF IG - NPTF AG 60° KONISCHES ENDE (SAE J514)
"T" CENTRALE FEMMINA FISSA NPTF - MASCHIO NPTF CONO 60° (SAE J514)

PART. REF.	THREADS		DIMENSIONS				
			mm				
	T ₁ (NPTF)	T ₂ (NPTF)	L	L ₂	H ₁		
A742834-02-02	1/8"-27	1/8"-27	33,5	19,8	14		
A742834-04-04	1/4"-18	1/4"-18	44,7	27,7	19		
A742834-06-06	3/8"-18	3/8"-18	51,8	31,0	22		
A742834-08-08	1/2"-14	1/2"-14	62,5	37,3	27		
A742834-12-12	3/4"-14	3/4"-14	69,0	40,4	33		
A742834-16-16	1"-11,5	1"-11,5	82,3	50,0	41		

QUICK COUPLINGS

Q.Safe



Fluid connectors, solid solutions

manuli[®]
HYDRAULICS

INTRODUCTION

GB

Q.safe is Manuli solution for connect and disconnect two parts of a hydraulic system Fastly, Easily and Safely. Each Q.Safe series grant connection and disconnection between machine and its implements, also providing seal against leakage in both situations of connection and disconnection. All series are provided with an environmentally friendly Cr3+ (trivalent chrome) surface coating for an excellent resistance to corrosion, exceeding the ISO 4520 requirements (salt spray resistance: 240 hours for white corrosion and 400 for red corrosion). Accessories, spare parts kits, check valves and quick couplings direct hose integration complete the product range for more than **700** references.

Manuli Hydraulics Q.Safe are suggested for the following application fields.

■ **Agriculture and Forestry** (tractors, trailers, harvester machines).

Quick couplings according to ISO 7241-A standard connectable in whatever pressure conditions:

MQS-A and MQS-AF, MQS-N in case of no pressure in the hydraulic line.

MQS-AP, MQS-AFP, MQS-AFM, MQS-AFB, MQS-ARM and MQS-ARB in case of pressure in one or both the hydraulic lines.

Quick couplings for hydraulic braking systems: MQS-VB according to ISO 5676 standard, MQS-VS

Flat Face Quick couplings according to ISO 16028 standards: MQS-F, MQS-FP, MQS-FS

Screw-type couplings: MQS-SG, MQS-SGR

Quick couplings for diagnosis according to ISO 15171-1 standard: MQS-D

Quick couplings "direct hose integration": MQS-DHI

Check valves: MQS-CV, MQS-CVC

■ **Construction equipments and utility vehicles** (excavators, skid steers loaders, wheel-loaders, hydraulic tools and dump trailers):

MQS-A, MQS-AF, MQS-N, MQS-B

MQS-F, MQS-FP, MQS-FS

MQS-SG, MQS-SGR

MQS-D

Screw type couplings for very high static pressure: MQS-SC

Screw type couplings for extreme working conditions: MQS-SH

Wing nut screw type couplings: MQS-ST

MQS-DHI

MQS-CV, MQS-CVC

■ **Mining** (drills):

MQS-A, MQS-N,

MQS-F

MQS-SG, MQS-SGR

MQS-SC

MQS-SH

MQS-CV, MQS-CVC

■ **Industry:**

MQS-F

MQS-SH

MQS-B

MQS-D

MQS-DHI

MQS-CV, MQS-CVC



All products are manufactured and assembled in our facility. 100% of quick couplings are subjected to severe quality controls:
100% visual check - 100% functional test - 100% air sealing test

PRESSURE

A quick coupling has to fit both the pressure and the flow rate of each application. Always check the compatibility between the rated performance of the coupling and the maximum system pressure. The quick coupling pressure must be equal or greater than the maximum pressure of the system. With many couplings connection and disconnection must be carried out without any pressure in the line. If it is not possible to decrease the pressure to zero, please use specific quick couplings that are connectable under pressure. If any residual pressures remains connection may still be difficult. Decrease completely the system pressure to unlock the valves. Avoid using tools.

FLUIDS

Before each application, check the compatibility between the fluids and the quick coupling materials or seals.

TEMPERATURE

Verify the temperature in use requested by each single application.

ENVIRONMENTAL CONDITIONS

The environmental conditions may damage the quick couplings: remark the action of chemicals, UV radiations and salt waters.

PRECAUTIONS

Before connecting, clean carefully the insert, in order to avoid the wear of the seals. Use all the precautions to preserve the quick couplings as long as possible, such as caps and plugs when they are disconnected. Avoid the falling on the ground of the quick couplings.

Try to immediately replace all the damaged spare parts (O-Rings and Back-up Rings), with the specific kits in use. Check regularly, after each individual application, the quick couplings, in order to detect any visible crack, leakage, damage or corrosion result.

INTRODUCTION

ES

La línea Q.Safe representa la solución Manuli para conectar y desconectar 2 partes del circuito hidráulico de una forma rápida, simple y segura. Cada serie Q.Safe garantiza la conexión y desconexión entre la máquina y sus utensilios, garantizando la estanqueidad sea en conexión o desconexión. Todas las series tienen un tratamiento superficial de cincado eco-compatible Cr3+ (cromo trivalente) para una mayor resistencia a la corrosión que supera a la prevista en la norma ISO 4520, resistencia: 240 horas a la oxidación blanca y 450 horas a la oxidación roja. Accesorios, kit de recambios, válvulas unidireccionales y enchufes rápidos directamente integrados en el tubo flexible, completando la gama de productos Q.Safe que a hoy cuenta con más de **700** artículos.

Los Q.Safe de Manuli Hydraulics están particularmente indicados para las siguientes aplicaciones:

■ **Agricultura y Forestal** (máquinas agrícolas, accesorios y remolques).

Los enchufes rápidos (ISO 7241-A) conectable según el producto con presión:

MQS-A y MQS-AF, MQS-N no conectable con presión

MQS-AP, MQS-AFP, MQS-AFM, MQS-AFB, MQS-ARM y MQS-ARB conectables en caso de presión en una o ambas líneas hidráulicas

Enchufe rápido para sistema de frenado hidráulico: MQS-VB (ISO 5676), MQS-VS

Enchufe rápido de Cara Plana (ISO 16028): MQS-F, MQS-FP, MQS-FS

Enchufe rápido roscado: MQS-SG, MQS-SGR

Enchufe rápido para diagnóstico (ISO 15171-1): MQS-D

Enchufe rápido para "integración directa a la manguera": DHI

Válvulas de control: MQS-CV, MQS-CVC

■ **Máquinas de construcción y transporte** (ex cavadoras, palas cargadoras, excavadoras engomadas, instrumentos hidráulicos y remolques abatibles).

MQS-A, MQS-AF, MQS-N, MQS-B

MQS-F, MQS-FP, MQS-FS

MQS-SG, MQS-SGR

MQS-D

Enchufe rápido roscado para presión estática elevada: MQS-SC

Enchufe rápido roscado para presión de trabajo extrema: MQS-SH

Enchufe rápido con casquillo especial que facilita la conexión: MQS-ST

MQS-DHI

MQS-CV, MQS-CVC

■ **Minería** (perforación):

MQS-A, MQS-N,

MQS-F

MQS-SG, MQS-SGR

MQS-SC

MQS-SH

MQS-CV, MQS-CVC

■ **Industria:**

MQS-F

MQS-SH

MQS-B

MQS-D

MQS-DHI

MQS-CV, MQS-CVC



Todos los productos son fabricados y ensamblados en nuestros centros de producción. El 100% de los enchufes rápidos están sometidos a severos controles de calidad: 100% control visual - 100% prueba de conexión desconexión - 100% prueba física con aïme comprimido

PRESIÓN

El acoplamiento rápido deberá adaptarse a la presión y al caudal en uso, referidos a la aplicación específica. Por favor, fíjese en la compatibilidad entre el caudal del acoplamiento rápido elegido y la presión máx. del sistema. La presión de acoplamiento rápido deberá ser igual o superior a la presión máx. del sistema. La conexión y desconexión deberá realizarse sin ninguna presión.

Si no es posible reducir a cero la presión, intente utilizar acoplamientos rápidos específicos conectables bajo presión. En el caso de cualquier presión residual de los acoplamientos rápidos, la conexión podría ser difícil. Reduzca completamente la presión del sistema para desbloquear las válvulas. Evite utilizar herramientas.

FLUIDOS

Antes de cada aplicación, compruebe la compatibilidad entre los fluidos y los materiales o juntas del acoplamiento rápido.

TEMPERATURA

Verifique la temperatura en uso requerida para cada aplicación.

CONDICIONES AMBIENTALES

Las condiciones ambientales podrían dañar los acoplamientos rápidos: tenga cuidado con la acción de los productos químicos, radiaciones UV y aguas saladas.

PRECAUCIONES

Antes de la conexión, limpie con cuidado la inserción, para evitar el desgaste de las juntas. Utilice el máximo de precauciones para conservar los acoplamientos rápidos el máximo de tiempo posible, como tapones cuando estén desconectados. Evite que los acoplamientos rápidos se caigan al suelo.

Intente sustituir inmediatamente todos los repuestos dañados (juntas tóricas, O-Rings, y anillos de soporte), con los kits específicos en uso. Verifique con regularidad, después de cada aplicación, los acoplamientos rápidos, para detectar cualquier grieta, fuga, daño o resultado de corrosión.

INTRODUCTION

D

Q.safe von Manuli ist die Lösung, um zwei Kreise eines Hydrauliksystems schnell, einfach und sicher anzuschließen und wieder zu trennen.

Jede Q.Safe-Serie sichert den Anschluss und die Trennung zwischen Maschine und ihren Zubehören zu und sorgt für eine leka-gefreie Abdichtung sowohl beim Anschließen als auch bei der Trennung. Alle Serien werden mit einer umweltfreundlichen Cr3+ (trivalenter Chrom) Oberflächenbeschichtung geliefert, die eine exzellente Beständigkeit gegen Korrosion bietet und zwar noch über die Anforderungen der ISO 4520 hinaus (Salznebelbeständigkeit: 240 Stunden gegen Weißrost und 400 Stunden gegen Korrosion). Zubehöre, Ersatzteilsätze, Absperrventile und direkt in den Schlauch integrierbare Schnellanschlusskuppungen vervollständigen die mehr als **700** Teile umfassende Produktpalette.

Manuli Hydraulics Q.Safe sind für folgende Anwendungsbereiche geeignet.

- **Land- und Forstwirtschaft** (Traktoren, Anhänger, Erntemaschinen) Schnellanschlusskuppungen gemäß ISO 7241-A Norm können unter folgenden Druckverhältnissen eingesetzt werden:
MQS-A und MQS-AF, MQS-N bei druckfreien Hydraulikleitungen.
MQS-AP, MQS-AFP, MQS-AFM, MQS-AFB, MQS-ARM und MQS-ARB bei Druck in einer oder beiden Hydraulikleitungen.
Schnellanschlusskuppungen für Hydraulikbremssysteme: MQS-VB gemäß ISO 5676 Norm, MQS-VS
Flachdichtende Schnellanschlusskuppungen gemäß ISO 16028 Norm: MQS-F, MQS-FP, MQS-FS
Schraubkupplungen: MQS-SG, MQS-SGR.
Schnellanschlusskuppungen für Diagnose gemäß ISO 15171-1 Norm: MQS-D.
Direkt in den Schlauch integrierte Schnellanschlusskuppungen: MQS-DHI
Absperrventile: MQS-CV, MQS-CVC
- **Baumaschinen und Nutzfahrzeuge** (Bagger, Kompaktrader, Radlader, hydraulische Werkzeuge und Kipphanhänger):
MQS-A, MQS-AF, MQS-N, MQS-B
MQS-F, MQS-FP, MQS-FS
MQS-SG, MQS-SGR
MQS-D
Schraubkupplungen für sehr hohen statischen Druck: MQS-SC
Schraubkupplungen für extreme Betriebsbedingungen: MQS-SH
Flügeschraubkupplungen: MQS-ST
MQS-DHI
MQS-CV, MQS-CVC
- **Bergbau** (Bohrer):
MQS-A, MQS-N,
MQS-F
MQS-SG, MQS-SGR
MQS-SC
MQS-SH
MQS-CV, MQS-CVC
- **Industrie:**
MQS-F
MQS-SH
MQS-B
MQS-D
MQS-DHI
MQS-CV, MQS-CVC



Alle Produkte werden in bei Manuli hergestellt und montiert. Die Kupplungen unterliegen 100%igen strengen Qualitätskontrollen:
100% Sichtkontrolle - 100% Funktionsprüfung - 100% Luftdichtheitsprüfung

DRUCK

Die Kupplung muss sowohl auf Druck wie auch auf Volumenstrom in der Anwendung ausgelegt werden. Es sollte immer die Druckangabe der Kupplung mit dem maximalen Systemdruck verglichen werden. Der zulässige Druck für die Kupplung sollte mindestens gleich hoch, besser höher als der maximale Systemdruck sein. Bei vielen Kupplungsarten müssen die Leitungen beim Verbinden oder Trennen völlig druckfrei sein. Wenn es in der Anwendung nicht möglich ist den Leitungsdruck bis auf Null bar zu reduzieren, wählen Sie bitte Schnellverschlusskupplungen aus, die auch unter Druck bedienbar ist. Auch bei nur geringen Restdrücken in der Leitung kann das Verbinden/Trennen schwierig sein. Stellen Sie durch betätigen der Ventile sicher, dass die Leitung komplett druckentlastet ist. Vermeiden Sie den Einsatz von Werkzeugen.

FLÜSSIGKEITEN

Bitte prüfen Sie bei jeder neuen Anwendung die Kompatibilität der eingesetzten Flüssigkeit mit den Kupplungs- und Dichtungswerkstoffen.

TEMPERATUR

Die Temperatur sollte für jede Anwendung geprüft werden.

UMWELTEINFLÜSSE

Umwelteinflüsse wie Salzwasser, UV-Strahlung, Chemikalien können die Kupplung beschädigen. Diese Umstände sollten auf jeden Fall berücksichtigt werden.

VORSICHTSMASSNAHMEN

Vor dem Verbinden Kupplungsstecker umsichtig reinigen damit die Dichtungen nicht beschädigt werden. Es sollten alle Vorsichtsmaßnahmen – z.B. Schutzkappen und -Stopfen bei Nichtgebrauch – getroffen werden, damit die Kupplung möglichst lange intakt bleibt. Ein Herunterfallen der Kupplung sollte vermieden werden.

Beschädigte Teile müssen sofort getauscht werden (O-Ring, Sicherungsring). Hierfür stehen Ersatzteilkits zur Verfügung. Die Kupplungshälften sollten nach jedem Einsatz auf sichtbare Beschädigungen wie Risse, Leckage, Deformation oder Korrosion überprüft werden.

INTRODUCTION

IT

La linea Q.safe rappresenta la soluzione Manuli per connettere e disconnettere 2 parti di un circuito idraulico velocemente, semplicemente e in sicurezza. Ogni serie Q.safe garantisce la connessione e la disconnessione tra la macchina e i suoi attrezzi, garantendo la tenuta sia in condizione connesso che disconnesso. Tutte le serie hanno il trattamento superficiale di zincatura eco-compatibile in Cr3+ (cromo trivalente) per una resistenza alla corrosione superiore a quella prevista dalla norma ISO 4520 (resistenza: 240 ore per la corrosione bianca e 400 ore per quella rossa). Accessori, kit di ricambi, valvole unidirezionali e innesti rapidi direttamente integrati al tubo flessibile, completano la gamma di prodotti Q.Safe che ad oggi conta più di **700** articoli.

Gli innesti rapidi Q.safe Manuli Hydraulics sono particolarmente indicati per le seguenti applicazioni:

■ **Agricoltura e Forestazione** (macchine agricole, accessori, rimorchi)

Gli innesti rapidi (ISO 7241-A) connettabili a seconda del prodotto in pressione:

MQS-A e MQS-AF, MQS-N non innestabili in pressione

MQS-AP, MQS-AFP, MQS-AFM, MQS-AFB, MQS-ARM e MQS-ARB innestabili in caso di presenza di pressione in una o entrambe le linee idrauliche.

Innesti rapidi per sistemi idraulici frenanti: MQS-VB (ISO 5676), MQS-VS

Innesti rapidi a faccia piana (ISO 16028): MQS-F, MQS-FP, MQS-FS

Innesti rapidi a vite: MQS-SG, MQS-SGR

Innesti rapidi per diagnosi (ISO 15171-1): MQS-D

Innesti rapidi "direct hose integration": DHI

Valvole di controllo: MQS-CV, MQS-CVC

■ **Machine da costruzione e trasporto** (escavatori, pale caricatrici, escavatori gommati, strumenti idraulici e rimorchi a cassone ribaltabile):

MQS-A, MQS-AF, MQS-N, MQS-B

MQS-F, MQS-FP, MQS-FS

MQS-SG, MQS-SGR

MQS-D

Innesti rapidi a vite per pressioni statiche elevate: MQS-SC

Innesti rapidi a vite per condizioni di lavoro estreme: MQS-SH

Innesti rapidi con ghiera speciale che facilita la connessione: MQS-ST

MQS-DHI

MQS-CV, MQS-CVC

■ **Miniera (drill):**

MQS-A, MQS-N,

MQS-F

MQS-SG, MQS-SGR

MQS-SC

MQS-SH

MQS-CV, MQS-CVC

■ **Industria:**

MQS-F

MQS-SH

MQS-B

MQS-D

MQS-DHI

MQS-CV, MQS-CVC



Tutti i prodotti sono costruiti e assemblati nella nostra struttura. Il 100% degli innesti rapidi vengono sottoposti a severi controlli di qualità:
100% controllo visivo - 100% test di connessione/disconnessione - 100% test di tenuta con aria

PRESSIONE

Un innesto rapido deve rispettare sia la pressione che il flusso indicato per ogni applicazione. È necessario verificare sempre la compatibilità tra le performance indicate dell'innesto e la pressione massima del sistema. La pressione dell'innesto rapido deve essere pari o maggiore della pressione massima di sistema. Con molti innesti la connessione e la disconnessione deve essere effettuata senza alcuna pressione nelle linee del sistema. Qualora non fosse possibile diminuire la pressione fino allo zero, è necessario utilizzare specifici innesti rapidi, innestabili in pressione. Se una pressione residua rimane la connessine può risultare difficile. Diminuire completamente la pressione di sistema per sbloccare le valvole. Evitare l'utilizzo di amesi.

FLUIDI

Prima di ogni applicazione, verificare la compatibilità tra i fluidi e i materiali degli innesti o delle guarnizioni.

TEMPERATURA

Verificare la temperatura in uso richiesta per ogni applicazione.

CONDIZIONI AMBIENTALI

Le condizioni ambientali possono danneggiare gli innesti rapidi: tener sotto controllo l'azione di elementi chimici, radiazioni UV e acque saline.

PRECAUZIONI

Prima della connessione, pulire accuratamente l'inserto, al fine di evitare l'usura della guarnizione. Prendere tutte le precauzioni per preservare gli innesti rapidi il più a lungo possibile, come tappi di protezione quando sono disconnessi. Evitare cadute a terra degli innesti. Cercare di sostituire immediatamente tutte le parti accessorie danneggiate (O'-Ring e Back-up Ring), con gli specifici kit in uso. Controllare regolarmente, dopo ogni singola applicazione, gli innesti rapidi al fine di individuare qualsiasi crepa visibile, perdita, danni o corrosioni.

QUICK COUPLINGS

Q.Safe Couplings



Fluid connectors, solid solutions

manuli[®]
HYDRAULICS

Q.SAFE COUPLINGS

INDEX

	QUICK COUPLINGS SERIES	FEMALE COUPLING	MALE COUPLING	SPECIFICATIONS	SHUT-OFF SYSTEM	CONNECTION	WORKING PRESSURE		PAGE
							MPa	PSI	
HYDRAULIC QUICK RELEASE COUPLINGS	MQS-A ISO A	Q008	Q002	ISO 7241 series A	POPPET VALVE	LOCKING BALLS	from 18 to 35	from 2610 to 5075	400
			Q004		SHIELDED VALVE				407
		Q009	Q003		BALL VALVE		21	3045	408
	MQS-AP ISO A connectable under pressure	Q010	Q006	ISO 7241 series A	POPPET VALVE	LOCKING BALLS	30	4350	411
	MQS-AM ISO A connectable with male under pressure	Q011	-	ISO 7241 series A	POPPET VALVE	LOCKING BALLS	30	4350	414
	MQS-AB ISO A connectable with both parts under pressure	Q012	-	ISO 7241 series A	POPPET VALVE	LOCKING BALLS	30	4350	417
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	MQS-N standard	Q032	Q029	-	POPPET VALVE	LOCKING BALLS	from 25 to 35	from 3625 to 5075	424
		Q033	Q030		BALL VALVE		from 21 to 30	from 3045 to 4350	427
	MQS-AF push-pull	Q013	-	ISO 7241 series A	POPPET VALVE	LOCKING BALLS	from 30 to 31,5	from 4350 to 4568	430
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	MQS-AFM push-pull connectable with male under pressure, flexible mounting	Q016	-	ISO 7241 series A	POPPET VALVE	LOCKING BALLS	30	4350	442
	MQS-AFB push-pull connectable with both parts under pressure, flexible mounting	Q017	-	ISO 7241 series A	POPPET VALVE	LOCKING BALLS	30	4350	445
	MQS-ARM push-pull connectable with male under pressure, rigid mounting	Q018	-	ISO 7241 series A	POPPET VALVE	LOCKING BALLS	30	4350	448

	QUICK COUPLINGS SERIES	FEMALE COUPLING	MALE COUPLING	SPECIFICATIONS	SHUT-OFF SYSTEM	CONNECTION	WORKING PRESSURE		PAGE
							MPa	PSI	
HYDRAULIC QUICK RELEASE COUPLINGS	MQS-ARB push-pull connectable with both parts under pressure, rigid mounting	Q019	-	ISO 7241 series A	POPPET VALVE	LOCKING BALLS	30	4350	451
	MQS-VB braking circuit valve	Q048	Q047	ISO 5676	FLAT VALVE	LOCKING BALLS	15	2175	454
	MQS-VS agricultural valve	Q050	Q049	-	FLAT VALVE	SCREW-ON SLEEVE	20	2900	461
	MQS-D diagnostic	-	Q045	ISO 15171-1	FLAT VALVE	LOCKING BALLS	42	6090	467
	MQS-F flat-face	Q041	Q039	ISO 16028 e HTMA (only 3/8" size)	FLAT VALVE	LOCKING BALLS	from 21 to 32	from 3045 to 4640	470
	MQS-FP flat-face male connectable under pressure	-	Q040	ISO 16028 e HTMA (only 3/8" size)	FLAT VALVE	LOCKING BALLS	35	5075	478
	MQS-FS flat-face screw type	Q060	Q059	Manuli standards	FLAT VALVE	SCREW-ON SLEEVE	35	5075	481
	MQS-SG screw	Q052	Q051	German Market interchangeable	POPPET VALVE	SCREW-ON SLEEVE	from 35 to 45	from 5075 to 6525	484
	MQS-SGR screw heavy duty	Q062	Q061	German Market interchangeable	POPPET VALVE	SCREW-ON SLEEVE	from 35 to 40	from 5075 to 5800	492
	MQS-SH screw very high pressure	Q054	Q053	-	POPPET VALVE	SCREW-ON SLEEVE	from 60 to 70	from 8700 to 10150	495
	MQS-SC screw hydraulic cylinders	Q056	Q055	-	POPPET VALVE	SCREW-ON SLEEVE	70	10150	498
	MQS-ST screw for truck	Q058	Q057	-	POPPET VALVE	SCREW-ON SLEEVE	from 23 to 25	from 3335 to 3625	501

Q.Safe couplings are accurately designed and engineered to meet and exceed main International requirements. Q.Safe range presents standard products, customized solutions and new projects for new applications.

Los Acoplamientos Q.Safe se diseñan con precisión para cubrir y exceder los requerimientos Internacionales. La gama Q.Safe presenta los productos estándar, soluciones personalizadas y nuevos proyectos para nuevas aplicaciones.

Q.Safe Produkte sind mit großer Sorgfalt so konstruiert worden, dass sie die Anforderungen der internationalen Normen erfüllen oder diese auch übertreffen. Unsere Q.Safe Produktreihe enthält Standardausführungen, kundenspezifische Lösungen wie auch Neuentwicklungen von Manuli für neue Anwendungen.

Gli innesti rapidi Q.SAFE sono attentamente progettati e realizzati per rispondere ed eccedere le principali norme internazionali. La gamma Q.safe presenta prodotti standard, soluzioni personalizzata e nuovi progetti per nuove applicazioni.

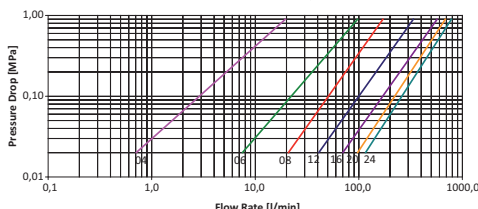


ISO A POPPET VALVES

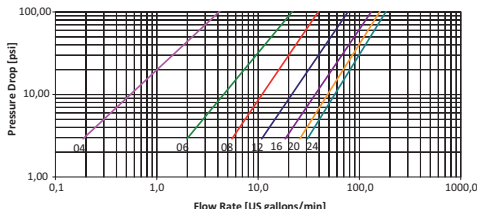
						
SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	CONNECTION EFFORT	OIL SPILLAGE Connection/Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	L/min.	US GPM	N	lb.	cc.	cubic inch	Male		Female		M+F		
											MPa	PSI	MPa	PSI	MPa	PSI	
6,3	1/4"	-04	35	5075	5	1,3	60	133	0,7	0,043	200	29000	150	21750	145	21025	Not allowed
10	3/8"	-06	31,5	4568	35	9,2	80	178	1,4	0,085	145	21025	145	21025	130	18850	Not allowed
12,5	1/2"	-08	30	4350	75	19,8	80	178	1,8	0,110	120	17400	150	21750	150	21750	Not allowed
20	3/4"	-12	25	3625	147	38,8	90	200	7	0,427	100	14500	120	17400	100	14500	Not allowed
25	1"	-16	25	3625	250	66,1	90	200	10,5	0,641	100	14500	110	15950	110	15950	Not allowed
31,5	1 1/4"	-20	20	2900	320	84,5	170	378	10,5	0,641	75	10875	110	15950	80	11600	Not allowed
40	1 1/2"	-24	18	2610	370	97,8	170	378	20,5	1,252	65	9425	110	15950	90	13050	Not allowed

Pressure Drop



Pressure Drop



Reference series on the agriculture and industrial market ■ Simple connection and disconnection by pulling back the sleeve ■ Positive, quick connection of the male into the female by the latching ball system ■ Shut-off by poppet valve ■ High resistant materials and hardened male and sleeve to withstand the brinelling effect ■ Interchangeability according to ISO 7241-1 series A

Serie de referencia en el mercado de la agricultura ■ Conexión y desconexión simple tirando del casquillo ■ Conexión rápida y positiva del macho en la hembra mediante el sistema de bola de cierre ■ Cerrado por la válvula de punzón proporciona una estanqueidad hidráulica eficaz ■ Válvula de punzón endurecida para aumentar la vida de servicio ■ Completamente intercambiable de acuerdo con la norma ISO 7241-1 Serie A

Referenzserie für Landwirtschaft und Industrie ■ Einfacher Anschluss und Trennung durch Zurückziehen der Hülse ■ Schnelle Verbindung mit Kugeleinrastsystem ■ Schließen durch Tellerventil ■ Hochwertige Werkstoffe verhindern Standmarkenbildung ■ Austauschbarkeit nach ISO 7241-1 Serie A

Serie di riferimento per il settore agricolo ed industriale ■ Connessione e disconnessione mediante arretramento della ghiera ■ Bloccaggio tra maschio e femmina garantito da un elevato numero di sfere metalliche ■ Sistema di tenuta mediante valvola sporgente ■ Materiali ad alta resistenza con maschio e ghiera trattati termicamente per garantire un'elevata resistenza all'effetto brinelling ■ Intercambiabilità secondo norma ISO-7241-1 parte A

GB**MATERIAL:**

Female and male couplings in steel, with some hardened areas, in correspondence to the most stressed points
Springs in C98 steel, seals in NBR (others materials on request) and Back-up Ring in PTFE

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C
(for other temperatures, the coupling may be assembled with the specific seals)

SAFETY FACTOR:

1:4 for dynamic pressures and 1:2 for static pressures

IMPULSE PRESSURES:

100.000 cycles at 133% of the rated one (freq. 1Hz)

TEST SPECIFICATIONS:

ISO 7241-2

ES**MATERIAL:**

El acoplamiento de hembra y macho en acero, con algunas zonas endurecidas, que corresponden a los puntos de más sobrecarga. Muelles en acero C98, juntas en NBR (otros materiales disponibles bajo solicitud) y anillo de soporte en PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C
(para otras temperaturas, el acoplamiento puede ser montado con juntas específicas)

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

PRESIONES DE IMPULSO:

100.000 ciclos a 133% de la nominal (frec. 1Hz)

CARACTERÍSTICAS DE LA PRUEBA:

ISO 7241-2

D**MATERIAL:**

Muffen und Stecker aus Stahl mit einigen gehärteten Zonen im Bereich der am meisten beanspruchten Punkte.
Federn aus C98-Stahl, NBR-Dichtungen (andere Materialien auf Anfrage) und PTFE-Stützring

BETRIEBSTEMPERATUR:

-22°F bis +230°F -30°C bis +110°C
(für andere Temperaturen können die Kupplungen mit spezifischen Dichtungen ausgestattet werden)

SICHERHEITSAKTOR:

1:4 für dynamischen Druck und 1:2 für statischen Druck

DRUCKIMPULSE:

100.000 Zyklen bei 133% des angegebenen Druckes
(Frequenz 1Hz)

PRÜFUNGSBEDINGUNGEN:

ISO 7241-2

IT**MATERIALI:**

Innesto femmina e innesto maschio in acciaio con zone indurite in corrispondenza delle aree sottoposte a sollecitazione. Molle in acciaio C98. Guarnizioni in NBR (altri materiali su richiesta) e anelli anti-estrusione in PTFE

TEMPERATURE DI ESERCIZIO:

-22°F a +230°F -30°C a +110°C
(per temperature diverse, l'innesto rapido viene fornito con guarnizioni appropriate)

FATTORE DI SICUREZZA:

1:4 per pressioni dinamiche e 1:2 per pressioni statiche

RESISTENZA A PRESSIONI PULSANTI:

100.000 cicli a 1Hz al 133% della pressione di esercizio

TEST:

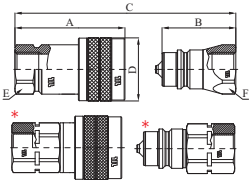
ISO-7241-2

ISO A POPPET VALVES - TERMINATION ENDS

BSP

Q00811041A - Q00211041A

BSP TERMINATION ENDS TO DIN 3852 X TYPE
ROSCA BSP PARA DIN 3852 TIPO X
BSP ANSCHLÜSSE NACH DIN 3852 FORM X
TERMINALI BSP A NORMA DIN3852 FORMA X



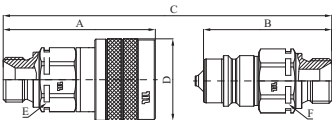
* Male and female in two parts / Macho y hembra en dos partes
Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.

SIZE			PART NUMBER		THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
6,3	1/4"	-04	Q00811041A-04-04	Q00211041A-04-04	1/4"	48,8	34,5	A+B-14,2	ø24	17	17
10	3/8"	-06	Q00811041A-06-04*	Q00211041A-06-04*	1/4"	63	54,5	A+B-17,5	ø30	22	22
			Q00811041A-06-06	Q00211041A-06-06	3/8"	57,8	40	A+B-17,5	ø30	22	22
12,5	1/2"	-08	Q00811041A-08-06*	Q00211041A-08-06*	3/8"	66,2	55	A+B-21,8	ø38	27	27
			Q00811041A-08-08	Q00211041A-08-08	1/2"	67	45	A+B-21,8	ø38	27	27
20	3/4"	-12	Q00811041A-12-12	Q00211041A-12-12	3/4"	83,5	56,5	A+B-26,7	ø45	34	34
25	1"	-16	Q00811041A-16-16	Q00211041A-16-16	1"	97,9	64,5	A+B-32,7	ø52	41	41
31,5	1.1/4"	-20	Q00811041A-20-20	Q00211041A-20-20	1.1/4"	118	75	A+B-43	ø69	50	50
40	1.1/2"	-24	Q00811041A-24-24	Q00211041A-24-24	1.1/2"	133	84	A+B-49	ø83	60	60

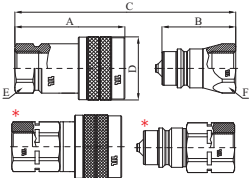
* Male and female in two parts / Macho y hembra en dos partes / Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.

Q00811050A - Q00211050A

BSP TERMINATION ENDS TO ISO 8434-6
ROSCA BSP PARA ISO 8434-6
BSP ANSCHLÜSSE NACH ISO 8434-6
TERMINALI BSP A NORMA ISO 8434-6



SIZE			PART NUMBER		THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
12,5	1/2"	-08	Q00811050A-08-06	Q00211050A-08-06	3/8"	68,9	57,7	A+B-21,8	ø38	27	27
			Q00811050A-08-08	Q00211050A-08-08	1/2"	71,4	60,2	A+B-21,8	ø38	27	27

ISO A POPPET VALVES - TERMINATION ENDS

* Male and female in two parts / Macho y hembra en dos partes
Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.

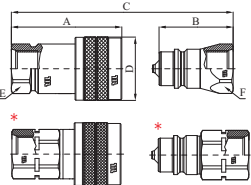
METRIC**Q00811141A - Q00211141A**

METRIC TERMINATION ENDS TO DIN 3852 X TYPE
 ROSCA MÉTRICA PARA DIN 3852 TIPO X
 METRISCHE ANSCHLÜSSE NACH DIN 3852 FORM X
 TERMINALI METRICI A NORMA DIN 3852 FORMA X

SIZE			PART NUMBER		THREADS	DIMENSIONS mm						
------	--	--	-------------	--	---------	------------------	--	--	--	--	--	--

mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
10	3/8"	-06	Q00811141A-06-16*	Q00211141A-06-16*	M16x1,5	64,5	56	A+B-17,5	ø30	22	22
12,5	1/2"	-08	Q00811141A-08-18*	Q00211141A-08-18*	M18x1,5	66,2	55	A+B-21,8	ø38	27	27
			Q00811141A-08-20	Q00211141A-08-20	M20x1,5	67	45	A+B-21,8	ø38	27	27
			Q00811141A-08-22	Q00211141A-08-22	M22x1,5	67	48	A+B-21,8	ø38	27	27

* Male and female in two parts / Macho y hembra en dos partes / Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.



* Male and female in two parts / Macho y hembra en dos partes
Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.

Q00811191A - Q00211191A

METRIC TERMINATION ENDS TO ISO 6149-1
 ROSCA MÉTRICA PARA ISO 6149-1
 METRISCHE ANSCHLÜSSE NACH ISO 6149-1
 TERMINALI METRICI A NORMA ISO 6149-1

SIZE			PART NUMBER		THREADS	DIMENSIONS mm						
------	--	--	-------------	--	---------	------------------	--	--	--	--	--	--

mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
12,5	1/2"	-08	Q00811191A-08-16*	Q00211191A-08-16*	M16x1,5	66,7	55,5	A+B-21,8	ø38	27	27
			Q00811191A-08-18*	Q00211191A-08-18*	M18x1,5	68,2	57	A+B-21,8	ø38	27	27
			Q00811191A-08-22	Q00211191A-08-22	M22x1,5	67	48	A+B-21,8	ø38	27	27

* Male and female in two parts / Macho y hembra en dos partes / Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.

ISO A POPPET VALVES - TERMINATION ENDS

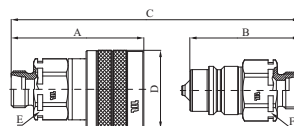
Q00811110A - Q00211110A

METRIC TERMINATION ENDS TO ISO 8434-1 L SERIES

ROSCA MÉTRICA PARA ISO 8434-1 SERIE L

METRISCHE ANSCHLÜSSE NACH ISO 8434-1 SHOTT SE

TERMINALI METRICI A NORMA ISO 8434-1 SERIE L



SIZE			PART NUMBER			THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling			A	B	C	D	E	F
10	3/8"	-06	Q00811110A-06-12	Q00211110A-06-12	M12x1,5		61	52,5	A+B-17,5	ø30	22	22
			Q00811110A-06-14	Q00211110A-06-14	M14x1,5		61	52,5	A+B-17,5	ø30	22	22
			Q00811110A-06-16	Q00211110A-06-16	M16x1,5		61	52,5	A+B-17,5	ø30	22	22
			Q00811110A-06-18	Q00211110A-06-18	M18x1,5		61	52,5	A+B-17,5	ø30	22	22
12,5	1/2"	-08	Q00811110A-08-14	Q00211110A-08-14	M14x1,5		65,2	54	A+B-21,8	ø38	27	27
			Q00811110A-08-16	Q00211110A-08-16	M16x1,5		66,2	55	A+B-21,8	ø38	27	27
			Q00811110A-08-18	Q00211110A-08-18	M18x1,5		65,2	54	A+B-21,8	ø38	27	27
			Q00811110A-08-22	Q00211110A-08-22	M22x1,5		66,2	55	A+B-21,8	ø38	27	27
			Q00811110A-08-26	Q00211110A-08-26	M26x1,5		66,2	55	A+B-21,8	ø38	27	27

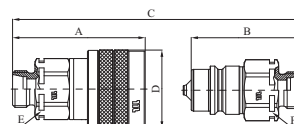
Q00811120A - Q00211120A

METRIC TERMINATION ENDS TO ISO 8434-1 S SERIES

ROSCA MÉTRICA PARA ISO 8434-1 SERIE S

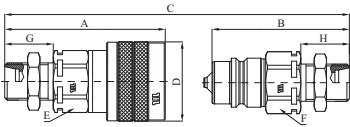
METRISCHE ANSCHLÜSSE NACH ISO 8434-1 SERIE S

TERMINALI METRICI A NORMA ISO 8434-1 SERIE S



SIZE			PART NUMBER			THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling			A	B	C	D	E	F
10	3/8"	-06	Q00811120A-06-16	Q00211120A-06-16	M16x1,5		62	53,5	A+B-17,5	ø30	22	22
			Q00811120A-06-18	Q00211120A-06-18	M18x1,5		62	53,5	A+B-17,5	ø30	22	22
12,5	1/2"	-08	Q00811120A-08-18	Q00211120A-08-18	M18x1,5		66,2	55	A+B-21,8	ø38	27	27
			Q00811120A-08-20	Q00211120A-08-20	M20x1,5		66,2	55	A+B-21,8	ø38	27	27
			Q00811120A-08-24	Q00211120A-08-24	M24x1,5		68,2	57	A+B-21,8	ø38	27	27

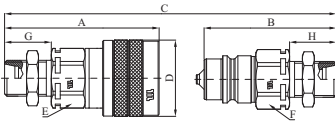
ISO A POPPET VALVES - TERMINATION ENDS



Q00811770B - Q00211770B

METRIC TERMINATION ENDS TO ISO 8434-1 BULKHEAD L SERIES
 ROSCA MÉTRICA PARA ISO 8434-1 PASATABIQUE SERIE L
 METRISCHE ANSCHLÜSSE NACH ISO 8434-1 SCHOTT SERIE L
 TERMINALI METRICI A NORMA ISO 8434-1 SERIE L PASSAPARETE

SIZE			PART NUMBER		THREADS	DIMENSIONS mm							
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F	G	H
10	3/8"	-06	Q00811770B-06-12	Q00211770B-06-12	M12x1,5	76	67,5	A+B-17,5	ø30	22	22	25	25
			Q00811770B-06-14	Q00211770B-06-14	M14x1,5	75	66,5	A+B-17,5	ø30	22	22	25	25
			Q00811770B-06-16	Q00211770B-06-16	M16x1,5	75	66,5	A+B-17,5	ø30	22	22	26	26
			Q00811770B-06-18	Q00211770B-06-18	M18x1,5	75	66,5	A+B-17,5	ø30	22	22	26	26
12,5	1/2"	-08	Q00811770B-08-14	Q00211770B-08-14	M14x1,5	80,2	69	A+B-21,8	ø38	27	27	25	25
			Q00811770B-08-16	Q00211770B-08-16	M16x1,5	80,2	69	A+B-21,8	ø38	27	27	26	26
			Q00811770B-08-18	Q00211770B-08-18	M18x1,5	80,2	69	A+B-21,8	ø38	27	27	26	26
			Q00811770B-08-22	Q00211770B-08-22	M22x1,5	81,2	70	A+B-21,8	ø38	27	27	27	27
			Q00811770B-08-26	Q00211770B-08-26	M26x1,5	82,2	71	A+B-21,8	ø38	30	30	28	28



Q00811870B - Q00211870B

METRIC TERMINATION ENDS TO ISO 8434-1 BULKHEAD S SERIES
 ROSCA MÉTRICA PARA ISO 8434-1 PASATABIQUE SERIE S
 METRISCHE ANSCHLÜSSE NACH ISO 8434-1 SCHOTT SERIE S
 TERMINALI METRICI A NORMA ISO 8434-1 SERIE S PASSAPARETE

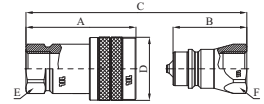
SIZE			PART NUMBER		THREADS	DIMENSIONS mm							
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F	G	H
10	3/8"	-06	Q00811870B-06-16	Q00211870B-06-16	M16x1,5	76	67,5	A+B-17,5	ø30	22	22	27	27
			Q00811870B-06-18	Q00211870B-06-18	M18x1,5	76	67,5	A+B-17,5	ø30	22	22	27	27
12,5	1/2"	-08	Q00811870B-08-18	Q00211870B-08-18	M18x1,5	81,2	70	A+B-21,8	ø38	27	27	27	27
			Q00811870B-08-20	Q00211870B-08-20	M20x1,5	81,2	70	A+B-21,8	ø38	27	27	27	27
			Q00811870B-08-24	Q00211870B-08-24	M24x1,5	83,2	72	A+B-21,8	ø38	27	27	29	29

ISO A POPPET VALVES - TERMINATION ENDS

NPT

Q00811341A - Q00211341A

NPTF TERMINATION ENDS TO ANSI B 1.20.3
 ROSCA NPTF PARA ANSI B 1.20.3
 NPTF ANSCHLÜSSE NACH ANSI B 1.20.3
 TERMINALI NPTF A NORMA ANSI B 1.20.3

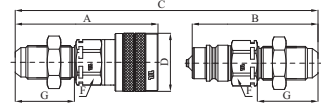


SIZE			PART NUMBER		THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
6,3	1/4"	-04	Q00811341A-04-04	Q00211341A-04-04	1/4" NPTF	48,8	34,5	A+B-14,2	ø24	17	17
10	3/8"	-06	Q00811341A-06-06	Q00211341A-06-06	3/8" NPTF	57,8	40	A+B-17,5	ø30	22	22
12,5	1/2"	-08	Q00811341A-08-08	Q00211341A-08-08	1/2" NPTF	67	45	A+B-21,8	ø38	27	27
20	3/4"	-12	Q00811341A-12-12	Q00211341A-12-12	3/4" NPTF	83,5	56,5	A+B-26,7	ø45	34	34
25	1"	-16	Q00811341A-16-16	Q00211341A-16-16	1" NPTF	97,9	64,5	A+B-32,7	ø52	41	41
31,5	1.1/4"	-20	Q00811341A-20-20	Q00211341A-20-20	1.1/4" NPTF	118	75	A+B-43	ø69	50	50
40	1.1/2"	-24	Q00811341A-24-24	Q00211341A-24-24	1.1/2" NPTF	133	84	A+B-49	ø83	60	60

SAE

Q00811230A - Q00211230A

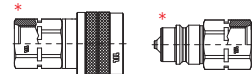
SAE TERMINATION ENDS TO ISO 8434-2 BULKHEAD
 ROSCA SAE PARA ISO 8434-2 PASATABIQUE
 SAE ANSCHLÜSSE NACH ISO 8434-2 SCHOTT
 TERMINALI SAE A NORMA ISO 8434-2 PASSAPARETE



SIZE			PART NUMBER		THREADS	DIMENSIONS mm						
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F	G
12,5	1/2"	-08	Q00811230A-08-08	Q00211230A-08-08	3/4"-16 UNF	91,8	80,6	A+B-21,8	ø38	27	27	36,6
			Q00811230A-08-10	Q00211230A-08-10	7/8"-14 UNF	95,3	84,1	A+B-21,8	ø38	27	27	40,1

Q00811301A - Q00211301A

SAE TERMINATION ENDS TO SAE J1926-1
 ROSCA SAE PARA SAE J1926-1
 SAE ANSCHLÜSSE NACH SAE J1926-1
 TERMINALI SAE A NORMA SAE J1926-1



* Male and female in two parts / Macho y hembra en dos partes
 Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.

SIZE			PART NUMBER		THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
10	3/8"	-06	Q00811301A-06-06*	Q00211301A-06-06*	9/16"-18 UNF	64,5	56	A+B-17,5	ø30	22	22
12,5	1/2"	-08	Q00811301A-08-08	Q00211301A-08-08	3/4"-16 UNF	67	45	A+B-21,8	ø38	27	27
			Q00811301A-08-10	Q00211301A-08-10	7/8"-14 UNF	69	50	A+B-21,8	ø38	27	27

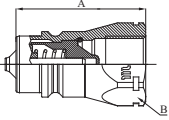
* Male and female in two parts / Macho y hembra en dos partes / Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.

ISO A SHIELDED POPPET VALVES - TERMINATION ENDS

BSP

Q00411041A

BSP TERMINATION ENDS TO DIN 3852 X TYPE
ROSCA BSP PARA DIN 3852 TIPO X
BSP ANSCHLÜSSE NACH DIN 3852 FORM X
TERMINALI BSP A NORMA DIN 3852 FORMA X



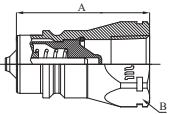
SIZE			PART NUMBER	THREADS	DIMENSIONS mm	
mm	inch	dash	Male Coupling		A	B
12,5	1/2"	-08	Q00411041A-08-08	1/2"	47	27

* For more information, please contact R&D Q.Safe / Para más información, por favor contacte con R&D Q.Safe
Für weitere Informationen bitte die Q.Safe Entwicklungsabteilung kontaktieren / Per maggiori informazioni, contattare la divisione R&D Q.Safe.

NPTF

Q00411341A

NPTF TERMINATION ENDS TO ANSI B 1.20.3
ROSCA NPTF PARA ANSI B 1.20.3
NPTF ANSCHLÜSSE NACH ANSI B 1.20.3
TERMINALI NPTF A NORMA ANSI B 1.20.3



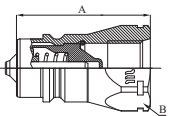
SIZE			PART NUMBER	THREADS	DIMENSIONS mm	
mm	inch	dash	Male Coupling		A	B
12,5	1/2"	-08	Q00411341A-08-08	1/2" NPTF	47	27

* For more information, please contact R&D Q.Safe / Para más información, por favor contacte con R&D Q.Safe
Für weitere Informationen bitte die Q.Safe Entwicklungsabteilung kontaktieren / Per maggiori informazioni, contattare la divisione R&D Q.Safe.

SAE

Q00411301A

SAE TERMINATION ENDS TO SAE J1926-1
ROSCA SAE PARA SAE J1926-1
SAE ANSCHLÜSSE NACH SAE J1926-1
TERMINALI SAE A NORMA SAE J1926-1



SIZE			PART NUMBER	THREADS	DIMENSIONS mm	
mm	inch	dash	Male Coupling		A	B
12,5	1/2"	-08	Q00411301A-08-08	3/4" - 16 UNF	47	27

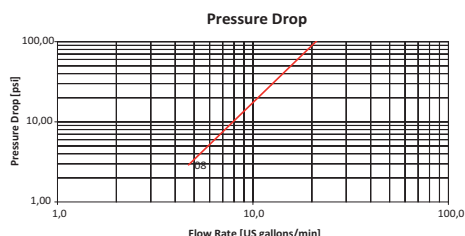
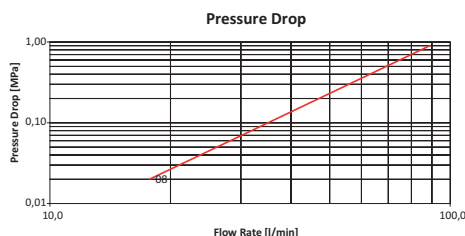
* For more information, please contact R&D Q.Safe / Para más información, por favor contacte con R&D Q.Safe
Für weitere Informationen bitte die Q.Safe Entwicklungsabteilung kontaktieren / Per maggiori informazioni, contattare la divisione R&D Q.Safe.

ISO A BALL VALVES



SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	CONNECTION EFFORT	OIL SPILLAGE Connection/ Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	L/min.	US GPM	N	lb.	cc.	cubic inch	Male		Female		M+F		
											MPa	PSI	MPa	PSI	MPa	PSI	
12,5	1/2"	-08	21	3045	47	12,4	65	144	1,6	0,098	85	12325	100	14500	150	21750	Not allowed



Simple connection and disconnection by pulling back the sleeve ■ Positive, quick connection of the male into the female by the latching ball system ■ Shut-off by ball valve ■ High resistant materials and hardened male and sleeve to withstand the brinelling effect ■ Interchangeability according to ISO 7241-1 series A

Conexión y desconexión tirando del casquillo ■ Conexión rápida y positiva del macho en la hembra mediante el sistema de bola de cierre ■ Totalmente intercambiable con los acoplamientos de la válvula de punzón estándar ■ Espiga y casquillo endurecido para resistir el efecto salmuera que efectúan las bolas al fijarse bajo presión ■ Completamente intercambiable de acuerdo con la norma ISO 7241-1 serie A

Einfacher Anschluss und Trennung durch Zurückziehen der Hülse ■ Schnelle Verbindung mit Kugleinrastsystem ■ Schließen durch Kugelventil ■ Hochwertige Werkstoffe verhindern Standmarkenbildung ■ Austauschbarkeit nach ISO 7241-1 Serie A

Connessione e disconnessione mediante arretramento della ghiera ■ Bloccaggio tra maschio e femmina garantito da un elevato numero di sfere metalliche ■ Sistema di tenuta mediante valvola sferica ■ Materiali ad alta resistenza con maschio e ghiera trattati termicamente per garantire un'elevata resistenza all'effetto brinelling ■ Intercambiabilità secondo norma ISO-7241-1 parte A

GB

MATERIAL:

Female couplings in steel with some hardened areas in correspondence to the most stressed points. Male couplings in high grade carbon steel. Springs in C98 steel, seals in NBR (others materials on request) and Back-up Ring in PTFE

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C

(for other temperatures, the coupling may be assembled with the specific seals)

SAFETY FACTOR:

1:4 for dynamic pressures and 1:2 for static ones

IMPULSE PRESSURES:

100.000 cycles at 133% of the rated one (freq. 1Hz)

TEST SPECIFICATIONS:

ISO 7241-2

ES

MATERIAL:

El acoplamiento de hembra y macho en acero, con algunas zonas endurecidas, que corresponden a los puntos de más sobrecarga

Muelles en acero C98, juntas en NBR (otros materiales disponibles bajo solicitud) y anillo de soporte en PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C

(para otras temperaturas, el acoplamiento puede ser montado con juntas específicas)

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

PRESIONES DE IMPULSO:

100.000 ciclos a 133% de la nominal (frec. 1Hz)

CARACTERÍSTICAS DE LA PRUEBA:

ISO 7241-2

D

MATERIAL:

Muffen aus Stahl mit einigen gehärteten Zonen im Bereich der am meisten beanspruchten Punkte. Stecker aus hochlegiertem Carbonstahl. Federn aus C98-Stahl, NBR-Dichtungen (andere Materialien auf Anfrage) und PTFE-Stützring

BETRIEBSTEMPERATUR:

-22°F bis +230°F -30°C bis +110°C

(für andere Temperaturen können die Kupplungen mit spezifischen Dichtungen ausgestattet werden)

SICHERHEITSFAKTOR:

1:4 für dynamischen und 1:2 für statischen Druck

DRUCKIMPULSE:

100.000 Zyklen bei 133% des angegebenen Druckes (Frequenz 1Hz)

PRÜFUNGSBEDINGUNGEN:

ISO 7241-2

IT

MATERIALI:

Innesto femmina in acciaio con parti sollecitate trattate termicamente ed innesto maschio in acciaio con alto tenore di carbonio temprato ad induzione. Molle in acciaio C98. Guarnizioni in NBR (altri materiali su richiesta) e anelli anti-estrusione in PTFE

TEMPERATURE DI ESERCIZIO:

-22°F a +230°F -30°C a +110°C

(per temperature diverse, l'innesto rapido viene fornito con guarnizioni appropriate)

FATTORE DI SICUREZZA:

1:4 per pressioni dinamiche e 1:2 per pressioni statiche

RESISTENZA A PRESSIONI PULSANTI:

100.000 cicli a 1Hz al 133% della pressione di esercizio

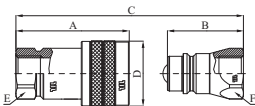
TEST: ISO-7241-2

ISO A BALL VALVES - TERMINATION ENDS

BSP

Q00911041A - Q00310041A

BSP TERMINATION ENDS TO DIN 3852 X TYPE
ROSCA BSP PARA DIN 3852 TIPO X
BSP ANSCHLÜSSE NACH DIN 3852 FORM X
TERMINALI BSP A NORMA DIN 3852 FORMA X

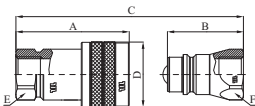


SIZE			PART NUMBER		THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
12,5	1/2"	-08	Q00911041A-08-08	Q00310041A-08-08	1/2"	68,2	46,2	A+B-21,8	ø38	27	27

NPT

Q00911341A - Q00310341A

NPT TERMINATION ENDS TO ANSI B 1.20.3
ROSCA NPT PARA ANSI B 1.20.3
NPT ANSCHLÜSSE NACH ANSI B 1.20.3
TERMINALI NPT A NORMA ANSI B 1.20.3



SIZE			PART NUMBER		THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
12,5	1/2"	-08	Q00911341A-08-08	Q00310341A-08-08	1/2" NPTF	68,2	46,2	A+B-21,8	ø38	27	27



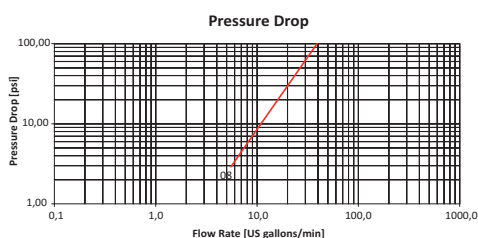
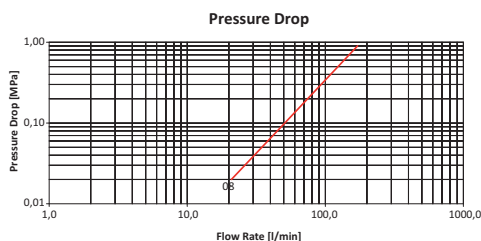
Q.Safe

MQS-AP

ISO A CONNECTABLE UNDER PRESSURE

SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	CONNECTION EFFORT	OIL SPILLAGE Connection/ Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	L/min.	US GPM	N	lb.	cc.	cubic inch	Male		Female		M+F		
											MPa	PSI	MPa	PSI	MPa	PSI	
12,5	1/2"	-08	30	4350	75	19,8	80	178	1,8	0,110	120	17400	125	18125	160	23200	Only connection
										with 0 MPa of pressure							



Connectable under pressure thanks to a frontal microvalve ■ Connection and disconnection is possible by pulling back the sleeve ■ Positive, quick connection of the male into the female by the latching ball system ■ Shut-off by poppet valve ■ High resistant materials ■ Connectability at the maximum working pressure ■ Interchangeable according to ISO 7241 series A

Conectable bajo presión gracias a una microválvula frontal ■ Es posible conectarlos y desconectarlos tirando del casquillo ■ Conexión rápida y positiva del macho en la hembra mediante el sistema de bola de cierre ■ La junta está asegurada, en alta o baja presión, por una válvula especial ■ Posible conexión con presión de trabajo máxima ■ Válvula de punzón endurecida ■ Completamente intercambiable de acuerdo con la norma ISO 7241 serie A

Unter Druck anschließbar dank Mikroventil vorne ■ Anschluss und Trennung erfolgen durch Zurückziehen der Hülse ■ Schnelle Verbindung mit Kugeleinrastsystem ■ Schließen durch Tellerventil ■ Widerstandsfähige Werkstoffe ■ Selbst unter Höchstdruck anschließbar ■ Austauschbar nach ISO 7241 Serie A

Innestabile in pressione mediante micro-valvola frontale ■ Connessione e disconnessione mediante arretramento della ghiera ■ Bloccaggio tra maschio e femmina garantito da un elevato numero di sfere metalliche ■ Sistema di tenuta mediante valvola sporgente ■ Materiali ad alta resistenza ■ Connessione fino alla massima pressione di esercizio ■ Intercambiabilità secondo norma ISO-7241-1 parte A

TECHNICAL INFO

GB

MATERIAL:

Female couplings in steel with some hardened areas in correspondence to the most stressed points. Male couplings in high grade carbon steel. Springs in C98 steel, seals in NBR and polyurethane (others materials on request) and Back-up Ring in PTFE

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C

(for other temperatures the quick coupling is assembled with specific seals)

SAFETY FACTOR:

1:4 for dynamic pressures and 1:2 for static ones

IMPULSE PRESSURES:

It withstands 100.000 cycles of impulse pressure, at 133% of the rated one (freq. 1Hz)

TEST SPECIFICATIONS:

ISO 7241-2

ES

MATERIAL:

El acoplamiento de hembra y macho en acero, con algunas zonas endurecidas, que corresponden a los puntos de más sobrecarga

Muelles en acero C98, juntas en NBR (otros materiales disponibles bajo solicitud) y anillo de soporte en PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C

(para otras temperaturas, el acoplamiento puede ser montado con juntas específicas)

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

PRESIONES DE IMPULSO:

100.000 ciclos a 133% de la nominal (frec. 1Hz)

CARACTERÍSTICAS DE LA PRUEBA:

ISO 7241-2

D

MATERIAL:

Muffe aus Stahl mit einigen gehärteten Zonen im Bereich der am meisten beanspruchten Punkte. Stecker aus hochlegiertem Carbonstahl. Federn aus C98-Stahl, NBR- und Polyurethan-Dichtungen (andere Materialien auf Anfrage) und PTFE-Stützring

BETRIEBSTEMPERATUR:

-22°F bis +230°F -30°C bis +110°C

(für andere Temperaturen werden die Schnell-Kupplungen mit spezifischen Dichtungen ausgestattet)

SICHERHEITSAKTOR:

1:4 für dynamischen und 1:2 für statischen Druck

DRUCKIMPULSE:

Widerstandsfähigkeit 100.000 Zyklen bei 133% des angegebenen Druckes (Frequenz 1Hz)

PRÜFUNGSBEDINGUNGEN:

ISO 7241-2

IT

MATERIALE:

Innesto femmina in acciaio con parti sollecitate trattate termicamente ed innesto maschio in acciaio con alto tenore di carbonio temprato ad induzione. Molle in acciaio C98. Guarnizioni in NBR e Poliuretano (altri materiali su richiesta) ed anelli anti-estrusione in PTFE

TEMPERATURE DI ESERCIZIO:

-22°F a +230°F -30°C a +110°C

(per temperature diverse, l'innesto rapido viene fornito con guarnizioni appropriate)

FATTORE DI SICUREZZA:

1:4 per pressioni dinamiche e 1:2 per pressioni statiche

RESISTENZA A PRESSIONI PULSANTI:

100.000 cicli a 1Hz al 133% della pressione di esercizio

TEST:

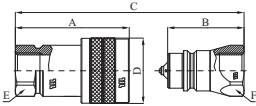
ISO-7241-2

ISO A CONNECTABLE UNDER PRESSURE - TERMINATION ENDS**BSP****Q01011041A - Q00611041A****BSP TERMINATION ENDS TO DIN 3852 X TYPE**

ROSCA BSP PARA DIN 3852 TIPO X

BSP-ENDSTÜCKE NACH DIN 3852 FORM X

TERMINALI BSP A NORMA DIN 3852 FORMA X



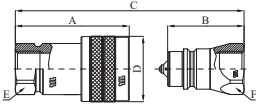
SIZE			PART NUMBER		THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
12,5	1/2"	-08	Q01011041A-08-08	Q00611041A-08-08	1/2"	67	45	A+B-21,8	ø38	27	27

NPT**Q01011341A - Q00611341A****NPT TERMINATION ENDS TO ANSI B 1.20.3**

ROSCA NPT PARA ANSI B 1.20.3

NPT-ENDSTÜCKE NACH ANSI B 1.20.3

TERMINALI NPT A NORMA ANSI B 1.20.3



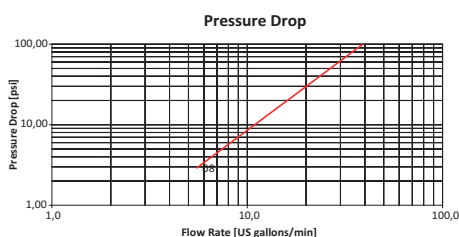
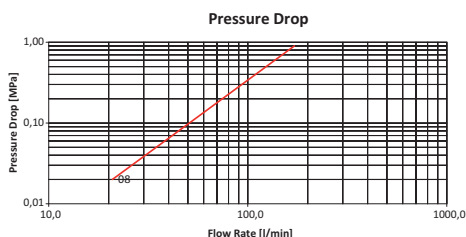
SIZE			PART NUMBER		THREAD	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
12,5	1/2"	-08	Q01011341A-08-08	Q00611341A-08-08	1/2" NPTF	67	45	A+B-21,8	ø38	27	27



ISO A FEMALE COUPLING CONNECTABLE WITH MALE UNDER PRESSURE

SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	CONNECTION EFFORT	OIL SPILLAGE Connection/ Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	L/min.	US GPM	N	lb.	cc.	cubic inch	Female		M+F		
											MPa	PSI	MPa	PSI	
12,5	1/2"	-08	30	4350	75	19,8	80	178	1,8	0,110	125	18125	125	18125	Allowed only connection; with male under pressure



Connectable with male ISO A under pressure ■ High working pressure 30 MPa ■ Simple connection and disconnection by pulling back the sleeve ■ No shut-off, Manuli mechanical valve block system ■ Installations on hoses, pipe and direct to port ■ Wide range of termination end ■ Interchangeable according to ISO 7241-1 part A

Conectable con macho ISO A baja presión ■ Alta presión de trabajo 30MPa ■ Conexión y desconexión simple tirando del casquillo ■ Sistema de válvula de bloqueo Manuli ■ Instalación de mangueras y tubo rígido y directo a la rosca ■ Amplia gama de rasas ■ Intercambiable con la norma ISO 7241-1 parte A

Verbindung mit ISO A Stecker auch unter Druck ■ Arbeitsdruck bis zu 30 MPa ■ Einfaches Verbinden und Trennen durch Rückzug der Hülse ■ Manuli Ventilblockiersystem verhindert shut-off Schließeffekt ■ Montage an Schläuchen, Rohren und direkt an Gehäuseanschlüssen ■ Viele verfügbare Anschlussvarianten ■ Austauschbar gem. ISO 7241-1 Teil A

Innestabile con maschio ISO A 1/2" in pressione ■ Elevata W.P. 30 MPa ■ Facile Innesto/disinnesto arretrando la ghiera ■ Sistema intero Manuli di blocco meccanico delle valvole per evitarne la chiusura in presenza di alta portate ed inversioni di portata ■ Applicabile su tubi flessibili, tubi rigidi e direttamente sui ports del distributore ■ Ampia gamma di terminali filettati ■ Intercambiabilità secondo la ISO 7241-1 parte A

GB**MATERIAL:**

Female couplings in steel with some hardened areas in correspondence to the most stressed points. Carbonitrited valve, and sleeve, springs in C98 steel, seals in NBR (others materials on request) and Back-up Ring in PTFE

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C
(for other temperatures the quick coupling is assembled with specific seals)

SAFETY FACTOR:

1:4 for dynamic pressures and 1:2 for static ones

IMPULSE PRESSURES:

500.000 cycles (connected and disconnected conditions) at 120% of the rated one (freq.1Hz)

TEST SPECIFICATIONS:

ISO 7241-2

D**MATERIAL:**

Muffe aus Stahl mit einigen gehärteten Zonen im Bereich der am meisten beanspruchten Punkte. Carbonitriertes Ventil, Mikroventil und Hülse, Federn aus C98-Stahl, NBR-Dichtungen (andere Materialien auf Anfrage) und PTFE-Stützring

BETRIEBSTEMPERATUR:

-22°F bis +230°F -30°C bis +110°C
(für andere Temperaturen werden die Schnell-Kupplungen mit spezifischen Dichtungen ausgestattet)

SICHERHEITSFAKTOR:

1:4 für dynamischen und 1:2 für statischen Druck

DRUCKIMPULSE:

500.000 Zyklen (gekuppelt wie auch getrennt) bei 120% des angegebenen Druckes (Freq. 1 Hz)

PRÜFUNGSBEDINGUNGEN:

ISO 7241-2

ES**MATERIAL:**

El acoplamiento de hembra y macho en acero, con algunas zonas endurecidas, que corresponden a los puntos de más sobrecarga. Casquillo carbonitrado, muelles en acero C98, juntas en NBR (otros materiales disponibles bajo solicitud) y anillo de soporte en PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C
(para otras temperaturas, el acoplamiento puede ser montado con juntas específicas)

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

PRESIONES DE IMPULSO:

500.000 ciclos (en condiciones de conectado y desconectado) a 1Hz y a 120% de la presión de trabajo

CARACTERÍSTICAS DE LA PRUEBA:

ISO 7241-2

IT**MATERIALI:**

innesto femmina in acciaio con parti sollecitate trattate termicamente. Ghiera e valvole carbonitrate. Molle in acciaio C98. Guarnizioni in NBR (altri materiali su richiesta) ed anelli anti-estrusione in PTFE

TEMPERATURE DI ESERCIZIO:

-22°F a +230°F -30°C a +110°C
(per temperature diverse, l'innesto rapido viene fornito con guarnizioni appropriate)

FATTORE DI SICUREZZA:

1:4 per pressioni dinamiche e 1:2 per pressioni statiche

RESISTENZA A PRESSIONI PULSANTI:

500.000 cicli (sia accoppiato che disaccoppiato) a 1Hz al 120% della pressione di esercizio

TEST:

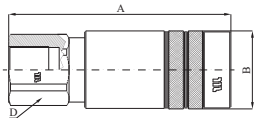
ISO-7241-2

ISO A FEMALE COUPLING CONNECTABLE WITH MALE UNDER PRESSURE

BSP

Q01111041A

BSP TERMINATION ENDS TO DIN 3852 X TYPE
ROSCA BSP PARA DIN 3852 TIPO X
BSP ANSCHLÜSSE NACH DIN 3852 FORM X
TERMINALI BSP A NORMA DIN 3852 FORMA X

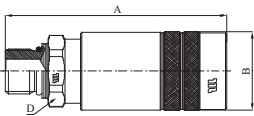


SIZE			PART NUMBER	THREADS	DIMENSIONS mm		
mm	inch	dash	Female Coupling		A	B	D
12,5	1/2"	-08	Q01111041A-08-08	1/2"	91,7	ø38,3	32

METRIC

Q01111190A

METRIC TERMINATION ENDS TO ISO 6149-2
ROSCA MÉTRICA PARA ISO 6149-2
METRISCHE ANSCHLÜSSE NACH ISO 6149-2
TERMINALI METRICI A NORMA ISO 6149-2



SIZE			PART NUMBER	THREADS	DIMENSIONS mm		
mm	inch	dash	Female Coupling		A	B	D
12,5	1/2"	-08	Q01111190A-08-22	M22x1,5	91,2	ø38,3	32



Q.Safe

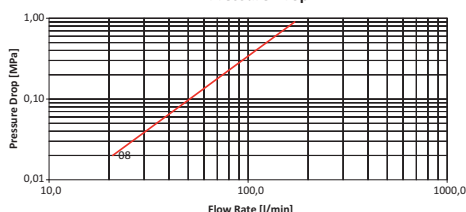
MQS-AB

ISO A FEMALE COUPLING CONNECTABLE WITH BOTH PARTS UNDER PRESSURE

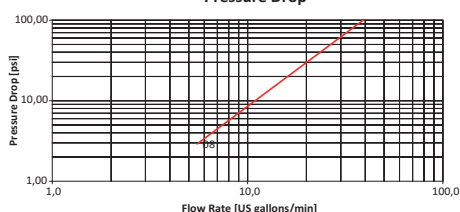
SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	CONNECTION EFFORT	OIL SPILLAGE Connection/ Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	L/min.	US GPM	N	lb.	cc.	cubic inch	Female		M+F		Allowed only connection, with male and female under pressure
											MPa	PSI	MPa	PSI	
12,5	1/2"	-08	30	4350	75	19,8	80	178	1,8	0,110	125	18125	125	18125	
									with 0 MPa of pressure						

Pressure Drop



Pressure Drop



Connectable with male (ISO A) and female under pressure ■ High working pressure 30 MPa ■ Simple connection and disconnection by pulling back the sleeve ■ No shut-off, Manuli mechanical valve block system ■ Installations on hoses, pipe and direct to port ■ Wide range of termination end ■ Interchangeable according to ISO 7241-1 part A

Conectable con presión en ambas partes ■ Presión de trabajo 30 MPa ■ Fácil conexión y desconexión tirando hacia atrás el casquillo ■ Sistema interno Manuli de bloques mecánico de la válvula para evitar le cierre por la presión ■ Aplicable en tubos flexibles, tubo rígido y directamente al sistema ■ Amplia gama de roscas ■ Intercambiable según ISO 7241-1 parte A

Verbindung mit Stecker und Muffe unter Druck ■ Arbeitsdruck bis zu 30 MPa ■ Einfaches Verbinden und Trennen durch Rückzug der Hülse ■ Manuli Ventilblockiersystem verhindert shut-off Schließeffekt ■ Montage an Schläuchen, Rohren und direkt an Gehäuseanschlüssen ■ Viele verfügbare Anschlussvarianten ■ Austauschbar gem. ISO 7241-1 Teil A

Innestabile con maschio (ISO A 1/2") e femmina in pressione ■ Elevata W.P. 30 MPa ■ Facile Innesto/disinnesto arretrando la ghiera ■ Sistema intero Manuli di blocco meccanico delle valvole per evitarne la chiusura in presenza di alta portate ed inversioni di portata ■ Applicabile su tubi flessibili, tubi rigidi e direttamente sui ports del distributore ■ Ampia gamma di terminali filettati ■ Intercambiabilità secondo la ISO 7241-1 parte A

TECHNICAL INFO

GB

MATERIAL:

Female couplings in steel with some hardened areas in correspondence to the most stressed points. Carbonitrided valves and sleeve, springs in C98 steel, seals in NBR and polyurethane (others materials on request) and Back-up Ring in PTFE

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C

(for other temperatures the quick coupling is assembled with specific seals)

SAFETY FACTOR:

1:4 for dynamic pressures and 1:2 for static ones

IMPULSE PRESSURES:

500.000 cycles (connected and disconnected conditions) at 120% of the rated one (freq.1Hz)

TEST SPECIFICATIONS:

ISO 7241-2

ES

MATERIAL:

El acoplamiento de hembra y macho en acero, con algunas zonas endurecidas, que corresponden a los puntos de más sobrecarga. Casquillo carbonitrado, muelles en acero C98, juntas en NBR (otros materiales disponibles bajo solicitud) y anillo de soporte en PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C

(para otras temperaturas, el acoplamiento puede ser montado con juntas específicas)

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

PRESIONES DE IMPULSO:

500.000 ciclos (en condiciones de conectado y desconectado) a 1Hz y a 120% de la presión de trabajo

CARACTERÍSTICAS DE LA PRUEBA:

ISO 7241-2

D

MATERIAL:

Muffe aus Stahl mit einigen gehärteten Zonen im Bereich der am meisten beanspruchten Punkte. Carbonitriertes Ventil, Mikroventil und Hülse, Federn aus C98-Stahl, NBR- und Polyurethan-Dichtungen (andere Materialien auf Anfrage) und PTFE-Stützring

BETRIEBSTEMPERATUR:

-22°F bis +230°F -30°C bis +110°C

(für andere Temperaturen werden die Schnell-Kupplungen mit spezifischen Dichtungen ausgestattet)

SICHERHEITSAKTOR:

1:4 für dynamischen und 1:2 für statischen Druck

DRUCKIMPULSE:

500.000 Zyklen (gekuppelt wie auch getrennt) bei 120% des angegebenen Druckes (Freq. 1 Hz)

PRÜFUNGSBEDINGUNGEN:

ISO 7241-2

IT

MATERIALI:

innesto femmina in acciaio con parti sollecitate trattate termicamente. Chiavi e valvole carbonitrate. Molle in acciaio C98. Guarnizioni in NBR e Poliuretano (altri materiali su richiesta) ed anelli anti-estrusione in PTFE

TEMPERATURE DI ESERCIZIO:

-22°F a +230°F -30°C a +110°C

(per temperature diverse, l'innesto rapido viene fornito con guarnizioni appropriate)

FATTORE DI SICUREZZA:

1:4 per pressioni dinamiche e 1:2 per pressioni statiche

RESISTENZA A PRESSIONI PULSANTI:

500.000 cicli (sia accoppiato che disaccoppiato) a 1Hz al 120% della pressione di esercizio

TEST:

ISO-7241-2

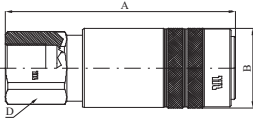
ISO A FEMALE COUPLING CONNECTABLE WITH BOTH PARTS UNDER PRESSURE

BSP**Q01211041A****BSP TERMINATION ENDS TO DIN 3852 X TYPE**

ROSCA BSP PARA DIN 3852 TIPO X

BSP ANSCHLÜSSE NACH DIN 3852 FORM X

TERMINALI BSP A NORMA DIN 3852 FORMA X



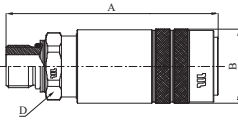
SIZE			PART NUMBER	THREADS	DIMENSIONS mm		
mm	inch	dash	Female Coupling		A	B	D
12,5	1/2"	-08	Q01211041A-08-08	1/2"	93,6	ø38,3	32

METRIC**Q01211190A****METRIC TERMINATION ENDS TO ISO 6149-2**

ROSCA MÉTRICA PARA ISO 6149-2

METRISCHE ANSCHLÜSSE NACH ISO 6149-2

TERMINALI METRICI A NORMA ISO 6149-2



SIZE			PART NUMBER	THREADS	DIMENSIONS mm		
mm	inch	dash	Female Coupling		A	B	D
12,5	1/2"	-08	Q01211190A-08-22	M22x1,5	93,1	ø38,3	32

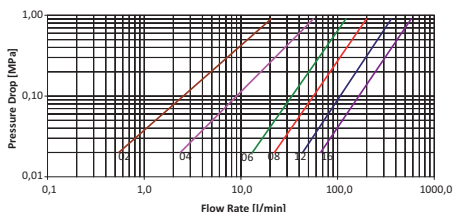
ISO B POPPET VALVES



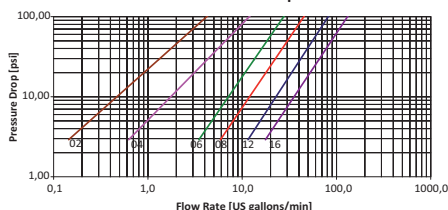
SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	CONNECTION EFFORT	OIL SPILLAGE Connection/ Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	L/min.	US GPM	N	lb.	cc.	cubic inch	Male		Female		M+F		
											MPa	PSI	MPa	PSI	MPa	PSI	
5	1/8"	-02	50	7250	5	1,3	40	89	0,5	0,031	210	30450	270	39150	220	31900	Not allowed
6,3	1/4"	-04	40	5800	16	4,2	40	89	0,8	0,049	180	26100	190	27550	165	23925	Not allowed
10	3/8"	-06	35	5075	51	13,5	40	89	1,5	0,092	145	21025	160	23200	160	23200	Not allowed
12,5	1/2"	-08	35	5075	84	22,2	70	156	2,5	0,153	145	21025	145	21025	160	23200	Not allowed
20	3/4"	-12	25	3625	156	41,2	90	200	8,5	0,519	100	14500	100	14500	125	18125	Not allowed
25	1"	-16	25	3625	246	65,0	90	200	15	0,916	100	14500	100	14500	120	17400	Not allowed

Pressure Drop



Pressure Drop



Reference series for all industrial applications ■ Simple connection and disconnection by pulling back the sleeve ■ Positive, quick connection of the male into the female by the latching ball system ■ Shut-off by poppet valve ■ High resistant materials ■ Interchangeable according to ISO 7241-1 series B

La serie de referencias para todas las aplicaciones industriales ■ Conexión y desconexión simple tirando del casquillo ■ Conexión rápida y positiva del macho en la hembra mediante el sistema de bola de cierre ■ Cerrado por la válvula de punzón proporciona una estanqueidad hidráulica eficaz ■ Válvula de punzón endurecida para aumentar la vida de servicio ■ Completamente intercambiable de acuerdo con la norma ISO 7241-1 serie B

Referenzserie für alle Industrieanwendungen ■ Einfacher Anschluss und Trennung durch Zurückziehen der Hülse ■ Schnelle Verbindung mit Kugeleinrastsystem ■ Schließen durch Tellerventil ■ Hochresistente Materialien ■ Austauschbar nach ISO 7241-1 Serie B

Serie di riferimento per il settore industriale ■ Connessione e disconnessione mediante arretramento della ghiera ■ Bloccaggio tra maschio e femmina garantito da un elevato numero di sfere metalliche ■ Occlusione mediante valvola sporgente ■ Materiali ad alta resistenza ■ Intercambiabilità secondo norma ISO-7241-1 parte B

GB

MATERIAL:

Female couplings in steel with some hardened areas in correspondence to the most stressed points. Male couplings in high grade carbon steel hardened. Springs in C98 steel, seals in NBR (others materials on request) and Back-up Ring in PTFE

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C

(for other temperatures the quick coupling is assembled with specific seals)

SAFETY FACTOR:

1:4 for dynamic pressures and 1:2 for static ones

IMPULSE PRESSURES:

It withstands 100.000 cycles of impulse pressure, at 133% of the rated one (freq. 1Hz)

TEST SPECIFICATIONS:

ISO 7241-2

ES

MATERIAL:

El acoplamiento de hembra y macho en acero, con algunas zonas endurecidas, que corresponden a los puntos de más sobrecarga. Muelles en acero C98, juntas en NBR (otros materiales disponibles bajo solicitud) y anillo de soporte en PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C

(para otras temperaturas, el acoplamiento puede ser montado con juntas específicas)

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

PRESIONES DE IMPULSO:

100.000 ciclos a 133% de la nominal (frec. 1Hz)

CARACTERÍSTICAS DE LA PRUEBA:

ISO 7241-2

D

MATERIAL:

M-Kupplungen aus Stahl mit einigen gehärteten Zonen im Bereich der am meisten beanspruchten Punkte. V-Kupplungen aus Edelhartstahl. Federn aus C98-Stahl, NBR-Dichtungen (andere Materialien auf Anfrage) und PTFE-Stützring

BETRIEBSTEMPERATUR:

-22°F bis +230°F -30°C bis +110°C

(für andere Temperaturen können die Kupplungen mit spezifischen Dichtungen ausgestattet werden)

SICHERHEITSFAKTOR:

1:4 für dynamischen Druck und 1:2 für statischen Druck

DRUCKIMPULSE:

100.000 Zyklen bei 133% des gemessenen (Frequenz 1Hz)

PRÜFUNGSBEDINGUNGEN:

ISO 7241-2

IT

MATERIALI:

Innesto femmina in acciaio con parti sollecitate trattate termicamente ed innesto maschio in acciaio con alto tenore di carbonio temprato ad induzione. Molle in acciaio C98. Guarnizioni in NBR (altri materiali su richiesta) e anelli anti-estrusione in PTFE

TEMPERATURE DI ESERCIZIO:

-22°F a +230°F -30°C a +110°C

(per temperature diverse, l'innesto rapido viene fornito con guarnizioni appropriate)

FATTORE DI SICUREZZA:

1:4 per pressioni dinamiche e 1:2 per pressioni statiche

RESISTENZA A PRESSIONI PULSANTI:

100.000 cicli a 1Hz al 133% della pressione di esercizio

TEST: ISO-7241-2

ISO B POPPET VALVES - TERMINATION ENDS

BSP

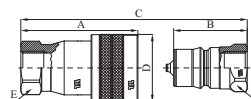
Q02411041A - Q02111041A

BSP TERMINATION ENDS TO DIN 3852 X TYPE

ROSCA BSP PARA DIN 3852 TIPO X

BSP-ENDSTÜCKE NACH DIN 3852 FORM X

TERMINALI BSP A NORMA DIN 3852 FORMA X



SIZE			PART NUMBER		THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
5	1/8"	-02	Q02411041A-02-02	Q02111041A-02-02	1/8"	48,5	30	A+B-18,7	ø22	15	14
6,3	1/4"	-04	Q02411041A-04-04	Q02111041A-04-04	1/4"	58,8	37,2	A+B-21,2	ø28	19	19
10	3/8"	-06	Q02411041A-06-06	Q02111041A-06-06	3/8"	66,2	41,5	A+B-24,4	ø35	24	22
12,5	1/2"	-08	Q02411041A-08-08	Q02111041A-08-08	1/2"	74	46,5	A+B-27,2	ø42	30	27
20	3/4"	-12	Q02411041A-12-12	Q02111041A-12-12	3/4"	91	56,5	A+B-34,2	ø52	36	34
25	1"	-16	Q02411041A-16-16	Q02111041A-16-16	1"	104	64,5	A+B-39,2	ø60	41	41

NPT

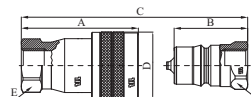
Q02411341A - Q02111341A

NPT TERMINATION ENDS TO ANSI B 1.20.3

ROSCA NPT PARA ANSI B 1.20.3

NPT-ENDSTÜCKE NACH ANSI B 1.20.3

TERMINALI NPT A NORMA ANSI B 1.20.3



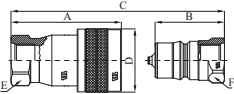
SIZE			PART NUMBER		THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
5	1/8"	-02	Q02411341A-02-02	Q02111341A-02-02	1/8" NPFT	48,5	30	A+B-18,7	ø22	15	14
6,3	1/4"	-04	Q02411341A-04-04	Q02111341A-04-04	1/4" NPFT	58,8	37,2	A+B-21,2	ø28	19	19
10	3/8"	-06	Q02411341A-06-06	Q02111341A-06-06	3/8" NPFT	66,2	41,5	A+B-24,4	ø35	24	22
12,5	1/2"	-08	Q02411341A-08-08	Q02111341A-08-08	1/2" NPFT	74	46,5	A+B-27,2	ø42	30	27
20	3/4"	-12	Q02411341A-12-12	Q02111341A-12-12	3/4" NPFT	91	56,5	A+B-34,2	ø52	36	34
25	1"	-16	Q02411341A-16-16	Q02111341A-16-16	1" NPFT	104	64,5	A+B-39,2	ø60	41	41

ISO B POPPET VALVES - TERMINATION ENDS

SAE

Q02411301A - Q02111301A

SAE TERMINATION ENDS TO SAE J1926-1
ROSCA SAE PARA SAE J1926-1
SAE ENDSTÜCKE NACH SAE J1926-1
TERMINALI SAE A NORMA SAE J1926-1



SIZE			PART NUMBER	THREADS	DIMENSIONS mm						
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
6,3	1/4"	-04	Q02411301A-04-06	Q02111301A-04-06	9/16"-18 UNF	62,2	40,6	A+B-21,2	ø28	19	19
10	3/8"	-06	Q02411301A-06-08	Q02111301A-06-08	3/4"-16 UNF	68,2	46	A+B-24,4	ø35	24	24
12,5	1/2"	-08	Q02411301A-08-08	Q02111301A-08-08	3/4"-16 UNF	74	46,5	A+B-27,2	ø42	30	27
20	3/4"	-12	Q02411301A-12-12	Q02111301A-12-12	1"1/16-12 UN	94	59,5	A+B-34,2	ø52	36	34
25	1"	-16	Q02411301A-16-16	Q02111301A-16-16	1"5/16-12 UN	104	64,5	A+B-39,2	ø60	41	41

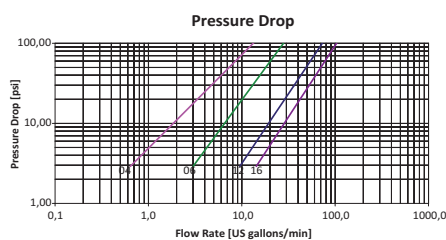
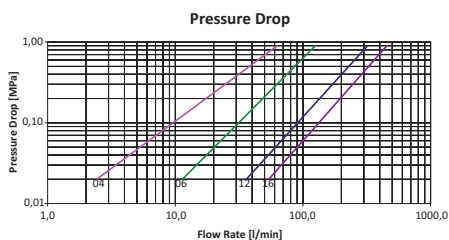
On request: ISO B with safety sleeve. For info contact R&D Q.Safe.
Bajo Pedido: ISO B con casquillo de seguridad. Para información contacte con R&D Q.Safe.
Auf Anforderung: ISO B Ausführung mit Sicherheitsschiebehülse. Für Informationen die Q.Safe Entwicklungsabteilung kontaktieren.
Su richiesta ISO B con ghiera di sicurezza. Per informazioni contattare R&D Q.safe.

STANDARD POPPET VALVES



SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	CONNECTION EFFORT	OIL SPILLAGE Connection/ Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	L/min.	US GPM	N	lb.	cc.	cubic inch	Male		Female		M+F		
6,3	1/4"	-04	35	5075	17	4,5	40	89	0,8	0,049	190	27550	190	27550	140	20300	Not allowed
10	3/8"	-06	35	5075	48	12,7	65	144	1,3	0,079	150	21750	160	23200	160	23200	Not allowed
12,5	1/2"	-08	SEE ISO SERIES A - POPPET VALVES AT PAGES 400-406														
20	3/4"	-12	25	3625	135	35,7	70	156	7,5	0,458	110	15950	100	14500	120	17400	Not allowed
25	1"	-16	25	3625	196	51,8	90	200	13	0,794	100	14500	110	15950	120	17400	Not allowed



Historical series for the agriculture market ■ Simple connection and disconnection by pulling back the sleeve ■ Positive, quick connection of the male into the female by the latching ball system ■ Shut-off by poppet valve ■ High resistant materials ■ Interchangeable with similar products available in the market (1/2" size according to ISO 7241-1 series A)

Serie histórica y muy difundida en el sector agrícola ■ Conexión y desconexión tirando del casquillo ■ Bloqueo entre macho y hembra garantizado por un elevado número de esferas metálicas ■ Válvula de punzón ■ Materiales a alta resistencia ■ Intercambiabilidad garantizada con los principales productos presentes en el mercado (dimensión 1/2" a norma ISO 7241-1 parte A)

Traditionelle Serie für die Landwirtschaft ■ Einfacher Anschluss und Trennung durch Zurückziehen der Hülse ■ Schnelle Verbindung mit Kugleinrastsystem ■ Schließen durch Tellerventil ■ Hochresistente Materialien ■ Austauschbar mit ähnlichen, auf dem Markt erhältlichen Produkten (Größe 1/2" nach ISO 7241-1 Serie A)

Serie storica e molto diffusa nel settore agricolo ■ Connessione e disconnessione mediante arretramento della ghiera ■ Bloccaggio tra maschio e femmina garantito da un elevato numero di sfere metalliche ■ Sistema di tenuta mediante valvola sporgente ■ Materiali ad alta resistenza ■ Intercambiabilità garantita con i principali prodotti presenti sul mercato (dimensione 1/2" a norma ISO 7241-1 parte A)

GB**MATERIAL:**

Female couplings in steel with some hardened areas in correspondence to the most stressed points. Male couplings in high grade carbon steel hardened. Springs in C98 steel, seals in NBR (others materials on request) and Back-up Ring in PTFE

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C

(for other temperatures the coupling is assembled with the specified seals)

SAFETY FACTOR:

1:4 for dynamic pressures and 1:2 for static ones

IMPULSE PRESSURES:

100.000 cycles at 133% of the rated one (freq. 1Hz)

TEST SPECIFICATIONS:

ISO 7241-2

ES**MATERIAL:**

El acoplamiento de hembra y macho en acero, con algunas zonas endurecidas, que corresponden a los puntos de más sobrecarga. Válvula y casquillo carbonitrados, muelles en acero C98, juntas en NBR (otros materiales disponibles bajo solicitud) y anillo de soporte en PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C

(para otras temperaturas, el acoplamiento puede ser montado con juntas específicas)

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

PRESIONES DE IMPULSO:

100.000 ciclos a 133% de la nominal (frec. 1Hz)

CARACTERÍSTICAS DE LA PRUEBA:

ISO 7241-2

D**MATERIAL:**

M-Kupplungen aus Stahl mit einigen gehärteten Zonen im Bereich der am meisten beanspruchten Punkte. V-Kupplungen aus Edelhartstahl. Carbonitriertes Ventil und Hülse, Federn aus C98-Stahl, NBR-Dichtungen (andere Materialien auf Anfrage) und PTFE-Stützring

BETRIEBSTEMPERATUR:

-22°F bis +230°F -30°C bis +110°C

(für andere Temperaturen werden die Schnell-Kupplungen mit angegebenen Dichtungen ausgestattet)

SICHERHEITSFAKTOR:

1:4 für dynamischen und 1:2 für statischen Druck

DRUCKIMPULSE:

100.000 Zyklen bei 133% des gemessenen (Frequenz 1Hz)

PRÜFUNGSBEDINGUNGEN:

ISO 7241-2

IT**MATERIALI:**

Innesto femmina in acciaio con parti sollecitate trattate termicamente ed innesto maschio in acciaio con alto tenore di carbonio temprato ad induzione. Molle in acciaio C98. Guarnizioni in NBR (altri materiali su richiesta) e anelli anti-estrusione in PTFE

TEMPERATURE DI ESERCIZIO:

-22°F a +230°F -30°C a +110°C

(per temperature diverse, l'innesto rapido viene fornito con guarnizioni appropriate)

FATTORE DI SICUREZZA:

1:4 per pressioni dinamiche e 1:2 per pressioni statiche

RESISTENZA A PRESSIONI PULSANTI:

100.000 cicli a 1Hz al 133% della pressione di esercizio

TEST: ISO-7241-2

STANDARD POPPET VALVES - TERMINATION ENDS

BSP

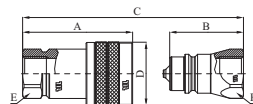
Q03211041A - Q02911041A

BSP TERMINATION ENDS TO DIN 3852 X TYPE

ROSCA BSP PARA DIN 3852 TIPO X

BSP-ENDSTÜCKE NACH DIN 3852 FORM X

TERMINALI BSP A NORMA DIN 3852 FORMA X



SIZE	PART NUMBER		THREADS	DIMENSIONS mm							
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mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
6,3	1/4"	-04	Q03211041A-04-04	Q02911041A-04-04	1/4"	53,5	36,5	A+B-16,6	ø27	19	19
10	3/8"	-06	Q03211041A-06-06	Q02911041A-06-06	3/8"	60,5	40	A+B-20,1	ø34	24	24
12,5	1/2"	-08	SEE ISO SERIES A - POPPET VALVES AT PAGES 22-27								
20	3/4"	-12	Q03211041A-12-12	Q02911041A-12-12	3/4"	85,5	56,5	A+B-28,3	ø47	34	34
25	1"	-16	Q03211041A-16-16	Q02911041A-16-16	1"	98	64,5	A+B-32,9	ø52	41	41

NPT

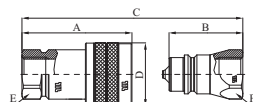
Q03211341A - Q02911341A

NPT TERMINATION ENDS TO ANSI B 1.20.3

ROSCA NPT PARA ANSI B 1.20.3

NPT-ENDSTÜCKE NACH ANSI B 1.20.3

TERMINALI NPT A NORMA ANSI B 1.20.3



SIZE	PART NUMBER		THREADS	DIMENSIONS mm							
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mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
6,3	1/4"	-04	Q03211341A-04-04	Q02911341A-04-04	1/4" NPTF	53,5	36,5	A+B-16,6	ø27	19	19
10	3/8"	-06	Q03211341A-06-06	Q02911341A-06-06	3/8" NPTF	60,5	40	A+B-20,1	ø34	24	24
12,5	1/2"	-08	SEE ISO SERIES A - POPPET VALVES AT PAGES 22-27								
20	3/4"	-12	Q03211341A-12-12	Q02911341A-12-12	3/4" NPTF	85,5	56,5	A+B-28,3	ø47	34	34
25	1"	-16	Q03211341A-16-16	Q02911341A-16-16	1" NPTF	98	64,5	A+B-32,9	ø52	41	41

3/4" size available "american configuration": Q03211041B-12-12, Q03211341B-12-12, Q02911041B-12-12, Q02911341B-12-12. For info contact R&D Q.Safe.

Disponible el tamaño 3/4" "configuración americana": Q03211041B-12-12, Q03211341B-12-12, Q02911041B-12-12, Q02911341B-12-12. Para más información contacte con R&D Q.Safe

Die Größe 3/4" ist auch in "amerikanischer Konfiguration" erhältlich: Q03211041B-12-12, Q03211341B-12-12, Q02911041B-12-12, Q02911341B-12-12. Für weitere Informationen kontaktieren Sie bitte unsere für Q.Safe zuständige Entwicklungsabteilung.

Configurazione "americana" disponibile per la dimensione da 3/4": Q03211041B-12-12, Q03211341B-12-12, Q02911041B-12-12, Q02911341B-12-12. Per informazioni contattare la divisione R&D Q.Safe



Q.Safe

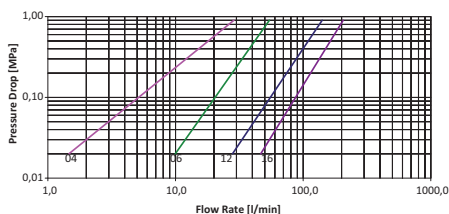
MQS-N

STANDARD BALL VALVES

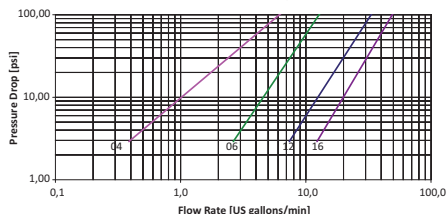
SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	CONNECTION EFFORT	OIL SPILLAGE Connection/ Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	L/min.	US GPM	N	lb.	cc.	cubic inch	Male		Female		M+F		
											MPa	PSI	MPa	PSI	MPa	PSI	
6,3	1/4"	-04	30	4350	10	2,6	40	89	0,35	0,021	140	20300	125	18125	150	21750	Not allowed
10	3/8"	-06	25	3625	28	7,4	65	144	0,85	0,052	115	16675	120	17400	160	23200	Not allowed
12,5	1/2"	-08					SEE ISO SERIES A - POPPET VALVES AT PAGES 408-410										
20	3/4"	-12	25	3625	74	19,6	75	167	3,5	0,214	100	14500	110	15950	125	18125	Not allowed
25	1"	-16	21	3045	114	30,1	100	222	5	0,305	85	12325	100	14500	110	15950	Not allowed

Pressure Drop



Pressure Drop



Historical series for the agriculture market ■ Simple connection and disconnection by pulling back the sleeve ■ Positive, quick connection of the male into the female by the latching ball system ■ Shut-off by ball valve ■ High resistant materials ■ Interchangeable with poppet valve standard series and with similar products available in the market (1/2" size according to ISO 7241-1 series A)

Serie histórica y muy difundida en el sector agrícola ■ Conexión y desconexión tirando del casquillo ■ Bloqueo entre macho y hembra garantizado por un elevado número de esferas metálicas ■ Válvula de bola ■ Materiales a alta resistencia ■ Intercambiabilidad garantizada con los principales productos presentes en el mercado (dimensión 1/2" a norma ISO 7241-1 parte A)

Traditionelle Serie für die Landwirtschaft ■ Einfacher Anschluss und Trennung durch Zurückziehen der Hülse ■ Schnelle Verbindung mit Kugeleinrastsystem ■ Schließen durch Kugelventil ■ Hochresistente Materialien ■ Austauschbar mit Tellerventilen der Standardserie und ähnlichen, auf dem Markt erhältlichen Produkten (Größe 1/2" nach ISO 7241-1 Serie A)

Serie storica e molto diffusa nel settore agricolo ■ Connessione e disconnessione mediante arretramento della ghiera ■ Bloccaggio tra maschio e femmina garantito da un elevato numero di sfere metalliche ■ Sistema di tenuta con valvola sferica ■ Materiali ad alta resistenza ■ Intercambiabilità con serie standard a valvola sporgente e con i principali prodotti presenti sul mercato (dimensione 1/2" a norma ISO 7241-1 parte A)

TECHNICAL INFO

GB

MATERIAL:

Female couplings in steel with some hardened areas in correspondence to the most stressed points. Male couplings in high grade carbon steel hardened. High-resistance latching balls, springs in C98 steel, seals in NBR and Back-up Ring in PTFE

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C

(for other temperatures the coupling is assembled with the specified seals)

SAFETY FACTOR:

1:4 for dynamic pressures and 1:2 for static ones

IMPULSE PRESSURES:

100.000 cycles at 133% of the rated one (freq. 1Hz)

TEST SPECIFICATIONS:

ISO 7241-2

ES

MATERIAL:

El acoplamiento de hembra y macho en acero, con algunas zonas endurecidas, que corresponden a los puntos de más sobrecarga. Válvula y casquillo carbonitrados, muelles en acero C98, juntas en NBR (otros materiales disponibles bajo solicitud) y anillo de soporte en PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C

(para otras temperaturas, el acoplamiento puede ser montado con juntas específicas)

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

PRESIONES DE IMPULSO:

100.000 ciclos a 133% de la nominal (frec. 1Hz)

CARACTERÍSTICAS DE LA PRUEBA:

ISO 7241-2

D

MATERIAL:

M-Kupplungen aus Stahl mit einigen gehärteten Zonen im Bereich der am meisten beanspruchten Punkte. V-Kupplungen aus Edelhartstahl. Hochresistente Einrastkugeln, Federn aus C98-Stahl, NBR-Dichtungen und PTFE-Stützring

BETRIEBSTEMPERATUR:

-22°F bis +230°F -30°C bis +110°C

(für andere Temperaturen werden die Schnell-Kupplungen mit angegebenen Dichtungen ausgestattet)

SICHERHEITSAKTOR:

1:4 für dynamischen und 1:2 für statischen Druck

DRUCKIMPULSE:

100.000 Zyklen bei 133% des gemessenen (Frequenz 1Hz)

PRÜFUNGSBEDINGUNGEN:

ISO 7241-2

IT

MATERIALE:

Innesto femmina in acciaio con parti sollecitate trattate termicamente ed innesto maschio in acciaio con alto tenore di carbonio temprato ad induzione. Molle in acciaio C98. Guarnizioni in NBR (altri materiali su richiesta) e anelli anti-estrusione in PTFE

TEMPERATURE DI ESERCIZIO:

-22°F a +230°F -30°C a +110°C

(per temperature diverse, l'innesto rapido viene fornito con guarnizioni appropriate)

FATTORE DI SICUREZZA:

1:4 per pressioni dinamiche e 1:2 per pressioni statiche

RESISTENZA A PRESSIONI PULSANTI:

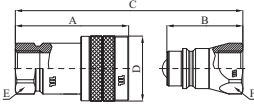
100.000 cicli a 1Hz al 133% della pressione di esercizio

TEST:

ISO-7241-2

STANDARD BALL VALVES - TERMINATION ENDS**BSP****Q03311041A - Q03010041A**

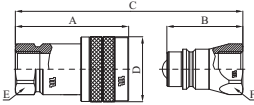
BSP TERMINATION ENDS TO DIN 3852 X TYPE
 ROSCA BSP PARA DIN 3852 TIPO X
 BSP-ENDSTÜCKE NACH DIN 3852 FORM X
 TERMINALI BSP A NORMA DIN 3852 FORMA X



SIZE			PART NUMBER		THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
6,3	1/4"	-04	Q03311041A-04-04	Q03010041A-04-04	1/4"	51,3	34,3	A+B-16,6	ø27	19	19
10	3/8"	-06	Q03311041A-06-06	Q03010041A-06-06	3/8"	59,9	39,4	A+B-20,1	ø34	24	24
12,5	1/2"	-08	SEE ISO SERIES A - BALL VALVES AT PAGES -								
20	3/4"	-12	Q03311041A-12-12	Q03010041A-12-12	3/4"	85,5	56,5	A+B-28,3	ø47	34	34
25	1"	-16	Q03311041A-16-16	Q03010041A-16-16	1"	98	64,5	A+B-32,9	ø52	41	41

NPT**Q03311341A - Q03010341A**

NPT TERMINATION ENDS TO ANSI B 1.20.3
 ROSCA NPT PARA ANSI B 1.20.3
 NPT-ENDSTÜCKE NACH ANSI B 1.20.3
 TERMINALI NPT A NORMA ANSI B 1.20.3

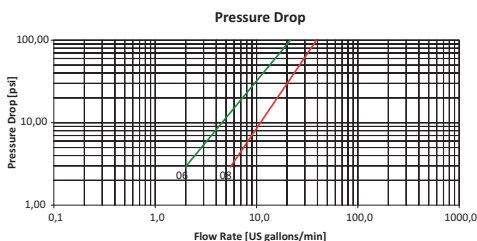
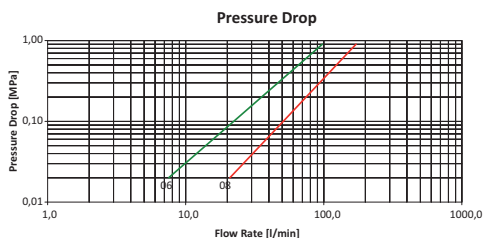


SIZE			PART NUMBER		THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
6,3	1/4"	-04	Q03311341A-04-04	Q03010341A-04-04	1/4" NPTF	51,3	34,3	A+B-16,6	ø27	19	19
10	3/8"	-06	Q03311341A-06-06	Q03010341A-06-06	3/8" NPTF	59,9	39,4	A+B-20,1	ø34	24	24
12,5	1/2"	-08	SEE ISO SERIES A - BALL VALVES AT PAGES -								
20	3/4"	-12	Q03311341A-12-12	Q03010341A-12-12	3/4" NPTF	85,5	56,5	A+B-28,3	ø47	34	34
25	1"	-16	Q03311341A-16-16	Q03010341A-16-16	1" NPTF	98	64,5	A+B-32,9	ø52	41	41



SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	CONNECTION EFFORT	OIL SPILLAGE Connection/ Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	L/min.	US GPM	N	lb.	cc.	cubic inch	Female		M+F		
											MPa	PSI	MPa	PSI	
10	3/8"	-06	31,5	4568	35	9,2	110	244	1,4	0,085	145	21025	130	18850	Not allowed
12,5	1/2"	-08	30	4350	75	19,8	110	244	1,8	0,110	150	21750	150	21750	Not allowed



Female coupling designed for agriculture applications, connectable with ISO 7241-1 series A male couplings ■ PUSH-PULL connection and disconnection system, in case of bulkhead mounting on the external sleeve ■ Break-away function according to ISO 5675 (in case of bulkhead mounting on the external sleeve) ■ Positive connection by latching balls system ■ Shut-off by poppet valve ■ High resistant materials ■ Dimensions and performances according to ISO 7241-1 series A

Acoplamiento rápido hembra precisamente desarrollado por aplicaciones agrícolas, acoplable con espiga macho a norma ISO 7241-1 parte A ■ Sistema de conexión y desconexión tipo PUSH-PULL, en el caso de fijado a pared por el casquillo ■ Función anti-rotura conforme con la norma ISO 5675 (en el caso de fijado a pared por el casquillo) ■ Bloqueo entre macho y hembra garantizado por un elevado número de esferas metálicas ■ Válvula de punzón ■ Materiales a alta resistencia ■ Dimensiones y prestaciones conforme con la norma ISO-7241-1 parte A

Kupplungsmuffe speziell für Landtechnikwendungen, Anschluss an ISO 7241-1 Stecker ■ PUSH-PULL Anschluß und Trennsystem für Schottmontage ■ Losreißfunktion gem. ISO 5675 ■ Verbindung durch Kugleinrastsystem ■ Verschluss durch Tellerventil ■ Widerstandsfähige Werkstoffe ■ Maße und Leistungsfähigkeit gem. ISO 7241-1 Teil A

Innesto rapido femmina specificatamente sviluppato per applicazioni agricole, accoppiabile con innesto maschio a norma ISO 7241-1 parte A ■ Sistema di connessione e disconnessione tipo PUSH-PULL, nel caso di fissaggio a parete tramite ghiera ■ Funzione anti-danneggiamento dei tubi in conformità con norma ISO 5675 (nel caso di fissaggio a parete tramite ghiera) ■ Bloccaggio tra maschio e femmina garantito da un elevato numero di sfere metalliche ■ Sistema di tenuta mediante valvola sporgente ■ Materiali ad alta resistenza ■ Dimensioni e prestazioni in conformità con norma ISO-7241-1 parte A

GB**MATERIAL:**

Female couplings in steel with some hardened areas in correspondence to the most stressed points. Carbonitrited valve and sleeve, springs in C98 steel, latching balls in high resistance 100 C6 steel, seals in NBR (other materials on request) and Back-up Ring in PTFE

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C

(for other temperatures the coupling is assembled with the specified seals)

SAFETY FACTOR:

1:4 for dynamic pressures and 1:2 for static ones

IMPULSE PRESSURES:

100.000 cycles at 133% of the rated one (freq. 1Hz)

TEST SPECIFICATIONS:

ISO 7241-2

ES**MATERIAL:**

El acoplamiento de hembra y macho en acero, con algunas zonas endurecidas, que corresponden a los puntos de más sobrecarga. Válvula y casquillo carbonitrados, muelles en acero C98, juntas en NBR (otros materiales disponibles bajo solicitud) y anillo de soporte en PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C

(para otras temperaturas, el acoplamiento puede ser montado con juntas específicas)

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

PRESIONES DE IMPULSO:

100.000 ciclos a 133% de la nominal (frec. 1Hz)

CARACTERÍSTICAS DE LA PRUEBA:

ISO 7241-2

D**MATERIAL:**

M-Kupplungen aus Stahl mit einigen gehärteten Zonen im Bereich der am meisten beanspruchten Punkte.

Carbonitriertes Ventil und Hülse, Federn aus C98-Stahl, Einrastkugeln aus 100 C6 Stahl, NBR-Dichtungen (andere Materialien auf Anfrage) und PTFE-Stützring

BETRIEBSTEMPERATUR:

-22°F bis +230°F -30°C bis +110°C

(für andere Temperaturen werden die Schnell-Kupplungen mit angegebenen Dichtungen ausgestattet)

SICHERHEITSFAKTOR:

1:4 für dynamischen und 1:2 für statischen Druck

DRUCKIMPULSE:

100.000 Zyklen bei 133% des gemessenen (Frequenz 1Hz)

PRÜFUNGSBEDINGUNGEN:

ISO 7241-2

IT**MATERIALI:**

Innesto femmina in acciaio con parti sollecitate trattate termicamente. Ghiere e valvole carbonitrate. Molle in acciaio C98. Sfere ad alta resistenza 100 C6. Guarnizioni in NBR (altri materiali su richiesta) e anelli anti-estrusione in PTFE

TEMPERATURE DI ESERCIZIO:

-22°F a +230°F -30°C a +110°C

(per temperature diverse, l'innesto rapido viene fornito con guarnizioni appropriate)

FATTORE DI SICUREZZA:

1:4 per pressioni dinamiche e 1:2 per pressioni statiche

RESISTENZA A PRESSIONI PULSANTI:

100.000 cicli a 1Hz al 133% della pressione di esercizio

TEST: ISO-7241-2

PUSH-PULL - MOUNTING SYSTEM



On the wall, with blocked sleeve and hose with coupling

En la pared con un casquillo bloqueado y una manguera con acoplamiento

An der Wand mit fest montierter Hülse und Schlauch mit Kupplung

Con innesto bloccato a parete sulla ghiera. Assemblato su tubo flessibile

CONNECTION / CONEXIÓN / ANSCHLUSS / CONNESSIONE

by pushing the male coupling (PUSH)
presionando el acoplamiento macho (PUSH)
durch Drücken der V-Kupplung (PUSH)
spingendo l'innesto maschio (PUSH)

DISCONNECTION / DESCONEXIÓN / TRENNUNG / DISCONNESSIONE

by pulling the male coupling (PULL)
tirando del acoplamiento macho (PULL)
durch Ziehen der V-Kupplung (PUSH)
tirando l'innesto maschio (PUSH)

BREAKAWAY FUNCTION / FUNCIÓN DE DESMONTAJE / ABRISSEFUNKTION / FUNZIONE DI SMONTAGGIO

yes / sí / ja / si



Hoses with couplings

Mangueras con acoplamientos

Schläuche mit Kupplungen

Tubo flessibile su entrambi gli innesti

CONNECTION / CONEXIÓN / Der ANSCHLUSS / CONNESSIONE

by holding the female coupling on the sleeve and pushing the male coupling
sujetando el acoplamiento hembra en el casquillo y presionando el acoplamiento macho
erfolgt durch Festhalten der M-Kupplung an der Hülse und Eindrücken der V-Kupplung
tenendo l'innesto sulla ghiera spingere l'innesto maschio

DISCONNECTION / DESCONEXIÓN / TRENNUNG / DISCONNESSIONE

by holding the female coupling on the sleeve and pulling the male coupling
sujetando el acoplamiento hembra en el casquillo y tirando del acoplamiento macho
erfolgt durch Festhalten der M-Kupplung an der Hülse und Ziehen der V-Kupplung
tenendo l'innesto sulla ghiera tirare l'innesto maschio

BREAKAWAY FUNCTION / FUNCIÓN DE DESMONTAJE / ABRISSEFUNKTION / FUNZIONE DI SMONTAGGIO

no / no / nein / no

PUSH-PULL - MOUNTING SYSTEM



Hose with female coupling and pipe with male coupling

Manguera con acoplamiento hembra y tubo con acoplamiento macho

An der Wand mit fest montierter Hülse und Schlauch mit Kupplung

Tubo flessibile con innesto femmina e tubo rigido con innesto maschio

CONNECTION / CONEXIÓN / Der ANSCHLUSS / CONNESSIONE
by holding the female coupling on the sleeve and pushing the same one

sujetando el acoplamiento hembra en el casquillo y presionando el mismo

erfolgt durch Festhalten der M-Kupplung an der Hülse und Eindrücken derselben

trattenendo l'innesto femmina sulla ghiera spingere la stessa

DISCONNECTION / DESCONEXIÓN / Die TRENNUNG / DISCONNESSIONE
by holding the female coupling on the sleeve and pulling

sujetando el acoplamiento hembra en el casquillo y tirando del mismo

erfolgt durch Festhalten der M-Kupplung an der Hülse und Ziehen

trattenendo l'innesto femmina sulla ghiera, tirare

BREAKAWAY FUNCTION / FUNCIÓN DE DESMONTAJE /
ABRISSFUNKTION / FUNZIONE DI SMONTAGGIO

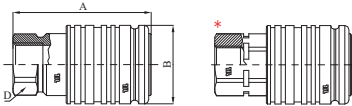
no / no / nein / no

PUSH-PULL - TERMINATION ENDS

BSP

Q01311041A

BSP TERMINATION ENDS TO DIN 3852 X TYPE
ROSCA BSP PARA DIN 3852 TIPO X
BSP-M-ENDSTÜCKE NACH DIN 3852 FORM X
TERMINALI BSP A NORMA DIN 3852 FORMA X



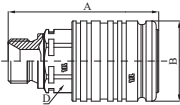
* Male and female in two parts / Macho y hembra en dos partes
Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.

SIZE			PART NUMBER	THREADS	DIMENSIONS mm		
mm	inch	dash	Female Coupling		A	B	D
10	3/8"	06	Q01311041A-06-04*	1/4"	63	ø32	22
			Q01311041A-06-06*	3/8"	64,5	ø32	22
12,5	1/2"	08	Q01311041A-08-06*	3/8"	66,2	ø38	27
			Q01311041A-08-08	1/2"	67	ø38	27

* Male and female in two parts / Macho y hembra en dos partes / Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.

Q01311050A

BSP TERMINATION END TO ISO 8434-6
ROSCA BSP PARA ISO 8434-6
BSP-M-ENDSTÜCKE NACH ISO 8434-6
TERMINALI BSP A NORMA ISO 8434-6

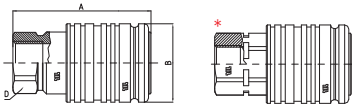


SIZE			PART NUMBER	THREADS	DIMENSIONS mm		
mm	inch	dash	Female Coupling		A	B	D
12,5	1/2"	08	Q01311050A-08-06	3/8"	68,9	ø38	27
			Q01311050A-08-08	1/2"	71,4	ø38	27

METRIC

Q01311141A

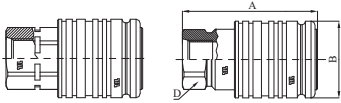
METRIC TERMINATION ENDS TO DIN 3852 X TYPE
ROSCA MÉTRICA PARA DIN 3852 TIPO X
METRISCHE M-ENDSTÜCKE NACH DIN 3852 FORM X
TERMINALI METRICI A NORMA DIN 3852 FORMA X



* Male and female in two parts / Macho y hembra en dos partes
Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.

SIZE			PART NUMBER	THREADS	DIMENSIONS mm		
mm	inch	dash	Female Coupling		A	B	D
10	3/8"	06	Q01311141A-06-16*	M16x1.5	64,5	ø32	22
			Q01311141A-08-18*	M18x1.5	66,2	ø38	27
12,5	1/2"	08	Q01311141A-08-20	M20x1.5	67	ø38	27
			Q01311141A-08-22	M22x1.5	67	ø38	27

* Male and female in two parts / Macho y hembra en dos partes / Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.

PUSH-PULL - TERMINATION ENDS

* Male and female in two parts / Macho y hembra en dos partes
Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.

Q01311191A**METRIC TERMINATION ENDS TO ISO 6149-1**

ROSCA MÉTRICA PARA ISO 6149-1

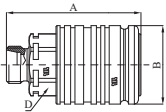
METRISCHE M-ENDSTÜCKE NACH ISO 6149-1

TERMINALI METRICI A NORMA ISO 6149-1

SIZE			PART NUMBER	THREADS	DIMENSIONS mm		
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mm	inch	dash	Female Coupling		A	B	D
12,5	1/2"	-08	Q01311191A-08-16*	M16x1,5	66,7	ø38	27
			Q01311191A-08-18*	M18x1,5	68,2	ø38	27
			Q01311141A-08-22	M22x1,5	67	ø38	27

* Male and female in two parts / Macho y hembra en dos partes / Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.

**Q01311110A****METRIC TERMINATION ENDS TO ISO 8434-1 L SERIES**

ROSCA MÉTRICA PARA ISO 8434-1 SERIE L

METRISCHE M-ENDSTÜCKE NACH ISO 8434-1 SERIE L

TERMINALI METRICI A NORMA ISO 8434-1 SERIE L

SIZE			PART NUMBER	THREADS	DIMENSIONS mm		
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mm	inch	dash	Female Coupling		A	B	D
10	3/8"	-06	Q01311110A-06-12	M12x1,5	61	ø32	22
			Q01311110A-06-14	M14x1,5	61	ø32	22
			Q01311110A-06-16	M16x1,5	61	ø32	22
			Q01311110A-06-18	M18x1,5	61	ø32	22
12,5	1/2"	-08	Q01311110A-08-14	M14x1,5	65,2	ø38	27
			Q01311110A-08-16	M16x1,5	66,2	ø38	27
			Q01311110A-08-18	M18x1,5	65,2	ø38	27
			Q01311110A-08-22	M22x1,5	66,2	ø38	27
			Q01311110A-08-26	M26x1,5	66,2	ø38	30

PUSH-PULL - TERMINATION ENDS

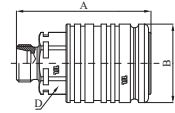
Q01311120A

METRIC TERMINATION ENDS TO ISO 8434-1 S SERIES

ROSCA MÉTRICA PARA ISO 8434-1 SERIE S

METRISCHE M-ENDSTÜCKE NACH ISO 8434-1 SERIE S

TERMINALI METRICI A NORMA ISO 8434-1 SERIE S



SIZE			PART NUMBER	THREADS	DIMENSIONS mm		
mm	inch	dash	Female Coupling		A	B	D
10	3/8"	-06	Q01311120A-06-16	M16x1,5	62	ø32	22
			Q01311120A-06-18	M18x1,5	62	ø32	22
			Q01311120A-08-18	M18x1,5	66,2	ø38	27
12,5	1/2"	-08	Q01311120A-08-20	M20x1,5	66,2	ø38	27
			Q01311120A-08-24	M24x1,5	68,2	ø38	27

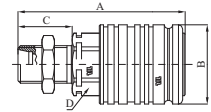
Q01311770B

METRIC TERMINATION ENDS TO ISO 8434-1 BULKHEAD L SERIES

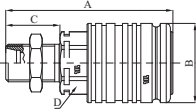
ROSCA MÉTRICA PARA ISO 8434-1 PASATABIQUE SERIE L

METRISCHE M-ENDSTÜCKE NACH ISO 8434-1 SCHOTT SERIE L

TERMINALI METRICI A NORMA ISO 8434-1 SERIE L PASSAPARETE



SIZE			PART NUMBER	THREADS	DIMENSIONS mm			
mm	inch	dash	Female Coupling		A	B	C	D
10	3/8"	-06	Q01311770B-06-12	M12x1,5	76	ø32	25	22
			Q01311770B-06-14	M14x1,5	75	ø32	25	22
			Q01311770B-06-16	M16x1,5	75	ø32	26	22
			Q01311770B-06-18	M18x1,5	75	ø32	26	22
12,5	1/2"	-08	Q01311770B-08-14	M14x1,5	80,2	ø38	25	27
			Q01311770B-08-16	M16x1,5	80,2	ø38	26	27
			Q01311770B-08-18	M18x1,5	80,2	ø38	26	27
			Q01311770B-08-22	M22x1,5	81,2	ø38	27	27
			Q01311770B-08-26	M26x1,5	82,2	ø38	28	30

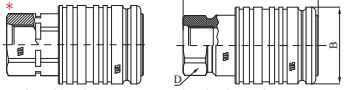
PUSH-PULL - TERMINATION ENDS**Q01311870B****METRIC TERMINATION ENDS TO ISO 8434-1 BULKHEAD S SERIES**

ROSCA MÉTRICA PARA ISO 8434-1 PASATABIQUE SERIE S

METRISCHE M-ENDSTÜCKE NACH ISO 8434-1 SCHOTT SERIE S

TERMINALI METRICI A NORMA ISO 8434-1 SERIE S PASSAPARETE

SIZE			PART NUMBER	THREADS	DIMENSIONS mm			
mm	inch	dash	Female Coupling		A	B	C	D
10	3/8"	-06	Q01311870B-06-16	M16x1,5	76	ø32	27	22
			Q01311870B-06-18	M18x1,5	76	ø32	27	22
			Q01311870B-08-18	M18x1,5	81,2	ø38	27	27
12,5	1/2"	-08	Q01311870B-08-20	M20x1,5	81,2	ø38	27	27
			Q01311870B-08-24	M24x1,5	83,2	ø38	29	27

SAE**Q01311301A**

* Male and female in two parts / Macho y hembra en dos partes
Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.

SAE TERMINATION ENDS TO SAE J1926-1

ROSCA SAE PARA SAE J1923-1

SAE M-ENDSTÜCKE NACH SAE J1926-1

TERMINALI SAE A NORMA SAE J1926-1

SIZE			PART NUMBER	THREADS	DIMENSIONS mm		
mm	inch	dash	Female Coupling		A	B	D
10	3/8"	-06	Q01311301A-06-06*	9/16"-18 UNF	64,5	ø32	22
12,5	1/2"	-08	Q01311301A-08-08	3/4"-16 UNF	67	ø38	27
			Q01311301A-08-10	7/8"-14 UNF	69	ø38	27

* Male and female in two parts / Macho y hembra en dos partes / Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.

PUSH-PULL - TERMINATION ENDS

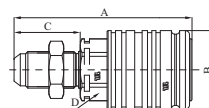
Q01311230A

SAE TERMINATION ENDS TO ISO 8434-2 BULKHEAD

ROSCA SAE PARA ISO 8434-2 PASATABIQUE

KUPPLUNGSMUFFE MIT SAE GEWINDE FÜR SCHOTTMONTAGE NACH ISO 8434-2

TERMINALI SAE A NORMA ISO 8434-2 PASSAPARETE



SIZE			PART NUMBER	THREADS	DIMENSIONS mm			
mm	inch	dash	Female Coupling		A	B	C	D
12,5	1/2"	-08	Q01311230A-08-08	3/4"-16 UNF	91,8	ø38	37,6	27
			Q01311230A-08-10	7/8"-14 UNF	95,3	ø38	41,1	27

NPT

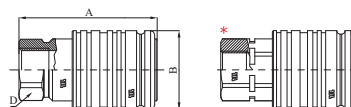
Q01311341A

NPT TERMINATION ENDS TO ANSI B 1.20.3

ROSCA NPT PARA ANSI B 1.20.3

KUPPLUNGSMUFFE MIT NPT GEWINDE NACH ANSI B 1.20.3

TERMINALI NPT A NORMA ANSI B 1.20.3



* Male and female in two parts / Macho y hembra en dos partes
Stecker und Muffe zweiteilig / Maschio e femmina in due parti.

SIZE			PART NUMBER	THREADS	DIMENSIONS mm		
mm	inch	dash	Female Coupling		A	B	D
10	3/8"	-06	Q01311341A-06-06*	3/8" NPTF	64,5	ø32	22
12,5	1/2"	-08	Q01311341A-08-08	1/2" NPTF	67	ø38	27

* Male and female in two parts / Macho y hembra en dos partes / Stecker und -muffe sind verschiedene Artikel / Maschio e femmina in due parti.

Available push-pull 1/2", ball valve: Q01411041A-08-08, Q01411341A-08-08. For info contact R&D Q.Safe.

Disponible push-pull 1/2" con válvula bola: Q01411041A-08-08, Q01411341A-08-08. Para más información contacte con R&D Q.safe.

Verfügbar push-pull 1/2", Kugelventil: Q01411041A-08-08, Q01411341A-08-08. Für Infos bitte Entwicklungsabteilung Q.Safe kontaktieren.

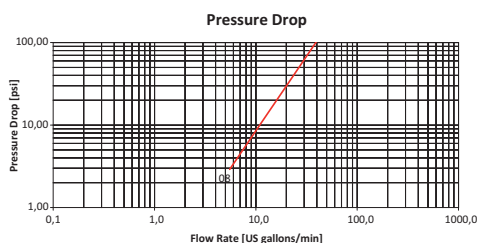
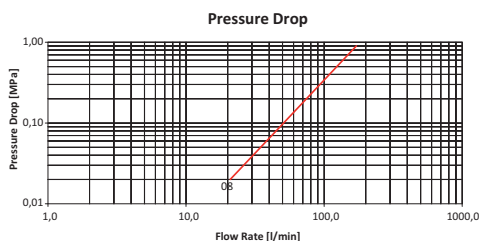
Disponibile push-pull 1/2" con valvola a sfera: Q01411041A-08-08, Q01411341A-08-08. Per informazioni contattare la divisione R&D Q.safe.



PUSH-PULL CONNECTABLE UNDER PRESSURE

SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	CONNECTION EFFORT	OIL SPILLAGE Connection/ Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	L/min.	US GPM	N	lb.	cc.	cubic inch	Female		M+F		
											MPa	PSI	MPa	PSI	
12,5	1/2"	-08	30	4350	75	19,8	110	244	1,8	0,110	120	17400	150	21750	Only connection



Female coupling designed for agriculture applications, connectable with ISO 7241-1 series A male couplings ■ Connectable under pressure thanks to a frontal micro-valve ■ Push-Pull connection and disconnection system, in case of bulkhead mounting on the external sleeve ■ Break-away function according to ISO 5675 (in case of bulkhead mounting on the external sleeve) ■ Positive connection by latching balls system ■ Shut-off by poppet valve ■ High resistant materials ■ Dimensions and performances according to ISO 7241-1 series A

Acoplamiento rápido hembra precisamente desarrollado para aplicaciones agrícolas, conectables con ISO 7241-1 Serie A ■ Conectable bajo presión gracias a la micro válvula frontal ■ Sistema de conexión y desconexión tipo push-pull, en el caso de la fijación del casquillo como pasatabique ■ Función de seguridad que aseguran los posibles daños conforme a la norma ISO 5675 (en caso de montaje en pasatabique en el casquillo externo) ■ Bloqueo entre macho y hembra garantizado por un elevado número de bolas metálicas ■ Sistema de retención a través de válvula de punzón ■ Materiales a alta resistencia ■ Dimensiones y prestaciones en conformidad con norma ISO-7241-1 Serie A

Kupplungsmuffe für die Landwirtschaft, anschließbar mit ISO 7241-1 Serie A Steckern ■ Unter Druck kuppelbar dank Mikroventil vorne ■ Push-Pull Anschluss- und Trennsystem, bei Schottwandmontage an der Außenhülse ■ Losreißfunktion nach ISO 5675, bei Schottwandmontage an der Außenhülse ■ Schnelle Verbindung mit Kugeleinrastsystem ■ Schließen durch Tellerventil ■ Widerstandsfähige Werkstoffe ■ Größen und Leistungen nach ISO 7241-1 Serie A

Innesto rapido femmina specificatamente sviluppato per applicazioni agricole, accoppiabile con innesto maschio a norma ISO 7241-1 parte A ■ Innestabile alla massima pressione di esercizio mediante micro-valvola frontale ■ Sistema di connessione e disconnessione tipo push-pull, nel caso di fissaggio a parete tramite ghiera ■ Funzione anti-danneggiamento dei tubi flessibili in conformità con norma ISO 5675 (nel caso di fissaggio a parete tramite ghiera) ■ Bloccaggio tra maschio e femmina garantito da un elevato numero di sfere metalliche ■ Sistema di tenuta mediante valvola sporgente ■ Materiali ad alta resistenza ■ Dimensioni e prestazioni in conformità con norma ISO-7241-1 parte A

TECHNICAL INFO

GB

MATERIAL:

Female couplings in steel with some hardened areas in correspondence to the most stressed points. Carbonitrited valve, micro-valve and sleeve, springs in C98 steel, latching balls in 100 C6 steel, seals in NBR and polyurethane (other materials on request) and Back-up Ring in PTFE

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C

(for other temperatures the quick coupling is assembled with specific seals)

SAFETY FACTOR:

1:4 for dynamic pressures and 1:2 for static ones

IMPULSE PRESSURES:

100.000 cycles of impulse pressure, at 133% of the rated one (freq. 1Hz)

TEST SPECIFICATIONS:

ISO 7241-2

ES

MATERIAL:

El acoplamiento de hembra y macho en acero, con algunas zonas endurecidas, que corresponden a los puntos de más sobrecarga. Válvula y casquillo carbonitrados, muelles en acero C98, juntas en NBR (otros materiales disponibles bajo solicitud) y anillo de soporte en PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C

(para otras temperaturas, el acoplamiento puede ser montado con juntas específicas)

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

PRESIONES DE IMPULSO:

100.000 ciclos a 133% de la nominal (frec. 1Hz)

CARACTERÍSTICAS DE LA PRUEBA:

ISO 7241-2

D

MATERIAL:

Kupplungsmuffen aus Stahl mit einigen gehärteten Zonen im Bereich der am meisten beanspruchten Punkte.

Carbonitriertes Ventil, Mikroventil und Hülse, Federn aus C98-Stahl, Einrastkugeln aus 100 C6-Stahl, NBR- und Polyurethan-Dichtungen (andere Materialien auf Anfrage) und PTFE-Stützring

BETRIEBSTEMPERATUR:

-22°F bis +230°F -30°C bis +110°C

(für andere Temperaturen werden die Schnell-Kupplungen mit spezifischen Dichtungen ausgestattet)

SICHERHEITSAKTOR:

1:4 für dynamischen und 1:2 für statischen Druck

DRUCKIMPULSE:

100.000 Zyklen bei 133% des angegebenen Druckes (Frequenz 1Hz)

PRÜFUNGSBEDINGUNGEN:

ISO 7241-2

IT

MATERIALI:

Innesto femmina in acciaio con parti sollecitate trattate termicamente. Ghiera, valvole e micro-valvole carbonitrate. Molle in acciaio C98. Sfere ad alta resistenza 100 C6. Guarnizioni in NBR e Poliuretano (altri materiali su richiesta) e anelli anti-estrusione in PTFE

TEMPERATURE DI ESERCIZIO:

-22°F a +230°F -30°C a +110°C

(per temperature diverse, l'innesto rapido viene fornito con guarnizioni appropriate)

FAITTORE DI SICUREZZA:

1:4 per pressioni dinamiche e 1:2 per pressioni statiche

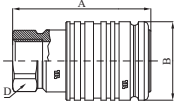
RESISTENZA A PRESSIONI PULSANTI:

100.000 cicli a 1Hz al 133% della pressione di esercizio.

TEST: ISO-7241-2

PUSH-PULL CONNECTABLE UNDER PRESSURE - TERMINATION ENDS**BSP****Q01511041A**

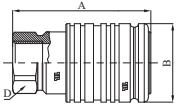
BSP TERMINATION ENDS TO DIN 3852 X TYPE
ROSCA BSP PARA DIN 3852 TIPO X
BSP ANSCHLÜSSE NACH DIN 3852 FORM X
TERMINALE BSP A NORMA DIN 3852 FORMA X



SIZE			PART NUMBER	THREADS	DIMENSIONS mm		
mm	inch	dash	Female Coupling		A	B	D
12,5	1/2"	-08	Q01511041A-08-08	1/2"	67	ø38	27

NPT**Q01511341A**

NPT TERMINATION ENDS TO ANSI B 1.20.3
ROSCA NPT PARA ANSI B 1.20.3
NPT ANSCHLÜSSE NACH ANSI B 1.20.3
TERMINALI NPT A NORMA ANSI B 1.20.3

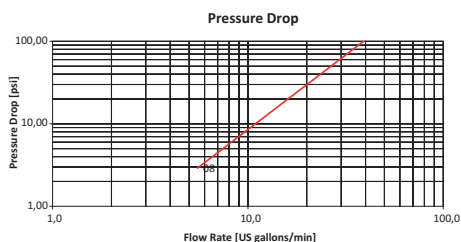
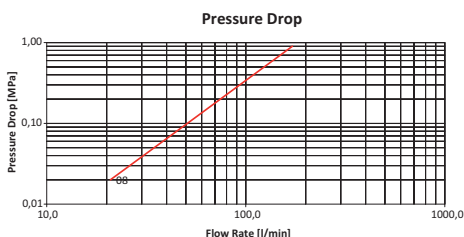


SIZE			PART NUMBER	THREADS	DIMENSIONS mm		
mm	inch	dash	Female Coupling		A	B	D
12,5	1/2"	-08	Q01511341A-08-08	1/2" NPTF	67	ø38	27



SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	CONNECTION EFFORT	OIL SPILLAGE Connection/ Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	L/min.	US GPM	N	lb.	cc.	cubic inch	Female		M+F		
											MPa	PSI	MPa	PSI	
12,5	1/2	-08	30	4350	75	19,8	170	378	1,8	0,110	125	18125	125	18125	Allowed only connection; with male under pressure



Connectable with male ISO A under pressure ■ Working pressure 30MPa ■ Connection/disconnection PUSH-PULL ■ No shut-off, Manuli mechanical valve block system ■ Installation on hoses with coupling blocked on panel by the sleeve ■ Breakaway function according to ISO 5675 ■ Interchangeable according to ISO 7241-1 part A ■ Wide range of termination end

Conectable con macho ISO A con presión ■ Presión de trabajo 30 MPa ■ Conexión/desconexión PUSH-PULL ■ Sistema interno Manuli de bloques mecánico de la válvula para evitar le cierre por la presión ■ Instalación en mangueras con bloques del casquillo (pasatabique). Presión de rotura según ISO 5675 ■ Intercambiable según ISO 7241-1 parte A ■ Amplia gama de roscas

Verbindung mit ISO A Stecker auch unter Druck ■ Arbeitsdruck bis zu 30 MPa ■ PUSH-PULL Verbindungs- und Trennsystem ■ Manuli Ventilblockiersystem verhindert shut-off Schließeffect ■ Montage an Schläuchen für die Anschlußpanelmontage mit Befestigung an der Hülse ■ Losreißfunktion gem. ISO 5675 ■ Austauschbar gem. ISO 7241-1 Teil A ■ viele verfügbare Anschlussvarianten

Innestabile con maschio ISO A in pressione ■ Pressione di esercizio 30MPa ■ Connessione Disconnessione PUSH-PULL ■ Sistema intero di blocco meccanico delle valvole per evitarne la chiusura in presenza di alta portate ed inversioni di portata ■ Applicabile direttamente su tubi flessibili con bloccaggio dell'innesto a parete tramite la ghiera ■ Funzione breakaway,in accordo con la norma ISO 5675 ■ Intercambiabilità secondo la ISO 7241-1 parte A ■ Ampia gamma di terminali filettati

GB**MATERIAL:**

Couplings in steel with some stressed area hardened, carbonitred valve, springs in C98 steel, seals in NBR, back-up ring PTFE

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C
(for other temperatures the quick coupling is assembled with specific seals)

SAFETY FACTOR:

1:4 for dynamic pressures and 1:2 for static ones

IMPULSE PRESSURES:

500.000 cycles (connected and disconnected conditions) at 120% of the rated one (freq. 1Hz)

TEST SPECIFICATIONS:

ISO 7241-2

ES**MATERIAL:**

Acoplamiento de acero, con algunas zonas endurecidas, válvula carbonitrada, muelles en acero C98, juntas en NBR, anillo de soporte en PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C
(para otras temperaturas, el acoplamiento puede ser montado con juntas específicas)

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

PRESIONES DE IMPULSO:

500.000 ciclos (en condiciones de conectado y desconectado) a 1Hz y a 120% de la presión de trabajo

CARACTERÍSTICAS DE LA PRUEBA:

ISO 7241-2

D**MATERIAL:**

Kupplungsteile aus Stahl einige hochbelastete Bereiche sind gehärtet, carbonitriertes Ventil, Federn aus C98 Stahl, NBR Dichtungen, Stützring aus PTFE

BETRIEBSTEMPERATUR:

-22°F bis +230°F -30°C bis +110°C
(für andere Temperaturen werden die Schnell-Kupplungen mit spezifischen Dichtungen ausgestattet)

SICHERHEITSAKTOR:

1:4 für dynamische Belastung und 1:2 für statischen Druck

DRUCKIMPULSE:

500.000 Zyklen (gekuppelt wie auch getrennt) bei 120% des angegebenen Druckes (Freq. 1 Hz)

PRÜFUNGSBEDINGUNGEN:

ISO 7241-2

IT**MATERIALI:**

Parti dell'innesto in acciaio al carbonio con zone sollecitate trattate termicamente, valvole carbonitrate, molle in C98, guarnizioni: NBR antiestusione: PTFE

TEMPERATURE DI ESERCIZIO:

-22°F a +230°F -30°C a +110°C
(per temperature diverse, l'innesto rapido viene fornito con guarnizioni appropriate)

FATTORE DI SICUREZZA:

1:4 per pressioni dinamiche e 1:2 per pressioni statiche

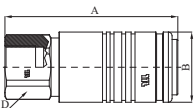
RESISTENZA A PRESSIONI PULSANTI:

500.000 cicli (sia accoppiato che disaccoppiato) a 1Hz al 120% della pressione di esercizio

TEST: ISO-7241-2

Q01611041A

BSP TERMINATION ENDS TO DIN 3852 X TYPE
ROSCA BSP PARA DIN 3852 TIPO X
BSP ANSCHLÜSSE NACH DIN 3852 FORM X
INNESTI RAPIDI CON TERMINALI BSP A NORMA DIN 3852 FORMA X



SIZE			PART NUMBER	THREADS	DIMENSIONS mm		
mm	inch	dash	Female Coupling		A	B	D
12,5	1/2"	-08	Q01611041A-08-08	1/2"	91,7	ø38	32

MQS-AFM



On the wall, with blocked sleeve and hose with coupling

En la pared con un casquillo bloqueado y una manguera con acoplamiento

An der Wand mit fest montierter Hülse und Schlauch mit Kupplungsstecker

A parete con innesto bloccato sulla ghiera assemblato su tubo flessibile

CONNECTION / CONEXIÓN / VERBINDEN / CONNESSIONE
by pushing the male coupling (PUSH)
presionando el acoplamiento macho (PUSH)
durch Drücken des Steckers (PUSH)
spingendo l'innesto maschio (PUSH)

DISCONNECTION / DESCONEXIÓN / TRENNUNG / DISCONNESSIONE
by pulling the male coupling (PULL)
tirando del acoplamiento macho (PULL)
durch Ziehen des Steckers (PULL)
tirando l'innesto maschio (PULL)

BREAKAWAY FUNCTION / FUNCIÓN DE DESMONTAJE / LOSREIßFUNKTION / FUNZIONE DI SMONTAGGIO
yes / sí / ja / si

For info contact R&D Q.Safe.
Para información contacte con R&D Q.Safe .
Für Informationen die Q.Safe Entwicklungsabteilung kontaktieren.
Per informazioni contattate R&D Q.safe.



Q.Safe

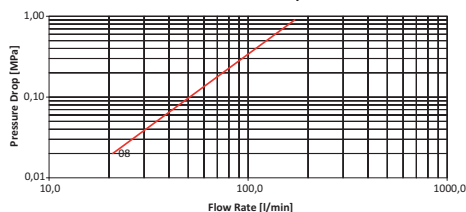
MQS-AFB

PUSH-PULL CONNECTABLE WITH BOTH PARTS UNDER PRESSURE FLEXIBLE MOUNTING

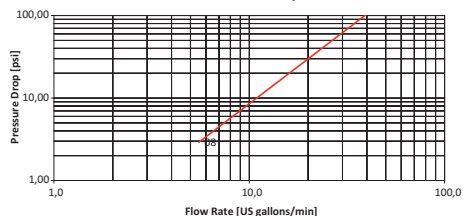
SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	CONNECTION EFFORT	OIL SPILLAGE Connection/ Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	L/min.	US GPM	N	lb.	cc.	cubic inch	Female		M+F		Allowed only connection; with male and female under pressure
											MPa	PSI	MPa	PSI	
12,5	1/2	-08	30	4350	75	19,8	170	378	1,8	0,110	125	18125	125	18125	
										with OMPa of pressure					

Pressure Drop



Pressure Drop



Connectable with male ISO A and female under pressure ■ Working pressure 30MPa ■ Connection/disconnection PUSH-PULL ■ No shut-off, Manuli mechanical valve block system ■ Installation on hoses with coupling blocked on panel by the sleeve ■ Breakaway function according to ISO 5675 ■ Interchangeable according to ISO 7241-1 part A ■ Wide range of termination end

Conectable con macho ISO A y hembra con presión ■ Presión de trabajo 30 MPa ■ Conexión/desconexión PUSH-PULL ■ Sistema interno Manuli de bloques mecánico de la válvula para evitar le cierre por la presión ■ Instalación en el tubo flexible con bloques del casquillo (pasatabique) ■ Presión de rotura según ISO 5675 ■ Intercambiable según ISO 7241-1 parte A ■ Amplia gama de roscas

Verbindung mit ISO A Stecker auch unter Druck ■ Arbeitsdruck bis zu 30 MPa ■ PUSH-PULL Verbindungs- und Trennsystem ■ Manuli Ventilblockiersystem verhindert shut-off Schließeffekt ■ Montage an Schläuchen für die Anschlußpanelmontage mit Befestigung an der Hülse ■ Losreißfunktion gem. ISO 5675 ■ Austauschbar gem. ISO 7241-1 Teil A ■ Viele verfügbare Anschlussvarianten

Innestabile con maschio ISO A e femmina in pressione ■ Pressione di esercizio 30MPa ■ Connessione Disconnessione PUSH-PULL ■ Sistema intero di blocco meccanico delle valvole per evitarne la chiusura in presenza di alta portate ed inversioni di portata ■ Installazione su tubi flessibili con bloccaggio dell'innesto a parete tramite la ghiera ■ Funzione breakaway, in accordo con la norma ISO 5675 ■ Intercambiabilità secondo la ISO 7241-1 parte A ■ Ampia gamma di terminali filettati

TECHNICAL INFO

GB

MATERIAL:

Couplings in steel with some stressed area hardened, carbonitred valve, springs in C98 steel, seals in Polyurethane and NBR, back-up ring PTFE

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C

(for other temperatures the quick coupling is assembled with specific seals)

SAFETY FACTOR:

1:4 for dynamic pressures and 1:2 for static ones

IMPULSE PRESSURES:

500.000 cycles (connected and disconnected conditions)

at 120% of the rated one (freq.1Hz)

TEST SPECIFICATIONS:

ISO 7241-2

ES

MATERIAL:

Acoplamiento de acero, con algunas zonas endurecidas, valvula carbonitrada, muelles en acero C98, juntas en NBR, anillo de soporte en PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C

(para otras temperaturas, el acoplamiento puede ser montado con juntas específicas)

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

PRESIONES DE IMPULSO:

500.000 ciclos (en condiciones de conectado y desconectado) a 1Hz y a 120% de la presión de trabajo

CARACTERÍSTICAS DE LA PRUEBA:

ISO 7241-2

D

MATERIAL:

Kupplungsteile aus Stahl einige hochbelastete Bereiche sind gehärtet, carbonitriertes Ventil, Federn aus C98 Stahl, NBR und Polyurethan Dichtungen, Stützring aus PTFE

BETRIEBSTEMPERATUR:

-22°F bis +230°F -30°C bis +110°C

(für abweichende Temperaturbereiche werden die

Kupplungen nach Bedarf mit anderen

Dichtungswerkstoffen ausgerüstet)

SICHERHEITSAKTOR:

1:4 für dynamische Belastung und 1:2 für statischen Druck

DRUCKIMPULSE:

500.000 Zyklen (gekuppelt wie auch getrennt) bei 120% des angegebenen Druckes (Freq. 1 Hz)

PRÜFUNGSBEDINGUNGEN:

ISO 7241-2

IT

MATERIALI:

Parti dell' innesto in acciaio al carbonio con zone sollecitate trattate termicamente, valvole carbonitrate, molle in C98, guarnizioni: Poliuretano e NBR antiestusione: PTFE

TEMPERATURE DI ESERCIZIO:

-22°F a +230°F -30°C a +110°C

(per temperature diverse, l'innesto rapido viene fornito con guarnizioni appropriate)

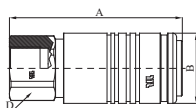
FATTORE DI SICUREZZA:

1:4 per pressioni dinamiche e 1:2 per pressioni statiche

RESISTENZA A PRESSIONI PULSANTI:

500.000 cicli (sia accoppiato che disaccoppiato) a 1Hz al 120% della pressione di esercizio

TEST: ISO-7241-2

Q01711041A


BSP TERMINATION ENDS TO DIN 3852 X TYPE

ROSCA BSP PARA DIN 3852 TIPO X

BSP-ENDSTÜCKE NACH DIN 3852 FORM X

INNESTI RAPIDI CON TERMINALI BSP A NORMA DIN 3852 FORMA X

SIZE			PART NUMBER	THREADS	DIMENSIONS mm		
mm	inch	dash	Female Coupling		A	B	D
12,5	1/2"	-08	Q01711041A-08-08	1/2"	93,6	ø38	32



On the wall, with blocked sleeve and hose with coupling

En la pared con un casquillo bloqueado y una manguera con acoplamiento

An der Wand mit fest montierter Hülse und Schlauch mit Kupplung

A parete con innesto bloccato sulla ghiera assemblato su tubo flessibile

CONNECTION / CONEXIÓN / VERBINDEN / CONNESSIONE

by pushing the male coupling (PUSH)

presionando el acoplamiento macho (PUSH)

durch Drücken des Steckers (PUSH)

spingendo l'innesto maschio (PUSH)

DISCONNECTION / DESCONEXIÓN / TRENNUNG / DISCONNESSIONE

by pulling the male coupling (PULL)

tirando del acoplamiento macho (PULL)

durch Ziehen des Steckers (PULL)

tirando l'innesto maschio (PULL)

BREAKAWAY FUNCTION / FUNCIÓN DE DESMONTAJE /

LOSREIßFUNKTION / FUNZIONE DI SMONTAGGIO

yes / sí / ja / sì



For info contact R&D Q.Safe.

Para información contacte con R&D Q.Safe.

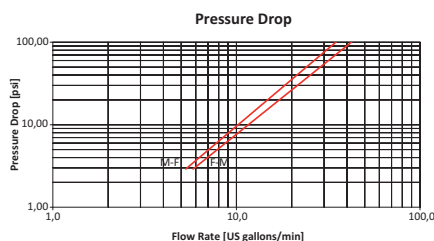
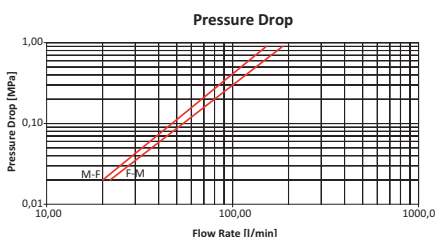
Für Informationen die Q.Safe Entwicklungsabteilung kontaktieren.

Per informazioni contattare R&D Q.safe.



SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	CONNECTION EFFORT	OIL SPILLAGE Connection/Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	Flow direction	L/min.	US GPM	N	lb.	cc.	cubic inch	Female MPa	Female PSI	M+F MPa	M+F PSI	
12,5	1/2	-08	30	4350	F-->M	80	21,1	230	511	2,1	0,128	125	18125	125	18125	Allowed only connection; with male under pressure
					M--->F	68	18,0									



Connectable with male ISO A under pressure ■ Working pressure 30MPa ■ Connection/disconnection PUSH-PULL ■ No shut-off, Manuli mechanical valve block system ■ Installation on pipe and ports ■ Breakaway function according to ISO 5675 ■ Interchangeable according to ISO 7241-1 part A ■ Wide range of termination end ■ According to all requirements of ISO 5675

Conectable con macho ISO A con presión ■ Presión de trabajo 30 MPa ■ Conexión/desconexión PUSH-PULL ■ Sistema interno Manuli de bloques mecánico de la válvula para evitar le cierre por la presión ■ Instalación en tubo rígido y directamente al sistema ■ Presión de rotura según ISO 5675 ■ Intercambiable según ISO 7241-1 parte A ■ Amplia gama de roscas ■ Según todos los requerimientos ISO 5675

Verbindung mit ISO A Stecker auch unter Druck ■ Arbeitsdruck bis zu 30 MPa ■ Push-pull Verbindungs- und Trennsystem ■ Manuli Ventilblockiersystem verhindert shut-off Schließeffekt ■ Montage an Rohren und Gehäusanschlüssen ■ Losreißfunktion gem. ISO 5675 ■ Austauschbar gem. ISO 7241-1 Teil A ■ viele verfügbare Anschlussvarianten ■ entspricht allen Anforderungen der ISO 5675

Innestabile con maschio ISO A in pressione ■ Pressione di esercizio 30MPa ■ Connessione Disconnessione PUSH-PULL ■ Sistema intero Manuli di blocco meccanico delle valvole per evitarne la chiusura in presenza di alta portate ed inversioni di portata ■ Applicabile direttamente su tubi rigidi e ports dei distributori ■ Funzione breakaway in accordo con la norma ISO 5675 ■ Intercambiabilità secondo la ISO 7241-1 parte A ■ Ampia gamma di terminali filettati ■ Soddisfa completamente tutti i requisiti della norma ISO 5675

GB

MATERIAL:

Couplings in steel with some stressed area hardened, carbonitred valve, springs in C98 steel, seals in NBR, back-up ring PTFE

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C

(for other temperatures the quick coupling is assembled with specific seals)

SAFETY FACTOR:

1:4 for dynamic pressures and 1:2 for static ones

IMPULSE PRESSURES:

500.000 cycles (connected and disconnected conditions)

at 120% of the rated one (freq.1Hz)

TEST SPECIFICATIONS:

ISO 7241-2

ES

MATERIAL:

Acoplamiento de acero, con algunas zonas endurecidas, válvula carbonitrada, muelles en acero C98, juntas en NBR, anillo de soporte en PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C

(para otras temperaturas, el acoplamiento puede ser montado con juntas específicas)

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

PRESIONES DE IMPULSO:

500.000 ciclos (en condiciones de conectado y desconectado) a 1Hz y a 120% de la presión de trabajo

CARACTERÍSTICAS DE LA PRUEBA:

ISO 7241-2

D

MATERIAL:

Kupplungsteile aus Stahl einige hochbelastete Bereiche sind gehärtet, carbonitriertes Ventil, Federn aus C98 Stahl, NBR Dichtungen, Stützring aus PTFE

BETRIEBSTEMPERATUR:

-22°F bis +230°F -30°C bis +110°C

(für abweichende Temperaturbereiche werden die

Kupplungen nach Bedarf mit anderen

Dichtungswerkstoffen ausgerüstet)

SICHERHEITSAKTOR:

1:4 für dynamische Belastung und 1:2 für statischen Druck

DRUCKIMPULSE:

500.000 Zyklen (gekuppelt wie auch getrennt) bei 120%

des angegebenen Druckes (Freq. 1 Hz)

PRÜFUNGSBEDINGUNGEN:

ISO 7241-2

IT

MATERIALI:

Parti dell' innesto in acciaio al carbonio con zone sollecitate trattate termicamente, valvole carbonitrate, molle in C98, guarnizioni: NBR antiestusione: PTFE

TEMPERATURE DI ESERCIZIO:

-22°F a +230°F -30°C a +110°C

(per temperature diverse, l'innesto rapido viene fornito con guarnizioni appropriate)

FATTORE DI SICUREZZA:

1:4 per pressioni dinamiche e 1:2 per pressioni statiche

RESISTENZA A PRESSIONI PULSANTI:

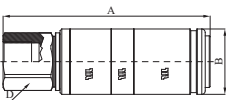
500.000 cicli (sia accoppiato che disaccoppiato) a 1Hz al 120% della pressione di esercizio

TEST: ISO-7241-2

PUSH-PULL CONNECTABLE WITH MALE UNDER PRESSURE RIGID MOUNTING - TERMINATION ENDS

Q01811041A

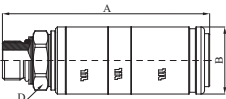
BSP TERMINATION ENDS TO DIN 3852 X TYPE
ROSCA BSP PARA DIN 3852 TIPO X
BSP ANSCHLÜSSE NACH DIN 3852 FORM X
TERMINALE BSP A NORMA DIN 3852 FORMA X



SIZE			PART NUMBER	THREADS	DIMENSIONS mm		
mm	inch	dash	Female Coupling		A	B	D
12,5	1/2"	-08	Q01811041A-08-08	1/2"	118,9	ø38	30

Q01811190A

METRIC TERMINATION ENDS TO ISO 6149-2
ROSCA MÉTRICA PARA ISO 6149-2
METRISCHE ANSCHLÜSSE NACH ISO 6149-2
TERMINALI METRICI A NORMA ISO 6149-2



SIZE			PART NUMBER	THREADS	DIMENSIONS mm		
mm	inch	dash	Female Coupling		A	B	D
12,5	1/2"	-08	Q01811190A-08-22	M22x1,5	115,9	ø38	30



For info contact R&D Q.Safe.

Para información contacte con R&D Q.Safe.

Für Informationen die Q.Safe Entwicklungsabteilung kontaktieren.

Per informazioni contattare R&D Q.safe.



Q.Safe

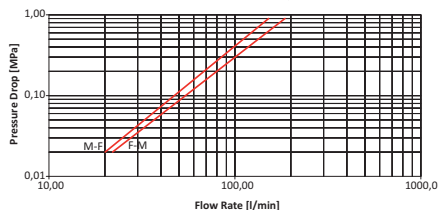
MQS-ARB

PUSH-PULL CONNECTABLE WITH BOTH PARTS UNDER PRESSURE RIGID MOUNTING

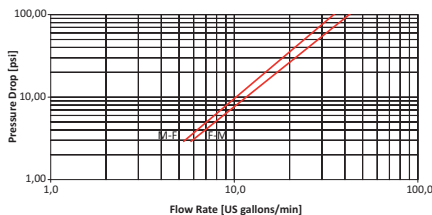
SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	CONNECTION EFFORT	OIL SPILLAGE Connection/ Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	Flow direction	L/min.	US GPM	N	lb.	cc.	cubic inch	Female		M+F		
												MPa	PSI	MPa	PSI	
12,5	1/2	-08	30	4350	F-->M	80	21,1	230	511	2,5	0,153	125	18125	125	18125	with male and female under pressure
					M-->F	68	18,0			with 0MPa of pressure						

Pressure Drop



Pressure Drop



Connectable with male ISO A and female under pressure ■ Working pressure 30MPa ■ Connection/disconnection PUSH-PULL
 ■ No shut-off, Manuli mechanical valve block system ■ Installation on pipe and ports ■ Breakaway function according to ISO 5675
 ■ Interchangeable according to ISO 7241-1 part A ■ Wide range of termination end ■ According to all requirements of ISO 5675

Conectable con macho ISO A con presión ■ Presión de trabajo 30 MPa ■ Conexión/desconexión PUSH-PULL ■ Sistema interno Manuli de bloques mecánico de la válvula para evitar le cierre por la presión ■ Instalación en tubo rígido y directamente al sistema ■ Presión de rotura según ISO 5675 ■ Intercambiable según ISO 7241-1 parte A ■ Amplia gama de roscas ■ Según todos los requerimientos ISO 5675

Verbindung mit ISO A Stecker auch unter Druck ■ Arbeitsdruck bis zu 30 MPa ■ PUSH-PULL Verbindungs- und Trennsystem ■ Manuli Ventilblockiersystem verhindert shut-off Schließeffekt ■ Montage an Rohren und Gehäuseanschlüssen ■ Losreißfunktion gem. ISO 5675 ■ Austauschbar gem. ISO 7241-1 Teil A ■ Viele verfügbare Anschlussvarianten ■ Entspricht allen Anforderungen der ISO 5675

Innestabile con maschio ISO A e femmina in pressione ■ Pressione di esercizio 30MPa ■ Connessione Disconnessione PUSH-PULL ■ Sistema intero Manuli di blocco meccanico delle valvole per evitarne la chiusura in presenza di alta portate ed inversioni di portata ■ Applicabile direttamente su tubi rigidi e ports dei distributori ■ Funzione breakaway, in accordo con la norma ISO 5675 ■ Intercambiabilità secondo la ISO 7241-1 parte A ■ Ampia gamma di terminali filettati ■ Soddisfa completamente tutti i requisiti della norma ISO 5675

TECHNICAL INFO

GB

MATERIAL:

Couplings in steel with some stressed area hardened, carbonitred valve, springs in C98 steel, seals in Polyurethane and NBR, back-up ring PTFE

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C

(for other temperatures the quick coupling is assembled with specific seals)

SAFETY FACTOR:

1:4 for dynamic pressures and 1:2 for static ones

IMPULSE PRESSURES:

500.000 cycles (connected and disconnected conditions) at 120% of the rated one (freq.1Hz)

TEST SPECIFICATIONS:

ISO 7241-2

ES

MATERIAL:

Acoplamiento de acero, con algunas zonas endurecidas, válvula carbonitrada, muelles en acero C98, juntas en NBR, anillo de soporte en PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C

(para otras temperaturas, el acoplamiento puede ser montado con juntas específicas)

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

PRESIONES DE IMPULSO:

500.000 ciclos (en condiciones de conectado y desconectado) a 1Hz y a 120% de la presión de trabajo

CARACTERÍSTICAS DE LA PRUEBA:

ISO 7241-2

D

MATERIAL:

Kupplungsteile aus Stahl einige hochbelastete Bereiche sind gehärtet, carbonitriertes Ventil, Federn aus C98 Stahl, NBR und Polyurethan Dichtungen, Stützring aus PTFE

BETRIEBSTEMPERATUR:

-22°F bis +230°F -30°C bis +110°C

(für abweichende Temperaturbereiche werden die

Kupplungen nach Bedarf mit anderen

Dichtungswerkstoffen ausgerüstet)

SICHERHEITSAKTOR:

1:4 für dynamische Belastung und 1:2 für statischen Druck

DRUCKIMPULSE:

500.000 Zyklen (gekuppelt wie auch getrennt) bei 120% des angegebenen Druckes (Freq. 1 Hz)

PRÜFUNGSBEDINGUNGEN:

ISO 7241-2

IT

MATERIALI:

Parti dell'innesto in acciaio al carbonio con zone sollecitate trattate termicamente, valvole carbonitrate, molle in C98, guarnizioni: Poliuretano e NBR antiestensione: PTFE

TEMPERATURE DI ESERCIZIO:

-22°F a +230°F -30°C a +110°C

(per temperature diverse, l'innesto rapido viene fornito con guarnizioni appropriate)

FATTORE DI SICUREZZA:

1:4 per pressioni dinamiche e 1:2 per pressioni statiche

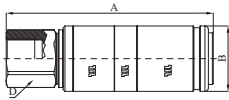
RESISTENZA A PRESSIONI PULSANTI:

500.000 cicli (sia accoppiato che disaccoppiato) a 1Hz al 120% della pressione di esercizio

TEST: ISO-7241-2

PUSH-PULL CONNECTABLE WITH BOTH PARTS UNDER PRESSURE RIGID MOUNTING - TERMINATION ENDS

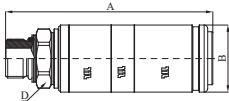
Q01911041A



METRIC TERMINATION ENDS TO DIN 3852 X TYPE
ROSCA MÉTRICA PARA DIN 3852 TIPO X
METRISCHE ANSCHLÜSSE NACH DIN 3852 FORM X
TERMINALI BSP A NORMA DIN 3852 FORMA X

SIZE			PART NUMBER	THREADS	DIMENSIONS mm		
mm	inch	dash	Female Coupling		A	B	D
12,5	1/2"	-08	Q01911041A-08-08	1/2"	120,8	ø38	30

Q01911190A



METRIC TERMINATION ENDS TO ISO 6149-2
ROSCA MÉTRICA PARA ISO 6149-2
METRISCHE ANSCHLÜSSE NACH ISO 6149-2
TERMINALI METRICI A NORMA ISO 6149-2

SIZE			PART NUMBER	THREADS	DIMENSIONS mm		
mm	inch	dash	Female Coupling		A	B	D
12,5	1/2"	-08	Q01911190A-08-22	M22x1,5	117,8	ø38	30



For info contact R&D Q.Safe.

Para información contacte con R&D Q.Safe.

Für Informationen die Q.Safe Entwicklungsabteilung kontaktieren.

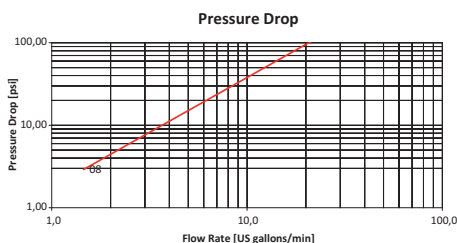
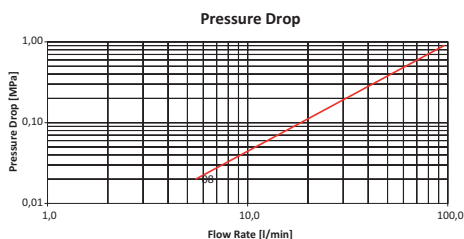
Per informazioni contattate R&D Q.safe.

BRAKING CIRCUITS VALVE



SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	CONNECTION EFFORT	OIL SPILLAGE Connection/ Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	L/min.	US GPM	N	lb.	cc.	cubic inch	Male		Female		M+F		
12,5	1/2	-08	15	2175	31	8,2	110	244	0,02	0,001	MPa	PSI	MPa	PSI	MPa	PSI	Not allowed
											130	18850	60	8700	130	18850	



Trailer brake coupling specially designed to connect the hydraulic braking system of tractors to trailers ■ Connection and disconnection by pulling back the sleeve ■ Positive connection by latching balls system ■ Shut-off by flat valve ■ The male has to be placed on the tractor and the female on the implement ■ Interchangeable according to ISO 5676

Acoplamiento de frenado del remolque diseñado especialmente para conectar el sistema hidráulico de los tractores a los remolques ■ Conexión y desconexión del casquillo ■ Conexión positiva mediante el sistema de bolas de cierre ■ Oclusión por válvula plana ■ El macho se debe colocar en el tractor y la hembra en el implemento ■ Intercambiable según ISO 5676

Anhängerbremsskupplung, speziell für den Anschluss von Hydraulikbremssystemen von Traktoranhängern ■ Anschluss und Trennung durch Zurückziehen der Hülse ■ Schnelle Verbindung mit Kugeleinrastsystem ■ Verschluss durch Tellerventil ■ Der Kupplungsstecker wird am Traktor montiert, die Kupplungsmuffe am Anhänger ■ Austauschbar nach ISO 5676

Serie specifica per il collegamento degli impianti di frenatura idraulica in applicazioni agricole ■ Connessione e disconnessione mediante arretramento della ghiera ■ Bloccaggio tra maschio e femmina garantito da un elevato numero di sfere metalliche ■ Sistema di tenuta mediante valvola plana ■ Innesto maschio montato sul trattore ed innesto femmina montato sul rimorchio ■ Intercambiabilità secondo norma ISO 5676



Safety cap for male coupling and female coupling with parking included.

Tapón de protección de la espiga y el acoplamiento incluido de serie.

Sicherheitsverschlusskappe auch als Abgabe vercuendbar im Lieferumfang anthalten.

Tappo di protezione dell'innesto maschio e supporto metallico dell'innesto femmina forniti di serie.

GB

MATERIAL:

Female and male coupling in steel, with some stressed tempered areas. Carbonitrited valve and sleeve, springs in C98 steel, seals in NBR and Back-up Ring in PTFE

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C

SAFETY FACTOR:

1:4 for dynamic pressures and 1:2 for static ones

TEST SPECIFICATIONS:

ISO ISO 5676 and ISO 7241-2

ES

MATERIAL:

Acoplamiento de hembra y macho en acero, con algunas zonas templadas con sobrecarga. Válvula y casquillo carbonitrados, muelles en acero C98, juntas en NBR y anillo de soporte en PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

CARACTERÍSTICAS DE LA PRUEBA:

ISO 5676 y ISO 7241-2

D

MATERIAL:

Stecker und Muffe aus Stahl mit einigen gehärteten Bereichen. Carbonitriertes Ventil und Hülse, Federn aus C98-Stahl, NBR-Dichtungen und PTFE-Stützring

BETRIEBSTEMPERATUR:

-22°F bis +230°F -30°C bis +110°C

SICHERHEITSFAKTOR:

1:4 für dynamischen und 1:2 für statischen Druck

PRÜFUNGSBEDINGUNGEN:

ISO 5676 und ISO 7241-2

IT

MATERIALI:

Innesti femmina e maschio in acciaio, con parti sollecitate temprate. Ghiere e valvole carbonitrate. Molle in acciaio C98. Guarnizioni in NBR e anelli anti-estrusione in PTFE

TEMPERATURE DI ESERCIZIO:

-22°F a +230°F -30°C a +110°C

FATTORE DI SICUREZZA:

1:4 per pressioni dinamiche e 1:2 per pressioni statiche

TEST:

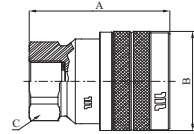
ISO 5676 e ISO 7241-2

BRAKING CIRCUITS VALVE - TERMINATION ENDS

BSP

Q04811041A

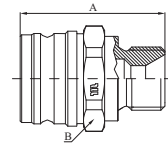
BSP TERMINATION ENDS
ROSCA BSP
BSP ANSCHLÜSSE
TERMINALI BSP



SIZE			PART NUMBER	THREADS	STANDARD	DIMENSIONS mm			
mm	inch	dash	Female Coupling			A	B	C	D
12,5	1/2"	-08	Q04811041A-08-06	3/8"	—	55,5	ø44	32	—
			Q04811041A-08-08	1/2"	—	56,5	ø44	32	—

Q04711050A

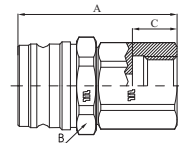
BSP TERMINATION END TO ISO 8434-6
BSP PARA BS5200 Y ISO 8434-6
BSP ANSCHLÜSSE NACH ISO 8434-6
TERMINALI BSP A NORMA ISO 8434-6



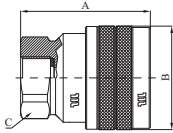
SIZE			PART NUMBER	THREADS	STANDARD	DIMENSIONS mm			
mm	inch	dash	Male Coupling			A	B	C	D
12,5	1/2"	-08	Q04711050A-08-08	1/2"	BS5200 DIN 3582-2 form A	48	32	—	—

Q04711041A

BSP TERMINATION ENDS
ROSCA BSP
BSP ANSCHLÜSSE
TERMINALI BSP



SIZE			PART NUMBER	THREADS	STANDARD	DIMENSIONS mm			
mm	inch	dash	Male Coupling			A	B	C	D
12,5	1/2"	-08	Q04711041A-08-08	1/2"	—	57	32	16	—

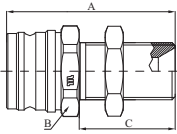
BRAKING CIRCUITS VALVE - TERMINATION ENDS**METRIC****Q04811141A****METRIC TERMINATION ENDS**

ROSCA MÉTRICA

METRISCHE ANSCHLÜSSE

TERMINALI METRICI

SIZE			PART NUMBER	THREADS	STANDARD	DIMENSIONS mm			
mm	inch	dash	Female Coupling			A	B	C	D
12,5	1/2"	-08	Q04811141A-08-18	M18x1,5	–	55,5	ø44	32	–

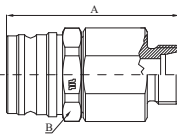
**Q04711370A****METRIC TERMINATION ENDS TO DIN 3863 BULKHEAD**

ROSCA MÉTRICA PARA DIN 3863 PASATABIQUE

METRISCHE ANSCHLÜSSE NACH DIN 3863 SCHOTT

TERMINALI METRICI A NORMA DIN 3863 PASSAPARETE

SIZE			PART NUMBER	THREADS	STANDARD	DIMENSIONS mm			
mm	inch	dash	Male Coupling			A	B	C	D
12,5	1/2"	-08	Q04711370A-08-22	M22x1,5	DIN 3863	65	32	37	–

**Q04711110A****METRIC TERMINATION ENDS TO ISO 8434-1 L SERIES**

ROSCA MÉTRICA PARA ISO 8434-1 SERIE L

METRISCHE ANSCHLÜSSE NACH ISO 8434-1 SERIE L

TERMINALI METRICI A NORMA ISO 8434-1 SERIE L

SIZE			PART NUMBER	THREADS	STANDARD	DIMENSIONS mm			
mm	inch	dash	Male Coupling			A	B	C	D
12,5	1/2"	-08	Q04711110A-08-18	M18x1,5	ISO 8434-1 L series	65	32	–	–
			Q04711110A-08-22	M22x1,5	ISO 8434-1 L series	64,7	32	–	–

BRAKING CIRCUITS VALVE - TERMINATION ENDS

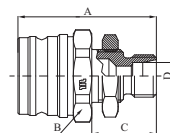
Q04711770A

METRIC TERMINATION ENDS

ROSCA MÉTRICA

METRISCHE V-ENDSTÜCKE

TERMINALI METRICI



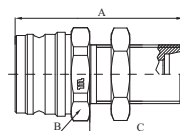
Q04711770A

METRIC TERMINATION ENDS TO ISO 8434-1 BULKHEAD L SERIES

ROSCA MÉTRICA PARA ISO 8434-1 PASATABIQUE SERIE L

METRISCHE V-ENDSTÜCKE NACH ISO 8434-1 SCHOTT SERIE L

TERMINALI METRICI A NORMA ISO 8434-1 PASSAPARETE SERIE L



SIZE			PART NUMBER	THREADS	STANDARD	DIMENSIONS mm			
mm	inch	dash	Male Coupling			A	B	C	D
12,5	1/2"	-08	Q04711770A-08-16	M16x1,5	–	52,5	32	24,5	ø10,2
			Q04711770A-08-18	M18x1,5	–	52	32	24	ø12,2
12,5	1/2"	-08	Q04711770A-08-22	M22x1,5	ISO 8434-1 L series	63	32	35	–

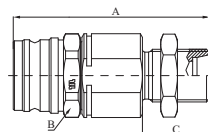
Q04711770B

METRIC TERMINATION ENDS TO ISO 8434-1 BULKHEAD L SERIES

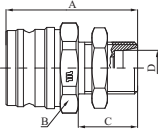
ROSCA MÉTRICA PARA ISO 8434-1 PASATABIQUE SERIE L

METRISCHE V-ENDSTÜCKE NACH ISO 8434-1 SCHOTT SERIE L

TERMINALI METRICI A NORMA ISO 8434-1 PASSAPARETE SERIE L



SIZE			PART NUMBER	THREADS	STANDARD	DIMENSIONS mm			
mm	inch	dash	Male Coupling			A	B	C	D
12,5	1/2"	-08	Q04711770B-08-22	M22x1,5	ISO 8434-1 L series	82	32	28	–

BRAKING CIRCUITS VALVE - TERMINATION ENDS**Q04711820A**

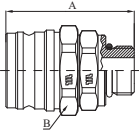
METRIC TERMINATION ENDS

ROSCA MÉTRICA

METRISCHE ANSCHLÜSSE

TERMINALI METRICI

SIZE			PART NUMBER	THREADS	STANDARD	DIMENSIONS mm			
mm	inch	dash	Male Coupling			A	B	C	D
12,5	1/2"	-08	Q04711820A-08-20	M20x1,5	–	51	32	23	ø13,5

SAE**Q04711300A**

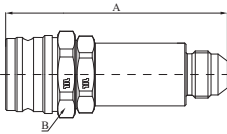
SAE TERMINATION ENDS TO SAE J1926-3

ROSCA SAE PARA SAE J1926-3

ANSCHLÜSSE MIT SAE NACH SAE J1926-3

TERMINALI SAE A NORMA SAE J1926-3

SIZE			PART NUMBER	THREADS	STANDARD	DIMENSIONS mm			
mm	inch	dash	Male Coupling			A	B	C	D
12,5	1/2"	-08	Q04711300A-08-08	3/4"-16 UNF	SAE J 1926-3	50	32	–	–

**Q04711250A**

SAE TERMINATION ENDS TO ISO 8434-2

ROSCA SAE PARA ISO 8434-2

ANSCHLÜSSE MIT SAE NACH ISO 8434-2

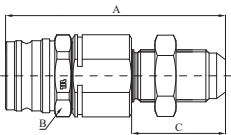
TERMINALI SAE A NORMA ISO 8434-2

SIZE			PART NUMBER	THREADS	STANDARD	DIMENSIONS mm			
mm	inch	dash	Male Coupling			A	B	C	D
12,5	1/2"	-08	Q04711250A-08-08	3/4"-16 UNF	ISO 8434-2	89,5	32	–	–

BRAKING CIRCUITS VALVE - TERMINATION ENDS

Q04711230A

SAE TERMINATION ENDS TO ISO 8434-2 BULKHEAD
ROSCA SAE PARA ISO 8434-2 PASATABIQUE
SAE ANSCHLÜSSE NACH ISO 8434-2 SCHOTT
TERMINALI SAE A NORMA ISO 8434-2 PASSAPARETE



SIZE			PART NUMBER	THREADS	STANDARD	DIMENSIONS mm			
mm	inch	dash	Male Coupling			A	B	C	D
12,5	1/2"	-08	Q04711230A-08-10	7/8"-14 UNF	ISO 8434-2	94,8	32	40,1	—



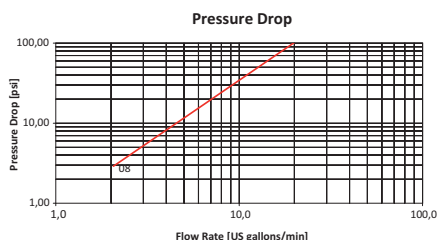
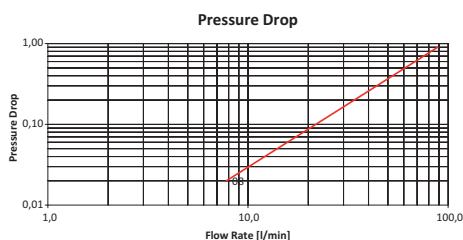
Q.Safe

MQS-VS

AGRICULTURAL VALVE

					
SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	OIL SPILLAGE Connection/ Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	L/min.	US GPM	cc.	cubic inch	Male		Female		M+F		
									MPa	PSI	MPa	PSI	MPa	PSI	
12,5	1/2"	-08	20	2900	34	9,0	0,02	0,001	130	18850	80	11600	140	20300	Allowed



Trailer brake coupling specially designed to connect the hydraulic braking system of tractors to trailers ■ Connection and disconnection by screwing the sleeve ■ Connection secured on the thread between the sleeve and the male coupling ■ Flat-valve

- Allowed connection and disconnection under pressure ■ The male has to be placed on the tractor and female on the implement
- Interchangeable with similar products available in the market

Seria específica para el enlace de las instalaciones de frenado hidráulico en aplicaciones agrícola ■ Conexión y desconexión mediante casquillo roscado ■ Bloqueo entre macho y hembra a través de casquillo roscado ■ Sistema de retención a través de válvula plana ■ Conexión y desconexión bajo presión ■ Espiga macho montada sobre el tractor y Acoplamiento hembra montada sobre el remolque ■ Intercambiabilidad garantizada con los principales productos del mercado

Anhängerbremskupplung, speziell für den Anschluss von Hydraulikbremssystemen von Traktoranhängern ■ Anschluss und Trennung durch Schrauben der Hülse ■ Anschluss über das Gewinde zwischen Hülse und Stecker gesichert ■ Anschluss und Trennung unter Druck erlaubt ■ Der Stecker wird am Traktor montiert, die Muffe am Anhänger ■ Mit ähnlichen, auf dem Markt erhältlichen Produkten austauschbar

Serie specifica per il collegamento degli impianti di frenatura idraulica in applicazioni agricole ■ Connessione e disconnessione a vite ■ Bloccaggio tra maschio e femmina mediante ghiera filettata ■ Sistema di tenuta mediante valvola piana ■ Innestabile e disinnestabile in pressione ■ Innesto maschio montato sul trattore ed innesto femmina montato sul rimorchio ■ Intercambiabilità garantita con i principali prodotti sul mercato



Safety cap for male coupling and parking for female included.

Tapón de protección de la espiga y el acoplamiento incluido de serie.

Sicherheitsdeckel für V-Kupplung und Ablage für M-Kupplung eingeschlossen.

Tappo di protezione dell'innesto maschio e supporto metallico dell'innesto femmina forniti di serie.

TECHNICAL INFO

GB**MATERIAL:**

Female and male coupling in steel, with hardened stressed areas. Carbonitrited valve, springs in C98 steel, seals in NBR and Back-up Ring in PTFE

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C

SAFETY FACTOR:

1:4 for dynamic pressures and 1:2 for static ones

TEST SPECIFICATIONS:

ISO 7241-2

ES**MATERIAL:**

Acoplamiento de hembra y macho en acero, con algunas zonas templadas con sobrecarga. Válvulas carbonitradas, muelles en acero C98, juntas en NBR y anillo de soporte en PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

CARACTERÍSTICAS DE LA PRUEBA:

ISO 7241-2

D**MATERIAL:**

Kupplungsstecker und -muffe aus Stahl mit einigen gehärteten Bereichen. Carbonitriertes Ventil, Federn aus C98-Stahl, NBR-Dichtungen und PTFE-Stützring

BETRIEBSTEMPERATUR:

-22°F bis +230°F -30°C bis +110°C

SICHERHEITSFAKTOR:

1:4 für dynamischen und 1:2 für statischen Druck

PRÜFUNGSBEDINGUNGEN:

ISO 7241-2

IT**MATERIALI:**

Innesti femmina e maschio in acciaio, con parti sollecitate trattate termicamente. Valvole carbonitrate. Molle in acciaio C98. Guarnizioni in NBR e anelli anti-estrusione in PTFE

TEMPERATURE DI ESERCIZIO:

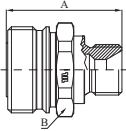
-22°F a +230°F -30°C a +110°C

FAITTORE DI SICUREZZA:

1:4 per pressioni dinamiche e 1:2 per pressioni statiche

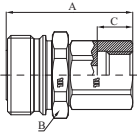
TEST:

ISO 7241-2

AGRICULTURAL VALVE - TERMINATION ENDS**BSP****Q04911050A**

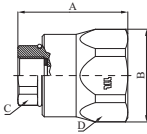
BSP TERMINATION END TO ISO 8434-6
 ROSCA BSP PARA ISO 8434-6
 BSP ANSCHLÜSSE NACH ISO 8434-6
 TERMINALE BSP A NORMA ISO 8434-6

SIZE			PART NUMBER	THREADS	STANDARD	DIMENSIONS mm			
mm	inch	dash	Male Coupling			A	B	C	D
12,5	1/2"	-08	Q04911050A-08-08	1/2" BSP	ISO 8434-6	48	36	–	–

**Q04911041A**

BSP TERMINATION ENDS
 ROSCA BSP
 BSP ANSCHLÜSSE
 TERMINALI BSP

SIZE			PART NUMBER	THREADS	STANDARD	DIMENSIONS mm			
mm	inch	dash	Male Coupling			A	B	C	D
12,5	1/2"	-08	Q04911041A-08-08	1/2" BSP	–	57	36	16	–

METRIC**Q05011141A**

METRIC TERMINATION ENDS
 ROSCA MÉTRICA
 METRISCHE ANSCHLÜSSE
 TERMINALI METRICI

SIZE			PART NUMBER	THREADS	STANDARD	DIMENSIONS mm			
mm	inch	dash	Male Coupling			A	B	C	D
12,5	1/2"	-08	Q05011141A-08-18	M18x1,5	–	53,5	ø45	27	41

AGRICULTURAL VALVE - TERMINATION ENDS

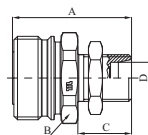
Q04911820A

METRIC TERMINATION ENDS BULKHEAD

ROSCA MÉTRICA PASATABIQUE

METRISCHE ANSCHLÜSSE SCHOTT

TERMINALI METRICI PASSAPARETE



SIZE			PART NUMBER	THREADS	STANDARD	DIMENSIONS mm			
mm	inch	dash	Male Coupling			A	B	C	D
12,5	1/2"	-08	Q04911820A-08-20	M20x1,5	–	51	36	23	ø13,5

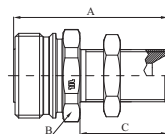
Q04911370A

METRIC TERMINATION ENDS TO DIN 3863 BULKHEAD

ROSCA MÉTRICA PARA DIN 3863 PASATABIQUE

METRISCHE ANSCHLÜSSE NACH DIN 3863 SCHOTT

TERMINALI METRICI A NORMA DIN 3863 PASSAPARETE



SIZE			PART NUMBER	THREADS	STANDARD	DIMENSIONS mm			
mm	inch	dash	Male Coupling			A	B	C	D
12,5	1/2"	-08	Q04911370A-08-22	M22x1,5	DIN 3863	65	36	37	–

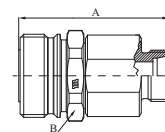
Q04911110A

METRIC TERMINATION ENDS TO ISO 8434-1 L SERIES

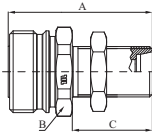
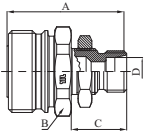
ROSCA MÉTRICA PARA ISO 8434-1 SERIE L

METRISCHE ANSCHLÜSSE NACH ISO 8434-1 SERIE L

TERMINALI METRICI A NORMA ISO 8434-1 SERIE L



SIZE			PART NUMBER	THREADS	STANDARD	DIMENSIONS mm			
mm	inch	dash	Male Coupling			A	B	C	D
12,5	1/2"	-08	Q04911110A-08-18	M18x1,5	ISO 8434-1 L series	65	36	–	–
			Q04911110A-08-22	M22x1,5	ISO 8434-1 L series	64,7	36	–	–

AGRICULTURAL VALVE - TERMINATION ENDS**Q04911770A****METRIC TERMINATION ENDS**

ROSCA MÉTRICA

METRISCHE ANSCHLÜSSE

TERMINALI METRICI

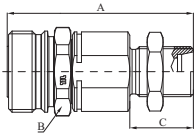
Q04911770A**METRIC TERMINATION ENDS TO ISO 8434 BULKHEAD L SERIES**

ROSCA MÉTRICA PARA ISO 8434 PASATABIQUE SERIE L

METRISCHE ANSCHLÜSSE NACH ISO 8434-1 SCHOTT SERIE L

TERMINALI METRICI A NORMA ISO 8434 PASSAPARETE SERIE L

SIZE			PART NUMBER	THREADS	STANDARD	DIMENSIONS mm			
mm	inch	dash	Male Coupling			A	B	C	D
12,5	1/2"	-08	Q04911770A-08-16	M16x1,5	–	52,5	36	24,5	ø10,2
			Q04911770A-08-18	M18x1,5	–	52	36	24	ø12,2
12,5	1/2"	-08	Q04911770A-08-22	M22x1,5	ISO 8434-1 L series	63	36	35	–

**Q04911770B****METRIC TERMINATION ENDS TO ISO 8434 BULKHEAD L SERIES**

ROSCA MÉTRICA PARA ISO 8434-1 PASATABIQUE SERIE L

METRISCHE ANSCHLÜSSE NACH ISO 8434-1 SCHOTT SERIE L

TERMINALI METRICI A NORMA ISO 8434 PASSAPARETE SERIE L

SIZE			PART NUMBER	THREADS	STANDARD	DIMENSIONS mm			
mm	inch	dash	Male Coupling			A	B	C	D
12,5	1/2"	-08	Q04911770B-08-22	M22x1,5	ISO 8434-1 L series	82	36	28	–

AGRICULTURAL VALVE - TERMINATION ENDS

SAE

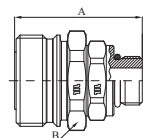
Q04911300A

TERMINATION ENDS TO SAE J1926-3

ROSCA PARA SAE J1926-3

ANSCHLÜSSE MIT NACH SAE J1926-3

TERMINALI A NORMA SAE J1926-3



SIZE			PART NUMBER	THREADS	STANDARD	DIMENSIONS mm			
mm	inch	dash	Male Coupling			A	B	C	D
12,5	1/2"	-08	Q04911300A-08-08	3/4"-16 UNF	SAE J 1926-3	50	36	—	—

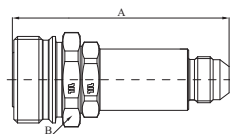
Q04911250A

TERMINATION ENDS TO ISO 8434-2

ROSCA PARA ISO 8434-2

ANSCHLÜSSE NACH ISO 8434-2

TERMINALI A NORMA ISO 8434-2



SIZE			PART NUMBER	THREADS	STANDARD	DIMENSIONS mm			
mm	inch	dash	Male Coupling			A	B	C	D
12,5	1/2"	-08	Q04911250A-08-08	3/4"-16 UNF	ISO 8434-2	89,5	36	—	—

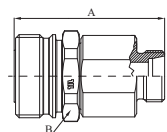
Q04911230A

TERMINATION ENDS TO ISO 8434-2 BULKHEAD

ROSCA PARA ISO 8434-2 PASATABIQUE

ANSCHLÜSSE NACH ISO 8434-2 SCHOTT

TERMINALI A NORMA ISO 8434-2 PASSAPARETE



SIZE			PART NUMBER	THREADS	STANDARD	DIMENSIONS mm			
mm	inch	dash	Male Coupling			A	B	C	D
12,5	1/2"	-08	Q04911230A-08-10	7/8"-14 UNF	ISO 8434-2	94,8	36	40,1	—



			
SIZE	WORKING PRESSURE (Dynamic)	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	Male		
					MPa	PSI	
5	1/8"	-02	42	6090	250	36250	Allowed

 Quick couplings purposely designed to easily access hydraulic systems for performance testing ■ Installing male coupling in several parts of the hydraulic system, a reliable diagnosis can be carried out in short time ■ Connection by pushing the male coupling in the female or viceversa ■ Disconnection by pulling back the sleeve ■ Retaining by ball latching system ■ Shut off system by flat valve ■ Wide range of termination ends available on request and protective cap ■ Interchangeability according to ISO 15171-1 and SAE J1502

Enchufe rápido diseñado para comprobar la presión del circuito hidráulico ■ Parte macho montada en varios puntos del circuito hidráulico, permitiendo un rápido y fiable diagnóstico ■ Conexión empujando la parte macho en la hembra ■ Desconexión tirando del casquillo ■ Bloqueo del macho y hembra mediante corona de esferas ■ Oclusión mediante válvula plana ■ Disponible bajo pedido amplia gama de rosas y tapones de protección ■ Intercambiabilidad según norma ISO 15171-1 y SAE J1502

Speziell designte Schnellkupplungen für einen einfachen Zugang zu den Hydrauliksystemen, um die Leistung zu testen ■ Durch die Installation von Steckern an verschiedenen Stellen des Hydrauliksystems, können zuverlässige Diagnosen in kurzer Zeit ausgeführt werden ■ Anschluss durch Drücken der Stecker in die Muffe ■ Trennung durch Zurückziehen der Hülse ■ Rückhalt durch Kugeleinrastsystem ■ Schließen durch Tellerventil ■ Große Auswahl an Endstücken auf Anfrage verfügbar ■ Austauschbarkeit nach ISO 15171-1 und SAE J1502

Innesti rapidi specificamente realizzati per rilevare la pressione presente in un circuito idraulico ■ Parte maschio montata in vari punti del circuito idraulico, permettendo una rapida e affidabile diagnosi ■ Connessione spingendo la parte maschio nella femmina o viceversa ■ Disconnessione mediante arretramento della ghiera della parte femmina ■ Bloccaggio tra maschio e femmina mediante corona di sfere ■ Sistema di tenuta mediante valvola plana ■ Disponibile su richiesta tappo di protezione e vasta gamma di terminali filettati ■ Intercambiabilità secondo norme ISO 15171-1 e SAE J1502

TECHNICAL INFO

GB

MATERIAL:

Male coupling in steel, with some hardened areas in correspondence to the most stressed points. Carbonitrited valve, spring in C98 steel and seals in NBR (other materials on request)

WORKING TEMPERATURE:

-22°F up to 230°F -30°C up to +110°C

(for different temperature range, the coupling can be assembled with specific seals)

SAFETY FACTOR:

1:4 for dynamic pressures and 1:2 for static pressures

IMPULSE PRESSURES:

1.000.000 cycles at 133% of the rated one (freq. 1Hz)

TEST SPECIFICATIONS:

ISO 15171-1, SAE J1502 and ISO 7241-2

ES

MATERIAL:

El acoplamiento de hembra y macho en acero, con algunas zonas endurecidas, que corresponden a los puntos de más sobrecarga. Válvula y casquillo carbonitrados, muelles en acero C98, juntas en NBR (otros materiales disponibles bajo solicitud) y anillo de soporte en PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C

(para otras temperaturas, el acoplamiento puede ser montado con juntas específicas)

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

PRESIONES DE IMPULSO:

1.000.000 ciclos a 133% de la nominal (frec. 1Hz)

CARACTERÍSTICAS DE LA PRUEBA:

ISO 15171-1, SAE J1502 y ISO 7241-2

D

MATERIAL:

Stecker aus Stahl mit einigen gehärteten Zonen im Bereich der am meisten beanspruchten Punkte. Carbonitriertes Ventil, Feder aus C98-Stahl, NBR-Dichtungen (andere Materialien auf Anfrage)

BETRIEBSTEMPERATUR:

-22°F bis 230°F -30°C bis +110°C

(für andere Temperaturen können die Kupplungen mit spezifischen Dichtungen ausgestattet werden)

SICHERHEITSAKTOR:

1:4 für dynamischen Druck und 1:2 für statischen Druck

DRUCKIMPULSE:

1.000.000 Zyklen bei 133% des angegebenen Druckes (Frequenz 1Hz)

PRÜFUNGSBEDINGUNGEN:

ISO 15171-1, SAE J1502 und ISO 7241-2

IT

MATERIALI:

Innesto maschio in acciaio con zone sollecitate temprate. Valvola carbonitratata. Molle in acciaio C98. Guarnizioni in NBR (altri materiali su richiesta)

TEMPERATURE DI ESERCIZIO:

-22°F a +230°F -30°C a +110°C

(per temperature diverse, l'innesto rapido viene fornito con guarnizioni appropriate)

FATTORE DI SICUREZZA:

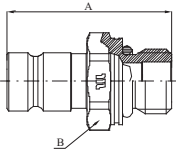
1:4 per pressioni dinamiche e 1:2 per pressioni statiche

RESISTENZA A PRESSIONI PULSANTI:

1.000.000 cicli a 1Hz al 133% della pressione di esercizio

TEST:

ISO 15171-1, SAE J1502 e ISO 7241-2

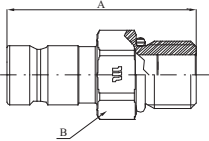
MALE DIAGNOSTIC - TERMINATION ENDS**METRIC****Q04511190A****METRIC TERMINATION ENDS TO ISO 6149-2 S SERIES**

ROSCA MÉTRICA PARA ISO 6149-2 SERIE S

METRISCHE ANSCHLÜSSE NACH ISO 6149-2 SERIE S

TERMINALI METRICI A NORMA ISO 6149-2 SERIE S

SIZE			PART NUMBER	THREADS	DIMENSIONS mm				
mm	inch	dash	Male Coupling		A	B			
5	1/8"	-02	Q04511190A-02-14	M14x1,5	36,4	19			

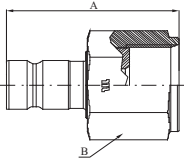
SAE**Q04511320A****ORB TERMINATION ENDS TO SAE J1926-2 S SERIES**

ROSCA ORB PARA SAE J1926-2 SERIE S

ORB ANSCHLÜSSE NACH SAE J1926-2 SERIE S

TERMINALI ORB A NORMA SAE J1926-2 SERIE S

SIZE			PART NUMBER	THREADS	DIMENSIONS mm				
mm	inch	dash	Male Coupling		A	B			
5	1/8"	-02	Q04511320A-02-06	9/16"-18 UNF	37,4	17			

**Q04511241A****ORFS TERMINATION ENDS TO SAE J1453**

ROSCA ORFS PARA SAE J1453

ORFS ANSCHLÜSSE MIT NACH SAE J1453

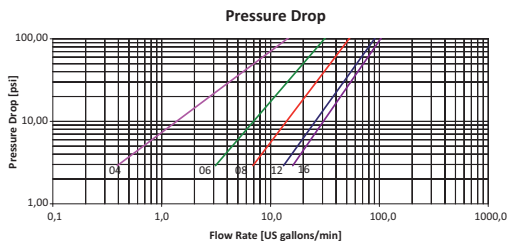
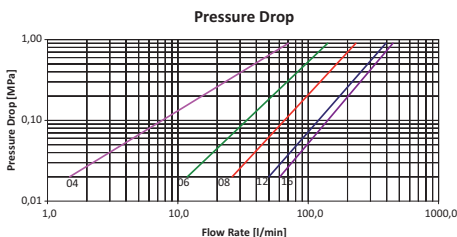
TERMINALI ORFS A NORMA SAE J1453

SIZE			PART NUMBER	THREADS	DIMENSIONS mm				
mm	inch	dash	Male Coupling		A	B			
5	1/8"	-02	Q04511241A-02-08	13/16"-16 UN	38,8	24			



SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	CONNECTION EFFORT	OIL SPILLAGE Connection/ Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	L/min.	US GPM	N	lb.	cc.	cubic inch	Male		Female		M+F		
											MPa	PSI	MPa	PSI	MPa	PSI	
6,3	1/4"	-04	32	4640	15	4,0	130	289	0,005	0,0003	160	23200	140	20300	150	21750	Not allowed
10	3/8"	-06	25	3625	53	14,0	130	289	0,007	0,0004	135	19575	125	18125	150	21750	Not allowed
12,5	1/2"	-08	25	3625	98	25,9	140	311	0,008	0,0005	105	15225	110	15950	140	20300	Not allowed
20	3/4"	-12	25	3625	174	46,0	210	467	0,009	0,0005	105	15225	100	14500	120	17400	Not allowed
25	1"	-16	21	3045	203	53,6	230	511	0,02	0,0012	95	13775	85	12325	150	21750	Not allowed



Flat mating surfaces easily wiped clean to prevent contamination and spillage during connection/disconnection ■ Connection is made by pushing the male coupling and disconnection by pulling back the sleeve of the female ■ Positive, quick connection of the male into the female by the latching ball system ■ Shut-off by flat valve ■ Interchangeability according to ISO 16028 and HTMA standards (only for 3/8") ■ 1.000.000 cycles at 133% of rated (freq. 1Hz - connected conditions)

Conexión y desconexión sin fugas y de limpieza fácil gracias a las superficies planas del acoplamiento ■ La conexión se realiza empujando la espiga y la desconexión tirando del casquillo del acoplamiento ■ Bloqueo entre macho y hembra garantizada por un elevado número de bolas metálicas ■ Sistema de retención a través de válvula plana ■ Intercambiabilidad según normas ISO 16028 y HTMA (sólo 3/8") ■ 1.000.000 ciclos a 133% de la presión de ejercicio, (frecuencia 1Hz en condiciones de acoplamiento conectado)

Flache Anschlussflächen sind leicht sauber zu halten, was Verunreinigungen und Auslaufen bei Anschluss/Trennung verhindert ■ Der Anschluss erfolgt durch Eindrücken der V-Kupplung, die Trennung durch zurückziehen der M-Kupplung ■ Schnelle Verbindung mit Kugeleinrastsystem ■ Schließen durch Flachschieber ■ Austauschbarkeit nach ISO 16028 HTMA-Standards (nur für 3/8") ■ 1.000.000 Zyklen bei 133% des gemessenen (Frequenz 1Hz)

Connessione e disconnessione in assenza di spillaggio e semplicità di pulizia grazie alle superfici piane di accoppiamento ■ Connessione spingendo la parte maschio nella femmina Disconnessione mediante arretramento della ghiera della parte femmina ■ Bloccaggio tra maschio e femmina garantito da un elevato numero di sfere metalliche ■ Sistemi di tenuta mediante valvola plana ■ Intercambiabilità secondo norme ISO 16028 e HTMA (solo 3/8") ■ 1.000.000 cidi a 133% della pressione di esercizio (frequenza 1Hz in condizioni di innesti connessi)

GB**MATERIAL:**

Female and male coupling in steel, with some stressed tempered or carbonitrited areas. Springs in AISI and C98 steel, seals in polyurethane and NBR. Other materials (VITON, EPDM or any others) on request

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C
(for other temperatures the coupling is assembled with the specified seals)

SAFETY FACTOR:

1:4 for dynamic pressures and 1:2 for static ones

IMPULSE PRESSURES:

100.000 cycles at 133% of the rated one (freq. 1Hz) in disconnected conditions, 1.000.000 cycles at 133% of rated one (freq. 1Hz) in connected conditions

TEST SPECIFICATIONS:

ISO 16028: 1997 amd.1.2006 (E) and ISO 7241-2

D**MATERIAL:**

Stecker und Kupplungsmuffe aus Stahl mit gehärteten oder carbonitrierten Teilebereichen. Federn aus AISI-C98-Stahl, Dichtungen aus Polyurethan und NBR. Andere Materialien (VITON, EPDM oder andere) auf Anfrage

BETRIEBSTEMPERATUR:

-22°F bis +230°F -30°C bis +110°C
(für andere Temperaturen werden die Schnell-Kupplungen mit angegebenen Dichtungen ausgestattet)

SICHERHEITSAKTOR:

1:4 für dynamischen und 1:2 für statischen Druck

DRUCKIMPULSE:

100.000 Zyklen bei 133% des angegebenen Arbeitsdruckes (Freq. 1Hz) ausgekuppelt, 100.000 Zyklen bei 133% des angegebenen Arbeitsdruckes (Freq. 1Hz) gekuppelt

TEST SPECIFICATIONS:

ISO 16028: 1997 amd.1.2006 (E) und ISO 7241-2

ES**MATERIAL:**

El acoplamiento de hembra y macho en acero, con algunas zonas endurecidas, que corresponden a los puntos de más sobrecarga. Válvula y casquillo carbonitrados, muelles en acero C98, juntas en NBR (VITON, EPDM y otros materiales disponibles bajo solicitud) y anillo de soporte en PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C
(para otras temperaturas, el acoplamiento puede ser montado con juntas específicas)

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

PRESIONES DE IMPULSO:

100.000 ciclos a 133% de la nominal (frec. 1Hz) en condiciones de conoctado y desconectado, 1.000.000 ciclos a 133% de la nominal (frec. 1Hz)

CARACTERÍSTICAS DE LA PRUEBA:

ISO 16028: 1997 amd.1.2006 (E) y ISO 7241-2

IT**MATERIALI:**

Innesti femmina e maschio in acciaio, con parti sollecitate temprate. Molle in acciaio AISI e C98. Guarnizioni in Poliuretano e NBR (VITON, EPDM e altri materiali su richiesta)

TEMPERATURE DI ESERCIZIO:

-22°F a +230°F -30°C a +110°C
(per temperature diverse, l'innesto rapido viene fornito con guarnizioni appropriate)

FATTORE DI SICUREZZA:

1:4 per pressioni dinamiche e 1:2 per pressioni statiche

RESISTENZA A PRESSIONI PULSANTI:

100.000 cicli a 1Hz al 133% della pressione d'esercizio in condizioni di innesti disconnessi, 1.000.000 cicli a 1Hz al 133% della pressione d'esercizio in condizioni di innesti connessi

TEST:

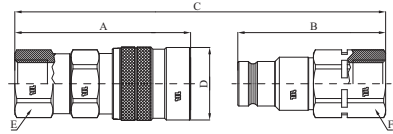
ISO 16028: 1997 amd.1.2006 (E) e ISO 7241-2

FLAT-FACE - TERMINATION ENDS

BSP

Q04111041A - Q03911041A

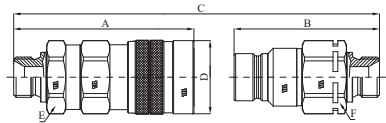
BSP TERMINATION ENDS TO DIN 3852 X TYPE
 ROSCA BSP PARA DIN 3852 TIPO X
 BSP ANSCHLÜSSE NACH DIN 3852 FORM X
 TERMINALI BSP A NORMA DIN 3852 FORMA X



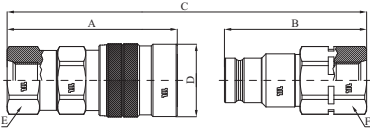
SIZE			PART NUMBER		THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
6,3	1/4"	-04	Q04111041A-04-04	Q03911041A-04-04	1/4"	63,6	52,1	A+B-11,1	ø28	24	22
			Q04111041A-04-06	Q03911041A-04-06	3/8"	63,6	53,6	A+B-11,1	ø28	24	22
10	3/8"	-06	Q04111041A-06-06	Q03911041A-06-06	3/8"	74,9	62,5	A+B-15,9	ø32	27	27
			Q04111041A-06-08	Q03911041A-06-08	1/2"	77,9	65,5	A+B-15,9	ø32	27	27
12,5	1/2"	-08	Q04111041A-08-08	Q03911041A-08-08	1/2"	84,7	72,5	A+B-17,1	ø38	34	34
			Q04111041A-08-12	Q03911041A-08-12	3/4"	86,7	74,5	A+B-17,1	ø38	34	34
20	3/4"	-12	Q04111041A-12-12	Q03911041A-12-12	3/4"	105,9	88,5	A+B-21,7	ø48	41	41
			Q04111041A-12-16	Q03911041A-12-16	1"	108,9	91,5	A+B-21,7	ø48	41	41
25	1"	-16	Q04111041A-16-16	Q03911041A-16-16	1"	114,5	89,8	A+B-22,9	ø55	50	50
			Q04111041A-16-20	Q03911041A-16-20	1.1/4"	116,5	94,8	A+B-22,9	ø55	50	50

Q04111050A - Q03911050A

BSP TERMINATION END TO ISO 8434-6
 ROSCA BSP PARA ISO 8434-6
 BSP ANSCHLÜSSE NACH ISO 8434-6
 TERMINALI BSP A NORMA ISO 8434-6

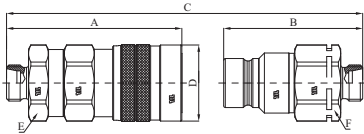


SIZE			PART NUMBER		THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
10	3/8"	-06	Q04111050A-06-06	Q03911050A-06-06	3/8"	82,6	65,2	A+B-15,9	ø32	27	27
			Q04111050A-06-08	Q03911050A-06-08	1/2"	85,1	67,7	A+B-15,9	ø32	27	27
12,5	1/2"	-08	Q04111050A-08-08	Q03911050A-08-08	1/2"	92,9	77,7	A+B-17,1	ø38	34	34

FLAT-FACE - TERMINATION ENDS**METRIC****Q04111191A - Q03911191A**

METRIC TERMINATION ENDS TO ISO 6149-1
ROSCA MÉTRICA PARA ISO 6149-1
METRISCHE ANSCHLÜSSE NACH ISO 6149-1
TERMINALI METRICI A NORMA ISO 6149-1

SIZE			PART NUMBER		THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
10	3/8"	-06	Q04111191A-06-16	Q03911191A-06-16	M16x1,5	75,4	63	A+B-15,9	ø32	27	27
			Q04111191A-06-18	Q03911191A-06-18	M18x1,5	76,9	64,5	A+B-15,9	ø32	27	27

**Q04111110A - Q03911110A**

METRIC TERMINATION ENDS TO ISO 8434-1 L SERIES
ROSCA MÉTRICA PARA ISO 8434-1 PASATABIQUE SERIE L
METRISCHE ANSCHLÜSSE NACH ISO 8434-1 SERIE L
INNESTI RAPIDI CON TERMINALI METRICI A NORMA ISO 8434-1 SERIE L

SIZE			PART NUMBER		THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
6,3	1/4"	-04	Q04111110A-04-12	Q03911110A-04-12	M12x1,5	68,6	50,1	A+B-11,1	ø28	24	22
			Q04111110A-04-14	Q03911110A-04-14	M14x1,5	68,6	50,1	A+B-11,1	ø28	24	22
			Q04111110A-04-16	Q03911110A-04-16	M16x1,5	68,6	50,1	A+B-11,1	ø28	24	22
10	3/8"	-06	Q04111110A-06-16	Q03911110A-06-16	M16x1,5	78,9	62,5	A+B-15,9	ø32	27	27
			Q04111110A-06-18	Q03911110A-06-18	M18x1,5	78,9	61,5	A+B-15,9	ø32	27	27
			Q04111110A-06-22	Q03911110A-06-22	M22x1,5	79,9	62,5	A+B-15,9	ø32	27	27
12,5	1/2"	-08	Q04111110A-08-18	Q03911110A-08-18	M18x1,5	86,7	72,5	A+B-17,1	ø38	34	34
			Q04111110A-08-22	Q03911110A-08-22	M22x1,5	87,7	72,5	A+B-17,1	ø38	34	34
			Q04111110A-08-26	Q03911110A-08-26	M26x1,5	87,7	72,5	A+B-17,1	ø38	34	34
20	3/4"	-12	Q04111110A-12-26	Q03911110A-12-26	M26x1,5	101,9	86,5	A+B-21,7	ø48	41	41
			Q04111110A-12-30	Q03911110A-12-30	M30x2	103,9	88,5	A+B-21,7	ø48	41	41
25	1"	-16	Q04111110A-16-30	Q03911110A-16-30	M30x2	110,5	79,8	A+B-22,9	ø55	50	50

FLAT-FACE - TERMINATION ENDS

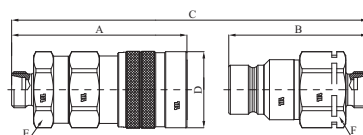
Q04111120A - Q03911120A

METRIC TERMINATION ENDS TO ISO 8434-1 S SERIES

ROSCA MÉTRICA PARA ISO 8434-1 SERIE S

METRISCHE ANSCHLÜSSE NACH ISO 8434-1 SERIE S

TERMINALI METRICI A NORMA ISO 8434-1 SERIE S



SIZE			PART NUMBER	THREADS	DIMENSIONS mm						
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
6,3	1/4"	-04	Q04111120A-04-16	Q03911120A-04-16	M16x1,5	69,6	51,1	A+B-11,1	ø28	24	22
			Q04111120A-04-18	Q03911120A-04-18	M18x1,5	69,6	51,1	A+B-11,1	ø28	24	22
10	3/8"	-06	Q04111120A-06-18	Q03911120A-06-18	M18x1,5	79,9	62,5	A+B-15,9	ø32	27	27
			Q04111120A-06-20	Q03911120A-06-20	M20x1,5	79,9	62,5	A+B-15,9	ø32	27	27
12,5	1/2"	-08	Q04111120A-08-20	Q03911120A-08-20	M20x1,5	87,7	72,5	A+B-17,1	ø38	34	34
			Q04111120A-08-24	Q03911120A-08-24	M24x1,5	87,7	74,5	A+B-17,1	ø38	34	34
20	3/4"	-12	Q04111120A-12-30	Q03911120A-12-30	M30x2	105,9	90,5	A+B-21,7	ø48	41	41
25	1"	-16	Q04111120A-16-36	Q03911120A-16-36	M36x2	114,5	83,8	A+B-22,9	ø55	50	50

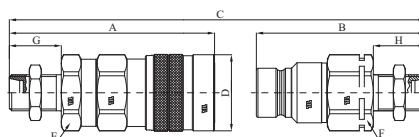
Q04111770B - Q03911770B

METRIC TERMINATION ENDS TO ISO 8434-1 BULKHEAD L SERIES

ROSCA MÉTRICA PARA ISO 8434-1 PASATABIQUE SERIE L

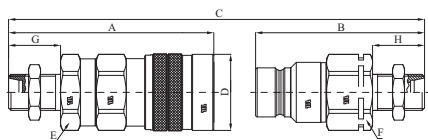
METRISCHE ANSCHLÜSSE NACH ISO 8434-1 SCHOTT SERIE L

TERMINALI METRICI A NORMA ISO 8434-1 SERIE L PASSAPARETE



SIZE			PART NUMBER		THREADS	DIMENSIONS mm							
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F	G	H
6,3	1/4"	-04	Q04111770B-04-12	Q03911770B-04-12	M12x1.5	82,6	65,1	A+B-11,1	ø28	24	22	25	25
			Q04111770B-04-14	Q03911770B-04-14	M14x1.5	82,6	64,1	A+B-11,1	ø28	24	22	25	25
			Q04111770B-04-16	Q03911770B-04-16	M16x1,5	83,6	64,1	A+B-11,1	ø28	24	22	26	26
10	3/8"	-06	Q04111770B-06-16	Q03911770B-06-16	M16x1,5	93,9	76,5	A+B-15,9	ø32	27	27	26	26
			Q04111770B-06-18	Q03911770B-06-18	M18x1,5	93,9	76,5	A+B-15,9	ø32	27	27	26	26
			Q04111770B-06-22	Q03911770B-06-22	M22x1,5	94,9	77,5	A+B-15,9	ø32	27	27	27	27
12,5	1/2"	-08	Q04111770B-08-18	Q03911770B-08-18	M18x1,5	101,7	86,5	A+B-17,1	ø38	34	34	26	26
			Q04111770B-08-22	Q03911770B-08-22	M22x1,5	102,7	87,5	A+B-17,1	ø38	34	34	27	27
			Q04111770B-08-26	Q03911770B-08-26	M26x1.5	103,7	88,5	A+B-17,1	ø38	34	34	28	28
20	3/4"	-12	Q04111770B-12-26	Q03911770B-12-26	M26x1,5	114,9	102,5	A+B-21,7	ø48	41	41	29	29
			Q04111770B-12-30	Q03911770B-12-30	M30x2	118,9	106,5	A+B-21,7	ø48	41	41	32	32
25	1"	-16	Q04111770B-16-30	Q03911770B-16-30	M30x2	128,5	95,8	A+B-22,9	ø55	50	50	32	32

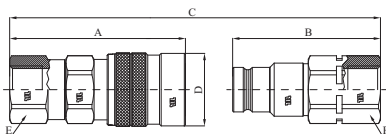
FLAT-FACE - TERMINATION ENDS



Q04111870B - Q03911870B

METRIC TERMINATION ENDS TO ISO 8434-1 BULKHEAD S SERIES
 ROSCA MÉTRICA PARA ISO 8434-1 PASATABIQUE SERIE S
 METRISCHE ANSCHLÜSSE NACH ISO 8434-1 SCHOTT SERIE S
 TERMINALI METRICI A NORMA ISO 8434-1 SERIE S PASSAPARETE

SIZE			PART NUMBER		THREADS	DIMENSIONS mm							
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F	G	H
6,3	1/4"	-04	Q04111870B-04-16	Q03911870B-04-16	M16x1,5	83,6	65,1	A+B-11,1	ø28	24	22	27	27
			Q04111870B-04-18	Q03911870B-04-18	M18x1,5	83,6	65,1	A+B-11,1	ø28	24	22	27	27
10	3/8"	-06	Q04111870B-06-18	Q03911870B-06-18	M18x1,5	94,9	77,5	A+B-15,9	ø32	27	27	27	27
			Q04111870B-06-20	Q03911870B-06-20	M20x1,5	94,9	77,5	A+B-15,9	ø32	27	27	27	27
12,5	1/2"	-08	Q04111870B-08-24	Q03911870B-08-24	M24x1,5	104,7	89,5	A+B-17,1	ø38	34	34	29	29
20	3/4"	-12	Q04111870B-12-30	Q03911870B-12-30	M30x2	119,9	108,5	A+B-21,7	ø48	41	41	34	34
25	1"	-16	Q04111870B-16-36	Q03911870B-16-36	M36x2	128,5	101,8	A+B-22,9	ø55	50	50	36	36



Q04111141A - Q03911141A

METRIC TERMINATION ENDS TO DIN 3852 X TYPE
 ROSCA MÉTRICA PARA DIN 3852 TIPO X
 METRISCHE ANSCHLÜSSE NACH DIN 3852 FORM X
 TERMINALI METRICI A NORMA DIN 3852 FORMA X

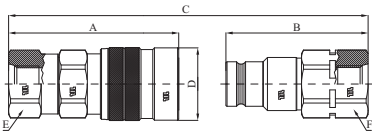
SIZE			PART NUMBER		THREADS	DIMENSIONS mm							
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F		
6,3	1/4"	-04	Q04111141A-04-16	Q03911141A-04-16	M16x1,5	63,6	53,6	A+B-11,1	ø28	24	22		
			Q04111141A-06-18	Q03911141A-06-18	M18x1,5	77,9	62,5	A+B-15,9	ø32	27	27		
10	3/8"	-06	Q04111141A-06-22	Q03911141A-06-22	M22x1,5	77,9	64,5	A+B-15,9	ø32	27	27		

FLAT-FACE - TERMINATION ENDS

SAE

Q04111301A - Q03911301A

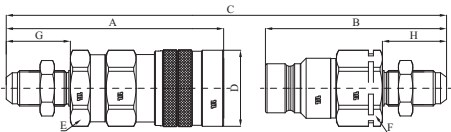
SAE TERMINATION ENDS TO SAE J1926-1
ROSCA SAE PARA SAE J1926-1
MIT SAE ENDSTÜCKEN NACH SAE J1926-1
TERMINALI SAE A NORMA SAE J1926-1



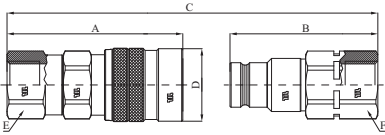
SIZE			PART NUMBER		THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
6,3	1/4"	-04	Q04111301A-04-06	Q03911301A-04-06	9/16"-18 UNF	63,6	53,6	A+B-11,1	ø28	24	22
10	3/8"	-06	Q04111301A-06-06	Q03911301A-06-06	9/16"-18 UNF	75,4	63	A+B-15,9	ø32	27	27
			Q04111301A-06-08	Q03911301A-06-08	3/4"-16 UNF	77,4	65	A+B-15,9	ø32	27	27
			Q04111301A-06-10	Q03911301A-06-10	7/8"-14 UNF	79,9	67,5	A+B-15,9	ø32	27	27
12,5	1/2"	-08	Q04111301A-08-08	Q03911301A-08-08	3/4"-16 UNF	84,2	72	A+B-17,1	ø38	34	34
			Q04111301A-08-10	Q03911301A-08-10	7/8"-14 UNF	86,7	74,5	A+B-17,1	ø38	34	34
			Q04111301A-08-12	Q03911301A-08-12	1.1/16"-12 UN	89,7	77,5	A+B-17,1	ø38	34	34
20	3/4"	-12	Q04111301A-12-12	Q03911301A-12-12	1.1/16"-12 UN	108,9	91,5	A+B-21,7	ø48	41	41
			Q04111301A-12-16	Q03911301A-12-16	1.5/16"-12 UN	108,9	91,5	A+B-21,7	ø48	41	41
25	1"	-16	Q04111301A-16-16	Q03911301A-16-16	1.5/16"-12 UN	114,5	89,8	A+B-22,9	ø55	50	50

Q04111230A - Q03911230A

SAE TERMINATION ENDS TO ISO 8434-2 BULKHEAD
ROSCA SAE PARA ISO 8434-2 PASATABIQUE
SAE ANSCHLÜSSE NACH ISO 8434-2 SCHOTT
TERMINALI SAE A NORMA ISO 8434-2 PASSAPARETE



SIZE			PART NUMBER		THREADS	DIMENSIONS mm							
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F	G	H
10	3/8"	-06	Q04111230A-06-08	Q03911230A-06-08	3/4"-16 UNF	105,5	88,1	A+B-15,9	ø32	27	27	36,6	36,6
			Q04111230A-06-10	Q03911230A-06-10	7/8"-14 UNF	109	91,6	A+B-15,9	ø32	27	27	40,1	40,1
12,5	1/2"	-08	Q04111230A-08-10	Q03911230A-08-10	7/8"-14 UNF	116,8	101,6	A+B-17,1	ø38	34	34	40,1	40,1
			Q04111230A-08-12	Q03911230A-08-12	1 1/16"-12 UN	121,1	105,9	A+B-17,1	ø38	34	34	44,4	44,4

FLAT-FACE - TERMINATION ENDS**NPT****Q04111341A - Q03911341A****NPT TERMINATION ENDS TO ANSI B 1.20.3****ROSCA NPT PARA ANSI B 1.20.3****NPT ANSCHLÜSSE NACH ANSI B 1.20.3****TERMINALI NPT A NORMA ANSI B 1.20.3**

SIZE			PART NUMBER		THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
6,3	1/4"	-04	Q04111341A-04-04	Q03911341A-04-04	1/4" NPTF	63,6	52,1	A+B-11,1	ø28	24	22
10	3/8"	-06	Q04111341A-06-06	Q03911341A-06-06	3/8" NPTF	74,9	62,5	A+B-15,9	ø32	27	27
			Q04111341A-06-08	Q03911341A-06-08	1/2" NPTF	77,9	65,5	A+B-15,9	ø32	27	27
12,5	1/2"	-08	Q04111341A-08-08	Q03911341A-08-08	1/2" NPTF	84,7	72,5	A+B-17,1	ø38	34	34
			Q04111341A-08-12	Q03911341A-08-12	3/4" NPTF	86,7	74,5	A+B-17,1	ø38	34	34
20	3/4"	-12	Q04111341A-12-12	Q03911341A-12-12	3/4" NPTF	105,9	88,5	A+B-21,7	ø48	41	41
			Q04111341A-12-16	Q03911341A-12-16	1" NPTF	108,9	91,5	A+B-21,7	ø48	41	41
25	1"	-16	Q04111341A-16-16	Q03911341A-16-16	1" NPTF	114,5	89,8	A+B-22,9	ø55	50	50

**Available MQS-F female coupling with sleeve without safety system. For info contact R&D Q.Safe.**

Disponible el Acoplamiento MQS-F con casquillo sin sistema de seguridad. Para más información contacte R&D Q.Safe.

MQS-F Kupplungsmuffe verfügbar ohne Sicherheitsschiebehülse. Für Informationen die Q.Safe Entwicklungsabteilung kontaktieren.

Disponibile, MQS-F innesto femmina con ghiera senza sistema di sicurezza. Per informazioni contattare R&D Q.safe.

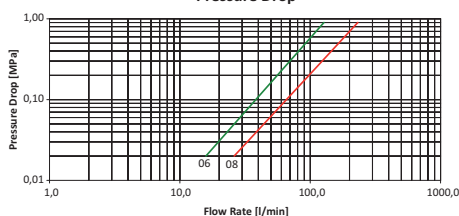


FLAT-FACE MALE CONNECTABLE UNDER PRESSURE

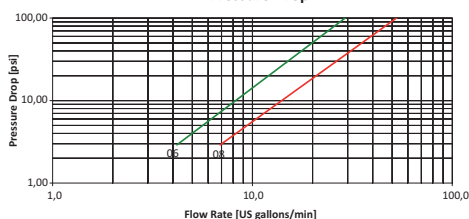
SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	CONNECTION EFFORT	OIL SPILLAGE Connection/ Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	L/min.	US GPM	N	lb.	cc.	cubic inch	Male		M+F		
											MPa	PSI	MPa	PSI	
10	3/8"	-06	35	5075	55,9	14,8	150	333	0,007	0,0004	160	23200	140	20300	Allowed connection
12,5	1/2"	-08	35	5075	97,8	25,8	180	400	0,008	0,0005	140	20300	150	21750	Allowed connection

Pressure Drop



Pressure Drop



Triple valve system that guarantee connection under pressure (female part always with OMPa) safely ■ Low connection effort during connection under pressure ■ Working pressure 35MPa ■ Interchangeable according to ISO 16028:1997aMD.1:2006 (E) ■ Sealing system with flat valve ■ Polyurethane seals ■ Compact design ■ Wide range of termination end

Sistema de triple válvula que garantiza la conexión bajo presión (la hembra siempre con OMPa) en seguridad ■ Bajo esfuerzo de conexión bajo presión ■ Presión de trabajo 35 MPa ■ Intercambiable según ISO 16028:1997aMD.1:2006 (E) ■ Sistema de estanqueidad con válvula plana ■ Juntas de Poliuretano ■ Diseño compacto ■ Amplia gama de roscas

Dreifach-Ventilsystem ermöglicht die sichere Kuppelbarkeit unter Druck (Muffe immer drucklos) ■ Geringer Kraftaufwand fürs Kuppeln unter Druck. ■ Arbeitsdruck bis zu 35 MPa ■ Austauschbar gem. ISO16028:1997aMD.1:2006 (E) ■ Abdichtung durch Tellerventil ■ Polyurethane Dichtungen ■ Kompaktauführung ■ Viele verfügbare Anschlussmöglichkeiten

Sistema interno a tripla valvola che garantisce la connessione in pressione (lato femmina sempre a OMPa) in sicurezza ■ Basso carico di innesto in presenza di pressione ■ Pressione di esercizio 35MPa ■ Intercambiabilità secondo la norma ISO 16028:1997aMD.1:2006 (E) ■ Sistema di tenuta a valvole piane ■ Guarnizioni in poliuretano ■ Design compatto ■ Ampia gamma di terminali filettati

GB**MATERIAL:**

Couplings in steel with some stressed area hardened, carbonitrid valve, springs in C98 steel, seals in polyurethane and NBR, back-up ring PTFE

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C

SAFETY FACTOR:

1:4 dinamic pressures and 1:2 for static ones

IMPULSE PRESSURES:

1.000.000 cycles (connected and disconnected conditions) at 133% of the rated one (freq.1Hz)

TEST SPECIFICATIONS:

ISO 7241-2 e ISO 16028:1997aMD.1.2006(E)

ES**MATERIAL:**

Acoplamiento de acero, con algunas zonas endurecidas, válvula carbonitrada, muelles en acero C98, juntas en NBR, anillo de soporte en PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

PRESIONES DE IMPULSO:

1.000.000 ciclos a 133% de la nominal (frec. 1Hz)

CARACTERÍSTICAS DE LA PRUEBA:

ISO 7241-2 y ISO 16028:1997aMD.1.2006(E)

D**MATERIAL:**

Kupplungsteile aus Stahl, beanspruchte Flächen gehärtet, Carbonitriertes Ventil, Feder aus C98, Dichtungen Polyurethan und NBR, Sicherungsring aus PTFE

BETRIEBSTEMPERATUR:

-22°F up to +230°F -30°C up to +110°C

SICHERHEITSFAKTOR:

1:4 für dynamischen und 1:2 für statischen Druck

DRUCKIMPULSE:

1.000.000 Zyklen bei 133% des angegebenen Druckes (Frequenz 1Hz)

TEST SPECIFICATIONS:

ISO 7241-2 und ISO 16028:1997aMD.1.2006(E)

IT**MATERIALI:**

Parti dell'innesto in acciaio al carbonio con zone sollecitate trattate termicamente, valvole carbonitrate, molle in C98, guarnizioni: Poliuretano ed NBR antiestusione: PTFE

TEMPERATURE DI ESERCIZIO:

-22°F up to +230°F -30°C up to +110°C

FATTORE DI SICUREZZA:

1:4 per pressioni dinamiche e 1:2 per pressioni statiche

RESISTENZA A PRESSIONI PULSANTI:

1.000.000 cicli a 1Hz al 133% della pressione d'esercizio (sia accoppiato che disaccoppiato)

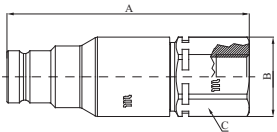
TEST: ISO 7241-2 e ISO 16028:1997aMD.1.2006(E)

FLAT-FACE MALE CONNECTABLE UNDER PRESSURE - TERMINATION ENDS

BSP

Q04011041A

BSP TERMINATION ENDS TO DIN 3852 X TYPE
ROSCA BSP PARA DIN 3852 TIPO X
BSP ENDSTÜCKE NACH DIN 3852 X TYPE
INNESTI RAPIDI CON TERMINALI BSP A NORMA DIN 3852 FORMA X

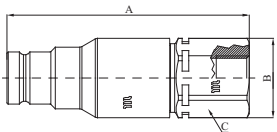


SIZE			PART NUMBER	THREADS	DIMENSIONS mm		
mm	inch	dash	Male Coupling		A	B	C
10	3/8"	-06	Q04011041A-06-06	3/8"	91,7	ø30	27
			Q04011041A-06-08	1/2"	94	ø30	27
12,5	1/2"	-08	Q04011041A-08-08	1/2"	98	ø38	34
			Q04011041A-08-12	3/4"	100	ø38	34

NPT

Q04011341A

NPT TERMINATION ENDS TO ANSI B1.20.3
ROSCA NPT PARA ANSI B1.20.3
NPT ENDSTÜCKE NACH ANSI B1.20.3
INNESTI RAPIDI CON TERMINALI NPT A NORMA ANSI B1.20.3

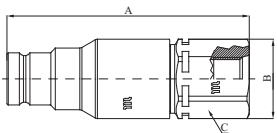


SIZE			PART NUMBER	THREADS	DIMENSIONS mm		
mm	inch	dash	Male Coupling		A	B	C
10	3/8"	-06	Q04011341A-06-06	3/8" NPTF	91,7	ø30	27
			Q04011341A-06-08	1/2" NPTF	94	ø30	27
12,5	1/2"	-08	Q04011341A-08-08	1/2" NPTF	98	ø38	34
			Q04011341A-08-12	3/4" NPTF	100	ø38	34

SAE

Q04011301A

SAE TERMINATION ENDS TO SAE J1926-1
ROSCA SAE PARA SAE J1926-1
SAE ENDSTÜCKE NACH SAE J1926-1
INNESTI RAPIDI CON TERMINALI SAE A NORMA SAE J1926-1



SIZE			PART NUMBER	THREADS	DIMENSIONS mm		
mm	inch	dash	Male Coupling		A	B	C
10	3/8"	-06	Q04011301A-06-08	3/4" - 16 UNF	94,2	ø30	27
			Q04011301A-08-10	7/8" - 14 UNF	100	ø38	34
12,5	1/2"	-08	Q04011301A-08-12	1-1/16" - 12 UN	103	ø38	34



Q.Safe

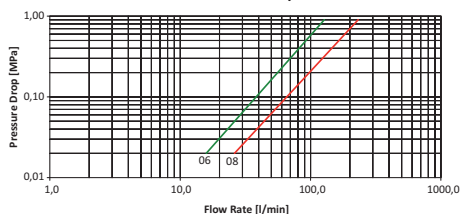
MQS-FS

FLAT-FACE SCREW TYPE

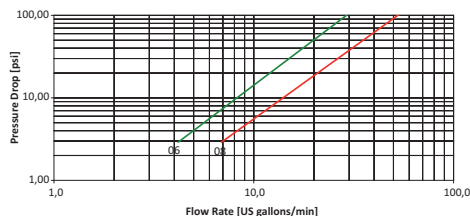
					
SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	OIL SPILLAGE Connection/ Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	L/min.	US GPM	cc.	cubic inch	Male		Female		M+F		
									MPa	PSI	MPa	PSI	MPa	PSI	
10	3/8"	-06	35	5075	55,9	14,8	0,007	0,0004	160	23200	140	20300	140	20300	Allowed connection/disconnection
12,5	1/2"	-08	35	5075	97,8	25,8	0,008	0,0005	140	20300	140	20300	140	20300	Allowed connection/disconnection

Pressure Drop



Pressure Drop



Screw coupling with quick connection System ■ Working pressure 35MPa ■ Triple valve system that guarantee connection under pressure safely ■ Interchangeable according to Manuli Q.Safe specifications ■ Sealing system with flat valve ■ Polyurethane seals ■ Compact design ■ Wide range of termination end

Sistema de conexión roscado ■ Presión de trabajo 35 MPa ■ Sistema de triple válvula que garantiza la conexión bajo presión ■ Intercambiable según las especificaciones Q.Safe de Manuli ■ Sistema de estanqueidad con válvula plana ■ Juntas de Poliuretano ■ Diseño compacto ■ Amplia gama de roscas

Schraubkupplung mit Schnellverschluss-System ■ Arbeitsdruck bis zu 35MPa ■ Dreifaches Ventilsystem garantiert sicheres Anschließen auch unter Druck ■ Austauschbar gem. Manuli Q.Safe Spezifikationen ■ Abdichtungsart Tellerventil ■ Polyurethan Dichtungen ■ Kompaktes Design ■ Breites Spektrum an verfügbaren Anschlüssen

Innesto a vite con sistema di connessione rapido ■ Pressione di esercizio 35MPa ■ Sistema interno a tripla valvola che garantisce la connessione in pressione in sicurezza ■ Intercambiabilità secondo specifica Manuli Q.Safe ■ Sistema di tenuta a valvole piane ■ Guarnizioni in poliuretano ■ Design compatto ■ Ampia gamma di terminali filettati

TECHNICAL INFO

GB

MATERIAL:

Couplings in steel with some stressed area hardened, carbonitrided valve, springs in C98 steel, seals in polyurethane and NBR, back-up ring PTFE

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C

SAFETY FACTOR:

1:4 dinamic pressures and 1:2 for static ones

IMPULSE PRESSURES:

100.000 cycles at 133% of the rated one (freq. 1Hz) in disconnected conditions, 1.000.000 cycles at 133% of rated one (freq. 1Hz) in connected conditions

TEST SPECIFICATIONS:

ISO 7241-2 e ISO 16028:1997aMD.1.2006(E)

ES

MATERIAL:

Acoplamiento de acero, con algunas zonas endurecidas, valvula carbonitrada, muelles en acero C98, juntas en NBR, anillo de soporte en PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

PRESIONES DE IMPULSO:

100.000 ciclos a 133% de la nominal (frec. 1Hz) en condiciones de conoctado y desconectado, 1.000.000 ciclos a 133% de la nominal (frec. 1Hz) -

CARACTERÍSTICAS DE LA PRUEBA:

ISO 7241-2 y ISO 16028:1997aMD.1.2006(E)

D

MATERIAL:

Kupplungsteile aus Stahl, beanspruchte Flächen gehärtet, Carbonitriertes Ventil, Feder aus C98, Dichtungen Polyurethan und NBR, Sicherungsring aus PTFE

BETRIEBSTEMPERATUR:

-22°F up to +230°F -30°C up to +110°C

SICHERHEITSFAKTOR:

1:4 für dynamischen und 1:2 für statischen Druck

DRUCKIMPULSE:

1.000.000 Zyklen bei 133% des angegebenen Druckes (Frequenz 1Hz)

TEST SPECIFICATIONS:

ISO 7241-2 und ISO 16028:1997aMD.1.2006(E)

IT

MATERIALI:

Parti dell' innesto in acciaio al carbonio con zone sollecitate trattate termicamente, valvole carbonitrate, molle in C98, guarnizioni: Poliuretano ed NBR antiestusione: PTFE

TEMPERATURE DI ESERCIZIO:

-22°F up to +230°F -30°C up to +110°C

FATTORE DI SICUREZZA:

1:4 per pressioni dinamiche e 1:2 per pressioni statiche

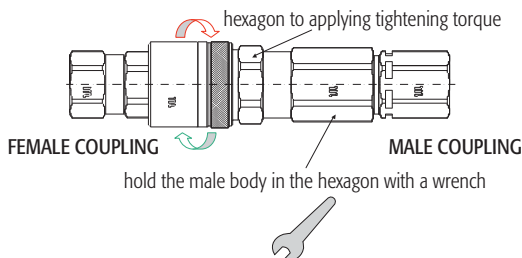
RESISTENZA A PRESSIONI PULSANTI:

100.000 cicli a 1Hz al 133% della pressione d'esercizio in condizioni di innesti disconnessi, 1.000.000 cicli a 1Hz al 133% della pressione d'esercizio in condizioni di innesti connessi

TEST: ISO 7241-2 e ISO 16028:1997aMD.1.2006(E)

SIZE		TIGHTENING TORQUE (male/female)	
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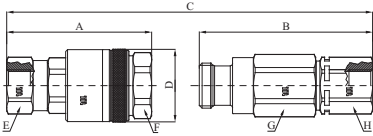
mm	inch	dash	Nm
10	3/8"	- 06	70
12,5	1/2"	- 08	100



WARNING / AVISO / WARNUNG / ATTENZIONE

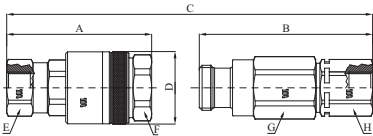
When applying the tightening torque at the end of connection or at the beginning of disconnection, hold the male body on the hexagon with a wrench. Cuando se aplique el par de apriete al final de la conexión o al principio de la desconexión, sostenga el cuerpo macho en el hexágono con una llave. Beim Anziehen oder Lösen der Kupplungsverbindung mit einem Schraubenschlüssel, sollte der Stecker ebenfalls mit einem Schraubenschlüssel in Position gehalten werden.

Quando si applica la coppia di serraggio alla fine della connessione o all'inizio della disconnessione, tenere l'innesto maschio sull'esagono con una chiave.

FLAT-FACE SCREW TYPE - TERMINATION ENDS**BSP****Q06011041A - Q05911041A**

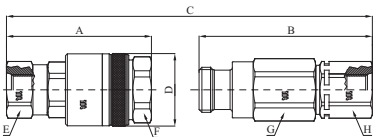
BSP TERMINATION ENDS TO DIN 3852 X TYPE
 ROSCA BSP PARA DIN 3852 TIPO X
 BSP-ENDSTÜCKE NACH DIN 3852 FORM X
 TERMINALI BSP A NORMA DIN 3852 FORMA X

SIZE			PART NUMBER		THREADS	DIMENSIONS mm							
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F	G	H
10	3/8"	-06	Q06011041A-06-06	Q05911041A-06-06	3/8"	76,7	91,7	A+B-17,6	ø38	27	32	30	27
			Q06011041A-06-08	Q05911041A-06-08	1/2"	79,7	94	A+B-17,6	ø38	27	32	30	27
12,5	1/2"	-08	Q06011041A-08-08	Q05911041A-08-08	1/2"	86,5	98	A+B-18,8	ø46	34	36	36	34
			Q06011041A-08-12	Q05911041A-08-12	3/4"	88,5	100	A+B-18,8	ø46	34	36	36	34

NPT**Q06011341A - Q05911341A**

NPT TERMINATION ENDS TO ANSI B 1.20.3
 ROSCA NPT PARA ANSI B 1.20.3
 NPT-ENDSTÜCKE NACH ANSI B 1.20.3
 TERMINALI NPT A NORMA ANSI B 1.20.3

SIZE			PART NUMBER		THREADS	DIMENSIONS mm							
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F	G	H
10	3/8"	-06	Q06011341A-06-06	Q05911341A-06-06	3/8" NPTF	76,7	91,7	A+B-17,6	ø38	27	32	30	27
			Q06011341A-06-08	Q05911341A-06-08	1/2" NPTF	79,7	94	A+B-17,6	ø38	27	32	30	27
12,5	1/2"	-08	Q06011341A-08-08	Q05911341A-08-08	1/2" NPTF	86,5	98	A+B-18,8	ø46	34	36	36	34
			Q06011341A-08-12	Q05911341A-08-12	3/4" NPTF	88,5	100	A+B-18,8	ø46	34	36	36	34

SAE**Q06011301A - Q05911301A**

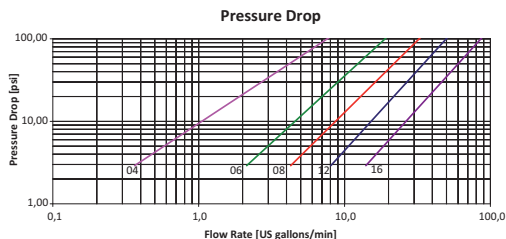
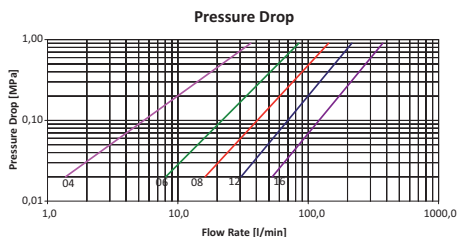
SAE TERMINATION END TO SAE J1926-1
 ROSCA SAE PARA SAE J1926-1
 SAE-ENDSTÜCKE NACH SAE J1926-1
 TERMINALI SAE A NORMA SAE J1926-1

SIZE			PART NUMBER		THREADS	DIMENSIONS mm							
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F	G	H
10	3/8"	-06	Q06011301A-06-08	Q05911301A-06-08	3/4"-16 UNF	79,2	94,2	A+B-17,6	ø38	27	32	30	27
			Q06011301A-08-10	Q05911301A-08-10	7/8"-14 UNF	88,5	100	A+B-18,8	ø46	34	36	36	34
12,5	1/2"	-08	Q06011301A-08-12	Q05911301A-08-12	1-1/16"-12 UN	90,5	103	A+B-18,8	ø46	34	36	36	34



					
SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	OIL SPILLAGE Connection/ Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	L/min.	US GPM	cc.	cubic inch	Male		Female		M+F		
									MPa	PSI	MPa	PSI	MPa	PSI	
6,3	1/4"	-04	45	6525	10	2,6	0,8	0,049	145	21025	190	27550	190	27550	Allowed max. 10 MPa
10	3/8"	-06	40	5800	33	8,7	1,3	0,079	150	21750	160	23200	150	21750	Allowed max. 10 MPa
12,5	1/2"	-08	40	5800	60	15,9	2	0,123	130	18850	140	20300	140	20300	Allowed max. 10 MPa
20	3/4"	-12	40	5800	100	26,4	5	0,305	130	18850	130	18850	140	20300	Allowed max. 10 MPa
25	1"	-16	35	5075	173	45,7	9	0,549	110	15950	110	15950	110	15950	Allowed max. 10 MPa



Screw-type couplings specially designed for heavy duty, high pressure, pressure impulses applications such as hammers attachments, rock crushers, etc. ■ Connection and disconnection is made by screwing the sleeve, also possible with residual pressure in the line ■ Connection secured on the thread between the sleeve and the female coupling ■ Shut-off by poppet valve ■ Hexagon around the male insert to be tightened up or released for maintenance ■ Interchangeable with similar products available in the market

Acoplamientos de tipo tornillo diseñados especialmente para aplicaciones de impulsos de presión, de alta presión, reforzados, como trituradores de rocas, accesorios de martillo hidráulico, etc. ■ La conexión y desconexión se realizan atornillando el casquillo, o también es posible con presión residual en la línea ■ La conexión se asegura en la rosca entre el casquillo y el acoplamiento macho ■ Cuando esté desacoplado, la junta se realiza mediante una válvula de punzón ■ Intercambiable con otros productos y utilizado ampliamente en el mercado alemán ■ Alta resistencia contra los impulsos a presión ■ Hexágono alrededor de la inserción del macho que se debe roscar para mantenimiento

Schraubkupplungen speziell für harte Beanspruchung, hohen Druck, Druckimpulsanwendungen wie Anschlüsse für Hydraulikhammer, Steinbrecher, etc. ■ Anschluss und Trennung erfolgt durch Schrauben der Hülse, auch bei Restdruck in der Leitung ■ Anschluss über das Gewinde zwischen Hülse und M-Kupplung gesichert ■ Schließen durch Tellerventil ■ Sechskant am V-Einsatz kann angezogen oder für Wartungszwecke gelöst werden ■ Mit ähnlichen, auf dem Markt erhältlichen Produkten austauschbar

Innesti rapidi a vite specificamente realizzati per offrire elevata resistenza ai picchi di pressioni pulsanti e alle vibrazioni tipicamente presenti in applicazioni heavy-duty quali martelli idraulici, demolitori, etc. ■ Connessione e disconnessione a vite, anche in presenza di pressioni residue nell'impianto ■ Bloccaggio tra maschio e femmina mediante ghiera filettata ■ Sistema di tenuta mediante valvola sporgente ■ Innesto maschio con esagono ricavato sul corpo per agevolare gli interventi di manutenzione ■ Intercambiabilità garantita con i principali prodotti concorrenti

GB

MATERIAL:

Female coupling in steel, male couplings high standard steel carbon steel. Carbonitrated valve, springs in C98 steel, seals in NBR (others materials on request) and Back-up Ring in PTFE

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C

SAFETY FACTOR:

1:3 for dynamic pressures and 1:2 for static ones

IMPULSE PRESSURES:

100.000 cycles at 133% of the rated one (freq. 1Hz)

TEST SPECIFICATIONS:

ISO 7241-2

ES

MATERIAL:

El acoplamiento de hembra y macho en acero, con algunas zonas endurecidas, que corresponden a los puntos de más sobrecarga. Válvula y casquillo carbonitrados, muelles en acero C98, juntas en NBR (otros materiales disponibles bajo solicitud) y anillo de soporte en PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C

(para otras temperaturas, el acoplamiento puede ser montado con juntas específicas)

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

PRESIONES DE IMPULSO:

100.000 ciclos a 133% de la nominal (frec. 1Hz)

CARACTERÍSTICAS DE LA PRUEBA:

ISO 7241-2

D

MATERIAL:

Muffen aus Stahl, Stecker hochlegierter Stahl. Carbonitriertes Ventil, Federn in C98 Stahl, Dichtungen NBR (andere Werkstoffe auf Anfrage) und Sicherungsring PTFE

BETRIEBSTEMPERATUR:

-22°F bis +230°F -30°C bis +110°C

SICHERHEITSFAKTOR:

1:3 für dynamischen und 1:2 für statischen Druck

DRUCKIMPULSE:

100.000 Zyklen bei 133% des angegebenen Druckes (Frequenz 1Hz)

TEST SPECIFICATIONS:

ISO 7241-2

IT

MATERIALI:

Innesti femmina in acciaio, innesti maschio in acciaio ad elevata resistenza. Valvole carbonitrate. Molle in acciaio C98. Guarnizioni in NBR (altri materiali su richiesta) ed anelli anti-estrusione in PTFE

TEMPERATURE DI ESERCIZIO:

-22°F bis +230°F -30°C a +110°C

(per temperature diverse, l'innesto rapido viene fornito con guarnizioni appropriate)

FATTORE DI SICUREZZA:

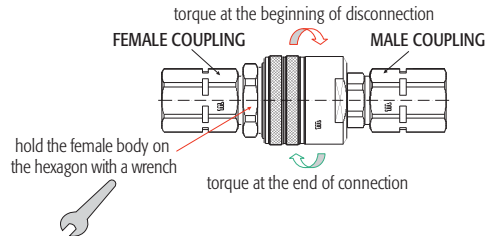
1:3 per pressioni dinamiche e 1:2 per pressioni statiche

RESISTENZA A PRESSIONI PULSANTI:

100.000 cicli a 1Hz al 133% della pressione di esercizio

TEST: ISO 7241-2

SIZE			TIGHTENING TORQUE (male/female)
mm	inch	dash	Nm
6,3	1/4"	- 04	25
10	3/8"	- 06	40
12,5	1/2"	- 08	70
20	3/4"	- 12	100
25	1"	- 16	120



WARNING / AVISO / WARNUNG / ATTENZIONE

When applying the tightening torque at the end of connection or at the beginning of disconnection, hold the female body on the hexagon with a wrench. Cuando se aplique el par de apriete al final de la conexión o al principio de la desconexión, sostenga el cuerpo macho en el hexágono con una llave. Beim Anziehen oder Lösen der Kupplungsverbindung mit einem Schraubenschlüssel, sollte die Muffe ebenfalls mit einem Schraubenschlüssel in Position gehalten werden.

Quando si applica la coppia di serraggio alla fine della connessione o all'inizio della disconnessione, tenere l'innesto femmina sull'esagono con una chiave.

SCREW-TYPE FOR GERMAN MARKET - TERMINATION ENDS

BSP

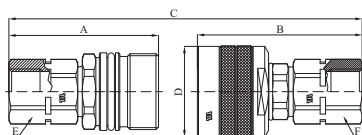
Q05211041A - Q05111041A

BSP TERMINATION ENDS TO DIN 3852 X TYPE

ROSCA BSP PARA DIN 3852 TIPO X

BSP-ENDSTÜCKE NACH DIN 3852 FORM X

TERMINALI BSP A NORMA DIN 3852 FORMA X



SIZE			PART NUMBER		THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
6,3	1/4"	-04	Q05211041A-04-04	Q05111041A-04-04	1/4"	61,5	65,5	A+B-24,5	ø30	19	19
10	3/8"	-06	Q05211041A-06-04	Q05111041A-06-04	1/4"	68	74	A+B-26,5	ø34	22	22
			Q05211041A-06-06	Q05111041A-06-06	3/8"	69,5	75,5	A+B-26,5	ø34	22	22
12,5	1/2"	-08	Q05211041A-08-06	Q05111041A-08-06	3/8"	66,5	74,5	A+B-26,5	ø42	27	27
			Q05211041A-08-08	Q05111041A-08-08	1/2"	69,5	77,5	A+B-26,5	ø42	27	27
20	3/4"	-12	Q05211041A-12-08	Q05111041A-12-08	1/2"	80,8	89,3	A+B-31	ø49	34	34
			Q05211041A-12-12	Q05111041A-12-12	3/4"	82,8	91,3	A+B-31	ø49	34	34
25	1"	-16	Q05211041A-16-12	Q05111041A-16-12	3/4"	92,3	99,3	A+B-34,5	ø56	41	41
			Q05211041A-16-16	Q05111041A-16-16	1"	95,3	102,3	A+B-34,5	ø56	41	41

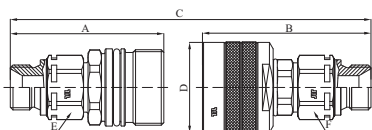
Q05211050A - Q05111050A

BSP TERMINATION END TO ISO 8434-6

ROSCA BSP PARA ISO 8434-6

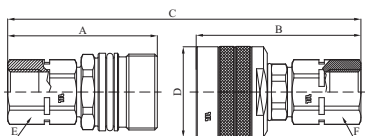
BSP-ENDSTÜCKE NACH ISO 8434-6

TERMINALI BSP A NORMA ISO 8434-6



SIZE			PART NUMBER		THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
12,5	1/2"	-08	Q05211050A-08-06	Q05111050A-08-06	3/8"	69,2	77,2	A+B-26,5	ø42	27	27
			Q05211050A-08-08	Q05111050A-08-08	1/2"	71,7	79,7	A+B-26,5	ø42	27	27

SCREW-TYPE FOR GERMAN MARKET - TERMINATION ENDS

METRIC


Q05211141A - Q05111141A

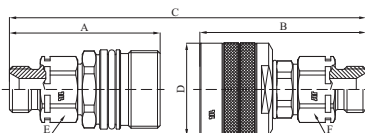
METRIC TERMINATION ENDS TO DIN 3852 X TYPE

ROSCA MÉTRICA PARA DIN 3852 TIPO X

METRISCHE ENDSTÜCKE NACH DIN 3852 FORM X

TERMINALI METRICI A NORMA DIN 3852 FORMA X

SIZE			PART NUMBER		THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
10	3/8"	-06	Q05211141A-06-16	Q05111141A-06-16	M16x1,5	69,5	75,5	A+B-26,5	ø34	22	22
12,5	1/2"	-08	Q05211141A-08-18	Q05111141A-08-18	M18x1,5	66,5	74,5	A+B-26,5	ø42	27	27
			Q05211141A-08-22	Q05111141A-08-22	M22x1,5	68,5	76,5	A+B-26,5	ø42	27	27



Q05211110A - Q05111110A

METRIC TERMINATION ENDS TO ISO 8434-1 L SERIES

ROSCA MÉTRICA PARA ISO 8434-1 SERIE L

METRISCHE ENDSTÜCKE NACH ISO 8434-1 SERIE L

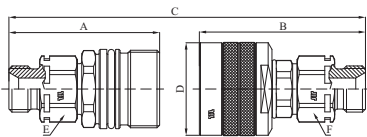
TERMINALI METRICI A NORMA ISO 8434-1 SERIE L

SIZE			PART NUMBER		THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
6,3	1/4"	-04	Q05211110A-04-12	Q05111110A-04-12	M12x1,5	59,5	63,5	A+B-24,5	ø30	19	19
			Q05211110A-04-14	Q05111110A-04-14	M14x1,5	59,5	63,5	A+B-24,5	ø30	19	19
10	3/8"	-06	Q05211110A-06-12	Q05111110A-06-12	M12x1,5	66	72	A+B-26,5	ø34	22	22
			Q05211110A-06-14	Q05111110A-06-14	M14x1,5	66	72	A+B-26,5	ø34	22	22
			Q05211110A-06-16	Q05111110A-06-16	M16x1,5	66	72	A+B-26,5	ø34	22	22
			Q05211110A-06-18	Q05111110A-06-18	M18x1,5	66	72	A+B-26,5	ø34	22	22
12,5	1/2"	-08	Q05211110A-08-14	Q05111110A-08-14	M14x1,5	65,5	73,5	A+B-26,5	ø42	27	27
			Q05211110A-08-16	Q05111110A-08-16	M16x1,5	66,5	74,5	A+B-26,5	ø42	27	27
			Q05211110A-08-18	Q05111110A-08-18	M18x1,5	65,5	73,5	A+B-26,5	ø42	27	27
			Q05211110A-08-22	Q05111110A-08-22	M22x1,5	66,5	74,5	A+B-26,5	ø42	27	27
			Q05211110A-08-26	Q05111110A-08-26	M26x1,5	66,5	74,5	A+B-26,5	ø42	27	27
			Q05211110A-12-18	Q05111110A-12-18	M18x1,5	80,8	89,3	A+B-31	ø49	34	34
20	3/4"	-12	Q05211110A-12-22	Q05111110A-12-22	M22x1,5	80,8	89,3	A+B-31	ø49	34	34
			Q05211110A-12-26	Q05111110A-12-26	M26x1,5	80,8	89,3	A+B-31	ø49	34	34
			Q05211110A-12-30	Q05111110A-12-30	M30x2	82,8	91,3	A+B-31	ø49	34	34
25	1"	-16	Q05211110A-16-26	Q05111110A-16-26	M26x1,5	90,3	97,3	A+B-34,5	ø56	41	41
			Q05211110A-16-30	Q05111110A-16-30	M30x2	92,3	99,3	A+B-34,5	ø56	41	41
			Q05211110A-16-36	Q05111110A-16-36	M36x2	92,3	99,3	A+B-34,5	ø56	41	41

SCREW-TYPE FOR GERMAN MARKET - TERMINATION ENDS

Q05211120A - Q05111120A

METRIC TERMINATION ENDS TO ISO 8434-1 S SERIES
ROSCA MÉTRICA PARA ISO 8434-1 SERIE S
METRISCHE ENDSTÜCKE NACH ISO 8434-1 SERIE S
TERMINALI METRICI A NORMA ISO 8434-1 SERIE S



SIZE			PART NUMBER			THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling			A	B	C	D	E	F
6,3	1/4"	-04	Q05211120A-04-14	Q05111120A-04-14	M14x1,5		60,5	64,5	A+B-24,5	ø30	19	19
			Q05211120A-04-16	Q05111120A-04-16	M16x1,5		61,5	65,5	A+B-24,5	ø30	19	19
10	3/8"	-06	Q05211120A-06-16	Q05111120A-06-16	M16x1,5		67	73	A+B-26,5	ø34	22	22
			Q05211120A-06-18	Q05111120A-06-18	M18x1,5		67	73	A+B-26,5	ø34	22	22
12,5	1/2"	-08	Q05211120A-08-18	Q05111120A-08-18	M18x1,5		66,5	74,5	A+B-26,5	ø42	27	27
			Q05211120A-08-20	Q05111120A-08-20	M20x1,5		66,5	74,5	A+B-26,5	ø42	27	27
			Q05211120A-08-24	Q05111120A-08-24	M24x1,5		68,5	76,5	A+B-26,5	ø42	27	27
20	3/4"	-12	Q05211120A-12-20	Q05111120A-12-20	M20x1,5		80,8	89,3	A+B-31	ø49	34	34
			Q05211120A-12-24	Q05111120A-12-24	M24x1,5		82,8	91,3	A+B-31	ø49	34	34
			Q05211120A-12-30	Q05111120A-12-30	M30x2		84,8	93,3	A+B-31	ø49	34	34
25	1"	-16	Q05211120A-16-30	Q05111120A-16-30	M30x2		94,3	101,3	A+B-34,5	ø56	41	41
			Q05211120A-16-36	Q05111120A-16-36	M36x2		96,3	103,3	A+B-34,5	ø56	41	41
			Q05211120A-16-42	Q05111120A-16-42	M42x2		98,3	105,3	A+B-34,5	ø56	41	41

SCREW-TYPE FOR GERMAN MARKET - TERMINATION ENDS

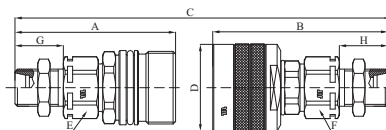
Q05211870B - Q05111870B

METRIC TERMINATION ENDS TO ISO 8434-1 BULKHEAD S SERIES

ROSCA MÉTRICA PARA ISO 8434-1 PASATABIQUE SERIE S

METRISCHE ENDSTÜCKE NACH ISO 8434-1 SCHOTT SERIE S

TERMINALI METRICI A NORMA ISO 8434-1 SERIE S PASSAPARETE



SIZE			PART NUMBER			THREADS	DIMENSIONS mm							
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F	G	H	
6,3	1/4"	-04	Q05211870B-04-14	Q05111870B-04-14	M14x1,5	75,5	79,5	A+B-24,5	ø30	19	19	27	27	
			Q05211870B-04-16	Q05111870B-04-16	M16x1,5	76,5	77,5	A+B-24,5	ø30	19	19	27	27	
10	3/8"	-06	Q05211870B-06-16	Q05111870B-06-16	M16x1,5	81	87	A+B-26,5	ø34	22	22	27	27	
			Q05211870B-06-18	Q05111870B-06-18	M18x1,5	81	87	A+B-26,5	ø34	22	22	27	27	
12,5	1/2"	-08	Q05211870B-08-18	Q05111870B-08-18	M18x1,5	81,5	89,5	A+B-26,5	ø42	27	27	27	27	
			Q05211870B-08-20	Q05111870B-08-20	M20x1,5	81,5	89,5	A+B-26,5	ø42	27	27	27	27	
			Q05211870B-08-24	Q05111870B-08-24	M24x1,5	83,5	91,5	A+B-26,5	ø42	27	27	29	29	
20	3/4"	-12	Q05211870B-12-24	Q05111870B-12-24	M24x1,5	97,8	106,3	A+B-31	ø49	34	34	29	29	
			Q05211870B-12-30	Q05111870B-12-30	M30x2	102,8	111,3	A+B-31	ø49	34	34	34	34	
25	1"	-16	Q05211870B-16-30	Q05111870B-16-30	M30x2	112,3	119,3	A+B-34,5	ø56	41	41	34	34	
			Q05211870B-16-36	Q05111870B-16-36	M36x2	114,3	121,3	A+B-34,5	ø56	41	41	36	36	
			Q05211870B-16-42	Q05111870B-16-42	M42x2	116,3	123,3	A+B-34,5	ø56	41	41	40	40	

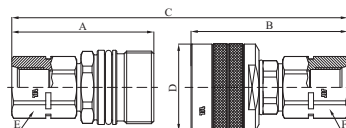
Q05211191A - Q05111191A

METRIC TERMINATION ENDS TO ISO 6149-1

ROSCA MÉTRICA PARA ISO 6149-1

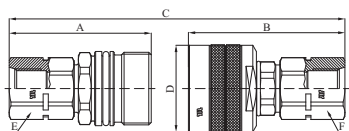
METRISCHE ENDSTÜCKE NACH ISO 6149-1

TERMINALI METRICI A NORMA ISO 6149-1



SIZE			PART NUMBER			THREADS	DIMENSIONS mm						
mm	inch	dash	Female Coupling	Male Coupling			A	B	C	D	E	F	
12,5	1/2"	-08	Q05211191A-08-16	Q05111191A-08-16	M16x1,5		67	75	A+B-26,5	ø42	27	27	
			Q05211191A-08-18	Q05111191A-08-18	M18x1,5		68,5	76,5	A+B-26,5	ø42	27	27	

SCREW-TYPE FOR GERMAN MARKET - TERMINATION ENDS

SAE


Q05211301A - Q05111301A

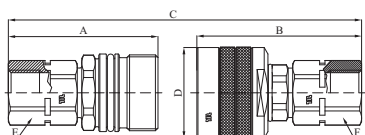
SAE TERMINATION ENDS TO SAE J1926-1

ROSCA SAE PARA SAE J1926-1

SAE ENDSTÜCKE NACH SAE J1926-1

TERMINALI SAE A NORMA SAE J1926-1

SIZE			PART NUMBER		THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
12,5	1/2"	-08	Q05211301A-08-08	Q05111301A-08-08	3/4"-16 UNF	69	77	A+B-26,5	ø42	27	27
			Q05211301A-08-10	Q05111301A-08-10	7/8"-14 UNF	71,5	79,5	A+B-26,5	ø42	27	27

NPT


Q05211341A - Q05111341A

NPT TERMINATION ENDS TO ANSI B 1.20.3

ROSCA NPT PARA ANSI B 1.20.3

NPT-ENDSTÜCKE NACH ANSI B 1.20.3

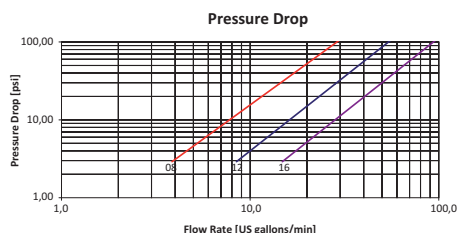
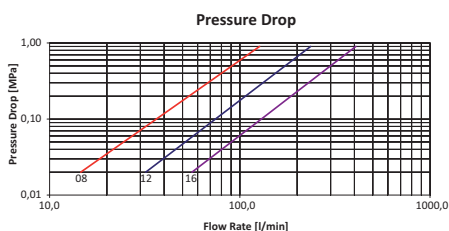
TERMINALI NPT A NORMA ANSI B 1.20.3

SIZE			PART NUMBER		THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
6,3	1/4"	-04	Q05211341A-04-04	Q05111341A-04-04	1/4" NPTF	61,5	65,5	A+B-24,5	ø30	19	19
10	3/8"	-06	Q05211341A-06-06	Q05111341A-06-06	3/8" NPTF	69,5	75,5	A+B-26,5	ø34	22	22
12,5	1/2"	-08	Q05211341A-08-08	Q05111341A-08-08	1/2" NPTF	69,5	77,5	A+B-26,5	ø42	27	27
20	3/4"	-12	Q05211341A-12-12	Q05111341A-12-12	3/4" NPTF	82,8	91,3	A+B-31	ø49	34	34
25	1"	-16	Q05211341A-16-16	Q05111341A-16-16	1" NPTF	95,3	102,3	A+B-34,5	ø56	41	41



					
SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	OIL SPILLAGE Connection/ Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	L/min.	US GPM	cc.	cubic inch	Male		Female		M+F		
									MPa	PSI	MPa	PSI	MPa	PSI	
12,5	1/2"	-08	40	5800	54	14,3	2	0,122	130	18850	140	20300	140	20300	Allowed
20	3/4"	-12	40	5800	107	28,3	5	0,305	130	18850	130	18850	140	20300	Allowed
25	1"	-16	35	5075	186	49,1	9	0,549	110	15950	110	15950	110	15950	Allowed



Screw-type couplings specially designed for heavy duty applications, such as hammers attachments, rock crushers, etc. ■ Thanks to strengthen internal components this series is high resistant against backflow, flow impulses and peaks, pressure impulses, vibration and hoses bending ■ Connection and disconnection is made by screwing the sleeve, also possible with rated pressure in the line ■ Connection secured on the thread between the sleeve and the male coupling ■ Shut-off by poppet valve ■ Hexagonal profile of external sleeve for an easy connection and disconnection also in high pressure conditions ■ Interchangeable with MQS-SG series and similar products available in the market

Enchufe rápido roscado está especialmente diseñado para condiciones extremas ■ Gracias a los componentes interiores dimensionados a propósito estosenchufes ofrece una gran resistencia a los impulsos de la presión, al pico de presión y al candal y la vibración típicamente presente en aplicaciones duras como el martillo hidráulico, demolición etc. ■ Conexión y desconexión roscada, también con la máxima presión de trabajo ■ Bloques entre macho y hembra a través del casquillo ■ Cierre por válvula de punzon ■ Hexágono en el macho para permitir la conexión y desconexión a presiones elevadas ■ Disponible bajo pedido amplia gama de roscas ■ Intercambiabilidad garantizada con la serie MQS-SG y con los productos similares en el mercado

Schraubkupplungen speziell für harte Beanspruchung wie Anschlüsse für Hydraulikhammer, Steinbrecher, etc. ■ Dank verstärkter interner Komponenten ist diese Serie hochresistent gegen Rückfluss, Strömungsimpulse und -spitzen, Druckimpulse, Vibration und geknickte Schläuche ■ Anschluss und Trennung erfolgt durch Schrauben der Hülse, auch bei Nennndruck in der Leitung ■ Anschluss über das Gewinde zwischen Hülse und V-Kupplung gesichert ■ Schließen durch Tellerventil ■ Sechskantprofil der äußeren Hülse für einfaches Anschließen und Trennen auch bei hohem Druck ■ Mit Produkten der Serie MQS-SG und ähnlichen, auf dem Markt erhältlichen Produkten austauschbar

Innesti rapidi a vite specificamente realizzati per impieghi in condizioni estreme ■ Grazie ai componenti interni appositamente dimensionati, questi innesti offrono elevata resistenza agli impulsi di pressione, ai picchi e alle inversioni di flusso e alle vibrazioni tipicamente presenti in applicazioni heavy-duty quali martelli idraulici, demolitori, etc. ■ Connessione e disconnessione a vite, anche alla massima pressione di esercizio ■ Bloccaggio tra maschio e femmina mediante ghiera filettata ■ Occlusione mediante valvola sporgente ■ Ghiera esagonale dell'innesto maschio per consentire connessione e disconnessione ad elevate pressioni ■ Disponibile su richiesta vasta gamma di terminali filettati ■ Intercambiabilità garantita con serie MQS-SG e con i principali prodotti concorrenti

GB

MATERIAL:

Female and male coupling in high standard steel.
Carbonitrated valves, springs in C98 steel, seals in NBR
(other material on request) and back-up rings in PTFE

WORKING TEMPERATURE:

-22°F/+230°F -30°C/+110°C (available specific seals in case of higher temperatures)

SAFETY FACTOR:

1:3 for dynamic pressures and 1:2 for static ones

IMPULSE PRESSURES:

200.000 cycles at 133% of the rated one (freq. 1Hz)

TEST SPECIFICATIONS:

ISO 7241-2

ES

MATERIAL:

El acoplamiento de hembra y macho en acero. Válvula y casquillo carbonitrados, muelles en acero C98, juntas en NBR (otros materiales disponibles bajo solicitud) y anillo de soporte en PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C

(para otras temperaturas, el acoplamiento puede ser montado con juntas específicas)

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

PRESIONES DE IMPULSO:

200.000 ciclos a 133% de la nominal (frec. 1Hz)

CARACTERÍSTICAS DE LA PRUEBA:

ISO 7241-2

D

MATERIAL:

Stecker und Muffen aus hochlegiertem Stahl.
Steuerntes Ventil, Federn C98 Stahl, Dichtungen NBR
(andere Werkstoffe auf Anfrage), Sicherungsring PTFE

BETRIEBSTEMPERATUR:

-22°F/+230°F -30°C/+110°C (spezielle Dichtungen für höhere Temperaturen erhältlich)

SICHERHEITSAKTOR:

1:3 für dynamischen und 1:2 für statischen Druck

DRUCKIMPULSE:

200.000 Zyklen bei 133% des angegebenen Druckes
(Frequenz 1Hz)

TEST SPECIFICATIONS:

ISO 7241-2

IT

MATERIALI:

Innesti femmina ed innesti maschio in acciaio ad alta resistenza. Valvole carbonitrate. Molle in acciaio C98.
Guarnizioni in NBR (altri materiali su richiesta) ed anelli anti-estrusione in PTFE

TEMPERATURE DI ESERCIZIO:

-22°F/+230°F -30°C a +110°C

(per temperature diverse, l'innesto rapido viene fornito con guarnizioni appropriate)

FATTORE DI SICUREZZA:

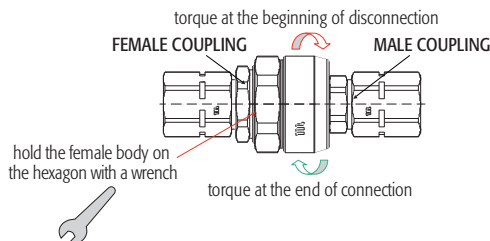
1:3 per pressioni dinamiche e 1:2 per pressioni statiche

RESISTENZA A PRESSIONI PULSANTI:

200.000 cicli a 1Hz al 133% della pressione di esercizio

TEST: ISO 7241-2

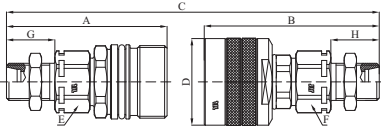
SIZE			TIGHTENING TORQUE (male/female)
mm	inch	dash	Nm
12,5	1/2"	-08	80
20	3/4"	-12	120
25	1"	-16	150



WARNING / AVISO / WARNUNG / ATTENZIONE

When applying the tightening torque at the end of connection or at the beginning of disconnection, hold the female body on the hexagon with a wrench.
Cuando se aplique el par de apriete al final de la conexión o al principio de la desconexión, sostenga el cuerpo macho en el hexágono con una llave.
Beim Anziehen oder Lösen der Kupplungsverbindung mit einem Schraubenschlüssel, sollte die Muffe ebenfalls mit einem Schraubenschlüssel in Position gehalten werden.

Quando si applica la coppia di serraggio alla fine della connessione o all'inizio della disconnessione, tenere l'innesto femmina sull'esagono con una chiave.

SCREW-TYPE FOR GERMAN MARKET - TERMINATION ENDS**Q05211770B - Q05111770B****METRIC TERMINATION ENDS TO ISO 8434-1 BULKHEAD L SERIES**

ROSCA MÉTRICA PARA ISO 8434-1 PASATABIQUE SERIE L

METRISCHE ENDSTÜCKE NACH ISO 8434-1 SCHOTT SERIE L

TERMINALI METRICI A NORMA ISO 8434-1 SERIE L PASSAPARETE

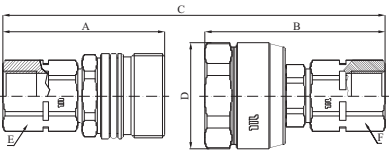
SIZE			PART NUMBER		THREADS	DIMENSIONS mm							
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F	G	H
6,3	1/4"	-04	Q05211770B-04-12	Q05111770B-04-12	M12x1,5	74,5	78,5	A+B-24,5	ø30	19	19	25	25
			Q05211770B-04-14	Q05111770B-04-14	M14x1,5	74,5	78,5	A+B-24,5	ø30	19	19	25	25
10	3/8"	-06	Q05211770B-06-12	Q05111770B-06-12	M12x1,5	81	87	A+B-26,5	ø34	22	22	25	25
			Q05211770B-06-14	Q05111770B-06-14	M14x1,5	80	86	A+B-26,5	ø34	22	22	25	25
			Q05211770B-06-16	Q05111770B-06-16	M16x1,5	80	86	A+B-26,5	ø34	22	22	26	26
			Q05211770B-06-18	Q05111770B-06-18	M18x1,5	80	86	A+B-26,5	ø34	22	22	26	26
12,5	1/2"	-08	Q05211770B-08-14	Q05111770B-08-14	M14x1,5	80,5	88,5	A+B-26,5	ø42	27	27	25	25
			Q05211770B-08-16	Q05111770B-08-16	M16x1,5	80,5	88,5	A+B-26,5	ø42	27	27	26	26
			Q05211770B-08-18	Q05111770B-08-18	M18x1,5	80,5	88,5	A+B-26,5	ø42	27	27	26	26
			Q05211770B-08-22	Q05111770B-08-22	M22x1,5	81,5	89,5	A+B-26,5	ø42	27	27	27	27
20	3/4"	-12	Q05211770B-08-26	Q05111770B-08-26	M26x1,5	82,5	90,5	A+B-26,5	ø42	30	30	29	29
			Q05211770B-12-18	Q05111770B-12-18	M18x1,5	94,8	103,3	A+B-31	ø49	34	34	26	26
			Q05211770B-12-22	Q05111770B-12-22	M22x1,5	95,8	104,3	A+B-31	ø49	34	34	27	27
			Q05211770B-12-26	Q05111770B-12-26	M26x1,5	96,8	105,3	A+B-31	ø49	34	34	29	29
25	1"	-16	Q05211770B-12-30	Q05111770B-12-30	M30x2	100,8	109,3	A+B-31	ø49	34	34	32	32
			Q05211770B-16-26	Q05111770B-16-26	M26x1,5	106,3	113,3	A+B-34,5	ø56	41	41	29	29
			Q05211770B-16-30	Q05111770B-16-30	M30x2	110,3	117,3	A+B-34,5	ø56	41	41	32	32
			Q05211770B-16-36	Q05111770B-16-36	M36x2	110,3	117,3	A+B-34,5	ø56	41	41	32	32

HD SCREW-TYPE FOR GERMAN MARKET - TERMINATION ENDS

BSP

Q06211041A - Q06111041A

BSP TERMINATION ENDS TO DIN 3852 X TYPE
ROSCA BSP PARA DIN 3852 TIPO X
BSP-ENDSTÜCKE NACH DIN 3852 X TYPE
TERMINALI BSP A NORMA DIN 3852 FORMA X



SIZE			PART NUMBER		THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
12,5	1/2"	-08	Q06211041A-08-06	Q06111041A-08-06	3/8"	66,5	74,5	A+B-26,5	ø44,4	27	27
			Q06211041A-08-08	Q06111041A-08-08	1/2"	69,5	77,5	A+B-26,5	ø44,4	27	27
20	3/4"	-12	Q06211041A-12-08	Q06111041A-12-08	1/2"	80,8	89,3	A+B-31	ø54,2	34	34
			Q06211041A-12-12	Q06111041A-12-12	3/4"	82,8	91,3	A+B-31	ø54,2	34	34
25	1"	-16	Q06211041A-16-12	Q06111041A-16-12	3/4"	92,3	99,3	A+B-34,5	ø59,6	41	41
			Q06211041A-16-16	Q06111041A-16-16	1"	95,3	102,3	A+B-34,5	ø59,6	41	41



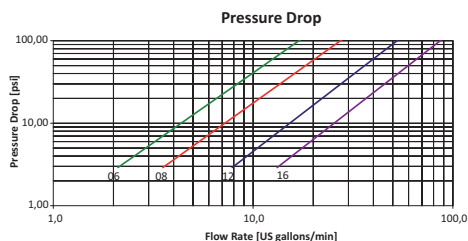
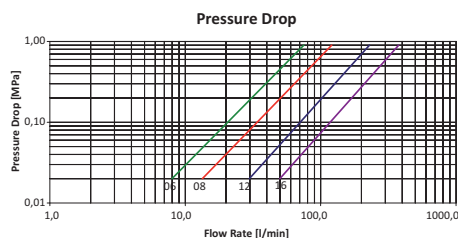
Q.Safe

MQS-SH

SCREW VERY HIGH PRESSURE

SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	OIL SPILLAGE Connection/ Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	L/min.	US GPM	cc.	cubic inch	Male		Female		M+F		
									MPa	PSI	MPa	PSI	MPa	PSI	
10	3/8"	-06	70	10150	31	8,2	1,5	0,092	250	36250	330	47850	320	46400	Allowed max. 30Mpa
12,5	1/2"	-08	70	10150	51	13,5	2,2	0,134	220	31900	240	34800	310	44950	Allowed max. 30Mpa
20	3/4"	-12	65	9425	102	26,9	4	0,244	200	29000	250	36250	310	44950	Allowed max. 30Mpa
25	1"	-16	60	8700	170	44,9	7,5	0,458	200	29000	230	33350	270	39150	Allowed max. 30Mpa



Screw-on connection/disconnection system ■ Sleeve with hexagon area Internal components reinforced, made in steel ■ Hardened valve bodies ■ Three-part poppet valve with a moulded shaped seal ■ Mechanical backstop to prevent partial enclosures of valves due to peaks and reverse flow ■ Interchangeable with other products and widely used in the market ■ Accessories (plugs and caps) and spare parts kits available ■ Wide range of termination end

Sistema de conexión y desconexión roscado ■ Casquillo de acero hexagonal con componentes internos reforzados ■ Cuerpo de la válvula endurecido ■ Válvula de punzon en 3 partes con juntas de estanqueidad ■ Bloques mecánico de la válvula para eliminar el riesgo del cierre del paso del aceite debido a los picos de presión y la inversión del flujo ■ Intercambiabilidad con productos existentes en el mercado ■ Disponibilidad de tapones de protección y kit de recambios ■ Amplia gama de roscas

Schraubkupplung ■ Verbindungsmuffe mit Sechskant ■ Innenteile aus verstärktem Stahl ■ Gehärtete Ventiltteile ■ Dreiteiliges Rückschlagventil mit Spritzformdichtung ■ Mechanischer Anschlag verhindert unbeabsichtigtes Öffnen des Ventils durch Rückfluss oder Druckspitzen ■ Austauschbar mit anderen weit verbreiteten ähnlichen Produkten ■ Zubehör (Schutzkappen und Stopfen) und Ersatzteilkits sind verfügbar ■ Breites Angebot an Anschlussausführungen

Connessione e disconnessione a vite ■ Ghiera con profilo esagonale Componenti interni rinforzati ■ Valvole trattate termicamente ■ Sistema di tenuta poppet in 3 parti con guarnizione elastomerica sagomata ■ Blocco meccanico delle valvole per eliminare il rischio di parziale chiusura del passaggio di olio dovuto a picchi di portata ed inversioni del flusso ■ Intercambiabilità con prodotti esistenti sul mercato ■ Disponibili Tappi di protezione e kit di ricambio ■ Amplia gamma di terminali filettati

TECHNICAL INFO

GB

MATERIAL:

Couplings in steel with some stressed area hardened, carbonitrided valve, springs in C98 steel, seals in NBR, back-up ring PTFE

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C

SAFETY FACTOR:

1:3 for dynamic pressures and 1:2 for static ones

IMPULSE PRESSURES:

500.000 cycles (connected and disconnected conditions) at 120% of the rated one (freq.1Hz)

TEST SPECIFICATIONS:

ISO 7241-2

ES

MATERIAL:

Acoplamiento de acero con algunas zonas endurecidas, válvula carbonitrada, muelles en acero C98 juntas en NBR, anillo de soporte PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C

(para otras temperaturas, el acoplamiento puede ser montado con juntas específicas)

FACTOR DE SEGURIDAD:

1:3 para presiones dinámicas y 1:2 para presiones estáticas

PRESIONES DE IMPULSO:

500.000 ciclos (conexión y desconexión) a 120% presión ejercicio (FREC. 1Hz)

CARACTERÍSTICAS DE LA PRUEBA:

ISO 7241-2

D

MATERIAL:

Kupplungsteile aus Stahl, beanspruchte Flächen gehärtet, Carbonitriertes Ventil, Feder aus C98, Dichtungen NBR, Sicherungsring aus PTFE

BETRIEBSTEMPERATUR:

-22°F bis +230°F -30°C bis +110°C

SICHERHEITSAKTOR:

1:3 für dynamischen und 1:2 für statischen Druck

DRUCKIMPULSE:

500.000 Zyklen (im verbundenen und auch getrennten Zustand) bei 120% des angegebenen Druckes

TEST SPECIFICATIONS:

ISO 7241-2

IT

MATERIAL:

Parti dell' innesto in acciaio al carbonio con zone sollecitate trattate termicamente, valvole carbonitrate, molle in C98, guarnizioni: NBR antiestusione: PTFE

TEMPERATURE DI ESERCIZIO:

-22°F a +230°F -30°C a +110°C

(per temperature diverse, l'innesto rapido viene fornito con guarnizioni appropriate)

FATTORE DI SICUREZZA:

1:3 per pressioni dinamiche e 1:2 per pressioni statiche

RESISTENZA A PRESSIONI PULSANTI:

500.000 cicli (sia accoppiato che disaccoppiato) a 1Hz al 120% della pressione di esercizio

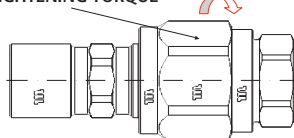
TEST: ISO 7241-2

SIZE				TIGHTENING TORQUE (male/female)
------	--	--	--	------------------------------------

mm	inch	dash	Nm
10	3/8"	- 06	70
12,5	1/2"	- 08	100
20	3/4"	- 12	150
25	1"	- 16	250

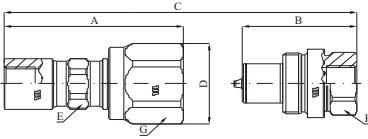


HEXAGON TO APPLYING
TIGHTENING TORQUE



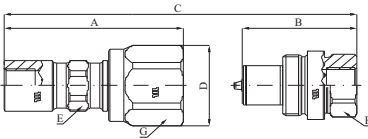
FEMALE COUPLING

MALE COUPLING

SCREW VERY HIGH PRESSURE - TERMINATION ENDS**BSP****Q05411041A - Q05311041A**

BSP TERMINATION ENDS TO DIN 3852 X TYPE
 ROSCA BSP PARA DIN 3852 TIPO X
 BSP-ENDSTÜCKE NACH DIN 3852 X TYPE
 TERMINALI BSP A NORMA DIN 3852 FORMA X

SIZE			PART NUMBER	THREADS	DIMENSIONS mm							
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F	G
10	3/8"	-06	Q05411041A-06-06	Q05311041A-06-06	3/8"	72,5	46,2	A+B-25,9	ø38,5	22	27	35
12,5	1/2"	-08	Q05411041A-08-08	Q05311041A-08-08	1/2"	82,1	54,4	A+B-27,3	ø45,0	27	32	41
20	3/4"	-12	Q05411041A-12-12	Q05311041A-12-12	3/4"	93,7	61,4	A+B-31,9	ø55,0	35	41	50
25	1"	-16	Q05411041A-16-16	Q05311041A-16-16	1"	105,8	68,3	A+B-37	ø66,0	41	50	60

NPT**Q05411341A - Q05311341A**

NPTF TERMINATION ENDS TO ANSI B 1.20.3
 ROSCA NPTF PARA ANSI B 1.20.3
 NPTF-ENDSTÜCKE NACH ANSI B 1.20.3
 TERMINALI NPTF A NORMA ANSI B 1.20.3

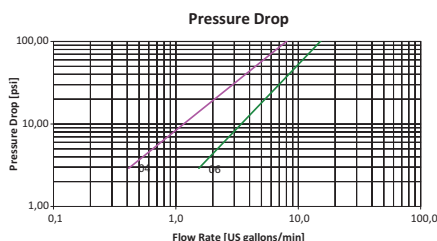
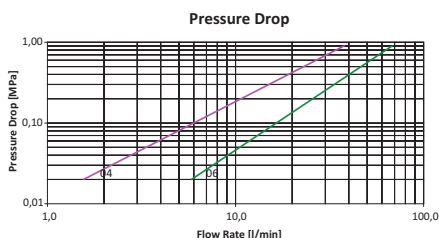
SIZE			PART NUMBER	THREADS	DIMENSIONS mm							
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F	G
10	3/8"	-06	Q05411341A-06-06	Q05311341A-06-06	3/8" NPTF	72,5	46,2	A+B-25,9	ø38,5	22	27	35
12,5	1/2"	-08	Q05411341A-08-08	Q05311341A-08-08	1/2" NPTF	82,1	54,4	A+B-27,3	ø45,0	27	32	41
20	3/4"	-12	Q05411341A-12-12	Q05311341A-12-12	3/4" NPTF	93,7	61,4	A+B-31,9	ø55,0	35	41	50
25	1"	-16	Q05411341A-16-16	Q05311341A-16-16	1" NPTF	105,8	68,3	A+B-37	ø66,0	41	50	60

SCREW-TYPE HYDRAULIC CYLINDERS



					
SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	OIL SPILLAGE Connection/ Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	L/min.	US GPM	cc.	cubic inch	Male		Female		M+F		
									MPa	PSI	MPa	PSI	MPa	PSI	
6,3	1/4"	-04	70	10150	11	2,9	0,4	0,024	350	50750	310	44950	280	40600	Residual pressure
10	3/8"	-06	70	10150	26	6,9	0,6	0,037	280	40600	300	43500	280	40600	Residual pressure



Screw-type couplings specially designed for very high pressure applications on cylinders and hydraulic rams ■ Connection and disconnection is made by screwing the sleeve and can be made with residual pressure in the line ■ The connection is secured on the thread between the sleeve and the male coupling ■ Shut-off by poppet valve provides an effective hydraulic sealing ■ Interchangeable with other products and widely used in the USA and Europe

Acoplamiento de tipo roscado diseñados especialmente para aplicaciones de muy alta presión en cilindros y gatos hidráulicos ■ La conexión y desconexión se realizan atornillando el casquillo o también mediante presión residual en la línea ■ La conexión se asegura en el hilo entre el casquillo y el acoplamiento macho ■ Cerrado por la válvula de punzón que proporciona una estanqueidad hidráulica eficaz ■ Intercambiable con otros productos y ampliamente utilizado en EE.UU. y Europa

Schraubkupplung speziell für Extremhochdruckanwendungen an Zylindern konstruiert ■ Die Verbindung und Trennung erfolgt durch Verschrauben und kann auch bei Restdruck in der Leitung erfolgen ■ Die Verbindung zwischen Stecker und Muffe wird durch das Gewinde gesichert ■ Verschluss durch das Tellerventil bietet effektive hydraulische Abdichtung ■ Austauschbar mit anderen ähnlichen Produkten und ist in den USA und Europa weit verbreitet

Innesti rapidi progettati per l'utilizzo ad altissime pressioni ■ La manovra di innesto e disinnesto viene effettuata avvitando la ghiera e può essere eseguita con pressione residua ■ Il bloccaggio della parte maschio nella parte femmina avviene tramite la filettatura tra ghiera ed innesto maschio ■ La tenuta ad innesto accoppiato è garantita da guarnizioni speciali, la tenuta ad innesti disaccoppiati è garantita da una poppet valve con tenuta elastomerica ■ Intercambiabile con altri prodotti equivalenti presenti sul mercato USA ed Europeo

GB**MATERIAL:**

Female and male coupling in steel. Carbonitrited valves, springs in C98 steel, seals in NBR (other material on request) and back-up rings in PTFE

WORKING TEMPERATURE:

-22°F/+230°F -30°C/+110°C (available specific seals in case of higher temperatures)

SAFETY FACTOR:

1:4 for dynamic pressures and 1:2 for static ones

IMPULSE PRESSURES:

50.000 cycles at 133% of the rated one (freq. 1Hz)

TEST SPECIFICATIONS:

ISO 7241-2

ES**MATERIAL:**

El acoplamiento de hembra y macho en acero. Válvula y casquillo carbonitrados, muelles en acero C98, juntas en NBR (otros materiales disponibles bajo solicitud) y anillo de soporte en PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C

(para otras temperaturas, el acoplamiento puede ser montado con juntas específicas)

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

PRESIONES DE IMPULSO:

50.000 ciclos a 133% de la nominal (frec. 1Hz)

CARACTERÍSTICAS DE LA PRUEBA:

ISO 7241-2

D**MATERIAL:**

Stecker und Muffe aus Stahl, carbonitriertes Ventil, Federn aus C98-Stahl, NBR-Dichtungen (andere Materialien auf Anfrage) und PTFE-Stützring

BETRIEBSTEMPERATUR:

-22°F bis +230°F -30°C bis +110°C

SICHERHEITSAKTOR:

1:4 für dynamischen Druck und 1:2 für statischen Druck

DRUCKIMPULSE:

50.000 Zyklen bei 133% des angegebenen Druckes (Frequenz 1Hz)

PRÜFSPEZIFIKATIONEN:

ISO 7241-2

IT**MATERIALI:**

Innesti femmina e maschio in acciaio. Valvole carbonitrate. Molle in acciaio C98. Guarnizioni in NBR (altri materiali su richiesta) ed anelli anti-estrusione in PTFE

TEMPERATURE DI ESERCIZIO:

-22°F a +230°F -30°C a +110°C

(per temperature diverse, l'innesto rapido viene fornito con guarnizioni appropriate)

FATTORE DI SICUREZZA:

1:4 per pressioni dinamiche e 1:2 per pressioni statiche

RESISTENZA A PRESSIONI PULSANTI:

50.000 cicli a 1Hz al 133% della pressione di esercizio

TEST:

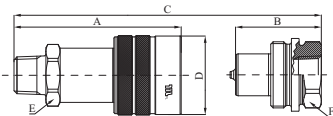
ISO 7241-2

SCREW-TYPE HYDRAULIC CYLINDERS - TERMINATION ENDS

NPT

Q05611280B

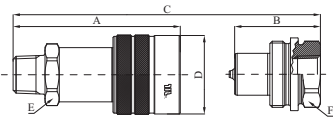
FEMALE COUPLING WITH NPT TERMINATION ENDS TO ANSI B 1.20.3
ACOPLAMIENTOS HEMBRA CON ROSCA NPT PARA ANSI B 1.20.3
NPT MUFFEN-ENDSTÜCKE NACH ANSI B 1.20.3
INNESTI FEMMINA CON TERMINALI NPT A NORMA ANSI B 1.20.3



SIZE			PART NUMBER	THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling		A	B	C	D	E	F
6,3	1/4"	-04	Q05611280B-04-04	1/4" NPTF	62,4	-	A+B-19	ø30	21	-
10	3/8"	-06	Q05611280B-06-04	1/4" NPTF	76	-	A+B-25	ø35,6	25	-
			Q05611280B-06-06	3/8" NPTF	76	-	A+B-25	ø35,6	25	-

Q05511341B

MALE COUPLING WITH NPT TERMINATION ENDS TO ANSI B 1.20.3
ACOPLAMIENTOS MACHO CON ROSCA NPT PARA ANSI B 1.20.3
NPT VERBINDUNGSTÜCKE NACH ANSI B 1.20.3
INNESTI MASCHIO CON TERMINALI NPT A NORMA ANSI B 1.20.3

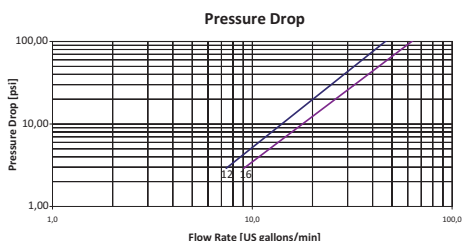
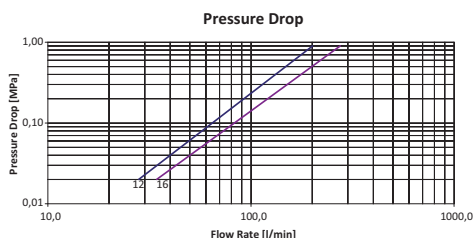


SIZE			PART NUMBER	THREADS	DIMENSIONS mm					
mm	inch	dash	Male Coupling		A	B	C	D	E	F
6,3	1/4"	-04	Q05511341B-04-04	1/4" NPTF	-	34	A+B-19	-	-	22
10	3/8"	-06	Q05511341B-06-04	1/4" NPTF	-	39	A+B-25	-	-	27
			Q05511341B-06-06	3/8" NPTF	-	39	A+B-25	-	-	27



					
SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	OIL SPILLAGE Connection/ Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	L/min.	US GPM	cc.	cubic inch	Male		Female		M+F		
									MPa	PSI	MPa	PSI	MPa	PSI	
20	3/4"	-12	25	3625	92	24,3	7,5	0,458	100	14500	120	17400	110	15950	Residual pressure
25	1"	-16	25	3625	121	32,0	9	0,549	120	17400	140	20300	130	18850	Residual pressure



Screw-type couplings specially designed for truck trailer applications ■ Wing Nut shaped sleeve for easier connection and disconnection by hand, also in case of residual pressure in the line ■ Connection secured on the thread between the sleeve and the female coupling ■ Shut-off by poppet valve ■ Interchangeable with similar products available in the market

Acoplamiento de tipo de rosca diseñados especialmente para aplicación en remolques de camión ■ Casquillo con forma de tuerca de mariposa para una fácil conexión manual, también en el caso de presión residual en la línea ■ La conexión se asegura con la rosca entre el casquillo y la espiga macho ■ Sistema de retención a través de válvula de punzón ■ Intercambiable con otros productos utilizados en el mercado

Speziell für LKW-Anhänger entwickelte Schraubkupplungen ■ Hülse mit angeformter Flügelmutter für einfaches Handling auch bei Restdruck in der Leitung ■ Gewindegewissung zwischen Muffengewinde und Hülse ■ Verschluss durch Tellerventil sichergestellt ■ Austauschbar mit ähnlichen marktüblichen Produkten

Innesti rapidi a vite specificamente realizzati per applicazioni veicoli stradali ■ Ghiera con alette facilitanti per le operazioni manuali di connessione e disconnessione, anche in presenza di pressioni residue nell'impianto ■ Bloccaggio tra maschio e femmina mediante ghiera filettata ■ Sistema di tenuta mediante valvola sporgente ■ Intercambiabilità garantita con i principali prodotti concorrenti

TECHNICAL INFO

GB**MATERIAL:**

Female and male coupling in steel. Carbonitrited valve, springs in C98 steel, seals in NBR (others materials on request) and Back-up Ring in PTFE

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C

SAFETY FACTOR:

1:4 for dynamic pressures and 1:2 for static ones

TEST:

ISO 7241-2

ES**MATERIAL:**

El acoplamiento de hembra y macho en acero. Válvula y casquillo carbonitrados, muelles en acero C98, juntas en NBR (otros materiales disponibles bajo solicitud) y anillo de soporte en PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

CARACTERÍSTICAS DE LA PRUEBA:

ISO 7241-2

D**MATERIAL:**

Kupplungsstecker und -muffe aus Stahl. Carbonitriertes Ventil, Federn aus C98-Stahl, NBR-Dichtungen (andere Materialien auf Anfrage) und PTFE-Stützring

BETRIEBSTEMPERATUR:

-22°F bis +230°F -30°C bis +110°C

SICHERHEITSAKTOR:

1:4 für dynamischen und 1:2 für statischen Druck

TEST:

ISO 7241-2

IT**MATERIALI:**

Innesti femmina e maschio in acciaio zincato. Valvole carbonitrate. Molle in acciaio C98. Guarnizioni in NBR ed anelli anti-estrusione in PTFE

TEMPERATURE DI ESERCIZIO:

-22°F a +230°F -30°C a +110°C

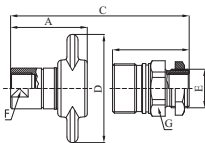
FAITTORE DI SICUREZZA:

1:4 per pressioni dinamiche e 1:2 per pressioni statiche

TEST:

ISO 7241-2

SCREW-TYPE FOR TRUCKS - TERMINATION ENDS



Q05811041A - Q05711041A

BSP TERMINATION ENDS TO DIN 3852-2 X TYPE
BSP PARA DIN 3852-2 TIPO X
BSP ANSCHLUSS NACH DIN 3852-2 FORM X
TERMINALI BSP A NORMA DIN 3852-2 FORMA X

SIZE			PART NUMBER		THREADS	DIMENSIONS mm						
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F	G
20	3/4"	-12	Q05811041A-12-12	Q05711041A-12-12	3/4"	78	78	138	117	1.1/4"	33	46
25	1"	-16	Q05811041A-16-16	Q05711041A-16-16	1"	83	83	148	117	1.1/4"	40	55

QUICK COUPLINGS

Q.Safe Check valves



Fluid connectors, solid solutions

manuli[®]
HYDRAULICS

INTRODUCTION & INDEX

GB

CHECK VALVES

Check valves are used in the hydraulic System as safety device to control the flow.
Manuli offered two family:

- MQS-CV female thread inlet-port and female thread outlet port
- MQS-CVC male thread inlet-port and male thread outlet port very compact design

Available size from 1/4" to 1", with wide range of termination end, pressure ratings and crack pressure.

ES

VALVULAS DE CONTROL

Las válvulas de control se usan en el sistema hidráulico y en el dispositivo de seguridad para controlar el candel.
Manuli ofrece dos familias:

- MQS-CV rosca hembra de entrada y rosca hembra de salida
- MQS-CVC rosca hembra de entrada y rosca hembra de salida muy compacta

Disponible desde 1/4" a 1", con amplia gama de roscas, evaluación de presión y presión de apertura.

D

RÜCKSCHLAGVENTIL

Rückschlagventile werden als Sicherheitsbauteil in Hydrauliksystemen zur Steuerung des Durchflusses eingesetzt.
Manuli bietet zwei Produktfamilien an:

- MQS-CV Eingangsseite und Ausgang mit Innengewinde
- MQS-CVC Eingangsseite und Ausgang mit Außengewinde, sehr kompakte Ausführung

Verfügbare NG sind 1/4" bis 1" mit einer großen Auswahl an Gewindeformen, Druckbereichen und Öffnungsdrucken

IT

VALVOLE DI CONTROLLO

Le valvole unidirezionali sono utilizzate nei circuiti idraulici come dispositivo di sicurezza e di controllo del flusso.
Manuli offre due famiglie:

- MQS-CV terminale femmina lato entrata e terminale femmina lato uscita
- MQS-CVC design compatto, terminale maschio lato entrata e terminale maschio lato uscita

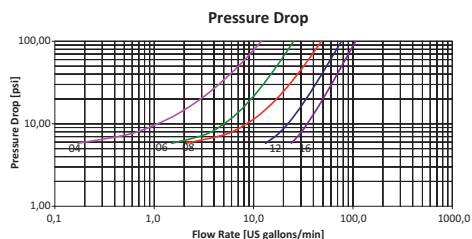
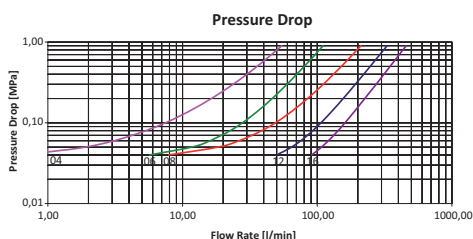
Disponibili dimensioni dal 1/4" fino al 1", con una ampia gamma di terminali, pressioni di esercizio e pressioni di apertura.

CHECK VALVES	CHECK VALVE SERIES	CHECK VALVE ITEM	SPECIFICATIONS	SHUT-OFF SYSTEM	CONNECTION	WORKING PRESSURE		PAGE
						MPa	PSI	
	MQS-CV check valve	Q2A	-	VALVE	-	from 35 to 45	from 5075 to 6525	507
	MQS-CVC check valve compact	Q2B	-	VALVE	-	35	5075	510



			
SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	MINIMUM BURST PRESSURE (MPa)

mm	inch	dash	MPa	PSI	L/min.	US GPM	MPa	PSI
6,3	1/4"	-04	45	6525	16	4,2	240	34800
10	3/8"	-06	35	5075	46	12,2	160	23200
12,5	1/2"	-08	35	5075	83	21,9	160	23200
20	3/4"	-12	35	5075	134	35,4	150	21750
25	1"	-16	35	5075	231	61,0	150	21750



The check valves are used in the hydraulic circuits as safety device to check the flow ■ They work at a stated pressure, allowing flow in just one direction ■ Shut-off system: valve with metal sealing ■ Standard opening pressure is 35kPa (0,35 bar) ■ Different opening pressures on request till 1.000KPa (10bar)

Las válvulas de comprobación se utilizan en los circuitos hidráulicos como mecanismo de seguridad para comprobar la circulación y permitir la a cierta presión ■ Funcionan a una presión determinada ■ Sistema de desactivación: válvula con junta metálica, que garantiza un perfecto funcionamiento ■ La presión de apertura estándar es de 35kPa (0,35 bar) ■ Bajo pedido, están disponibles varias roscas y presiones de apertura diferentes hasta 1.000KPa (10bar)

Absperrventile werden in Hydraulikkreisläufen als Sicherheitsvorrichtung zum Stoppen des Durchflusses eingesetzt ■ Sie funktionieren mit einem angegebenen Druck und ermöglichen die Strömung in nur eine Richtung ■ Schließsystem: mittels Ventil mit Metaldichtung ■ Standardöffnungsdruck 35kPa (0,35 bar) ■ Unterschiedliche Öffnungsdrücke auf Anfrage bis 1.000KPa (10bar) erhältlich

Le valvole unidirezionali sono utilizzate come dispositivo di sicurezza in circuiti idraulici ■ Permettono il passaggio del fluido in una sola direzione e solo quando si raggiunge una determinata pressione (taratura) ■ Sistema di tenuta mediante valvola con tenuta metallica ■ Versione standard equipaggiata con molla tarata per intervenire alla pressione di 35KPa (0,35bar) ■ Disponibile differenti tarature fino a 1.000KPa (10bar)

TECHNICAL INFO

GB**MATERIAL:**

Bodies and valves in steel, springs in C98 steel

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C

OPENING PRESSURE:

35 kPa (0,35 bar - 5PSI)

TEST:

ISO 7241-2

ES**MATERIAL:**

Cuerpos y válvulas en acero, muelles en acero C98

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C

PRESIÓN DE APERTURA:

35 kPa (0,35 bar - 5PSI)

CARACTERÍSTICAS DE LA PRUEBA:

ISO 7241-2

D**MATERIAL:**

Körper und Ventile aus Stahl, Federn aus C98-Stahl

BETRIEBSTEMPERATUR:

-22°F bis +230°F -30°C bis +110°C

ÖFFNUNGSDRUCK:

35 kPa (0,35 bar - 5PSI)

PRÜFUNG:

ISO 7241-2

IT**MATERIALI:**

Corpi e valvole in acciai al carbonio. Molle in acciaio C98

TEMPERATURE DI ESERCIZIO:

-22°F a +230°F -30°C a +110°C

APERTURA:

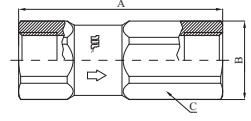
35 kPa (0,35 bar - 5PSI)

TEST:

ISO 7241-2

CHECK VALVES - TERMINATION ENDS**BSP****Q2A2100404A**

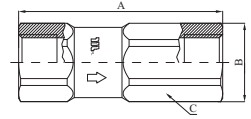
BSP TERMINATION ENDS TO DIN 3852-2 X TYPE
 ROSCA BSP PARA DIN 3852-2 TIPO X
 BSP IG ANSCHLÜSSE NACH DIN 3852-2 FORM X
 TERMINALE BSP A NORMA DIN 3852-2 FORMA X



SIZE			PART NUMBER	OPENING PRESSURE	THREADS	DIMENSIONS mm		
mm	inch	dash	Female Coupling			A	B	C
6,3	1/4"	-04	Q2A2100404A-04-04	35 kPa	1/4"	60	ø21	19
10	3/8"	-06	Q2A2100404A-06-06	35 kPa	3/8"	65	ø24,2	22
12,5	1/2"	-08	Q2A2100404A-08-08	35 kPa	1/2"	77	ø29,6	27
20	3/4"	-12	Q2A2100404A-12-12	35 kPa	3/4"	90	ø37,4	34
25	1"	-16	Q2A2100404A-16-16	35 kPa	1"	104	ø45	41

NPT**Q2A2103434A**

NPT TERMINATION ENDS TO ANSI B 1.20.3
 ROSCA NPT PARA ANSI B 1.20.3
 NPT IG ANSCHLÜSSE NACH ANSI B 1.20.3
 TERMINALI NPT A NORMA ANSI B 1.20.3

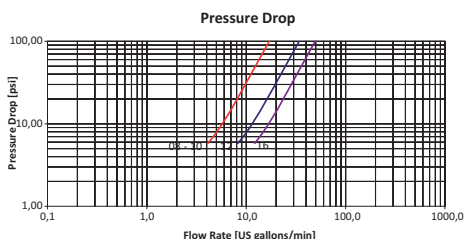
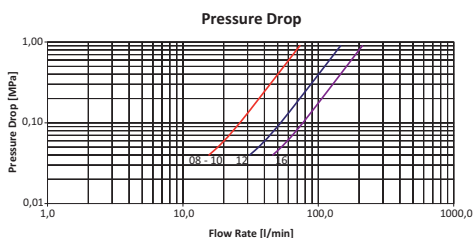


SIZE			PART NUMBER	OPENING PRESSURE	THREADS	DIMENSIONS mm		
mm	inch	dash	Female Coupling			A	B	C
6,3	1/4"	-04	Q2A2103434A-04-04	35 kPa	1/4" NPTF	60	ø21	19
10	3/8"	-06	Q2A2103434A-06-06	35 kPa	3/8" NPTF	65	ø24,2	22
12,5	1/2"	-08	Q2A2103434A-08-08	35 kPa	1/2" NPTF	77	ø29,6	27
20	3/4"	-12	Q2A2103434A-12-12	35 kPa	3/4" NPTF	90	ø37,4	34
25	1"	-16	Q2A2103434A-16-16	35 kPa	1" NPTF	104	ø45	41



			
SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop and opening pressure 35kPa	MINIMUM BURST PRESSURE (MPa)

mm	inch	dash	MPa	PSI	L/min.	US GPM	MPa	PSI
12,5	1/2"	-08	35	5075	37	9,8	140	20300
16	5/8"	-10	35	5075	37	9,8	140	20300
20	3/4"	-12	35	5075	60	15,9	140	20300
25	1"	-16	35	5075	103	27,2	140	20300



Compact design ■ Used in the hydraulic circuit as safety device to check the flow ■ One-piece body eliminate leakage points ■ Cr3+ surface coating ■ Variety of termination ends available

Diseño compacto ■ Son utilizados en circuitos hidráulicos como dispositivo de seguridad para el control del canal ■ Válvula de un unico cuerpo que elimina el area de fugas ■ Cincado trivalente Ecoat ■ Amplia gama de roscas

Kompaktfom ■ Als Sicherheits-Stromventil in Hydrauliksystemen ■ Einteiliger Ventilkörper verhindert Leckagestellen ■ Cr3+ Oberflächenbeschichtung ■ Viele verfügbare Anschlussformen

Valvole unidirezionali estremamente compatte e robuste ■ Vengono utilizzate nei circuiti idraulici come dispositivo di sicurezza per il controllo del flusso ■ Valvola ad unico corpo che elimina possibili aree di perdita ■ Zincatura trivalente Ecoat ■ Ampia gamma di terminali

GB**MATERIAL:**

Body and valves in steel, spring in C98 steel

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C

OPENING PRESSURE:

Standard opening pressure 35kPa (0,35bar- 5PSI). On request optional open pressures

ES**MATERIAL:**

Cuerpos y válvulas en acero, muelles en acero C98

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C

PRESIÓN DE APERTURA:

Presión de Apertura estándar 35kPa (0,35bar- 5PSI)
Bajo pedido presiones de aperturas opcionales

D**MATERIAL:**

Körper und Ventiltteile aus Stahl, Federn aus C98 Stahl

BETRIEBSTEMPERATUR:

-22°F bis +230°F -30°C bis +110°C

ÖFFNUNGSDRUCK:

Standard Öffnungsdruck 35 kPa (0,35 bar – 5 PSI).
Andere Druckwerte auf Anfrage

IT**MATERIALI:**

Corpi delle Vu e valvole in acciaio al carbonio; Molle in acciaio C98

TEMPERATURE DI ESERCIZIO:

-22°F a +230°F -30°C a +110°C

RESISTENZA A PRESSIONI PULSANTI:

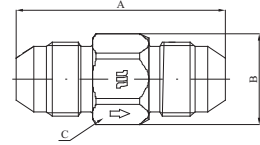
35kPa (0,35bar- 5PSI) su richiesta altre tarature

CHECK VALVES COMPACT - TERMINATION ENDS

SAE

Q2B1112525A

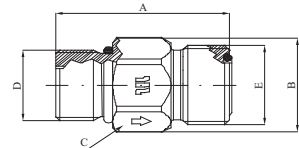
SAE TERMINATION ENDS TO ISO 8434-2
 ROSCA SAE PARA ISO 8434-2
 SAE ANSCHLÜSSE NACH ISO 8434-2
 TERMINALI SAE A NORMA ISO 8434-2



SIZE			PART NUMBER	OPENING PRESSURE	THREADS	DIMENSIONS mm		
mm	inch	dash	Female Coupling			A	B	C
12,5	1/2"	-08	Q2B1112525A-08-08	35 kPa	3/4"-16 UNF	46,2	ø24,5	22
16	5/8"	-10	Q2B1112525A-10-10	35 kPa	7/8"-14 UNF	51,3	ø30	27
20	3/4"	-12	Q2B1112525A-12-12	35 kPa	1.1/16"-12 UN	56,3	ø35	32
25	1"	-16	Q2B1112525A-16-16	35 kPa	1.5/16"-12 UN	62	ø41	38

Q2B1113224A

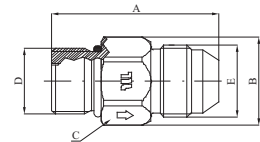
SAE TERMINATION ENDS TO SAE J1926-3 AND ISO 8434-3
 ROSCA SAE PARA SAE J1926-3 Y ISO 8434-3
 SAE ANSCHLÜSSE NACH SAE J1926-3 UND ISO 8434-3
 TERMINALI SAE A NORMA SAE J1926-3 E ISO 8434-3



SIZE			PART NUMBER	OPENING PRESSURE	THREADS		DIMENSIONS mm		
mm	inch	dash	Female Coupling		D (SAE J1926-3)	E (ISO 8434-3)	A	B	C
12,5	1/2"	-08	Q2B1113224A-08-08	35 kPa	3/4"-16 UNF	13/16"-16 UN	39,6	ø24,5	22
16	5/8"	-10	Q2B1113224A-10-10	35 kPa	7/8"-14 UNF	1"-14 UNS	44,4	ø30	27
20	3/4"	-12	Q2B1113224A-12-12	35 kPa	1.1/16"-12 UN	1.3/16"-12 UN	48,5	ø35	32
25	1"	-16	Q2B1113224A-16-16	35 kPa	1.5/16"-12 UN	1.7/16"-12 UN	52	ø41	38

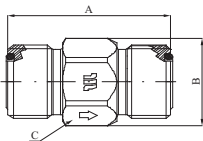
Q2B1113225A

SAE TERMINATION ENDS TO SAE J1926-3 AND ISO 8434-2
 ROSCA SAE PARA SAE J1926-3 Y ISO 8434-2
 SAE ANSCHLÜSSE NACH SAE J1926-3 UND ISO 8434-2
 TERMINALI SAE A NORMA SAE J1926-3 E ISO 8434-2



SIZE			PART NUMBER	OPENING PRESSURE	THREADS		DIMENSIONS mm		
mm	inch	dash	Female Coupling		D (SAE J1926-3)	E (ISO 8434-2)	A	B	C
12,5	1/2"	-08	Q2B1113225A-08-08	35 kPa	3/4"-16 UNF	3/4"-16 UNF	43,4	ø24,5	22
16	5/8"	-10	Q2B1113225A-10-10	35 kPa	7/8"-14 UNF	7/8"-14 UNF	48	ø30	27
20	3/4"	-12	Q2B1113225A-12-12	35 kPa	1.1/16"-12 UN	1.1/16"-12 UN	53	ø35	32
25	1"	-16	Q2B1113225A-16-16	35 kPa	1.5/16"-12 UN	1.5/16"-12 UN	57,4	ø41	38

CHECK VALVES COMPACT - TERMINATION ENDS



Q2B1112424A

SAE TERMINATION END TO ISO 8434-3
ROSCA SAE PARA ISO 8434-3
ANSCHLÜSSE NACH ISO 8434-3
TERMINALI SAE A NORMA ISO 8434-3

SIZE			PART NUMBER	OPENING PRESSURE	THREADS	DIMENSIONS mm		
mm	inch	dash	Female Coupling			A	B	C
12,5	1/2"	-08	Q2B1112424A-08-08	35 kPa	13/16"-16 UN	38,3	ø24,5	22
16	5/8"	-10	Q2B1112424A-10-10	35 kPa	1"-14 UNS	43,7	ø30	27
20	3/4"	-12	Q2B1112424A-12-12	35 kPa	1.3/16"-12 UN	46,7	ø35	32
25	1"	-16	Q2B1112424A-16-16	35 kPa	1.7/16"-12 UN	50,7	ø41	38

QUICK COUPLINGS

Q.Safe DHI



Fluid connectors, solid solutions

manuli[®]
HYDRAULICS

INTRODUCTION & INDEX

GB

MQS-DHI "DIRECT HOSE INTEGRATION"

Innovative system to assembly the quick-release coupling to the flexible hose, avoiding intermediate connection elements

- Definitely improved resistance against oil leakage
- Risk elimination of unscrewing troubles in the field
- Reduction of elements to be assembled that lead to following benefits:
 - reduction of assembly cost
 - risk reduction of assembly operation mistakes
 - more safety in severe working conditions
 - easier maintenance and replacement operations
- Design solution available for most common series ISO A; Push-Pull & Flat-Face

Quick release coupling DHI maintenance WITHOUT FLEXIBLE HOSE REPLACEMENT.

ES

MQS-DHI "INTEGRACIÓN DIRECTA A LA MANGUERA"

Sistema innovador para montar un enchufe rápido al latiguillo, evitando los elementos de conexión intermedios

- Resistencia mejorada a las fugas
- Eliminación de riesgos en el desmontaje en el campo
- Reducción de elementos montados que tiene los siguientes beneficios:
 - Reducción de costo de ensamblaje
 - Más seguridad en condiciones severas
 - Mayor facilidad en el mantenimiento y recambio
 - Reducción de riesgos de errores durante la operación de ensamblaje
- Soluciones disponibles con las series más comunes ISO A; Push-Pull y Flat-Face

El mantenimiento del enchufe DHI, NO NECESITA LA SOSTITUCION DE LA MANGUERA.

D

MQS-DHI "DIREKT-SCHLAUCH INTEGRATION"

Innovatives System für die Montage der Schnellverschlusskupplung direkt am flexiblen Schlauchende ohne eines Zwischenverbindungsstücks.

- Erhebliche Verbesserung der Leckageanfälligkeit
- Risiko des Abschraubens im Betrieb ist eliminiert
- Teilereduktion mit folgenden Vorteilen:
 - Senkung der Montagekosten
 - Verringeres Risiko bei der Montage
 - Höhere Sicherheit bei schweren Einsatzbedingungen
 - Vereinfachte Wartung und Austausch
- Diese Lösung ist für die meistüblichen Ausführungen gem. der ISO-A Normen als push-pull und flachdichtend erhältlich.

DHI Schnellverschlusskupplung WARTUNG OHNE AUSTAUSCH DES FLEXIBLEN SCHLAUCHES.

IT

MQS-DHI "DIRECT HOSE INTEGRATION"

Sistema innovativo per assemblare l'innesto rapido al tubo flessibile senza l'utilizzo di connettori intermedi.

- Decisamente migliorata la resistenza contro le perdite di olio
- Eliminato il rischio di svitamenti/allentamenti durante l'utilizzo
- La riduzione degli elementi da assemblare porta ai seguenti benefici:
 - Riduce i costi di assemblaggio
 - Riduce i rischi di errore durante le operazioni di assemblaggio
 - Prodotto più sicuro nelle applicazioni "severe"
 - Le operazioni di manutenzione e ricambio sono agevoli
- Disponibile nelle serie più utilizzate sul mercato: ISO A; Push-Pull & Flat-Face

La manutenzione degli innesti serie DHI, AVVIENE SENZA LA SOSTITUZIONE DEL TUBO FLESSIBILE.

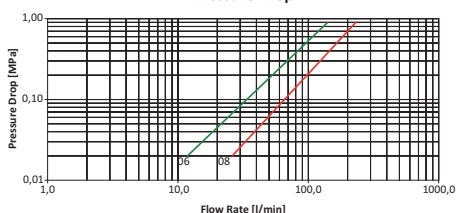
DHI DIRECT HOSE INTEGRATION	QUICK COUPLINGS SERIES	FEMALE COUPLING	MALE COUPLING	SPECIFICATIONS	SHUT-OFF SYSTEM	CONNECTION	WORKING PRESSURE		PAGE
							MPa	PSI	
	MQS-DHI ISO A	Q308	Q302	ISO 7421 serie A	POPPET VALVE	LOCKING BALLS	30	4350	518
	MQS-DHI ISO A push-pull	Q313	-	ISO 7421 serie A	POPPET VALVE	LOCKING BALLS	30	4350	520
	MQS-DHI flat-face	Q341	Q339	ISO 16028 e HTMA (only 3/8" size)	FLAT VALVE	LOCKING BALLS	25	3625	521



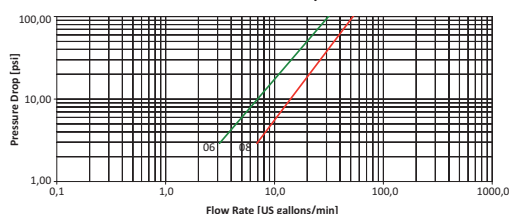
					
SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	OIL SPILLAGE Connection/ Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	L/min.	US GPM	cc.	cubic inch	Male		Female		M+F		
									MPa	PSI	MPa	PSI	MPa	PSI	
12,5	1/2"	-08	30	4350	75	19,8	1,8	0,110	120	17400	150	21750	150	21750	Not allowed

Pressure Drop



Pressure Drop



Dimensional and performance requirements conform to ISO 7241-1 series A, ensuring worldwide interchangeability ■ Connection by pull back the sleeve (with female ISO A) ■ Connection by pushing the male coupling and disconnection by pulling back the male coupling, when female coupling is bulkhead mounted on the outside sleeve (PUSH-PULL) ■ Positive connection by the locking ball system ■ Shut-off by poppet valve provides an effective hydraulic sealing ■ When female bulkhead mounted on the outside sleeve (PUSH-PULL), the coupling ensures breakaway features according to ISO 5675

Dimensiones y prestaciones están conformes a la norma ISO 7241-1 series A., que garantiza de la intercambiabilidad a nivel mundial ■ Conexión empujando el macho y desconexión tirando del macho cuando la hembra está montada en pasabique en el casquillo (PUSH-PULL) ■ Bloqueo entre macho y hembra garantizadas por un elevado número de bolas metálicas ■ Sistema de retención a través de válvula de punzón ■ Sistema de retención a través de válvula de punzón ■ Cuando el Acoplamiento PUSH-PULL es fijado a pared por el casquillo, asegura los posibles daños conforme a la norma ISO 5675

Leistung und Maße entsprechen ISO 7241-1 Teil A, dadurch ist die weltweite Austauschbarkeit gesichert ■ Verbindung mittels Schiebehülse (bei ISO A Kupplungsmuffen) ■ Verbinden und Trennen des Kupplungsstecker durch einfaches Drücken oder Ziehen bei Muffen die mit der Schiebehülse an der Schottwand montiert sind. ■ Schnelles Kugleinrastsystem ■ Verschluss durch Tellerventil garantiert effektive hydraulische Abdichtung ■ Bei schottwandmontierter Muffe entspricht die Losreißeigenschaft ISO 5675

Dimensioni e prestazioni sono conformi alla norma ISO 7241-1 serie A, che ne garantisce l'intercambiabilità a livello mondiale ■ Connessione arretrando la ghiera (con femmina ISO A) ■ Connessione spingendo l'innesto maschio e disconnessione tirando l'innesto maschio; quando l'innesto con femmina è montato a parete tramite la ghiera (PUSH-PULL) ■ Bloccaggio tra maschio e femmina garantito da un elevato numero di sfere metalliche ■ Sistema di tenuta mediante valvola sporgente ■ Quando l'innesto femmina (PUSH-PULL) è fissato a parete tramite la ghiera, è conforme alla funzione anti-danneggiamento dei tubi secondo la norma ISO 5675



Quick release couplings DHI maintenance without flexible hose replacement.

El mantenimiento del enchufe DHI, no necesita la sustitución de la manguera.

DHI Schnellverschlusskupplung kann getauscht werden ohne den Schlauch wegwerfen zu müssen.

La manutenzione degli innesti rapidi DHI non necessita della sostituzione del tubo flessibile.

GB**MATERIAL:**

Female couplings in steel, with some hardened areas, in correspondence to the most stressed points. Male couplings in high grade carbon steel. Carbonitrited valve and sleeve, springs in C98 steel, seals in NBR (others materials on request) and Back-up Ring in PTFE

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C

(for other temperatures, the coupling may be assembled with the specific seals)

SAFETY FACTOR:

1:4 for dynamic pressures and 1:2 for static pressures

IMPULSE PRESSURES:

100.000 cycles at 133% of the rated one (freq. 1Hz)

TEST SPECIFICATIONS:

ISO 7241-2

ES**MATERIAL:**

El acoplamiento de hembra y macho en acero, con algunas zonas endurecidas, que corresponden a los puntos de más sobrecarga. Válvula y casquillo carbonitrados, muelles en acero C98, juntas en NBR (otros materiales disponibles bajo solicitud) y anillo de soporte en PTFE

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C

(para otras temperaturas, el acoplamiento puede ser montado con juntas específicas)

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

PRESIONES DE IMPULSO:

100.000 ciclos a 133% de la nominal (frec. 1Hz)

CARACTERÍSTICAS DE LA PRUEBA:

ISO 7241-2

D**MATERIAL:**

Kupplungsmuffen aus Stahl mit einigen gehärteten Zonen im Bereich der am meisten beanspruchten Punkte. Stecker aus hochwertigem Hartstahl. Carbonitriertes Ventil und Hülse, Federn aus C98-Stahl, NBR-Dichtungen (andere Materialien auf Anfrage) und PTFE-Stützring

BETRIEBSTEMPERATUR:

-22°F bis +230°F -30°C bis +110°C

(für andere Temperaturen können die Kupplungen mit spezifischen Dichtungen ausgestattet werden)

SICHERHEITSFAKTOR:

1:4 für dynamischen Druck und 1:2 für statischen Druck

DRUCKIMPULSE:

100.000 Zyklen bei 133% des angegebenen Druckes (Frequenz 1Hz)

PRÜFUNGSPEZIFIKATIONEN:

ISO 7241-2

IT**MATERIALI:**

Innesto femmina in acciaio con parti sollecitate trattate termicamente ed innesto maschio in acciaio con alto tenore di carbonio temprato ad induzione. Molle in acciaio C98. Guarnizioni in NBR (altri materiali su richiesta) ed anelli anti-estrusione in PTFE

TEMPERATURE DI ESERCIZIO:

-22°F a +230°F -30°C a +110°C

(per temperature diverse, l'innesto rapido viene fornito con guarnizioni appropriate)

FATTORE DI SICUREZZA:

1:4 per pressioni dinamiche e 1:2 per pressioni statiche

RESISTENZA A PRESSIONI PULSANTI:

100.000 cicli a 1Hz al 133% della pressione di esercizio.

TEST: ISO 7241-2

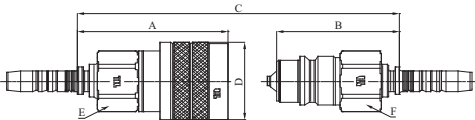
ISO A - TERMINATION ENDS

Q30211MF1A

MALE ISO A COUPLING - MULTIFIT INSERT
ESPIGA ISO A MACHO MULTIFIT
STECKER - MULTIFIT NIPPEL
INSERTO MASCHIO ISO A - INSERTO MULTIFIT

Q30811MF1A

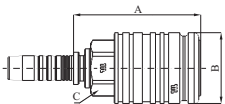
FEMALE COUPLING ISO A - MULTIFIT INSERT
ESPIGA ISO A HEMBRA MULTIFIT
MUFFE - MULTIFIT NIPPEL
INSERTO FEMMINA ISO A - INSERTO MULTIFIT



SIZE			PART NUMBER	THREADS	DIMENSIONS mm						
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
12,5	1/2"	-08	Q30811MF1A-08-04	Q30211MF1A-08-04	1/4" MF2000	62,5	51,3	A+B-21,8	ø38	27	27
			Q30811MF1A-08-06	Q30211MF1A-08-06	3/8" MF2000	62	50,8	A+B-21,8	ø38	27	27
			Q30811MF1A-08-08	Q30211MF1A-08-08	1/2" MF2000	60,4	49,2	A+B-21,8	ø38	27	27

Q31311MF1A

FEMALE COUPLING PUSH-PULL - MULTIFIT INSERT
ESPIGA HEMBRA PUSH-PULL - MULTIFIT
MUFFE PUSH-PULL - MULTIFIT NIPPEL
INSERTO FEMMINA PUSH-PULL - INSERTO MULTIFIT



SIZE			PART NUMBER	INSERT	DIMENSIONS mm					
mm	inch	dash	Female Coupling		A	B	C	D	E	F
12,5	1/2"	-08	Q31311MF1A-08-06	3/8" MF2000	62	ø38	27	-	-	-
			Q31311MF1A-08-08	1/2" MF2000	60,4	ø38	27	-	-	-



Q.Safe

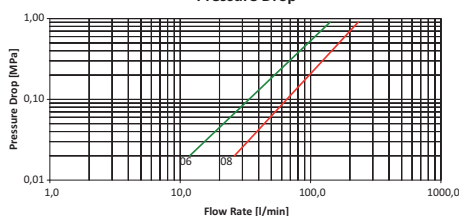
MQS-DHI

FLAT-FACE

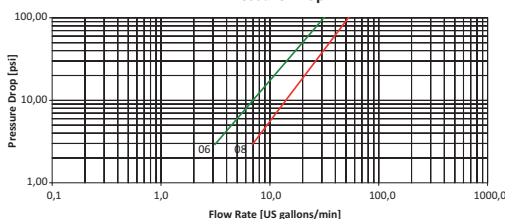
SIZE	WORKING PRESSURE (Dynamic)	RATED FLOW at 0,2MPa of pressure drop	OIL SPILLAGE Connection/ Disconnection	MINIMUM BURST PRESSURE (MPa)	CONNECTION / DISCONNECTION UNDER PRESSURE

mm	inch	dash	MPa	PSI	L/min.	US GPM	cc.	cubic inch	Male		Female		M+F		
									MPa	PSI	MPa	PSI	MPa	PSI	
10	3/8"	-06	25	3625	53	14,0	0,007	0,0004	135	19575	125	18125	150	21750	Not allowed
12,5	1/2"	-08	25	3625	98	25,9	0,008	0,0005	105	15225	110	15950	140	20300	Not allowed

Pressure Drop



Pressure Drop



Connection is made by pushing the male coupling and disconnection by pulling back the sleeve of the female ■ Flat mating surfaces easily wiped clean to prevent contamination and spillage during connection/disconnection ■ Stainless steel springs in the female coupling ■ Interchangeability according to ISO 16028 and HTMA standards

La conexión se realiza empujando el macho y la desconexión estirando del casquillo de la hembra ■ La cara plana facilita la limpieza para prevenir la contaminación y las fugas durante la conexión y desconexión ■ Muelles de acero inoxidable en la hembra ■ Intercambiabilidad según el estándar ISO 16028 y HTMA

Verbindung durch Drücken des Steckers, Trennen erfolgt durch zurückziehen der Schiebehülse an der Muffe ■ Flache Kontaktflächen können einfach gereinigt werden und verhindern das Eindringen von Kontamination wie auch Ölverlust beim Kuppeln ■ Edelstahlfeder in der Kupplungsmuffe ■ Austauschbarkeit nach ISO 16028 und HTMA Normen garantiert

Connessione eseguita spingendo l'innesto maschio e disconnessione arretrando la ghiera dell'innesto femmina ■ Superfici piane garantiscono una semplice pulizia prevenendo così contaminazioni e spillamento durante le fasi di connessione/disconnessione ■ Molle in acciaio inossidabile nell'innesto femmina ■ Intercambiabilità secondo la norma ISO 16028 and HTMA

TECHNICAL INFO

GB

MATERIAL:

Female and male coupling in steel, with some stressed tempered or carbonitrited areas. Springs in AISI and C98 steel, seals in polyurethane and NBR. Other materials (VITON, EPDM or any others) on request

WORKING TEMPERATURE:

-22°F up to +230°F -30°C up to +110°C
(for other temperatures the coupling is assembled with the specified seals)

SAFETY FACTOR:

1:4 for dynamic pressures and 1:2 for static ones

IMPULSE PRESSURES:

100.000 cycles at 133% of the rated one (freq. 1Hz) in disconnected conditions, 1.000.000 cycles at 133% of rated one (freq. 1Hz) in connected conditions

TEST SPECIFICATIONS:

ISO 16028: 1997 amd.1.2006 (E) and ISO 7241-2

ES

MATERIAL:

El Acoplamiento hembra y macho en acero, con algunas zonas endurecidas o carbonitradas. Muelles en AISI y acero C98, juntas de poliuretano y NBR. Otros materiales (VITON, EPDM u otros) bajo pedido

TEMPERATURA DE TRABAJO:

-22°F hasta +230°F -30°C hasta +110°C
(para otras temperaturas, el acoplamiento puede ser montado con juntas específicas)

FACTOR DE SEGURIDAD:

1:4 para presiones dinámicas y 1:2 para presiones estáticas

PRESIONES DE IMPULSO:

100.000 ciclos a 133% de la nominal (frec. 1Hz) en condiciones de desconectado, 1.000.000 ciclos a 133% de la nominal (frec. 1Hz) en condiciones de conotado

CARACTERÍSTICAS DE LA PRUEBA:

ISO 16028: 1997 amd.1.2006 (E) y ISO 7241-2

D

MATERIAL:

Kupplungstecker und -muffe aus Stahl mit einigen gehärteten oder carbonitrierten Bereichen. Federn aus AISI- C98-Stahl, Dichtungen aus Polyurethan und NBR. Andere Materialien (VITON, EPDM oder andere) auf Anfrage

BETRIEBSTEMPERATUR:

-22°F bis +230°F -30°C bis +110°C
(für andere Temperaturen werden die Schnell-Kupplungen mit spezifischen Dichtungen ausgestattet)

SICHERHEITSFAKTOR:

1:4 für dynamischen und 1:2 für statischen Druck

DRUCKIMPULSE:

100.000 Zyklen bei 133% des angegebenen Druckes (Frequenz 1Hz) ungekuppelt, 1.000.000 Zyklen bei 133% des angegebenen Druckes (Frequenz 1Hz) im gekuppelten Zustand

PÜFUNGSBEDINGUNGEN:

ISO 16028: 1997 amd.1.2006 (E) und ISO 7241-2

IT

MATERIALI:

Innesti femmina e maschio in acciaio. Valvole carbonitrate. Molle in acciaio C98. Guarnizioni in NBR (altri materiali su richiesta) ed anelli anti-estrusione in PTFE

TEMPERATURE DI ESERCIZIO:

-30°C a 110°C (per temperature diverse, l'innesto rapido viene fornito con guarnizioni appropriate)

FATTORE DI SICUREZZA:

1:4 per pressioni dinamiche e 1:2 per pressioni statiche

RESISTENZA A PRESSIONI PULSANTI:

100.000 cicli a 1Hz al 133% della pressione d'esercizio in condizioni di innesti disconnessi, 1.000.000 cicli a 1Hz al 133% della pressione d'esercizio in condizioni di innesti connessi

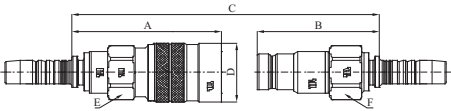
TEST:

ISO 16028: 1997 amd.1.2006 (E) e ISO 7241-2

FLAT-FACE - TERMINATION ENDS

Q34111MF1A - Q33911MF1A

FEMALE AND MALE FLAT FACE COUPLING - MULTIFIT INSERT
ESPIGA HEMBRA Y MACHO FLAT FACE - MULTIFIT
MULTIFIT-NIPPEL
INNESTO FEMMINA E MASCHIO FACCIA PIANA - INSERTO MULTIFIT



SIZE			PART NUMBER		THREADS	DIMENSIONS mm					
mm	inch	dash	Female Coupling	Male Coupling		A	B	C	D	E	F
10	3/8"	-06	Q34111MF1A-06-06	Q33911MF1A-06-06	3/8" MF2000	69,7	58,3	A+B-15,9	ø32	27	27
			Q34111MF1A-06-08	Q33911MF1A-06-08	1/2" MF2000	69,6	56,7	A+B-15,9	ø32	27	27
12,5	1/2"	-08	Q34111MF1A-08-08	Q33911MF1A-08-08	1/2" MF2000	78,9	66,7	A+B-17,1	ø38	34	34
			Q34111MF1A-08-12	Q33911MF1A-08-12	3/4" MF2000	75,8	65,1	A+B-17,1	ø38	34	34

QUICK COUPLINGS

Q.Safe Accessories



Fluid connectors, solid solutions

manuli[®]
HYDRAULICS

INTRODUCTION

GB

ACCESSORIES:

Protective dust plugs and caps play a crucial role in the use of quick couplings.

They keep the mating surface clean and free of contamination and protect the critical mating elements of the coupling halves when they are disconnected.

The purchase of a quick coupling is not complete without the selection of an appropriate dust plug or cap.

Manuli offer a complete range of plugs and caps.

SPARE PARTS:

When seals are damaged due to wear, dirt or foreign material, it is necessary to replace them.

Replacement seals is a very easy operation which does not require special tools.

Original Manuli Q.Safe must be used.

ES

ACCESORIOS:

Los tapones de protección desempeñan en el empleo del enchufe rápido.

Mantienen las superficies limpias y libres de contaminación y sobre todo protegen las partes críticas del enchufe rápido cuando está desconectado.

La adquisición de un enchufe rápido no es completo sin la correcta y apropiada selección del tapón de protección.

Manuli ofrece una gama completa de tapones.

KIT DE RICAMBIO:

Cuando las juntas están dañadas por causa del uso sucias o en contactos con cuerpos extraños es necesario cambiarlas.

Sustituir las juntas es una operación muy simple que no necesita utensilios especiales.

Utilizar exclusivamente el recambio original Manuli Q.Safe.

D

ZUBEHÖR:

Schutzkappen und -stopfen spielen eine entscheidende Rolle bei der Benutzung von Schnellverschlusskupplungen. Sie halten die Verbindungsflächen sauber und kontaminationsfrei. Gleichzeitig schützen sie empfindliche Teile der Kupplungshälften während sie unbenutzt sind.

Der Kauf einer Schnellverschlusskupplung sollte immer mit der Auswahl und Erwerb der passenden Kappen und Stopfen verbunden sein. Manuli bietet eine große Palette verfügbarer Kappen und Stopfen an.

ERSATZTEILE:

Sollte eine Dichtung aufgrund von Verschleiß, Schmutz oder Fremtteilen beschädigt worden sein, ist es zwingend diese zu tauschen. Der Austausch einer Dichtung ist recht einfach und kann ohne Werkzeugeinsatz erfolgen. Es sollten immer original Manuli Q.Safe Ersatzteile benutzt werden.

IT

ACCESSORI:

I tappi di protezione giocano un ruolo cruciale nell'utilizzo degli innesti rapidi.

Mantengono le superfici pulite e libere dalla contaminazione e soprattutto proteggono le parti critiche dell'innesto rapido quando è disconnesso.

L'acquisto di un innesto rapido non è completo senza la corretta ed appropriata selezione del tappo di protezione.

Manuli offre un range completo di tappi.

KIT DI RICAMBIO:

Quando le guarnizioni sono danneggiate a causa di usura, sporco o contatto con corpi estranei è necessario sostituirle.

Sostituire le guarnizioni è un'operazione molto semplice che non richiede utensili speciali.

Utilizzare esclusivamente ricambio originali Manuli Q.Safe.

QUICK COUPLINGS ACCESSORIES AND SPARE PARTS	SERIES	ITEM	SPECIFICATIONS	SHUT-OFF SYSTEM	CONNECTION	WORKING PRESSURE	
						MPa	PSI
	PLUG & CAPS	ALL RANGE	-	-	-	-	-
	PARKING	Q1A0114N - Q1A0104N	-	-	-	-	-
	SPARE PARTS	ALL RANGE	-	-	-	-	-

Q1A0B00 - Q1A1B00

PLUGS AND CAPS FOR MQS-A (ISO A)
AND MQS-AP (ISO A UNDER PRESSURE) SERIES
TAPONES PARA MQS-A (ISO A) Y MQS-AP (ISO A BAJO PRESIÓN)
STOPFEN UND KAPPE FÜR MQS-A (ISO A)
UND MQS-AP (ISO A UNTER DRUCK) SERIEN
TAPPI DI PROTEZIONE PER INNESTI RAPIDI SERIE MQS-A (ISO A)
E MQS-AP (ISO A INN. IN PRESSIONE)



SIZE			PART NUMBER		MATERIAL	COLOUR
mm	inch	dash	Plug for Female Coupling	Cap for Male Coupling		
6,3	1/4"	-04	Q1A1B00R-04	Q1A0B00R-04	PVC	RED
10	3/8"	-06	Q1A1B00R-06	Q1A0B00R-06	PVC	RED
			Q1A1B00Y-06	Q1A0B00Y-06	PVC	YELLOW
12,5	1/2"	-08	Q1A1B00R-08	Q1A0B00R-08	PVC	RED
			Q1A1B00B-08	Q1A0B00B-08	PVC	BLUE
			Q1A1B00G-08	Q1A0B00G-08	PVC	GREEN
			Q1A1B00Y-08	Q1A0B00Y-08	PVC	YELLOW
			Q1A1B00K-08	Q1A0B00K-08	PVC	BLACK
			Q1A1B00H-08	Q1A0B00H-08	PVC	WHITE
20	3/4"	-12	Q1A1B00R-12	Q1A0B00R-12	PVC	RED
25	1"	-16	Q1A1B00R-16	Q1A0B00R-16	PVC	RED
			Q1A1B00Y-16	Q1A0B00Y-16	PVC	YELLOW

Q1A0114

PARKING FOR MQS-A MALE, BULKHEAD MOUNTING
TRINCADO PARA MQS-A MACHO, MONTAJE DE PASATABIQUE
ABLAG FÜR MQS-A V-KUPPLUNG, SCHOTTWANDMONTAGE
SUPPORTO PER INNESTI MASCHI SERIE MQS-A, MONTAGGIO A PARETE



SIZE			PART NUMBER	MATERIAL	COLOUR
mm	inch	dash	Parking		
12,5	1/2"	-08	Q1A0114N-08	STEEL	-



Q1A5B00 - Q1A4B00

PLUGS AND CAPS FOR MQS-N (STANDARD SERIES)
TAPONES PARA MQS-N (SERIE ESTÁNDAR)
STOPFEN UND DECKEL FÜR MQS-N (STANDARDSERIE)
TAPPI DI PROTEZIONE PER INNESTI RAPIDI SERIE MQS-N (SERIE STANDARD)

SIZE			PART NUMBER		MATERIAL	COLOUR
mm	inch	dash	Plug for Female Coupling	Cap for Male Coupling		
6,3	1/4"	-04	Q1A5B00R-04	Q1A4B00R-04	PVC	RED
10	3/8"	-06	Q1A5B00R-06	Q1A4B00R-06	PVC	RED
12,5	1/2"	-08	SEE PLUGS AND CAPS FOR ISO SERIES A VEA TAPONES PARA LA SERIE ISO A			
20	3/4"	-12	Q1A5B00R-12	Q1A4B00R-12	PVC	RED
25	1"	-16	Q1A5B00R-16	Q1A4B00R-16	PVC	RED



Q1A0104

PARKING FOR MQS-A MALE
TRINCADO PARA MQS-A MACHO
ABLAG FÜR MQS-A V-KUPPLUNG
SUPPORTO PER INNESTI MASCHI SERIE MQS-A

SIZE			PART NUMBER	MATERIAL	COLOUR
mm	inch	dash	Parking		
12,5	1/2"	-08	Q1A0104N-08	STEEL	-

Q1A1B00

PLUGS FOR MQS-AF (PUSH-PULL) AND MQS-AFP
(PUSH-PULL UNDER PRESSURE)

TAPONES PARA MQS-AF (PUSH-PULL) Y MQS-AFP (PUSH-PULL BAJO PRESIÓN)

STOPFEN FÜR MQS-AF (SCHNELLWECHSLER) UND

MQS-AFP (SCHNELLWECHSLER UNTER DRUCK)

TAPPI DI PROTEZIONE PER INNESTI RAPIDI SERIE MQS-AF

(PUSH-PULL) E MQS-AFP (PUSH-PULL INNESTABILE IN PRESSIONE)



SIZE			PART NUMBER	MATERIAL	COLOUR
mm	inch	dash	Plug for Female Coupling		
10	3/8"	-10	Q1A1B00R-06	PVC	RED
			Q1A1B00Y-06	PVC	YELLOW
12,5	1/2"	-08	Q1A1B00R-08	PVC	RED
			Q1A1B00B-08	PVC	BLUE
			Q1A1B00G-08	PVC	GREEN
			Q1A1B00Y-08	PVC	YELLOW
			Q1A1B00K-08	PVC	BLACK
			Q1A1B00H-08	PVC	WHITE

Q1A9B00 - Q1A8B00

CAPS FOR MQS-F (FLAT-FACE)

TAPONES PARA MQS-F (CARA PLANA)

KAPPE FÜR MQS-F (FLACHDICHTEND)

TAPPI DI PROTEZIONE PER INNESTI RAPIDI SERIE MQS-F (FLAT-FACE)



SIZE			PART NUMBER	MATERIAL	COLOUR
mm	inch	dash	Cap for Female Coupling	Cap for Male Coupling	
6,3	1/4"	-04	Q1A9B00R-04	Q1A8B00R-04	PVC
10	3/8"	-06	Q1A9B00R-06	Q1A8B00R-06	PVC
12,5	1/2"	-08	Q1A9B00R-08	Q1A8B00R-08	PVC
20	3/4"	-12	Q1A9B00R-12	Q1A8B00R-12	PVC
25	1"	-16	Q1A9B00R-16	Q1A8B00R-16	PVC



Q1AJA00 - Q1AIA00

CAPS AND PLUGS FOR MQS-SGR (SCREW-TYPE)

TAPONES PARA MQS-SGR (TIPO ROSCADO)

KAPPE UND STOPFEN FÜR MQS-SGR (SCHRAUBKUPPLUNG)

TAPPI DI PROTEZIONE PER INNESTI RAPIDI SERIE MQS-SGR (VITE TEDESCO)

SIZE			PART NUMBER	MATERIAL	COLOUR
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mm	inch	dash	Cap for Female Coupling	Plug for Male Coupling		
6,3	1/4"	-04	Q1AJA00R-04	Q1AIA00R-04	PE-HD	RED
10	3/8"	-06	Q1AJA00R-06	Q1AIA00R-06	PE-HD	RED
12,5	1/2"	-08	Q1AJA00R-08	Q1AIA00R-08	PE-HD	RED
20	3/4"	-12	Q1AJA00R-12	Q1AIA00R-12	PE-HD	RED
25	1"	-16	Q1AJA00R-16	Q1AIA00R-16	PE-HD	RED



Q1AN100 - Q1AM100

PLUGS AND CAPS FOR MQS-SC (SCREW-TYPE HYDRAULIC CYLINDERS)

TAPONES PARA MQS-SC (TIPO ROSCADO PARA CILINDROS HIDRÁULICOS)

STOPFEN UND KAPPE FÜR MQS-SC

(SCHRAUBKUPPLUNG FÜR HYDRAULIKZYLINDER)

TAPPI DI PROTEZIONE PER INNESTI RAPIDI SERIE MQS-SC

(VITE CILINDRI IDRAULICI)

SIZE			PART NUMBER	MATERIAL	COLOUR
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mm	inch	dash	Plug for Female Coupling	Cap for Male Coupling		
6,3	1/4"	-04	Q1AN100N-04	Q1AM100N-04	STEEL + PE-HD	-
10	3/8"	-06	Q1AN100N-06	Q1AM100N-06	STEEL + PE-HD	-

Q1AP100 - Q1AQ100

CAPS AND PLUGS FOR MQS-ST (SCREW-TYPE TRUCKS)

TAPONES PARA MQS-ST (TIPO ROSCADO PARA CAMIONES)

KAPPE UND STOPFEN FÜR MQS-ST (SCHRAUBAUSFÜHRUNG FÜR LKWS)

TAPPI DI PROTEZIONE PER INNESTI RAPIDI SERIE MQS-ST (VITE TRUCKS)



SIZE			PART NUMBER	MATERIAL	
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mm	inch	dash	Cap for Female Coupling	Plug for Male Coupling		
20	3/4"	-12	Q1AQ100N-12	Q1AP100N-12	STEEL	-
25	1"	-16	Q1AQ100N-16	Q1AP100N-16	STEEL	-

Q1AL100 - Q1AK100

CAPS AND PLUGS FOR MQS-SH (SCREW FOR VERY HIGH PRESSURE)

TAPÓN PARA MQS-SH (TIPO ROSCADO PARA ALTA PRESIÓN)

KAPPE UND STOPFEN FÜR MQS-SH

(SCHRAUBAUSFÜHRUNG FÜR EXTREMHOCHDRUCK)

TAPPI DI PROTEZIONE PER INNESTI RAPIDI SERIE MQS-SH

(VITE PER ALTISIME PRESSIONI)



SIZE			PART NUMBER	MATERIAL	
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mm	inch	dash	Cap for Female Coupling	Cap for Male Coupling		
10	3/8"	-06	Q1AL100N-06	Q1AK100N-06	STEEL + PE-HD	-
12,5	1/2"	-08	Q1AL100N-08	Q1AK100N-08	STEEL + PE-HD	-
20	3/4"	-12	Q1AL100N-12	Q1AK100N-12	STEEL + PE-HD	-
25	1"	-16	Q1AL100N-16	Q1AK100N-16	STEEL + PE-HD	-

Q1ACB00

CAPS FOR MQS-D (DIAGNOSTIC)

TAPÓN PARA MQS-D

KAPPE FÜR MQS-D (DIAGNOSEANSCHLUSS)

TAPPO PER INNESTO RAPIDO SERIE MQS-D (DIAGNOSTICO)



SIZE			PART NUMBER	MATERIAL	COLOUR
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mm	inch	dash	Male Coupling		A
5	1/8"	-02	Q1ACB00K-02	PVC	BLACK



Q1A1013

O-RING AND BACK-UP RING FOR MQS-A (ISO A) AND MQS-AP (ISO A UNDER PRESSURE)
 JUNTA TÓRICA (O-RING) Y ANILLO DE SOPORTE PARA MQS-A (ISO A) Y MQS-AP (ISO A BAJO PRESIÓN)
 O-RING UND STÜTZRING FÜR MQS-A (ISO A)
 UND MQS-AP (ISO A UNTER DRUCK)
 O-RING E BACK-UP RING PER MQS-A (ISO A)
 E MQS-AP (ISO A INNESTABILE IN PRESSIONE)

SIZE			PART NUMBER	KIT	MATERIAL	
mm	inch	dash			O-RING	BACK-UP RING
6,3	1/4"	-04	Q1A1013N-04	O-RING + BACK-UP RING	NBR	PTFE
10	3/8"	-06	Q1A1013N-06	O-RING + BACK-UP RING	NBR	PTFE
12,5	1/2"	-08	Q1A1013N-08	O-RING + BACK-UP RING	NBR	PTFE
20	3/4"	-12	Q1A1013N-12	O-RING + BACK-UP RING	NBR	PTFE
25	1"	-16	Q1A1013N-16	O-RING + BACK-UP RING	NBR	PTFE
31,5	1-1/4"	-20	Q1A1013N-20	O-RING + BACK-UP RING	NBR	PTFE
40	1-1/2"	-24	Q1A1013N-24	O-RING + BACK-UP RING	NBR	PTFE



Q1A5013

O-RING AND BACK-UP RING FOR MQS-N (STANDARD SERIES)
 JUNTA TÓRICA (O-RING) Y ANILLO DE SOPORTE
 PARA MQS-N (SERIE STANDARD)
 O-RING UND STÜTZRING FÜR MQS-N (STANDARDSERIE)
 O-RING E BACK-UP RING PER MQS-N (SERIE STANDARD)

SIZE			PART NUMBER	KIT	MATERIAL	
mm	inch	dash			O-RING	BACK-UP RING
6,3	1/4"	-04	Q1A5013N-04	O-RING + BACK-UP RING	NBR	PTFE
10	3/8"	-06	Q1A5013N-06	O-RING + BACK-UP RING	NBR	PTFE
12,5	1/2"	-08	SEE SPARE PARTS FOR ISO SERIES A VEA REPUESTOS PARA LA SERIE ISO A			
20	3/4"	-12	Q1A5013N-12	O-RING + BACK-UP RING	NBR	PTFE
25	1"	-16	Q1A5013N-16	O-RING + BACK-UP RING	NBR	PTFE

Q1A1013

O-RING AND BACK-UP RING FOR MQS-AF (PUSH-PULL)
AND MQS-AFP (PUSH-PULL UNDER PRESSURE)
JUNTA TÓRICA (O-RING) Y ANILLO DE SOPORTE
PARA MQS-AF (PUSH-PULL) Y MQS-AFP (PUSH-PULL BAJO PRESIÓN)
O-RING UND STÜTZRING FÜR MQS-AF (SCHNELLWECHSLER)
UND MQS-AFP (SCHNELLWECHSLER UNTER DRUCK)
O-RING E BACK-UP RING PER MQS-AF (PUSH-PULL)
E MQS-AFP (PUSH-PULL INNESTABILE IN PRESSIONE)



SIZE			PART NUMBER	KIT	MATERIAL	
mm	inch	dash			O-RING	BACK-UP RING
10	3/8"	-06	Q1A1013N-06	O-RING + BACK-UP RING	NBR	PTFE
12,5	1/2"	-08	Q1A1013N-08	O-RING + BACK-UP RING	NBR	PTFE

Q1A3013

O-RING AND BACK-UP RING FOR MQS-B (ISO B)
JUNTA TÓRICA (O-RING) Y ANILLO DE SOPORTE PARA MQS-B (ISO B)
O-RING UND STÜTZRING FÜR MQS-B (ISO B)
O-RING E BACK-UP RING PER MQS-B (ISO B)



SIZE			PART NUMBER	KIT	MATERIAL	
mm	inch	dash			O-RING	BACK-UP RING
5	1/8"	-02	Q1A3013N-02	O-RING + BACK-UP RING	NBR	PTFE
6,3	1/4"	-04	Q1A3013N-04	O-RING + BACK-UP RING	NBR	PTFE
10	3/8"	-06	Q1A3013N-06	O-RING + BACK-UP RING	NBR	PTFE
12,5	1/2"	-08	Q1A3013N-08	O-RING + BACK-UP RING	NBR	PTFE
20	3/4"	-12	Q1A3013N-12	O-RING + BACK-UP RING	NBR	PTFE
25	1"	-16	Q1A3013N-16	O-RING + BACK-UP RING	NBR	PTFE



Q1A8093

SEAL FOR MQS-F (FLAT-FACE)
 JUNTA PARA MQS-F (CARA PLANA)
 DICHTUNG FÜR MQS-F (FLACHDICHTEND)
 GUARNIZIONE PER MQS-F (FLAT-FACE)

SIZE			PART NUMBER	DESCRIPTION	MATERIAL
mm	inch	dash			SEAL
6,3	1/4"	-04	Q1A8093N-04	SHAPED SEAL	POLYURETHANE
10	3/8"	-06	Q1A8093N-06	SHAPED SEAL	POLYURETHANE
12,5	1/2"	-08	Q1A8093N-08	SHAPED SEAL	POLYURETHANE
20	3/4"	-12	Q1A8093N-12	SHAPED SEAL	POLYURETHANE
25	1"	-16	Q1A8093N-16	SHAPED SEAL	POLYURETHANE



Q1AEA00

PLUG FOR MQS-VB (BRAKING VALVES)
 TAPÓN PARA MQS-VB (VÁLVULAS DE FRENADO)
 STOPFEN FÜR MQS-VB (BREMSVENTILE)
 PLUG PER MQS-VB (VALVOLE DI FRENAGGIO)

SIZE			PART NUMBER	DESCRIPTION	MATERIAL
mm	inch	dash			PLUG
12,5	1/2"	-08	Q1AEA00R-08	PLUG	PE-HD



Q1AF104

PARKING FOR MQS-VB (BRAKING VALVES)
 TRINCADO PARA MQS-VB (VÁLVULAS DE FRENADO)
 ABLAGE FÜR MQS-VB (BREMSVENTILE)
 PARKING FOR MQS-VB (BRAKING VALVES)

SIZE			PART NUMBER	DESCRIPTION	MATERIAL
mm	inch	dash			PARKING
12,5	1/2"	-08	Q1AF104N-08	PARKING	STEEL

Q1AGA00

PLUG FOR MQS-VS (AGRICULTURAL VALVES)
TAPÓN PARA MQS-VS (VÁLVULAS AGRÍCOLA)
STOPFEN FÜR MQS-VS (VENTILE FÜR AGRARMASCHINEN)
TAPPO PER MQS-VS (VALVOLA AGRICOLA)



SIZE			PART NUMBER	DESCRIPTION	MATERIAL
mm	inch	dash			PLUG
12,5	1/2"	-08	Q1AGA00R-08	PLUG	PE-HD

Q1AH104

PARKING FOR MQS-VS (AGRICULTURAL VALVES)
TRINCADO PARA MQS-VS (VÁLVULAS AGRÍCOLA)
ABLAGÉ FÜR MQS-VS (VENTILE FÜR AGRARMASCHINEN)
PARKING FOR MQS-VS (VALVOLA AGRICOLA)



SIZE			PART NUMBER	DESCRIPTION	MATERIAL
mm	inch	dash			PARKING
12,5	1/2"	-08	Q1AH104N-08	PARKING	STEEL

Q1AJ013

O-RING AND BACK-UP RING FOR MQS-SG AND MQS-SGR (SCREW-TYPE)
JUNTA TÓRICA (O-RING) Y ANILLO DE SOPORTE
PARA MQS-SG Y MQS-SGR (TIPO ROSCADO)
O-RING UND STÜTZRING FÜR MQS-SG UND MQS-SGR (SCHRAUBAUSFUHRUNG)
O-RING E BACK-UP RING PER MQS-SG E MQS-SGR (VITE TEDESCA)



SIZE			PART NUMBER	KIT	MATERIAL	
mm	inch	dash			O-RING	BACK-UP RING
6,3	1/4"	-04	Q1AJ013N-04	O-RING + BACK-UP RING	NBR	PTFE
10	3/8"	-06	Q1AJ013N-06	O-RING + BACK-UP RING	NBR	PTFE
12,5	1/2"	-08	Q1AJ013N-08	O-RING + BACK-UP RING	NBR	PTFE
20	3/4"	-12	Q1AJ013N-12	O-RING + BACK-UP RING	NBR	PTFE
25	1"	-16	Q1AJ013N-16	O-RING + BACK-UP RING	NBR	PTFE



Q1AK013

O-RING AND BACK-UP RING FOR MQS-SH
(SCREW-TYPE FOR VERY HIGH PRESSURE)

JUNTA TÓRICA (O-RING) Y ANILLO DE SOPORTE PARA MQS-SH

O-RING UND STÜTZRING FÜR MQS-SH

(SCHRAUBAUSFÜHRUNG FÜR EXTREMHOCHEDRUCK)

O-RING E BACK UP RING PER MQS-SH

SIZE			PART NUMBER	KIT	MATERIAL	
mm	inch	dash			O-RING	BACK-UP RING
10	3/8"	-06	Q1AK013N-06	O-RING + BACK-UP RING	NBR	PTFE
12,5	1/2"	-08	Q1AK013N-08	O-RING + BACK-UP RING	NBR	PTFE
20	3/4"	-12	Q1AK013N-12	O-RING + BACK-UP RING	NBR	PTFE
25	1"	-16	Q1AK013N-16	O-RING + BACK-UP RING	NBR	PTFE



Q1AN013

O-RING AND BACK-UP RING FOR MQS-SC
(SCREW TYPE HYDRAULIC CYLINDERS)

JUNTA TÓRICA (O-RING) Y ANILLO DE SOPORTE PARA
MQS-SC (TIPO ROSCADO PARA CILINDROS HIDRÁULICOS)

O-RING UND STÜTZRING FÜR MQS-SC

(SCHRAUBAUSFÜHRUNG FÜR HYDRAULIKZYLINDER)

O-RING E BACK-UP RING PER MQS-SC

(VITE CILINDRI IDRAULICI)

SIZE			PART NUMBER	KIT	MATERIAL	
mm	inch	dash			O-RING	BACK-UP RING
6,3	1/4"	-04	Q1AN013N-04	O-RING + BACK-UP RING	NBR	PTFE
10	3/8"	-06	Q1AN013N-06	O-RING + BACK-UP RING	NBR	PTFE



Q1AQ013

O-RING FOR MQS-ST (SCREW-TYPE TRUCKS)

JUNTA TÓRICA (O-RING) PARA MQS-ST

(TIPO ROSCADO PARA CAMIÓN)

O-RING FÜR MQS-ST (SCHRAUBAUSFÜHRUNG FÜR LKW)

O-RING PER MQS-ST (VITE TRUCKS)

SIZE			PART NUMBER	KIT	MATERIAL	
mm	inch	dash			O-RING	
20	3/4"	-12	Q1AQ013N-12	O-RING	NBR	
25	1"	-16	Q1AQ013N-16	O-RING	NBR	

