

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). Ergänzende 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.

REFERENCE	DESCRIPTION	PAGE
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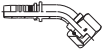

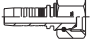






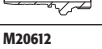
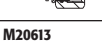
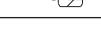
MF2000® MULTIFIT TYPE FERRULE













M0010/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	157
M00910/M00920 	SKIVE FERRULE FOR WIRE BRAID AND SPIRAL HOSES CASQUILLO CON PELADO PARA MANGUERAS CON TRENZA Y ESPIRAL DE ACERO SCHÄLFASSUNG FÜR STAHLGEFLECHT- UND SPIRALSCHLÄUCHE GHIERA PER TUBI TRECCIATI E SPIRALATI CON PELATURA	157
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	158
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	159
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	159

MF2000® MULTIFIT TYPE INSERT 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	160
M10510 	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 NACH BS5200 / ISO 8434-6) MASCHIO GAS CILINDRICO 60° - BS5200 / ISO 8434-6	161
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)	162
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)	162
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)	163
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)	163











VISUAL INDEX

REFERENCE	DESCRIPTION	PAGE
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)	164
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) DKR 45° BOGEN 60° KONUS - (BSP-GEWINDE NACH BS5200 / ISO 12151-6, HINTERLEGTE MUTTER) FEMMINA GAS 45° CONO 60° - BS5200 / ISO 12151-6 (DADO PASSANTE)	164
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)	165
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)	165
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)	166
M20893 	A90° 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)	166
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)	167
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)	167
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)	168
M10610 	BSP MALE FLAT SEAT MACHO BSP CARA PLANA AGR FLACH DICHTEND MASCIO GAS CILINDRICO SEDE PIANA	168
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)	169
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)	169










REFERENCE	DESCRIPTION	PAGE
SAE STANDARD CONNECTIONS		
JIC		
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	170
M22512 	JIC FEMALE 37° CONE SEAT - SAE J516 / ISO 12151-5 (THRUST-WIRE NUT) HEMBRA JIC ASIENTO A 37° - SAE J516 / ISO 12151-5 (TUERCA CON SEGURO) DKJ 37° DICHTKOPF (UNF-GEWINDE NACH SAE J516 / ISO 12151-5, GESTIFTETE MUTTER) FEMMINA JIC CONO 37° - SAE J516 / ISO 12151-5 (DADO SPINATO)	171
M22513 	JIC FEMALE 37° CONE SEAT - SAE J516 / ISO 12151-5 (SLIP-ON NUT) HEMBRA JIC ASIENTO A 37° - SAE J516 / ISO 12151-5 (TUERCA LIBRE) DKJ 37° DICHTKOPF (UNF-GEWINDE NACH SAE J516 / ISO 12151-5, HINTERLEGTE MUTTER) FEMMINA JIC CONO 37° - SAE J516 / ISO 12151-5 (DADO PASSANTE)	171
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, VORGEKRIMPT MUTTER) FEMMINA JIC CONO 37° DOPPIO ESAGONO SAE J516 / ISO 12151-5 (DADO PRESSATO)	172
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, VORGEKRIMPT MUTTER) FEMMINA JIC CONO 37° DOPPIO ESAGONO - SAE J516 / ISO 12151-5 (DADO PRESSATO COMPATTO)	172
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 KOMPACT 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)	173
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)	174
M22592 	90° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5 (THRUST-WIRE NUT) HEMBRA JIC CODO DE 90° ASIENTO A 37° - SAE J516 / ISO 12151-5 (TUERCA CON SEGURO) DKJ 90° BOGEN 37° DICHTKOPF (UNF-GEWINDE NACH SAE J516 / ISO 12151-5, GESTIFTETE MUTTER) FEMMINA JIC 90° CONO 37° SAE J516 / ISO 12151-5 (DADO SPINATO)	175
M22593 	90° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5 (SLIP-ON NUT) HEMBRA JIC CODO DE 90° ASIENTO A 37° - SAE J516 / ISO 12151-5 (TUERCA LIBRE) DKJ 90° BOGEN 37° DICHTKOPF (UNF-GEWINDE NACH SAE J516 / ISO 12151-5, HINTERLEGTE MUTTER) FEMMINA JIC 90° CONO 37° SAE J516 / ISO 12151-5 (DADO PASSANTE)	175
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)	176
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)	176
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)	177

VISUAL INDEX

REFERENCE	DESCRIPTION	PAGE
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)	177
		
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)	178
		
ORFS		
M12410	ORFS MALE - SAE J516 / ISO 12151-1 MACHO ORFS - SAE J516 / ISO 12151-1 ORFS AUSSENGEWINDE NACH SAE J516 / ISO 12151-1 MASCIO ORFS - SAE J516 / ISO 12151-1	178
		
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)	179
		
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)	180
		
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)	181
		
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)	181
		
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)	182
		
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)	183
		
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)	183
		

REFERENCE	DESCRIPTION	PAGE
SAE		
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	184
		
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	185
		
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	186
		
M22612	SAE FEMALE 45° CONE SEAT - SAE J516/J512 (THRUST-WIRE NUT) HEMBRA SAE ASIEN TO A 45° - SAE J516/J512 (TUERCA CON SEGURO) DKJ DICHTKOPF GERADE 45° KONUS (UNF-GEWINDE NACH J516/J512, GESTIFTETE MUTTER) FEMMINA SAE CONO 45° - SAE J516/J512 (DADO SPINATO)	186
		
M22692	90° SAE FEMALE SWEPT ELBOW 45° CONE SEAT - SAE J516/J512 (THRUST-WIRE NUT) HEMBRA SAE CODO DE 90° ASIEN TO 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)	186
		
NPTF-NPSM		
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	187
		
M14110R	NPTF SWIVEL MALE 60° CONE SEAT - SAE J516/J514 MACHO NPTF GIRATORIO ROSCA ASIEN TO A 60° - SAE J516/J514 AGN 60° INNENKONUS (NPTF-GEWINDE) - SAE J516/J514 MASCHIO NPTF CONO 60° GIREVOLE - SAE J516/J514	188
		
M22812	NPSM FEMALE 60° CONE - SAE J516/J514 (THRUST-WIRE NUT) HEMBRA NPSM ASIEN TO 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)	188
		
SAE FLANGE CODE 61/CODE 62		
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	189
		
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	190
		

VISUAL INDEX

REFERENCE	DESCRIPTION	PAGE
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	191
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	192
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	193
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	194
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	195
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	196
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	196
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	197
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	197
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	198
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	199
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	200



REFERENCE	DESCRIPTION	PAGE
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DIN STANDARD CONNECTIONS

DIN STANDPIPE

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	201
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	202
M22090 	90° METRIC STANDPIPE LIGHT DUTY - DIN 2353 / ISO 8434-1 ESPIGA LISA METRICA SERIE LIGERA CODO DE 90° - DIN 2353 / ISO 8434-1 BEL 90° BOGEN - DIN 2353 / ISO 8434-1 ESTREMITÀ TUBOLARE 90° SERIE LEGGERA - DIN 2353 / ISO 8434-1	203
M22190 	90° METRIC STANDPIPE HEAVY DUTY - DIN 2353 / ISO 8434-1 ESPIGA LISA METRICA SERIE PESADA CODO DE 90° - DIN 2353 / ISO 8434-1 BES 90° BOGEN - DIN 2353 / ISO 8434-1 ESTREMITÀ TUBOLARE 90° SERIE PESANTE - DIN 2353 / ISO 8434-1	203
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	204
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	204











DIN METRIC 60° CONE











M21013 	METRIC FEMALE 60° CONE - DIN 20078/3863 HEMBRA METRICA ASIENITO A 60° - DIN 20078/3863 DKM 60° KONUS - DIN 20078/3863 FEMMINA METRICA CONO 60° - DIN 20078/3863	205
M21093 	90° METRIC FEMALE SWEPT ELBOW 60° CONE - DIN 20078/3863 HEMBRA METRICA CODO DE 90° ASIENITO A 60° - DIN 20078/3863 DKM 90° BOGEN 60° KONUS - DIN 20078/3863 FEMMINA METRICA 90° CONO 60° - DIN 20078/3863	205

DIN METRIC MULTISEAL



M21312 	METRIC FEMALE MULTISEAL - DIN 20078/3868 (THRUST-WIRE NUT) HEMBRA METRICA ASIENITO UNIVERSAL - DIN 20078/3868 (TUERCA CON SEGURO) DKL UNIVERSALKONUS - DIN 20078/3868 (GESTIFTETE MUTTER) FEMMINA METRICA CONO UNIVERSALE - DIN 20078/3868 (DADO SPINATO)	206
M21313 	METRIC FEMALE MULTISEAL - DIN 20078/3868 (SLIP-ON NUT) HEMBRA METRICA ASIENITO UNIVERSAL - DIN 20078/3868 (TUERCA LIBRE) DKL UNIVERSALKONUS - DIN 20078/3868 (HINTERLEGTE MUTTER) FEMMINA METRICA CONO UNIVERSALE - DIN 20078/3868 (DADO PASSANTE)	206

VISUAL INDEX

REFERENCE	DESCRIPTION	PAGE
M21392 	90° METRIC FEMALE SWEPT ELBOW MULTISEAL DIN 20078/3868 (THRUST-WIRE NUT) HEMBRA METRICA CODO DE 90° ASIEN TO 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)	207
M21393 	90° METRIC FEMALE SWEPT ELBOW MULTISEAL DIN 20078/3868 (SLIP-ON NUT) HEMBRA METRICA CODO DE 90° ASIEN TO 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)	207
M21342 	45° METRIC FEMALE SWEPT ELBOW MULTISEAL DIN 20078/3868 (THRUST-WIRE NUT) HEMBRA METRICA CODO DE 45° ASIEN TO 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 PASSANTE)	208
M21343 	45° METRIC FEMALE SWEPT ELBOW MULTISEAL DIN 20078/3868 (SLIP-ON NUT) HEMBRA METRICA CODO DE 45° ASIEN TO 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)	208
DIN METRIC 24° CONE LIGHT TYPE		
M11110 	METRIC MALE 24° CONE SEAT LIGHT DUTY - DIN 20066 / ISO 12151-2 MACHO METRICO ASIEN TO A 24° SERIE LIGERA DIN 20066 / ISO 12151-2 CEL - DIN 20066 / ISO 12151-2 MASCIO METRICO 24° SERIE LEGGERA - DIN 20066 / ISO 12151-2	209
M21512 	METRIC O-RING FEMALE 24° CONE LIGHT DUTY - DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT) HEMBRA METRICA CON O-RING ASIEN TO 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)	210
M21513 	METRIC O-RING FEMALE 24° CONE LIGHT DUTY - DIN 20066 / ISO 12151-2 (SLIP-ON NUT) HEMBRA METRICA CON O-RING ASIEN TO 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)	210
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° ASIEN TO 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)	211
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° ASIEN TO 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)	211
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° ASIEN TO 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)	212
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° ASIEN TO 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)	212

REFERENCE	DESCRIPTION	PAGE
DIN METRIC 24° CONE HEAVY TYPE		
M11210 	METRIC MALE 24° CONE SEAT HEAVY DUTY - DIN 20066 / ISO 12151-2 MACHO METRICO ASIEN TO 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	213
M21612 	METRIC O-RING FEMALE 24° CONE HEAVY DUTY DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT) HEMBRA METRICA CON O-RING ASIEN TO 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)	214
M21613 	METRIC O-RING FEMALE 24° CONE HEAVY DUTY - DIN 20066 / ISO 12151-2 (SLIP-ON NUT) HEMBRA METRICA CON O-RING ASIEN TO 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)	214
M21692 	90° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT) HEMBRA METRICA CON O-RING CODO DE 90° ASIEN TO 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)	215
M21693 	90° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY DIN 20066 / ISO 12151-2 (SLIP-ON NUT) HEMBRA METRICA CON O-RING CODO DE 90° ASIEN TO 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)	215
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)	216
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° ASIEN TO 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)	216
NF STANDARD CONNECTIONS		
FRENCH MILLIMETRIC TYPE		
M11710 	FRENCH METRIC MALE 24° CONE SEAT MILLIMETRIC TYPE MACHO METRICO FRANCES ASIEN TO A 24° TIPO MILIMETRICO AGFM 24° INNENKONUS (FR. REIHE MILL.) MASCHIO METRICO 24° SERIE MILLIMETRICA FRANCESE	217
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)	217
FRENCH GAZ TYPE		
M11810 	FRENCH METRIC MALE 24° CONE SEAT GAZ TYPE MACHO METRICO FRANCES ASIEN TO A 24° TIPO GAZ AGF 24° INNENKONUS (FR. REIHE GAS) MASCHIO METRICO 24° SERIE GAZ FRANCESE	217

VISUAL INDEX


REFERENCE	DESCRIPTION	PAGE
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)	218
		
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)	218
		




JIS STANDARD CONNECTIONS

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)	219
		
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)	219
		
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)	220
		
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)	220
		
M20712	JIS BSP FEMALE 60° CONE (NISSAN) - JIS B 8363 (THRUST-WIRE NUT) HEMBRA JIS BSP ASIENTO A 60° (NISSAN) - JIS B 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)	220
		

ORIGINAL EQUIPMENT CONNECTIONS

KOMATSU, POCLAIN, SUPERCAT FLANGES





M24111	STRAIGHT KOMATSU FLANGE BRIDA RECTA KOMATSU FLANSCH GERADE KOMATSU FLANGIA DITTA SERIE KOMATSU	221
		
M24191	90° KOMATSU FLANGE BRIDA KOMATSU CODO DE 90° FLANSCH 90° BOGEN KOMATSU FLANGIA 90° SERIE KOMATSU	221
		
M24141	45° KOMATSU FLANGE BRIDA KOMATSU CODO DE 45° FLANSCH 45° BOGEN KOMATSU FLANGIA 45° SERIE KOMATSU	221
		

REFERENCE	DESCRIPTION	PAGE
M23911	 <p>STRAIGHT SUPERCAT FLANGE BRIDA RECTA SUPERCAT FLANSCH GERADE SUPERCAT FLANGIA DRITTA SERIE SUPERCAT</p>	222
M23991	 <p>90° SUPERCAT FLANGE BRIDA SUPERCAT CODO DE 90° FLANSCH 90° BOGEN SUPERCAT FLANGIA 90° SERIE SUPERCAT</p>	222
M23941	 <p>45° SUPERCAT FLANGE BRIDA SUPERCAT CODO DE 45° FLANSCH 45° BOGEN SUPERCAT FLANGIA 45° SERIE SUPERCAT</p>	222

BANJO CONNECTIONS

O20310	 <p>BSP BANJO BSP BANJO RINGNIPPEL, ZÖLLIG (BSP GEWINDE) OCCHIELLO GAS</p>	223
O20910	 <p>METRIC BANJO - DIN 7642 BANJO METRICO - DIN 7642 RINGNIPPEL, METRISCH - DIN 7642 OCCHIELLO METRICO - DIN 7642</p>	223

ACCESSORIES

M..IP	 <p>BRAZING TAIL ESPIGA SOLDABLE (SALVAVIDAS) EINLÖTNIPPEL INSERTO A SILDARE</p>	224
M10050	 <p>DOUBLE CONNECTOR CONECTOR DOBLE SCHLAUCHVERBINDER - DOPPELNIPPEL DOPPIO INSERTO</p>	225
O80210	 <p>BSP BOLT TORNILLO PASADOR BSP HOHLSCHRAUBE ZÖLLIG VITE GAS FORATA</p>	226
O80810	 <p>METRIC BOLT - DIN 7643 TORNILLO PASADOR METRICO - DIN 7643 HOHLSCHRAUBE - METRISCH - DIN 7643 VITE METRICA FORATA - DIN 7643</p>	226




VISUAL INDEX

REFERENCE	DESCRIPTION	PAGE
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MF2000® INTERLOCK PLUS TYPE FERRULE


M01500 	DOUBLE SKIVE FERRULE FOR HEAVY DUTY SPIRAL HOSES (4 PLY) CASQUILLOS DE PELADO INTERNO Y EXTERNO PARA MANGUERAS CON REFUERZO EN ESPIRAL (4 ESPIRALES) PRESSFASSUNG INNEN- UND AUSSENSCHÄLUNG FÜR HÖCHSTDRUCKSCHLÄUCHE (4 PLY) GHIERA PER TUBI SPIRALATI CON DOPPIA PELATURA (4 SPIRALI)	227
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 PLY) GHIERA PER TUBI SPIRALATI CON DOPPIA PELATURA (6 SPIRALI)	227
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 PLY) GHIERA A PELATURA INTERNA/ESTERNA PER TUBI SPIRALATI (6 SPIRALI) PER APPLICAZIONI ESTREMAMENTE SEVERE	227

MF2000® INTERLOCK PLUS TYPE INSERT 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 MASCIO GAS CILINDRICO CONO 60° - BS5200 / ISO 8434-6	228
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)	228
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)	229
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)	229

SAE STANDARD CONNECTIONS

NPTF/JIC

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 MASCIO NPTF CONO 60° - SAE J516/J514	230
M42512 	JIC FEMALE 37° CONE SEAT - SAE J516 / ISO 12151-5 (THRUST-WIRE NUT) HEMBRA JIC ASIENTO A 37° - SAE J516 / ISO 12151-5 (TUERCA CON SEGURO) JDKJ 37° KONUS - SAE J516 / ISO 12151-5 (KONTERSECHSKANT UND STIFTMUTTER) FEMMINA JIC CONO 37° - SAE J516 / ISO 12151-5 (DADO SPINATO)	230
M42592 	90° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5 (THRUST-WIRE NUT) HEMBRA JIC CODO DE 90° ASIENTO A 37° - SAE J516 / ISO 12151-5 (TUERCA CON SEGURO) JDKJ 90° BOGEN, 37° KONUS - SAE J516 / ISO 12151-5 (STIFTMUTTER) FEMMINA JIC 90° CONO 37° - SAE J516 / ISO 12151-5 (DADO SPINATO)	231

REFERENCE	DESCRIPTION	PAGE
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)	231
ORFS		
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)	232
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)	232
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)	233
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 (GESHTETE MUTTER) FEMMINA ORFS 90° - SAE J516 / ISO 12151-1 SERIE PESANTE (DADO SPINATO)	233
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)	234
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 (GESHTETE MUTTER) - SAE J516 / ISO 12151-1 FEMMINA ORFS 45° - SAE J516 / ISO 12151-1 SERIE PESANTE (DADO SPINATO)	234
SAE FLANGE CODE 61/CODE 62		
M43310	ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3 BRIDA ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3 SAE FLANSCH GERADE 3000 PSI (NACH SAE J516/J518) FLANGIA ISO/SAE CODE 61 - SAE J516 / ISO 12151-3	235
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	235
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	236

VISUAL INDEX

REFERENCE	DESCRIPTION	PAGE
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	236
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	237
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	237
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	238
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	238

ORIGINAL EQUIPEMENT CONNECTIONS

M43710	FLANGE PLUS (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE) BRIDA PLUS (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2) GERADER FLANSCH SCHWERE REIHE (SAE J518 CODE 62 - ISO 6162-2 KOMPATIBLER ANSCHLUSS) FLANGIA PLUS (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)	239
M43740	45° FLANGE PLUS (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE) BRIDA PLUS CODO 45° (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2) 45°-BOGEN FLANSCH SCHWERE REIHE (SAE J518 CODE 62 - ISO 6162-2 KOMPATIBLER ANSCHLUSS) FLANGIA PLUS 45° (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)	239
M43790	90° FLANGE PLUS (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE) BRIDA PLUS CODO 90° (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2) 90°-BOGEN FLANSCH SCHWERE REIHE (SAE J518 CODE 62 - ISO 6162-2 KOMPATIBLER ANSCHLUSS) FLANGIA PLUS 90° (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)	239
M43910	STRAIGHT SUPERCAT SERIES FLANGE BRIDA RECTA SUPERCAT FLANSCH GERADE SUPERCAT FLANGIA DRITTA SERIE SUPERCAT	240
M43920	22,5° SUPERCAT SERIES FLANGE CODO 22,5° BRIDA SERIE SUPERCAT 22,5° FLANSCH SERIE SUPERCAT FLANGIA 22,5° SERIE SUPERCAT	240
M43930	30° SUPERCAT SERIES FLANGE CODO 30° BRIDA SERIE SUPERCAT 30° FLANSCH SERIE SUPERCAT FLANGIA 30° SERIE SUPERCAT	241

REFERENCE	DESCRIPTION	PAGE
M43940	45° SUPERCAT SERIES FLANGE BRIDA SUPERCAT CODO DE 45° FLANSCH 45° BOGEN SUPERCAT FLANGIA 45° SERIE SUPERCAT	241
M43960	60° SUPERCAT SERIES FLANGE CODO 60° BRIDA SERIE SUPERCAT 60° FLANSCH SERIE SUPERCAT FLANGIA 60° SERIE SUPERCAT	242
M43970	67,5° SUPERCAT SERIES FLANGE CODO 67,5° BRIDA SERIE SUPERCAT 67,5° FLANSCH SERIE SUPERCAT FLANGIA 67,5° SERIE SUPERCAT	242
M43990	90° SUPERCAT SERIES FLANGE BRIDA SUPERCAT CODO DE 90° FLANSCH 90° BOGEN SUPERCAT FLANGIA 90° SERIE SUPERCAT	243
M43990 LONG DROP	90° LONG DROP SUPERCAT SERIES FLANGE CODO 90° LARGO BRIDA SERIE SUPERCAT 90° LONG DROP FLANSCH SERIE SUPERCAT FLANGIA 90° SERIE SUPERCAT CURVA LUNGA	243

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)	244
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)	244
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)	244

DIN STANDARD CONNECTIONS




DIN METRIC 24° CONE HEAVY TYPE

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	245
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)	245

VISUAL INDEX

REFERENCE	DESCRIPTION	PAGE
M41613	METRIC O-RING FEMALE 24° CONE HEAVY DUTY - DIN 20066 / ISO 12151-2 (SLIP-ON NUT) HEMBRA METRICA CON O-RING ASIEN TO 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)	245
		
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° ASIEN TO 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)	246
		
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° ASIEN TO 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)	246
		
M41642	45° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT) HEMBRA METRICA CON O-RING CODO DE 45° CONO 24° SERIE PESADA DIN 20066 / ISO 12151-2 (TUERCA CON SEGURO) DKOS 45° BOGEN - DIN 20066 / ISO 12151-2 (GESTIFTETE MUTTER) FEMMINA METRICA 45° CONO 24° O-RING SERIE PESANTE DIN 20066 / ISO 12151-2 (DADO SPINATO)	247
		
M41643	45° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY DIN 20066 / ISO 12151-2 (SLIP-ON NUT) HEMBRA METRICA CON O-RING CODO DE 45° ASIEN TO 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)	247
		
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° O-RING METRISCH M RÜCKBOGEN 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)	248
		
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° O-RING METRISCH M RÜCKBOGEN 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)	248
		

ACCESSORIES










M30050	DOUBLE CONNECTOR CONNECTOR DOBLE DOPPELVERBINDER DOPPIO INSERTO	249
		
M49510WL	WELDING TAIL ESPIGA SOLDABLE SCHWEISSENDE INSERTO A SALDARE	249
		
JO29	OPTIONAL INTERLOCK PLUS O-RING INTERLOCK PLUS O-RING OPCIONAL OPTIONAL INTERLOCK PLUS O-RING O-RING INTERLOCK PLUS OPZIONALE	249
		

REFERENCE	DESCRIPTION	PAGE
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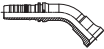
MF2000® XTRALOCK TYPE FERRULE

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
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	250






MF2000® XTRALOCK TYPE INSERTS

M52810/M57810 	NPTF MALE 60° CONE SEAT - SAE J516/J514 MACHO NPTF ASIENTO A 60° - SAE J516/J514 AG NPTF KONUS 60° - SAE J516/J514 MASCHIO NPTF CONO 60° - SAE J516/J514	251
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 DRIITA SAE CODE 62 - SAE J516 / ISO 12151-3	251
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	252
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	252
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)	253
M53410...H00 	API MALE WITH CYLINDRICAL BODY (API 5B THREAD) MACHO API CON CUERPO CILINDRICO (ROSCA API 5B) VERBINDER API ZYLINDRISCH API 5B (API 5B GEWINDE) MASCHIO API CON CORPO CILINDRICO (FILETTATURA API 5B)	253
M53510 	NPT MALE MACHO NPT NPT-SCHRAUBVERBINDUNG NPT MASCHIO	253
M68510 	XTRAFLLANGE (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE) BRIDA RECTA XTRAFLLANGE (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2) XTRAFLLANSCH GERADE (SAE J518 CODE 62 / ISO 6162-2 KOMPATIBLER ANSCHLUSS) XTRAFLLANGIA (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)	254
M68590 	90° XTRAFLLANGE (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE) BRIDA 90° XTRAFLLANGE (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2) XTRAFLLANSCH 90° BOGEN (J518 CODE 62 / ISO 6162-2 KOMPATIBLER ANSCHLUSS) XTRAFLLANGIA 90° (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)	254





VISUAL INDEX

REFERENCE	DESCRIPTION	PAGE
M68540 	45° XTRAFLLANGE (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE) BRIDA 45° XTRAFLLANGE (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2) XTRAFLLANSCH 45° BOGEN (SAE J518 CODE 62 / ISO 6162-2 KOMPATIBLER ANSCHLUSS) XTRAFLLANGIA 45° (COMPATIBLE CON PORTA SAE J518 CODE 62 / ISO 6162-2)	254

ACCESSORIES

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	255
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	255
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	256
O88507 	ONE-PIECE XTRAFLLANGE CLAMP ISO 6162-2 / SAE J518 CODE 62 PORT COMPATIBLE SEMIBRIDA UNA-PIEZA XTRAFLLANGE ISO 6162-2 / SAE J518 COMPATIBLE CON CODIGO 62 VOLLFLANSCH FÜR XTRAFLLANSCH ISO 6162-2 / SAE J518 CODE 62 KOMPATIBLER ANSCHLUSS SEMIFLANGIA INTERA XTRAFLLANGIA ISO 6162-2 / SAE J518 COMPATIBLE CON PORTA CODE 62	256
O820.. 	ANTI-KINK SLEEVE CASQUILLO ANTI-COLAPSO ABKNICKSCHUTZ-FÜHRUNG GHIERA ANTI-KINK	257

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	260
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)	261

REFERENCE	PAGE
JO29	249
L10510	260
L20513	260
L20543	261
L20593	261
M00110/M00120	157
M00310	159
M00820/M00830	159
M00910/M00920	157
M01500	227
M01600	227
M01750	250
M01800	227/250
M03400	158
M10050	225
M10510	161
M10610	168
M10710	160
M11110	209
M11210	213
M11710	217
M11810	217
M12410	178
M12510	170
M12810	187
M13010	184
M14110R	188
M14310	185
M14390	186
M20512	162
M20513	162
M20542	164
M20543	164
M20592	163

REFERENCE	PAGE
M20593	163
M20612	169
M20613	169
M20711	220
M20712	220
M20812	165
M20813	165
M20842	167
M20843	167
M20882F	168
M20892	166
M20893	166
M21013	205
M21093	205
M21312	206
M21313	206
M21342	208
M21343	208
M21392	207
M21393	207
M21512	210
M21513	210
M21542	212
M21543	212
M21592	211
M21593	211
M21612	214
M21613	214
M21642	216
M21643	216
M21692	215
M21693	215
M21713	217
M21813	218

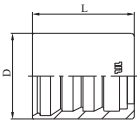
REFERENCE	PAGE
M21893	218
M22010	201
M22040	204
M22090	203
M22110	202
M22140	204
M22190	203
M22411	179
M22441	183
M22443	183
M22491	181
M22493	181
M22512	171
M22513	171
M22542	177
M22543	177
M22582F	178
M22592	175
M22593	175
M22612	186
M22692	186
M22711	172
M22711K	172
M22712	174
M22712K	173
M22812	188
M23301P	196
M23301S	197
M23301T	197
M23311	189
M23321	190
M23331	191
M23341	192
M23361	193

INDEX

REFERENCE	PAGE
M23371	194
M23391	195
M23391 LONG DROP	196
M23611	198
M23641	200
M23691	199
M23811	220
M23911	222
M23941	222
M23991	222
M24011	219
M24012	219
M24111	221
M24141	221
M24191	221
M24493	182
M24792	176
M24793	176
M27411	180
M30050	249
M30510	228
M31210	245
M32810	230
M40812	228
M40842	229
M40892	229
M41243	248
M41293	248
M41612	245
M41613	245
M41642	247
M41643	247
M41692	246
M41693	246

REFERENCE	PAGE
M42411	232
M42412	232
M42441	234
M42442	234
M42491	233
M42492	233
M42512	230
M42542	231
M42592	231
M43310	235
M43340	236
M43390	235
M43610	236
M43630	238
M43640	237
M43660	238
M43690	237
M43710	239
M43740	239
M43790	239
M43910	240
M43920	240
M43930	241
M43940	241
M43960	242
M43970	242
M43990	243
M43990 LONG DROP	243
M48510	244
M48540	244
M48590	244
M49510WL	249
M52810/M57810	251
M53410	253

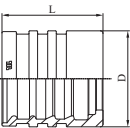
REFERENCE	PAGE
M53410...H00	253
M53510	253
M68510	254
M68540	254
M68590	254
M68610	251
M68640	252
M68690	252
M..IP	224
O820..	257
O20310	223
O20910	223
O80210	226
O80810	226
O83308	255
O83607	256
O83609	255
O88507	256



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

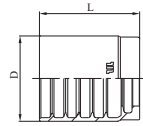
SKIVE FERRULE FOR WIRE BRAID AND SPIRAL HOSES
 CASQUILLO CON PELADO PARA MANGUERAS CON TRENZA Y ESPIRAL DE ACERO
 SCHÄLFASSUNG FÜR STAHLGEFLECHT- UND SPIRALSCHLÄUCHE
 GHIERA PER TUBI TRECCIATI E SPIRALATI CON PELATURA

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

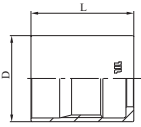


PART. REF.	HOSE BORE			DIMENSIONS mm					
	DN	inch	Size	D	L				
M03400-03	5	3/16"	- 03	21,0	23,0				
M03400-04	6	1/4"	- 04	23,0	30,1				
M03400-05	8	5/16"	- 05	24,0	30,0				
M03400-06	10	3/8"	- 06	26,0	31,1				
M03400-08	12	1/2"	- 08	29,0	33,4				
M03400-10	16	5/8"	- 10	33,0	37,0				
M03400-12	19	3/4"	- 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				

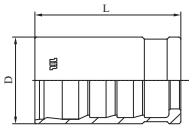
! Available no-skive ferrule for one braid hoses for DN 6 (M03100-04) and DN 10 (M03100-06).
 Disponible casquillo sin pelado para mangueras de una trenza para DN 6 (M03100-04) y DN 10 (M03100-06).
 Verfügbar hülsen ohne abschälen für 1-drahtgeflechschläuche für DN 6 (M03100-04) und DN 10 (M03100-06)
 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

MULTIFIT TYPE



BS STANDARD CONNECTIONS

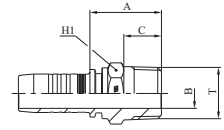
M10710

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					
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	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

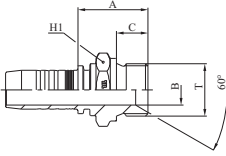
M10510

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



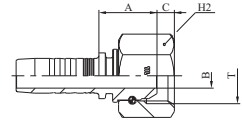
PART. REF.	HOSE BORE		THREAD	DIMENSIONS mm						
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	DN	inch	Size	T	B	A	C		H ₁	
M10510-03-02	5	3/16"	- 03	1/8" - 28	3,5	22,5	10,0		14	
M10510-03-04	5	3/16"	- 03	1/4" - 19	5,0	25,0	11,0		19	
M10510-04-02	6	1/4"	- 04	1/8" - 28	3,5	22,5	10,0		14	
M10510-04-04	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	51	2"	- 32	2" - 11	46,0	53,9	25,0		70	

BS STANDARD CONNECTIONS

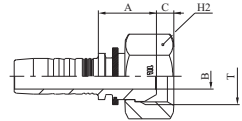
M20512

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

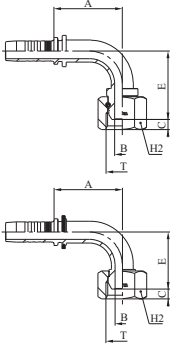


M20513

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

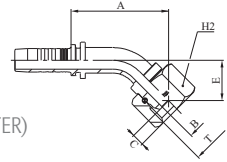
MULTIFIT TYPE



BS STANDARD CONNECTIONS

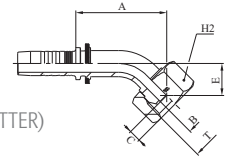
M20542

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



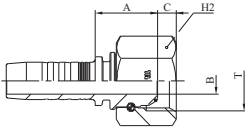
M20543

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



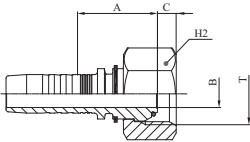
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	E	H ₂
M20542-03-02	5	3/16"	- 03	1/8" - 28	3,1	31,0	4,4	15,0		14
M20543-03-04	5	3/16"	- 03	1/4" - 19	4,0	35,5	5,4	14,5		19
M20542-04-02	6	1/4"	- 04	1/8" - 28	3,1	35,5	4,4	14,5		14
M20543-04-04	6	1/4"	- 04	1/4" - 19	4,0	36,0	5,4	15,0		19
M20543-04-06	6	1/4"	- 04	3/8" - 19	7,0	37,5	6,0	16,0		19
M20542-05-04	8	5/16"	- 05	1/4" - 19	4,0	35,5	5,4	16,0		19
M20543-05-06	8	5/16"	- 05	3/8" - 19	7,0	38,0	6,0	13,5		22
M20543-06-06	10	3/8"	- 06	3/8" - 19	7,0	42,0	6,0	15,0		22
M20543-06-08	10	3/8"	- 06	1/2" - 14	9,3	42,5	6,5	16,0		27
M20542-08-06	12	1/2"	- 08	3/8" - 19	7,1	52,0	6,0	20,0		27
M20543-08-08	12	1/2"	- 08	1/2" - 14	9,3	49,5	6,5	17,0		22
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)

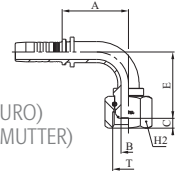
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	H ₂	

PART. REF.	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

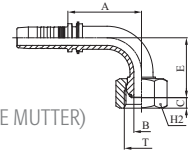
M20892

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)



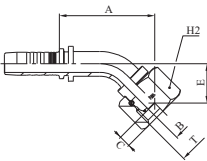
M20893

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)



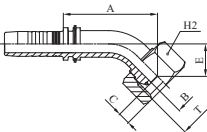
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	E	H ₂
M20893-03-04	5	3/16"	- 03	1/4" - 19	4,0	29,0	4,9	29,0		19
M20893-04-04	6	1/4"	- 04	1/4" - 19	4,0	28,5	4,9	28,5		19
M20892-06-04	10	3/8"	- 06	1/4" - 19	4,0	35,5	4,9	33,0		19
M20893-06-06	10	3/8"	- 06	3/8" - 19	7,0	35,5	6,1	36,0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



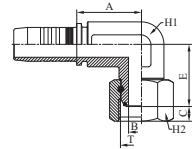
45° BSP O-RING FEMALE SWEPT ELBOW 60° CONE BS5200 / ISO 12151-6 (SLIP-ON NUT)
 HEMBRA BSP CON O-RING CODO DE 45° ASIENTO A 60°
 BS5200 / ISO 12151-6 (TUERCA LIBRE)
 DKOR 45° BOGEN 60° KONUS MIT O-RING
 (BSP-GEWINDE NACH BS5200 / ISO 12151-6, HINTERLEGTE MUTTER)
 FEMMINA GAS 45° CONO 60° O-RING
 BS5200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

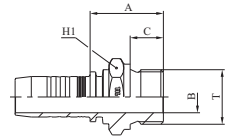
90° BSP O-RING FEMALE COMPACT ELBOW 60° CONE
 BS5200 / ISO 12151-6 (THRUST-WIRE NUT)
 HEMBRA BSP CON O-RING CODO COMPACTO DE 90° ASIENTO A 60°
 BS5200 / ISO 12151-6 (TUERCA CON SEGURO)
 DKOR 90° KOMPAKTBOGEN 60° KONUS MIT O-RING
 (BSP-GEWINDE NACH BS5200 / ISO 12151-6, GESTIFTETE MUTTER)
 FEMMINA GAS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



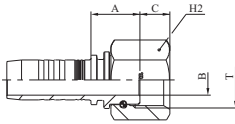
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	E	H ₁
M20882-04-04F	6	1/4"	- 04	1/4" - 19	4,0	20,0	4,9	22,0	14	19
M20882-06-06F	10	3/8"	- 06	3/8" - 19	7,0	23,1	6,1	27,5	19	22
M20882-08-08F	12	1/2"	- 08	1/2" - 14	9,3	24,9	6,5	31,1	22	27
M20882-10-10F	16	5/8"	- 10	5/8" - 14	12,5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

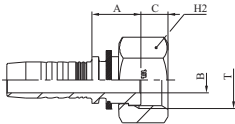


PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	H ₁	H ₂
M10610-04-04	6	1/4"	- 04	1/4" - 19	6,0	25,5	11,0		19	
M10610-06-06	10	3/8"	- 06	3/8" - 19	9,5	28,1	12,0		22	
M10610-06-08	10	3/8"	- 06	1/2" - 14	13,0	30,6	14,0		27	
M10610-08-08	12	1/2"	- 08	1/2" - 14	13,0	31,1	14,0		27	
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		T	B	A	C		H ₂
M20613-04-04	6	1/4"	- 04	1/4" - 19	4,0	14,5	7,9			19
M20613-05-06	8	5/16"	- 05	3/8" - 19	7,0	16,0	9,0			22
M20613-06-06	10	3/8"	- 06	3/8" - 19	7,0	16,6	9,0			22
M20613-06-08	10	3/8"	- 06	1/2" - 14	9,3	17,5	9,8			27
M20613-08-08	12	1/2"	08	1/2" - 14	9,3	17,9	9,8			27
M20612-08-12	12	1/2"	- 08	3/4" - 14	15,0	20,9	11,5			32
M20612-10-12	16	5/8"	- 10	3/4" - 14	15,0	20,7	11,5			32
M20612-12-12	19	3/4"	- 12	3/4" - 14	15,0	22,0	11,5			32
M20612-12-16	19	3/4"	- 12	1" - 11	19,8	23,5	13,0			38
M20612-16-16	25	1"	- 16	1" - 11	19,8	24,8	13,0			38

SAE STANDARD CONNECTIONS

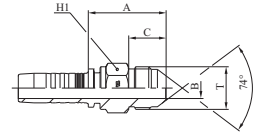
M12510

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

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

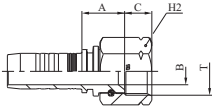
AGJ 37° AUSSENKONUS (UNF-GEWINDE NACH SAE J516 / ISO 12151-5)

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



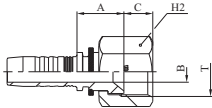
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm				
	DN	inch	Size		T	B	A	C	H1
M12510-04-04	6	1/4"	-04	7/16" - 20	4,0	28,0	14,0	12	
M12510-04-05	6	1/4"	-04	1/2" - 20	5,5	29,0	14,0	14	
M12510-04-06	6	1/4"	-04	9/16" - 18	7,0	29,0	14,0	17	
M12510-05-04	8	5/16"	-05	7/16" - 20	4,0	29,0	14,0	14	
M12510-05-05	8	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° DICHTKOPF (UNF-GEWINDE NACH SAE J516 / ISO 12151-5, GESTIFTETE MUTTER)
 FEMMINA JIC CONO 37° - SAE J516 / ISO 12151-5 (DADO SPINATO)

M22513



JIC FEMALE 37° CONE SEAT - SAE J516 / ISO 12151-5 (SLIP-ON NUT)
 HEMBRA JIC ASIENTO A 37° - SAE J516 / ISO 12151-5 (TUERCA LIBRE)
 DKJ 37° DICHTKOPF (UNF-GEWINDE NACH SAE J516 / ISO 12151-5, HINTERLEGTE MUTTER)
 FEMMINA JIC CONO 37° - SAE J516 / ISO 12151-5 (DADO PASSANTE)

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

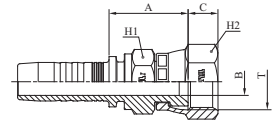
SAE STANDARD CONNECTIONS

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, VORGEKRIMPT 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, VORGEKRIMPT 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

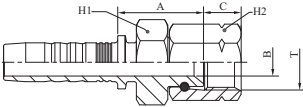
SAE J516 / ISO 12151-5 (TUERCA TIPO COMPACTO CON SEGURO)

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)

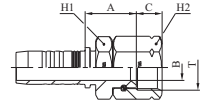
HEMBRA JIC ASIENTO A 37° DOBLE TUERCA SAE J516 / ISO 12151-5 (TUERCA CON SEGURO)

DKJ 37° DK MIT KONTERSECHSKANT

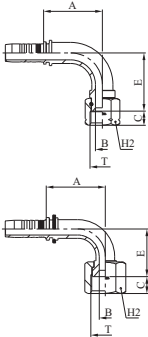
(UNF-GEWINDE NACH SAE J516 / ISO 12151-5, GESTIFTETE MUTTER)

FEMMINA JIC CONO 37° DOPPIO ESAGONO

SAE J516 / ISO 12151-5 (DADO SPINATO)



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	H ₁	H ₂
M22712-03-04	5	3/16"	- 03	7/16" - 20	4,0	20,5	8,2		12	17
M22712-04-04	6	1/4"	- 04	7/16" - 20	4,0	21,0	8,2		12	17
M22712-04-05	6	1/4"	- 04	1/2" - 20	4,0	21,5	9,2		12	17
M22712-04-06	6	1/4"	- 04	9/16" - 18	7,0	24,1	9,2		14	19
M22712-05-05	8	5/16"	- 05	1/2" - 20	5,5	21,5	9,2		14	17
M22712-05-06	8	5/16"	- 05	9/16" - 18	7,0	24,1	9,2		14	19
M22712-05-08	8	5/16"	- 05	3/4" - 16	9,3	26,0	10,6		19	22
M22712-06-04	10	3/8"	- 06	7/16" - 20	4,0	24,5	8,2		17	17
M22712-06-05	10	3/8"	- 06	1/2" - 20	5,5	25,0	9,2		17	17
M22712-06-06	10	3/8"	- 06	9/16" - 18	7,0	24,6	9,2		17	19
M22712-06-08	10	3/8"	- 06	3/4" - 16	9,3	27,1	10,2		19	22
M22712-06-10	10	3/8"	- 06	7/8" - 14	12,5	28,0	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	27
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° DICHTKOPF (UNF-GEWINDE NACH SAE J516 / ISO 12151-5, GESTIFTETE MUTTER)
 FEMMINA JIC 90° CONO 37° SAE J516 / ISO 12151-5 (DADO SPINATO)

M22593

90° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5 (SLIP-ON NUT)
 HEMBRA JIC CODO DE 90° ASIENTO A 37° - SAE J516 / ISO 12151-5 (TUERCA LIBRE)
 DKJ 90° BOGEN 37° DICHTKOPF (UNF-GEWINDE NACH SAE J516 / ISO 12151-5, HINTERLEGTE MUTTER)
 FEMMINA JIC 90° CONO 37° SAE J516 / ISO 12151-5 (DADO PASSANTE)

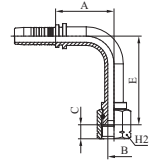
PART. REF.	HOSE BORE		THREAD	DIMENSIONS mm						
	DN	inch		T	B	A	C	E	H ₂	

	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

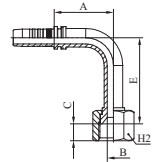
M24792

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)

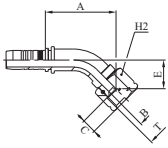


M24793

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)

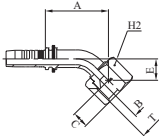


PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	E	H ₂
M24792-04-04	6	1/4"	- 04	7/16" - 20	4,0	28,5	8,2	45,0		17
M24792-04-05	6	1/4"	- 04	1/2" - 20	4,0	28,5	9,2	45,0		17
M24793-04-06	6	1/4"	- 04	9/16" - 18	4,0	29,5	9,8	55,5		19
M24792-06-06	10	3/8"	- 06	9/16" - 18	7,0	35,5	9,2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

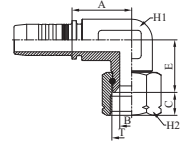
MULTIFIT TYPE



SAE STANDARD CONNECTIONS

M22582F

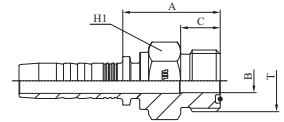
90° JIC FEMALE COMPACT ELBOW 37° CONE SEAT
 SAE J516 / ISO 12151-5 (THRUST-WIRE NUT)
 HEMBRA JIC CODO COMPACTO DE 90° ASIENTO A 37°
 SAE J516 / ISO 12151-5 (TUERCA CON SEGURO)
 DKJ 90° KOMPAKT BOGEN 37° DICHTKOPF
 (UNF-GEWINDE NACH SAE J516 / ISO 12151-5, GESTIFTETE MUTTER)
 FEMMINA JIC 90° TIPO COMPATTO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

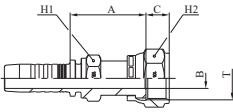
M12410

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	H ₂
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 CUERLO LARGO (TUERCA PRENSADA)
 ORFS IG - SAE J516 / ISO12151-1 RÜCKZUGSAUSFÜHRUNG (VERPRESSTE MUTTER)
 FEMMINA ORFS - SAE J516 / ISO 12151-1 VERSIONE RETRAIBILE (DADO PRESSATO)

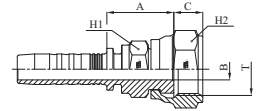
PART. REF.	HOSE BORE		THREAD	DIMENSIONS mm						
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	DN	inch	Size	T	B	A	C		H ₁	H ₂
M22411-04-04	6	1/4"	- 04	9/16" - 18	4,0	27,5	8,0		13	19
M22411-04-06	6	1/4"	- 04	11/16" - 16	7,0	30,0	9,5		16	22
M22411-04-08	6	1/4"	- 04	13/16" - 16	9,3	34,5	11,0		19	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

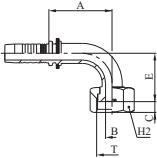
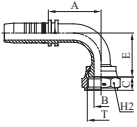
SAE STANDARD CONNECTIONS

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		T	B	A	C	E	H ₂	

	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

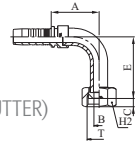
M24493*

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)

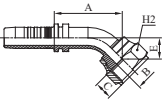
FEMMINA ORFS A 90° CURVA LUNGA - SAE J516 / ISO 12151-1 (DADO PASSANTE)



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

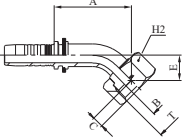
* Brazed solution / Con soldadura / Lötausführung / Con saldatura

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	

MULTIFIT TYPE



SAE STANDARD CONNECTIONS

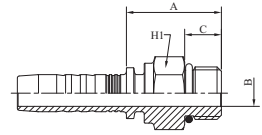
M13010

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					
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	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	

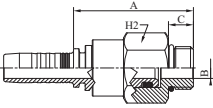
M14310*

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

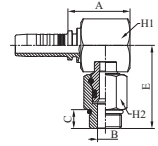
M14390*

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
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 / Löttausführung - Nicht zu benutzen als Drehverschraubung / Con soldatura - Da non usare come applicazione rotante

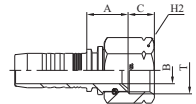
M22612

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

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

DKJ DICHTKOPF 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

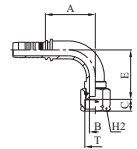
M22692

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

HEMBRA SAE CODO DE 90° ASIEN TO 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

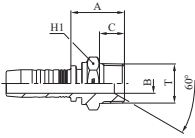
M12810

NPTF MALE 60° CONE SEAT - SAE J516/J514

MACHO NPTF ASIENTO A 60° - SAE J516/J514

AGN 60° INNENKONUS (NPTF-GEWINDE) - SAE J516/J514

MASCHIO NPTF CONO 60° - SAE J516 /J514



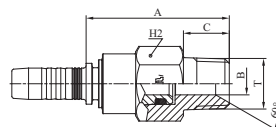
PART. REF.	HOSE BORE		THREAD	DIMENSIONS mm			
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	DN	inch	Size	T	B	A	C	H ₁
M12810-03-02	5	3/16"	- 03	1/8" - 27	4,0	23,6	10,0	12
M12810-03-04	5	3/16"	- 03	1/4" - 18	5,5	29,1	14,5	14
M12810-04-02	6	1/4"	- 04	1/8" - 27	4,0	24,1	10,0	12
M12810-04-04	6	1/4"	- 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 ASIEN TO A 60° - SAE J516/J514
 AGN 60° INNENKONUS (NPTF-GEWINDE) - SAE J516/J514
 MASCHIO NPTF CONO 60° GIREVOLE - SAE J516/J514

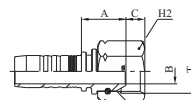


PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	H ₂	
M14110-04-02R	6	1/4"	- 04	1/8" - 27	3,0	41,9	10,0		17	
M14110-04-04R	6	1/4"	- 04	1/4" - 18	4,0	46,4	14,5		17	
M14110-04-06R	6	1/4"	- 04	3/8" - 18	7,0	46,4	14,5		19	
M14110-06-04R	10	3/8"	- 06	1/4" - 18	4,0	50,5	14,5		22	
M14110-06-06R	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

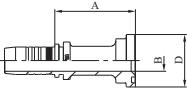
NPSM FEMALE 60° CONE - SAE J516/J514 (THRUST-WIRE NUT)
 HEMBRA NPSM ASIEN TO A 60° - SAE J516/J514 (TUERCA CON SEGURO)
 DK NPSM 60° KONUS - SAE J516/J514 (NPTF-GEWINDE, GESTIFTETE MUTTER)
 FEMMINA NPSM CONO 60° - SAE J516/J514 (DADO SPINATO)



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

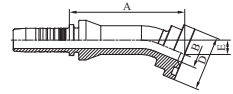
M23321

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

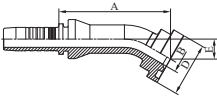


PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm						
	DN	inch	Size		B	A	D	E			
M23321-08-08	12	1/2"	- 08	1/2"	9,3	63,9	30,3	8,0			
M23321-12-12	19	3/4"	- 12	3/4"	15,0	74,7	38,0	9,8			
M23321-12-16	19	3/4"	- 12	1"	20,0	74,7	44,6	9,8			
M23321-16-16	25	1"	- 16	1"	19,8	88,8	44,6	11,5			
M23321-16-20	25	1"	- 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 items 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		

* All items are made from solid with the exception of (*) / Todos los items 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

MULTIFIT TYPE



SAE STANDARD CONNECTIONS

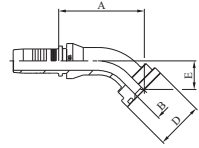
M23341

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

BRIDA 45° ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3

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

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



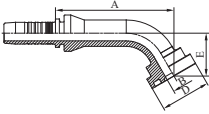
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm			
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	DN	inch	Size		B	A	D	E
M23341-06-08	10	3/8"	- 06	1/2"	9,3	52,5	30,3	17,0
M23341-08-08	12	1/2"	- 08	1/2"	9,3	58,5	30,3	18,5
M23341-08-12	12	1/2"	- 08	3/4"	15,0	59,5	38,0	19,0
M23341-08-16	12	1/2"	- 08	1"	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



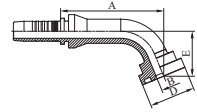
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M23361-08-08	12	1/2"	- 08	1/2"	9,3	71,5	30,3	25,8		
M23361-08-12	12	1/2"	- 08	3/4"	15,0	72,5	38,0	26,5		
M23361-12-12	19	3/4"	- 12	3/4"	15,0	86,9	38,0	33,0		
M23361-12-16	19	3/4"	- 12	1"	20,0	87,0	44,6	33,0		
M23361-16-16	25	1"	- 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		

* All items are made from solid with the exception of (*) / Todos los items 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

M23371

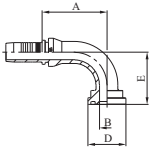
67,5° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3
 BRIDA 67,5° ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3
 67,5° ISO/SAE CODE 61 FLANSCH - SAE J516 / ISO 12151-3
 FLANGIA 67,5° ISO/SAE CODE 61 - SAE J516 / ISO 12151-3



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm			
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	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		

* All items are made from solid with the exception of (*) / Todos los items 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



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			
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	DN	inch	Size		B	A	D	E		
M23391-06-08	10	3/8"	- 06	1/2"	9,3	45,0	30,3	35,0		
M23391-06-08041	10	3/8"	- 06	1/2"	9,3	45,0	30,3	41,0		
M23391-08-08	12	1/2"	- 08	1/2"	9,3	54,5	30,3	40,0		
M23391-08-12	12	1/2"	- 08	3/4"	15,0	54,5	38,0	41,0		
M23391-08-16	12	1/2"	- 08	1"	20,0	54,5	44,6	66,0		
M23391-10-08	16	5/8"	- 10	1/2"	9,3	56,0	30,3	46,5		
M23391-10-12	16	5/8"	- 10	3/4"	15,0	56,0	38,0	47,5		
M23391-12-12	19	3/4"	- 12	3/4"	15,0	64,5	38,0	52,0		
M23391-12-16	19	3/4"	- 12	1"	20,0	64,5	44,6	52,0		
M23391-12-20	19	3/4"	- 12	1.1/4"	26,0	64,5	51,0	52,0		
M23391-16-16	25	1"	- 16	1"	19,8	77,5	44,6	62,0		
M23391-16-20	25	1"	- 16	1.1/4"	26,0	77,5	51,0	62,0		
M23391-16-24	25	1"	- 16	1.1/2"	32,0	77,5	60,5	64,0		
M23391-20-16	31	1.1/4"	- 20	1"	20,0	80,0	44,6	66,0		
M23391-20-20	31	1.1/4"	- 20	1.1/4"	26,0	90,5	51,0	70,0		
M23391-20-24	31	1.1/4"	- 20	1.1/2"	32,0	90,5	60,5	72,0		
M23391-20-32	31	1.1/4"	- 20	2"	42,0	93,5	71,6	76,0		
M23391-24-20	38	1.1/2"	- 24	1.1/4"	26,0	104,5	51,0	75,0		
M23391-24-24	38	1.1/2"	- 24	1.1/2"	32,0	108,0	60,5	84,0		
M23391-24-32	38	1.1/2"	- 24	2"	42,0	108,0	71,6	84,0		
M23391-32-24	51	2"	- 32	1.1/2"	32,0	133,0	60,5	84,0		
M23391-32-32	51	2"	- 32	2"	42,0	129,0	71,6	99,0		
M23391-32-40	51	2"	- 32	2.1/2"	56,0	132,5	84,3	116,0		
M23391-40-32	63	2.1/2"	- 40	2"	42,0	149,5	71,6	114,0		
M23391-40-40*	63	2.1/2"	- 40	2.1/2"	52,0	88,5	84,3	88,0		
M23391-40-48*	63	2.1/2"	- 40	3"	52,0	88,5	101,6	95,0		
M23391-48-48*	76	3"	- 48	3"	61,0	124,0	101,6	115,0		
M23391-48-56*	76	3"	- 48	3.1/2"	61,0	124,0	114,3	115,0		
M23391-56-56*	90	3.1/2"	- 56	3.1/2"	79,0	134,5	114,3	134,5		
M23391-64-64*	102	4"	- 64	4"	90,0	153,5	127,0	158,5		

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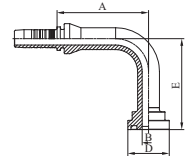
MULTIFIT TYPE



SAE STANDARD CONNECTIONS

M23391 LONG DROP

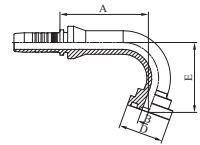
90° LONG DROP ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3
 BRIDA 90° LARGA ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3
 90° LONG DROP ISO/SAE CODE 61 FLANSCH - SAE J516 / ISO 12151-3
 FLANGIA 90° CURVA LUNGA ISO/SAE CODE 61 - SAE J516 / ISO 12151-3



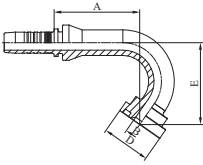
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm			
	DN	inch	Size		B	A	D	E
M23391-16-20117	25	1"	- 16	1,1/4"	26,0	77,5	51,0	117
M23391-16-24107	25	1"	- 16	1,1/2"	32,0	77,5	60,5	107
M23391-20-20091	31	1,1/4"	- 20	1,1/4"	26,0	90,5	51,0	91
M23391-20-20100	31	1,1/4"	- 20	1,1/4"	26,0	90,5	51,0	100
M23391-20-20112	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



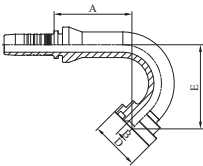
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm			
	DN	inch	Size		B	A	D	E
M23301-08-12P	12	1/2"	- 08	3/4"	15,0	47,5	38,0	48,5
M23301-12-12P	19	3/4"	- 12	3/4"	15,0	89,0	38,0	62
M23301-12-16P	19	3/4"	- 12	1"	20,0	89,0	44,6	62
M23301-16-16P	25	1"	- 16	1"	19,8	88,5	44,6	79
M23301-16-20133P	25	1"	- 16	1,1/4"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

MULTIFIT TYPE



SAE STANDARD CONNECTIONS

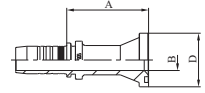
M23611

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

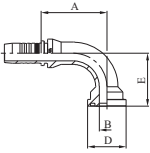
BRIDA ISO/SAE CODIGO 62 - SAE J516 / ISO 12151-3

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		

MULTIFIT TYPE



SAE STANDARD CONNECTIONS

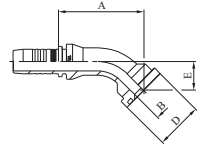
M23641

45° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3

BRIDA 45° ISO/SAE CODIGO 62 - SAE J516 / ISO 12151-3

45° ISO/SAE CODE 62 FLANSCH - SAE J516 / ISO 12151-3

FLANGIA 45° ISO/SAE CODE 62 - SAE J516 / ISO 12151-3



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm			
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	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		

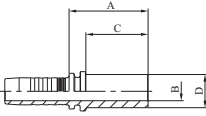
M22010

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



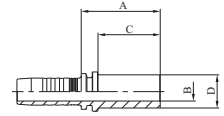
PART. REF.	HOSE BORE		PIPE	DIMENSIONS mm						
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	DN	inch	Size	D	B	A	C			
M22010-03-04	5	3/16"	- 03	4	2,0	29,6	22,0			
M22010-03-06	5	3/16"	- 03	6	3,0	28,6	22,0			
M22010-04-06	6	1/4"	- 04	6	3,0	29,5	22,0			
M22010-05-08	8	5/16"	- 05	8	5,5	30,0	22,0			
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			

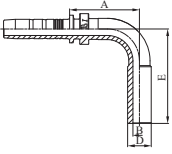
DIN STANDARD CONNECTIONS

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



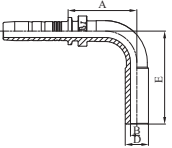
PART. REF.	HOSE BORE			PIPE	DIMENSIONS mm					
	DN	inch	Size		D	B	A	C		
M22110-03-08	5	3/16"	- 03	8	3,0	30,6	24,0			
M22110-03-10	5	3/16"	- 03	10	3,0	29,5	22,0			
M22110-04-08	6	1/4"	- 04	8	4,0	31,5	24,0			
M22110-04-10	6	1/4"	- 04	10	4,0	33,5	26,0			
M22110-04-12	6	1/4"	- 04	12	7,0	33,5	26,0			
M22110-05-12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

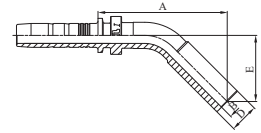
90° METRIC STANDPIPE HEAVY DUTY - DIN 2353 / ISO 8434-1
 ESIPIGA LISA METRICA SERIE PESADA CODO DE 90° - DIN 2353 / ISO 8434-1
 BES 90° BOGEN - DIN 2353 / ISO 8434-1
 ESTREMITÀ TUBOLARE 90° SERIE PESANTE - DIN 2353 / ISO 8434-1

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

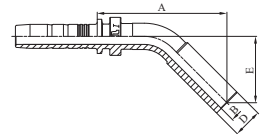
45° METRIC STANDPIPE LIGHT DUTY - DIN 2353 / ISO 8434-1
 ESPIGA LISA METRICA SERIE LIGERA CODO DE 45° - DIN 2353 / ISO 8434-1
 BEL 45° BOGEN - DIN 2353 / ISO 8434-1
 ESTREMITÀ TUBOLARE 45° SERIE LEGGERA - DIN 2353 / ISO 8434-1



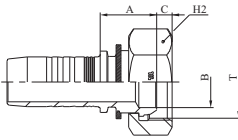
PART. REF.	HOSE BORE			PIPE	DIMENSIONS mm					
	DN	inch	Size		D	B	A	E		
M22040-03-06	5	3/16"	- 03	6	3,0	37,5		20,5		
M22040-04-06	6	1/4"	- 04	6	3,0	38,0		20,5		
M22040-05-10	8	5/16"	- 05	10	7,0	44,5		22,5		
M22040-06-10	10	3/8"	- 06	10	7,0	47,5		23,0		
M22040-06-12	10	3/8"	- 06	12	8,0	49,5		25,0		
M22040-08-15	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



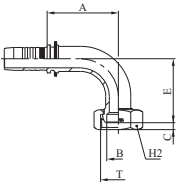
PART. REF.	HOSE BORE			PIPE	DIMENSIONS mm					
	DN	inch	Size		D	B	A	E		
M22140-04-08	6	1/4"	- 04	8	4,0	42,0		22,0		
M22140-04-10	6	1/4"	- 04	10	6,0	44,0		24,0		
M22140-06-14	10	3/8"	- 06	14	9,3	54,5		29,0		
M22140-08-16	12	1/2"	- 08	16	10,5	61,0		30,0		
M22140-10-20	16	5/8"	- 10	20	12,5	69,0		36,0		
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 ASIENTO A 60° - DIN 20078/3863
 DKM 60° KONUS - DIN 20078/3863
 FEMMINA METRICA CONO 60° - DIN 20078/3863

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

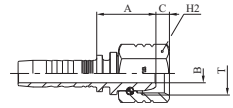
90° METRIC FEMALE SWEPT ELBOW 60° CONE - DIN 20078/3863
 HEMBRA METRICA CODO DE 90° ASIENTO A 60° - DIN 20078/3863
 DKM 90° BOGEN 60° KONUS - DIN 20078/3863
 FEMMINA METRICA 90° CONO 60° - DIN 20078/3863

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

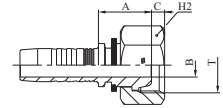
M21312

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)

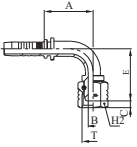


M21313

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)

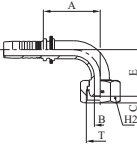


PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS				
	mm	inch	Size			B	A	C	H ₂	
M21312-03-12	5	3/16"	- 03	M 12x1,5	6	3,0	18,6	3,7		14
M21312-04-12	6	1/4"	- 04	M 12x1,5	6	4,0	19,5	4,0		17
M21313-04-14	6	1/4"	- 04	M 14x1,5	8	4,0	19,5	3,8		17
M21313-04-16	6	1/4"	- 04	M 16x1,5	10	4,0	19,5	4,0		19
M21313-05-16	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

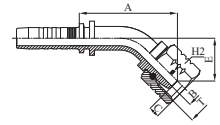
90° METRIC FEMALE SWEPT ELBOW MULTISEAL DIN 20078/3868 (SLIP-ON NUT)
 HEMBRA METRICA CODO DE 90° ASIENTO UNIVERSAL DIN 20078/3868 (TUERCA LIBRE)
 DKL UNIVERSALKONUS 90° BOGEN - DIN 20078/3868 (HINTERLEGTE MUTTER)
 FEMMINA METRICA 90° CONO UNIVERSALE - DIN 20078/3868 (DADO PASSANTE)

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

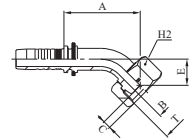
M21342

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

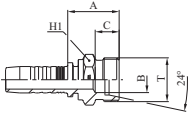
45° METRIC FEMALE SWEPT ELBOW MULTISEAL DIN 20078/3868 (SLIP-ON NUT)
 HEMBRA METRICA CODO DE 45° ASIENTO UNIVERSAL DIN 20078/3868 (TUERCA LIBRE)
 DKL UNIVERSALKONUS 45° BOGEN - DIN 20078/3868 (HINTERLEGTE MUTTER)
 FEMMINA METRICA 45° CONO UNIVERSALE - DIN 20078/3868 (DADO PASSANTE)



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



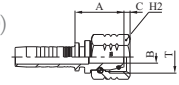
PART. REF.	HOSE BORE	THREAD	PIPE	DIMENSIONS mm							
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	DN	inch	Size	T	mm	B	A	C		H ₁	H ₂
M11110-03-12	5	3/16"	- 03	M 12x1,5	6	3,0	21,0	10,0		14	
M11110-04-12	6	1/4"	- 04	M 12x1,5	6	4,0	21,5	10,0		14	
M11110-04-14	6	1/4"	- 04	M 14x1,5	8	4,0	21,5	10,0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

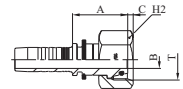
M21512

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



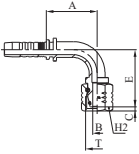
M21513

METRIC O-RING FEMALE 24° CONE LIGHT DUTY - DIN 20066 / ISO 12151-2 (SLIP-ON NUT)
 HEMBRA METRICA CON O-RING ASIEN TO 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)



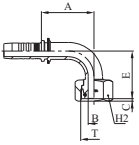
PART. REF.	HOSE BORE		THREAD	PIPE	DIMENSIONS mm					
	DN	inch			T	mm	B	A	C	H ₂
M21513-03-12	5	3/16"	- 03	M 12x1,5	6	3,0	21,9	1,7		14
M21513-03-14	5	3/16"	- 03	M 14x1,5	8	4,5	24,5	1,7		17
M21512-04-12	6	1/4"	- 04	M 12x1,5	6	3,0	21,1	2,2		17
M21513-04-14	6	1/4"	- 04	M 14x1,5	8	4,0	22,1	1,7		17
M21513-04-16	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)

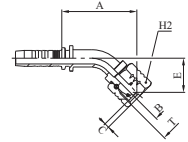
PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size			T	mm	B	A	C	E

PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size			T	mm	B	A	C	E
M21593-03-12	5	3/16"	- 03	M 12x1,5	6	3,0	26,0	1,7	30,0		14
M21593-03-14	5	3/16"	- 03	M 14x1,5	8	4,0	29,0	1,7	31,5		17
M21592-04-12	6	1/4"	- 04	M 12x1,5	6	3,0	28,5	2,2	32,5		17
M21593-04-14	6	1/4"	- 04	M 14x1,5	8	4,0	29,5	1,7	31,5		17
M21593-04-16	6	1/4"	- 04	M 16x1,5	10	6,0	29,5	2,1	32,0		19
M21593-04-18	6	1/4"	- 04	M 18x1,5	12	7,0	29,5	2,3	33,0		22
M21592-05-14	8	5/16"	- 05	M 14x1,5	8	4,0	31,0	1,7	33,0		17
M21593-05-16	8	5/16"	- 05	M 16x1,5	10	6,0	32,0	2,1	32,5		19
M21593-05-18	8	5/16"	- 05	M 18x1,5	12	7,0	32,0	2,3	32,5		22
M21593-05-22	8	5/16"	- 05	M 22x1,5	15	9,3	36,0	2,3	35,0		27
M21592-06-16	10	3/8"	- 06	M 16x1,5	10	6,0	35,5	3,0	40,0		19
M21593-06-18	10	3/8"	- 06	M 18x1,5	12	7,0	36,5	2,3	33,5		22
M21593-06-22	10	3/8"	- 06	M 22x1,5	15	9,3	36,5	2,3	35,0		27
M21592-08-18	12	1/2"	- 08	M 18x1,5	12	7,0	44,0	2,9	48,0		22
M21593-08-22	12	1/2"	- 08	M 22x1,5	15	9,3	45,0	2,3	39,5		27
M21593-08-26	12	1/2"	- 08	M 26x1,5	18	12,5	45,0	2,5	40,0		32
M21592-10-22	16	5/8"	- 10	M 22x1,5	15	9,3	53,5	3,0	57,5		27
M21593-10-26	16	5/8"	- 10	M 26x1,5	18	12,5	51,5	2,5	53,0		32
M21593-10-30	16	5/8"	- 10	M 30x2	22	15,0	51,5	3,6	54,0		36
M21592-12-26	19	3/4"	- 12	M 26x1,5	18	12,5	61,5	3,6	63,0		32
M21593-12-30	19	3/4"	- 12	M 30x2	22	15,0	61,5	3,6	59,0		36
M21593-12-36	19	3/4"	- 12	M 36x2	28	19,8	61,5	3,8	61,0		41
M21592-16-30	25	1"	- 16	M 30x2	22	15,0	79,5	3,6	80,5		36
M21593-16-36	25	1"	- 16	M 36x2	28	19,8	76,5	3,8	69,5		41
M21593-16-45	25	1"	- 16	M 45x2	35	26,0	79,0	5,1	72,0		50
M21592-20-36	31	1.1/4"	- 20	M 36x2	28	19,8	93,5	5,0	92,0		41
M21593-20-45	31	1.1/4"	- 20	M 45x2	35	26,0	93,5	5,1	81,0		50
M21592-24-36	38	1.1/2"	- 24	M 36x2	28	19,8	97,0	5,0	68,0		41
M21593-24-52	38	1.1/2"	- 24	M 52x2	42	32,0	107,5	5,1	98,0		60

DIN STANDARD CONNECTIONS

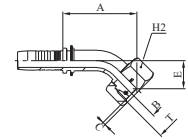
M21542

45° METRIC O-RING FEMALE SWEEP 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

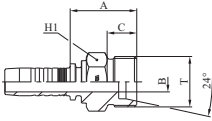
45° METRIC O-RING FEMALE SWEEP ELBOW 24° CONE LIGHT DUTY
 DIN 20066 / ISO 12151-2 (SLIP-ON NUT)
 HEMBRA METRICA CON O-RING CODO DE 45° ASIENTO A 24° SERIE LIGERA
 DIN 20066 / ISO 12151-2 (TUERCA LIBRE)
 DKOL 45° BOGEN - DIN 20066 / ISO 12151-2 (HINTERLEGTE MUTTER)
 FEMMINA METRICA 45° CONO 24° O-RING SERIE LEGGERA DIN 20066 / ISO 12151-2 (DADO PASSANTE)



PART. REF.	HOSE BORE	THREAD	PIPE	DIMENSIONS mm						
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	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

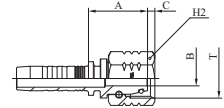
PART. REF.	HOSE BORE	THREAD	PIPE	DIMENSIONS mm						
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	DN	inch	Size	T	mm	B	A	C		H ₁	
M11210-04-16	6	1/4"	- 04	M 16x1,5	8	4,0	25,5	12,0		17	
M11210-04-18	6	1/4"	- 04	M 18x1,5	10	6,0	26,5	12,0		19	
M11210-04-20	6	1/4"	- 04	M 20x1,5	12	7,0	29,0	12,0		22	
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

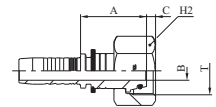
M21612

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

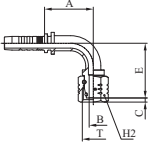
METRIC O-RING FEMALE 24° CONE HEAVY DUTY - DIN 20066 / ISO 12151-2 (SLIP-ON NUT)
 HEMBRA METRICA CON O-RING ASIETO A 24° SERIE PESADA
 DIN 20066 / ISO 12151-2 (TUERCA LIBRE)
 DKOS - DIN 20066 / ISO 12151-2 (HINTERLEGTE MUTTER)
 FEMMINA METRICA CONO 24° O-RING SERIE PESANTE
 DIN 20066 / ISO 12151-2 (DADO PASSANTE)



PART. REF.	HOSE BORE	THREAD	PIPE	DIMENSIONS mm						
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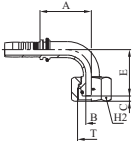
	DN	inch	Size	T	mm	B	A	C			H ₂
M21613-03-14	5	3/16"	- 03	M 14x1,5	6	2,5	25,5	3,5			17
M21613-03-16	5	3/16"	- 03	M 16x1,5	8	3,2	21,9	3,4			19
M21613-04-14	6	1/4"	- 04	M 14x1,5	6	3,0	23,5	3,5			17
M21613-04-16	6	1/4"	- 04	M 16x1,5	8	4,0	22,2	3,4			19
M21613-04-18	6	1/4"	- 04	M 18x1,5	10	4,0	28,0	3,0			22
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 SWEPT ELBOW 24° CONE HEAVY DUTY
 DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT)
 HEMBRA METRICA CON O-RING CODO DE 90° ASIENTO A 24° SERIE PESADA
 DIN 20066 / ISO 12151-2 (TUERCA CON SEGURO)
 DKOS 90° BOGEN - DIN 20066 / ISO 12151-2 (GESTIFTETE MUTTER)
 FEMMINA METRICA 90° CONO 24° O-RING SERIE PESANTE DIN 20066 / ISO 12151-2 (DADO SPINATO)

M21693



90° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY
 DIN 20066 / ISO 12151-2 (SLIP-ON NUT)
 HEMBRA METRICA CON O-RING CODO DE 90° ASIENTO A 24° SERIE PESADA
 DIN 20066 / ISO 12151-2 (TUERCA LIBRE)
 DKOS 90° BOGEN - DIN 20066 / ISO 12151-2 (HINTERLEGTE MUTTER)
 FEMMINA METRICA 90° CONO 24° O-RING SERIE PESANTE DIN 20066 / ISO 12151-2 (DADO PASSANTE)

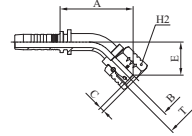
PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size			T	mm	B	A	C	E

PART. REF.	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

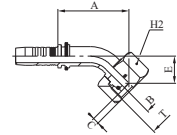
M21642

45° METRIC O-RING FEMALE 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)

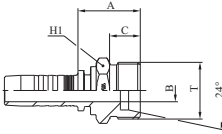


M21643

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° ASIEN TO 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			T	mm	B	A	C	E	H ₂
M21643-04-14	6	1/4"	- 04	M 14x1,5	6	3,0	38,5	3,5	17,5		17
M21643-04-16	6	1/4"	- 04	M 16x1,5	8	4,0	36,0	3,4	15,0		19
M21643-04-18	6	1/4"	- 04	M 18x1,5	10	4,0	37,5	3,0	16,5		22
M21643-05-18	8	5/16"	- 05	M 18x1,5	10	4,0	42,5	3,0	18,0		22
M21643-05-20	8	5/16"	- 05	M 20x1,5	12	5,5	42,5	2,5	18,5		24
M21642-06-18	10	3/8"	- 06	M 18x1,5	10	4,0	49,0	3,9	23,0		22
M21643-06-20	10	3/8"	- 06	M 20x1,5	12	7,0	45,0	2,5	18,0		24
M21643-06-22	10	3/8"	- 06	M 22x1,5	14	7,0	46,5	3,0	19,5		27
M21642-08-22	12	1/2"	- 08	M 22x1,5	14	7,0	57,5	2,5	25,5		27
M21643-08-24	12	1/2"	- 08	M 24x1,5	16	9,3	52,5	3,0	20,0		30
M21643-10-30	16	5/8"	- 10	M 30x2	20	12,5	65,5	3,5	29,5		36
M21642-12-30	19	3/4"	- 12	M 30x2	20	12,5	76,5	2,2	34,0		36
M21643-12-36	19	3/4"	- 12	M 36x2	25	15,0	75,0	4,5	32,5		41
M21642-16-36	25	1"	- 16	M 36x2	25	15,0	98,0	1,7	43,5		41
M21643-16-42	25	1"	- 16	M 42x2	30	19,8	90,0	6,3	35,5		50
M21643-20-52	31	1 1/4"	- 20	M 52x2	38	26,0	103,0	8,0	39,5		60

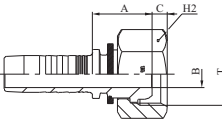


M11710

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				
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	DN	inch	Size	T	mm	B	A	C		H ₁	
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	

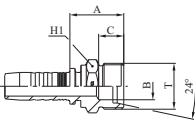


M21713

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				
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	DN	inch	Size	T	mm	B	A	C			H ₂
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

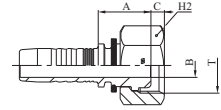
PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm				
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	DN	inch	Size	T	mm	B	A	C		H ₁	
M11810-05-20	8	5/16"	- 05	M 20x1,5	13,25	8,0	27,0	12,0		22	
M11810-06-20	10	3/8"	- 06	M 20x1,5	13,25	8,0	27,6	12,0		22	
M11810-06-24	10	3/8"	- 06	M 24x1,5	16,75	12,0	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

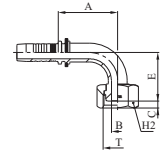
FRENCH METRIC FEMALE GAZ TYPE (SLIP-ON NUT)
 HEMBRA METRICA FRANCES TIPO GAZ (TUERCA LIBRE)
 DKF (FR. REIHE GAS, HINTERLEGTE MUTTER)
 FEMMINA METRICA SERIE GAZ FRANCESE (DADO PASSANTE)



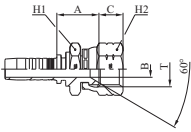
PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm				
	DN	inch	Size			T	mm	B	A	C
M21813-04-20	6	1/4"	- 04	M 20x1,5	13,25	7,0	22,1	4,3		24
M21813-05-20	8	5/16"	- 05	M 20x1,5	13,25	7,0	22,1	4,3		24
M21813-06-20	10	3/8"	- 06	M 20x1,5	13,25	7,0	22,6	4,3		24
M21813-06-24	10	3/8"	- 06	M 24x1,5	16,75	9,3	25,6	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)

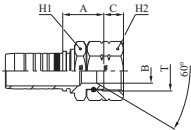


PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm				
	DN	inch	Size			T	mm	B	A	C
M21893-05-20	8	5/16"	- 05	M 20x1,5	13,25	7,0	32,0	4,3	29,5	24
M21893-06-20	10	3/8"	- 06	M 20x1,5	13,25	7,0	36,5	4,3	33,5	24
M21893-08-24	12	1/2"	- 08	M 24x1,5	16,75	12,0	45,0	4,0	41,0	30
M21893-10-30	16	5/8"	- 10	M 30x1,5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

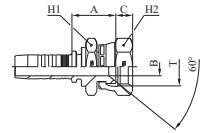
JIS METRIC FEMALE 60° CONE SEAT (KOMATSU) JIS B 8363 (THRUST-WIRE NUT)
 HEMBRA METRICA JIS ASIEN TO A 60° (KOMATSU) JIS B 8363 (TUERCA CON SEGURO)
 DK KOMATSU MIT 60° KONUS (NACH JIS B 8363, GESTIFTETE MUTTER)
 FEMMINA METRICA GIAPPONESE CONO 60° TIPO KOMATSU JIS B 8363 (DADO SPINATO)

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

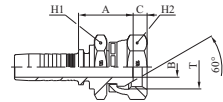
JIS BSP FEMALE 60° CONE SEAT (TOYOTA) - JIS B 8363 (CRIMPED-BACK NUT)
 HEMBRA JIS BSP ASIEN TO A 60° (TOYOTA) - JIS B 8363 (TUERCA PRENSADA)
 DK TOYOTA MIT 60° KONUS MIT KONTERSECHSKANT (NACH JIS B 8363, PRESSMUTTER)
 FEMMINA GAS GIAPPONESE CONO 60° TIPO TOYOTA JIS B 8363 (DADO PRESSATO)



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

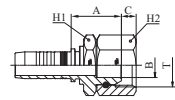
M20711

JIS BSP FEMALE 60° CONE (NISSAN) - JIS B 8363 (CRIMPED-BACK NUT)
 HEMBRA JIS BSP ASIEN TO 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 ASIEN TO A 60° (NISSAN) - JIS B 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

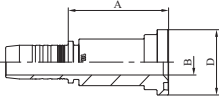
M24111

STRAIGHT KOMATSU FLANGE

BRIDA RECTA KOMATSU

FLANSCH GERADE KOMATSU

FLANGIA DRITTA SERIE KOMATSU



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

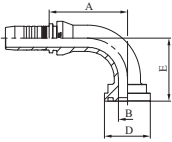
M24191

90° KOMATSU FLANGE

BRIDA KOMATSU CODO DE 90°

FLANSCH 90° BOGEN KOMATSU

FLANGIA 90° SERIE KOMATSU



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	C	E		
M24191-10-10	16	5/8"	- 10	5/8"	14,0	56,0	34,0	47,5		
M24191-12-10	19	3/4"	- 12	5/8"	14,0	56,0	34,0	47,5		

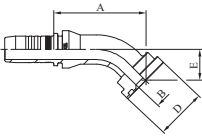
M24141

45° KOMATSU FLANGE

BRIDA KOMATSU CODO DE 45°

FLANSCH 45° BOGEN KOMATSU

FLANGIA 45° SERIE KOMATSU



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	C	E		
M24141-10-10	16	5/8"	- 10	5/8"	14,0	61,0	34,0	22,0		

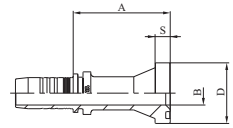
MULTIFIT TYPE



ORIGINAL EQUIPMENT CONNECTIONS

M23911

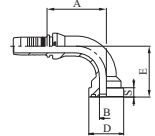
STRAIGHT SUPERCAT FLANGE
BRIDA RECTA SUPERCAT
FLANSCH GERADE SUPERCAT
FLANGIA DITTA SERIE SUPERCAT



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

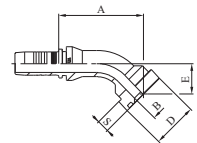
90° SUPERCAT FLANGE
BRIDA SUPERCAT CODO DE 90°
FLANSCH 90° BOGEN SUPERCAT
FLANGIA 90° SERIE SUPERCAT



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

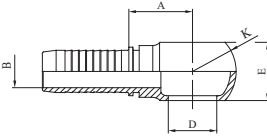
O20310

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

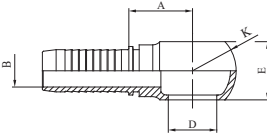
O20910

METRIC BANJO - DIN 7642

BANJO METRICO - DIN 7642

RINGNIPPEL, METRISCH - DIN 7642

OCCHIELLO METRICO - DIN 7642



PART. REF.	HOSE BORE			MATIC 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

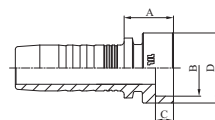
M..IP

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		

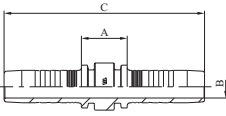
M10050

DOUBLE CONNECTOR

CONECTOR DOBLE

SCHLAUCHVERBINDER - DOPPELNIPPEL

DOPPIO INSERTO

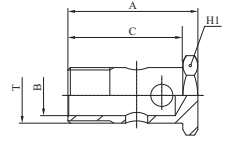


PART. REF.	HOSE BORE			DIMENSIONS mm						
	DN	inch	Size	B	A	C				
M10050-03-03	5	3/16"	- 03	3,0	15,5	58,5				
M10050-04-04	6	1/4"	- 04	4,0	14,0	69,0				
M10050-05-05	8	5/16"	- 05	5,5	14,0	70,0				
M10050-06-06	10	3/8"	- 06	7,0	14,7	73,5				
M10050-08-08	12	1/2"	- 08	9,3	15,8	78,0				
M10050-10-10	16	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

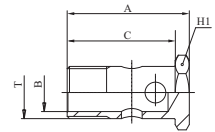
BSP BOLT
 TORNILLO PASADOR BSP
 HOHLSCHRAUBE ZÖLLIG
 VITE GAS FORATA



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	

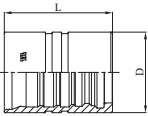
O80810

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	

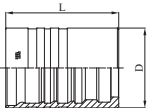
M01500



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				

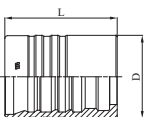
M01600



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				

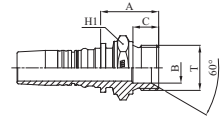
INTERLOCK PLUS TYPE



BS STANDARD CONNECTIONS

M30510

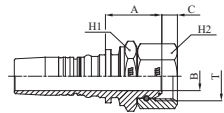
BSP MALE PARALLEL 60° CONE SEAT - BS5200 / ISO 8434-6
 MACHO BSP PARALELO ASIENTO A 60° - BS5200 / ISO 8434-6
 AGR 60° INNENKONUS - BS5200/ISO 8464-6
 MASCHIO GAS CILINDRICO CONO 60° - BS5200 / ISO 8434-6



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	H1	
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	

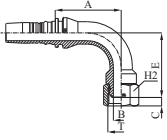
M40812

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	H1	H2
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

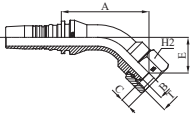
M40892



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

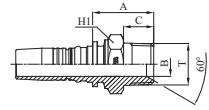
INTERLOCK PLUS TYPE



SAE STANDARD CONNECTIONS

M32810

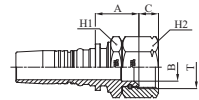
NPTF MALE 60° CONE SEAT - SAE J516/J514
 MACHO NPTF ASIENTO A 60° - SAE J516/J514
 AGN 60° INNENKONUS (NPTF-GEWINDE) - SAE J516/J514
 MASCHIO NPTF CONO 60° - SAE J516/J514



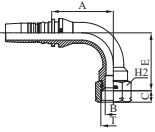
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm				
	DN	inch	Size		T	B	A	C	H1
M32810-12-12	19	3/4"	- 12	3/4" - 14	16,0	42,9	19,2	32	
M32810-16-16	25	1"	- 16	1" - 11,5	19,5	49,3	24,2	41	
M32810-20-20	31	1.1/4"	- 20	1.1/4" - 11,5	26,0	61,0	25,0	46	
M32810-24-24	38	1.1/2"	- 24	1.1/2" - 11,5	32,0	62,6	26,0	50	
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	H1	H2
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	

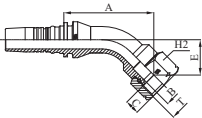


M42592

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)
 JDJK 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

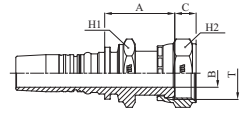
INTERLOCK PLUS TYPE



SAE STANDARD CONNECTIONS

M42411

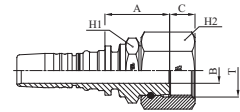
ORFS FEMALE - SAE J516 / ISO 12151-1 PULLBACK TYPE (CRIMPED BACK-NUT)
 HEMBRA ORFS - SAE J516 / ISO 12151-1 CUELLO LARGO (TUERCA Prensada)
 ORFS IG - SAE J516 / ISO 12151-1 RÜCKZUGSAUSFÜHRUNG (VERPRESSTE MUTTER)
 FEMMINA ORFS - SAE J516 / ISO 12151-1 VERSIONE RETRAIBILE (DADO PRESSATO)



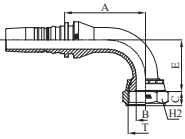
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	H ₁	H ₂
M42411-10-10	16	5/8"	- 10	1" - 14	11,5	39,5	13,5		24	30
M42411-12-12	19	3/4"	- 12	1.3/16" - 12	14,5	45,9	14,5		32	36
M42411-12-16	19	3/4"	- 12	1.7/16" - 12	19,0	46,5	15,0		36	41
M42411-16-12	25	1"	- 16	1.3/16" - 12	14,5	47,5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



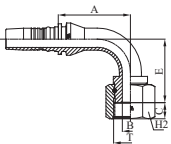
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	H ₁	H ₂
M42412-12-12	19	3/4"	- 12	1.3/16" - 12	14,5	37,0	14,0		32	36
M42412-16-16	25	1"	- 16	1.7/16" - 12	19,5	42,0	15,0		41	46
M42412-20-20	31	1.1/4"	- 20	1.11/16" - 12	25,0	52,0	15,0		50	55
M42412-24-24	38	1.1/2"	- 24	2" - 12	31,0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

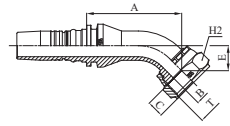
INTERLOCK PLUS TYPE



SAE STANDARD CONNECTIONS

M42441

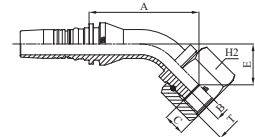
45° ORFS FEMALE SWEPT ELBOW - SAE J516 / ISO 12151-1 (CRIMPED BACK-NUT)
 HEMBRA ORFS CODO DE 45° CARA PLANA - SAE J516 / ISO 12151-1 (TUERCA PRENSADA)
 DK ORFS 45° - SAE J516 / ISO 12151-1 (PRESSMUTTER)
 FEMMINA ORFS 45° - SAE J516 / ISO 12151-1 (DADO PRESSATO)



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 (GESHFTEDE 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

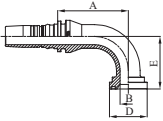
M43310



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		

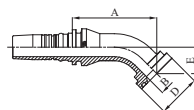
INTERLOCK PLUS TYPE



SAE STANDARD CONNECTIONS

M43340

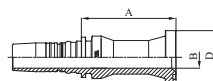
45° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3
 BRIDA CODO 45° ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3
 SAE FLANSCH 45° BOGEN - SAE J516 / ISO 12151-3
 FLANGIA 45° ISO/SAE CODE 61 - SAE J516 / ISO 12151-3



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

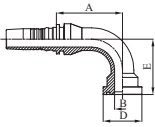
M43610

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	E
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	

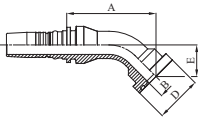
M43690



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		

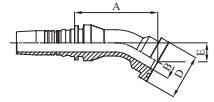
INTERLOCK PLUS TYPE



SAE STANDARD CONNECTIONS

M43630

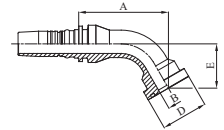
30° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3
 BRIDA CODO 30° ISO/SAE CODIGO 62 - SAE J516 / ISO 12151-3
 30° ISO/SAE CODE 62 FLANSCH - SAE J516 / ISO 12151-3
 FLANGIA 30° ISO/SAE CODE 62 - SAE J516 / ISO 12151-3



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		

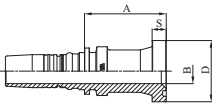
M43660

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

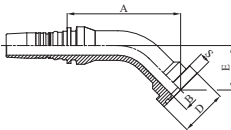


FLANGE PLUS (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE)
 BRIDA PLUS (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2)
 GERADER FLANSCH SCHWERE REIHE (SAE J518 CODE 62 - ISO 6162-2 KOMPATIBLER ANSCHLUSS)
 FLANGIA PLUS (COMPATIBLE CON PORTA SAE J518 CODE 62 / ISO 6162-2)

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				
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	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		

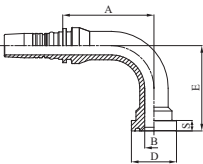
M43740



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				
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	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				
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	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	

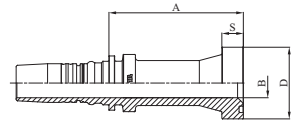
INTERLOCK PLUS TYPE



ORIGINAL EQUIPEMENT CONNECTIONS

M43910

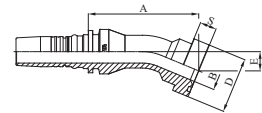
STRAIGHT SUPERCAT SERIES FLANGE
BRIDA RECTA SUPERCAT
FLANSCH GERADE SUPERCAT
FLANGIA DRTTA SERIE SUPERCAT



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

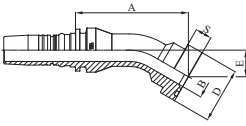
22,5° SUPERCAT SERIES FLANGE
CODO 22,5° BRIDA SERIE SUPERCAT
22,5° FLANSCH SERIE SUPERCAT
FLANGIA 22,5° SERIE SUPERCAT



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

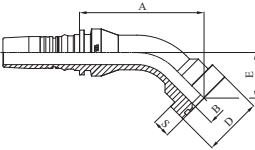
30° SUPERCAT SERIES FLANGE
 CODO 30° BRIDA SERIE SUPERCAT
 30° FLANSCH SERIE SUPERCAT
 FLANGIA 30° SERIE SUPERCAT



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

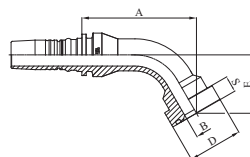
INTERLOCK PLUS TYPE



ORIGINAL EQUIPEMENT CONNECTIONS

M43960

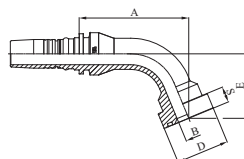
60° SUPERCAT SERIES FLANGE
 CODO 60° BRIDA SERIE SUPERCAT
 60° FLANSCH SERIE SUPERCAT
 FLANGIA 60° SERIE SUPERCAT



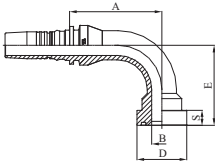
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				
	DN	inch	Size		B	A	D	E	S
M43960-12-12	19	3/4"	- 12	3/4"	16,0	101,5	41,5	44,0	14,3
M43960-12-16	19	3/4"	- 12	1"	20,0	106,5	47,7	48,0	14,3
M43960-16-16	25	1"	- 16	1"	20,0	122,0	47,7	51,0	14,3
M43960-16-16055	25	1"	- 16	1"	20,0	117,5	47,7	55,0	14,3
M43960-16-20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



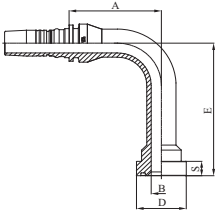
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				
	DN	inch	Size		B	A	D	E	S
M43970-12-12	19	3/4"	- 12	3/4"	16,0	95,5	41,5	49,5	14,3
M43970-12-16	19	3/4"	- 12	1"	20,0	100,0	47,7	54,0	14,3
M43970-16-16	25	1"	- 16	1"	20,0	115,0	47,7	58,0	14,3
M43970-16-20	25	1"	- 16	1.1/4"	26,0	115,0	54,0	62,0	14,3
M43970-20-20	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	135,5	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

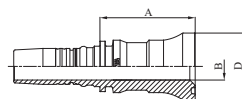
INTERLOCK PLUS TYPE



XTRAFLANGE

M48510

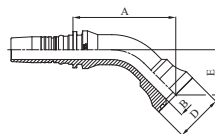
XTRAFLANGE (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE)
 BRIDA XTRAFLANGE (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2)
 XTRAFLANSCH GERADE (SAE J518 CODE 62 - ISO 6162-2 KOMPATIBLER ANSCHLUSS)
 XTRAFLANGIA (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				WEIGHT
	DN	inch	Size		B	A	D	E	
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

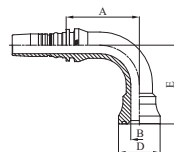
45° XTRAFLANGE (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE)
 BRIDA CODO 45° XTRAFLANGE (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2)
 45°-BOGEN XTRAFLANSCH (SAE J518 CODE 62 - ISO 6162-2 KOMPATIBLER ANSCHLUSS)
 XTRAFLANGIA 45° (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				WEIGHT
	DN	inch	Size		B	A	D	E	
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

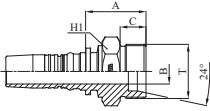
M48590

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	
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

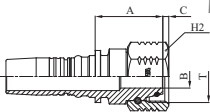


METRIC MALE 24° CONE SEAT HEAVY DUTY - DIN 20066 / ISO 12151-2
 MACHO METRICO ASIENTO A 24° - SERIE PESADA DIN 20066 / ISO 12151-2
 CES - DIN 20066 / ISO 12151-2
 MASCHIO METRICO 24° - SERIE PESANTE DIN 20066 / ISO 12151-2

PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm				
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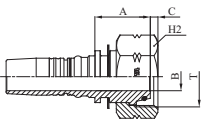
	DN	inch	Size	T	mm	B	A	C	H1
M31210-10-30	16	5/8"	- 10	M 30x2	20	12,0	36,8	16,0	30
M31210-12-30	19	3/4"	- 12	M 30x2	20	14,5	38,5	16,0	32
M31210-12-36	19	3/4"	- 12	M 36x2	25	14,5	43,4	18,0	36
M31210-16-36	25	1"	- 16	M 36x2	25	19,5	45,0	18,0	36
M31210-16-42	35	1"	- 16	M 42x2	30	19,5	46,8	20,0	46
M31210-20-52	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				
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	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

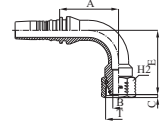
INTERLOCK PLUS TYPE



DIN STANDARD CONNECTIONS

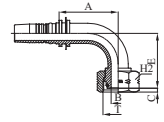
M41692

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)



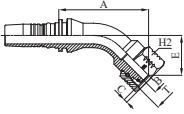
M41693

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)



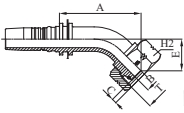
PART. REF.	HOSE BORE		THREAD	PIPE	DIMENSIONS mm						
	DN	inch			Size	T	mm	B	A	C	E
M41693-10-30	16	5/8"	- 10	M 30x2	20	12,0	52,5	3,5	57,5		36
M41692-12-30	19	3/4"	- 12	M 30x2	25	12,5	63,8	3,2	68,5		36
M41693-12-36	19	3/4"	- 12	M 36x2	25	14,5	67,0	3,4	67,5		41
M41692-16-36	25	1"	- 16	M 36x2	25	16,0	81,7	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 SWEPT ELBOW 24° CONE HEAVY DUTY
 DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT)
 HEMBRA METRICA CON O-RING CODO DE 45° CONO 24° SERIE PESADA
 DIN 20066 / ISO 12151-2 (TUERCA CON SEGURO)
 DKOS 45° BOGEN - DIN 20066 / ISO 12151-2 (GESTIFTETE MUTTER)
 FEMMINA METRICA 45° CONO 24° O-RING SERIE PESANTE DIN 20066 / ISO 12151-2 (DADO SPINATO)

M41643



45° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY
 DIN 20066 / ISO 12151-2 (SLIP-ON NUT)
 HEMBRA METRICA CON O-RING CODO DE 45° ASIENTO A 24° SERIE PESADA
 DIN 20066 / ISO 12151-2 (TUERCA LIBRE)
 DKOS 45° BOGEN - DIN 20066 / ISO 12151-2 (HINTERLEGTE MUTTER)
 FEMMINA METRICA 45° CONO 24° O-RING SERIE PESANTE DIN 20066 / ISO 12151-2 (DADO PASSANTE)

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

INTERLOCK PLUS TYPE



DIN STANDARD CONNECTIONS

M41293

90° METRIC O-RING FEMALE MEDIUM/LONG DROP ELBOW 24° CONE HEAVY DUTY

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

CODO 90° METRICO MEDIO/LARGO 24° O-RING SERIE PESADA

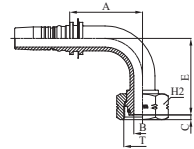
DIN 20066 / ISO 12151-2 (TUERCA CON PASADOR)

90° BOGEN O-RING METRISCH 24° KONUS H.T.

DIN 20066 / ISO 12151-2 (HINTERLEGTE MUTTER)

FEMMINA METRICA O-RING SERIE PESANTE CONO 24° CURVA 90° MEDIO/LUNGA

DIN 20066 / ISO 12151-2 (DADO PASSANTE)



PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size	T	mm	B	A	C	E		H ₂
M41293-10-30	16	5/8"	- 10	M 30x2	20	12,0	53,0	3,5	60,0		36
M41293-12-36	19	3/4"	- 12	M 36x2	25	14,5	67,0	3,4	67,5		41
M41293-16-42	25	1"	- 16	M 42x2	30	19,5	81,5	5,3	86,0		50
M41293-20-52	31	1.1/4"	- 20	M 52x2	38	26,1	100,0	8,0	92,0		60

M41243

45° METRIC O-RING FEMALE MEDIUM/LONG DROP ELBOW 24° CONE HEAVY DUTY

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

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

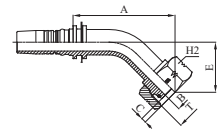
DIN 20066 / ISO 12151-2 (TUERCA CON PASADOR)

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

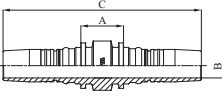
DIN 20066 / ISO 12151-2 (DADO PASSANTE)



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

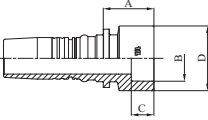
DOUBLE CONNECTOR
CONNECTOR DOBLE
DOPPELVERBINDER
DOPPIO INSERTO



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

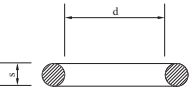
WELDING TAIL
ESPIGA SOLDABLE
VERSCHWEISSNIPPEL
INSERTO A SALDARE



PART. REF.	HOSE BORE			THREAD	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 OPCIONAL
OPTIONAL INTERLOCK PLUS O-RING
O-RING INTERLOCK PLUS OPZIONALE



PART. REF.	HOSE BORE			O-RING SIZE (dxs mm)	MATERIAL
	DN	inch	Size		
JO29171318	16	5/8"	- 10	13,20x1,80	NBR 90 Shore A
JO29191618	19	3/4"	- 12	15,60x1,78	NBR 90 Shore A
JO29262218	25	1"	- 16	21,95x1,78	NBR 90 Shore A
JO29322818	31	1.1/4"	- 20	28,30x1,78	NBR 90 Shore A
JO29383518	38	1.1/2"	- 24	34,65x1,78	NBR 90 Shore A
JO29514718	51	2"	- 32	47,35x1,78	NBR 90 Shore A

DIAMONDSPIR HOSE RANGE

M01750

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

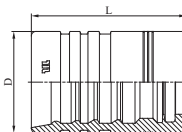
CASQUILLOS DE PELADO INTERNO Y EXTERNO PARA MANGUERAS

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)

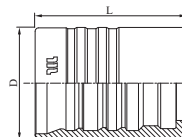
CASQUILLOS DE PELADO INTERNO Y EXTERNO PARA MANGUERAS

CON REFUERZO EN ESPIRAL (6 ESPIRALES)

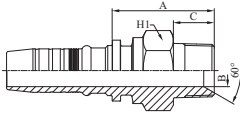
PRESSFASSUNG FÜR INNEN- UND AUSSENSCHÄLUNG FÜR SPEZIAL-SPIRALSCHLÄUCHE (6-LAGIG)

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	C	H ₁
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 ASIENTO A 60° - SAE J516/J514

AG NPTF KONUS 60° - SAE J516/J514

MASCHIO NPTF CONO 60° - SAE J516/J514

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm			
	DN	inch	Size		T	B	A	C
M52810-12-12	19	3/4"	12	3/4" - 14	15,0	49,4	21,0	32
M57810-16-16	25	1"	- 16	1" - 11.5	19,0	60,4	24,2	41
M57810-20-20	31	1.1/4"	- 20	1.1/4" - 11.5	26,1	63,9	28,0	46
M57810-24-24	38	1.1/2"	- 24	1.1/2" - 11.5	32,1	70,4	30,0	55
M57810-32-32	51	2"	- 32	2" - 11.5	42,0	75,5	35,0	70
M57810-40-40	63	2.1/2"	- 40	2.1/2" - 8	55,4	94,5	43,0	80
M57810-48-48	76	3"	- 48	3" - 8	62,5	123,5	51,5	100

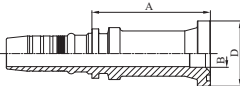
M68610

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

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

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

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



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm			
	DN	inch	Size		B	A	D	
M68610-12-12	19	3/4"	-12	3/4"	16,0	74,0	41,4	
M68610-16-16	25	1"	- 16	1"	20,0	86,0	47,7	
M68610-20-20	31	1.1/4"	- 20	1.1/4"	26,0	91,0	54,2	
M68610-24-24	38	1.1/2"	- 24	1.1/2"	32,0	97,5	63,7	
M68610-32-32	51	2"	- 32	2"	42,0	112,5	79,6	
M68610-32-40 *	51	2"	- 32	2.1/2"	51,5	124,0	107,8	
M68610-40-32	63	2.1/2"	- 40	2"	41,0	115,0	79,6	
M68610-40-40 *	63	2.1/2"	- 40	2.1/2"	51,5	127,0	107,8	
M68610-48-48 *	76	3"	- 48	3"	63,0	167,0	131,9	

* Manuli specification / Manuli spezifikation / Especificación Manuli / Specifica Manuli

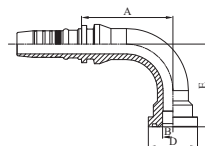
XTRALOCK TYPE



DIAMONDSPIR HOSE RANGE

M68690

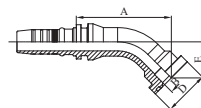
90° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3
 BRIDA 90° ISO/SAE CODIGO 62 - SAE J516 / ISO 12151-3
 90° ISO/SAE CODE 62 FLANSCH - SAE J516 / ISO 12151-3
 FLANGIA 90° ISO/SAE CODE 62 - SAE J516 / ISO 12151-3



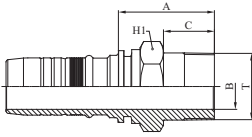
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm			
	DN	inch	Size		B	A	D	E
M68690-12-12	19	3/4"	-12	3/4"	16,0	75,0	41,4	59,0
M68690-16-16	25	1"	-16	1"	20,0	89,0	47,7	80,0
M68690-20-20	31	1.1/4"	-20	1.1/4"	24,0	110,0	54,2	93,0
M68690-24-24	38	1.1/2"	-24	1.1/2"	38,5	125,0	63,7	110,0
M68690-32-32	51	2"	-32	2"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

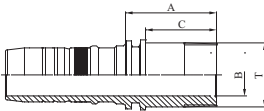


PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm			
	DN	inch	Size		B	A	D	E
M68640-16-16	25	1"	-16	1"	20,0	98,5	47,7	38,0
M68640-20-20	31	1.1/4"	-20	1.1/4"	24,0	121,5	54,2	43,5
M68640-24-24	38	1.1/2"	-24	1.1/2"	38,5	136,0	63,7	50,0
M68640-32-32	51	2"	-32	2"	42,0	160,0	79,6	61,0



M53410

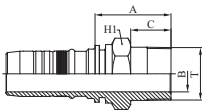
API MALE WITH HEXAGONAL BODY (API 5B THREAD)
 MACHO API CON CUERPO HEXAGONAL (ROSCA API 5B)
 VERBINDER API SECHSKANT (API 5B GEWINDE)
 MASCHIO API CON CORPO ESAGONALE (FILETTATURA API 5B)



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

XTRAFLLANGE

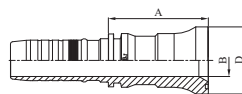
M68510

XTRAFLLANGE (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE)

BRIDA RECTA XTRAFLLANGE (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2)

XTRAFLLANSCH GERADE (SAE J518 CODE 62 / ISO 6162-2 KOMPATIBLER ANSCHLUSS)

XTRAFLLANGIA (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		
M68510-16-16	25	1"	- 16	1"	20,0	69,5	47,7	bar	kg
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

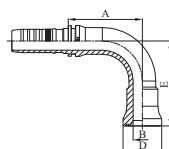
M68590

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

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

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

XTRAFLLANGIA 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		
M68590-16-16	25	1"	- 16	1"	20,0	84,2	47,7	90,0	bar	kg
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

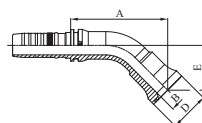
M68540

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

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

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

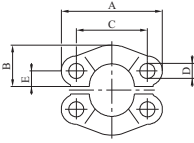
XTRAFLLANGIA 45° (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				W.P.	WEIGHT
	DN	inch	Size		B	A	D	E		
M68540-16-16	25	1"	- 16	1"	20,0	103,0	47,7	45,0	bar	kg
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

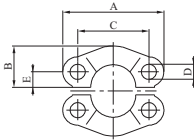
ISO/SAE CODE 61 SPLIT FLANGE CLAMPS - SAE J518 / ISO 6162-1
 SEMIBRIDA ISO/SAE CODIGO 61 - SAE J518 / ISO 6162-1
 ISO/SAE CODE 61 ZWEIFELIGER GEGENFLANSCH - SAE J518 / ISO 6162-1
 SEMIFLANGIA ISO/SAE CODE 61 - SAE J518 / ISO 6162-1



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 ZWEIFELIGER 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

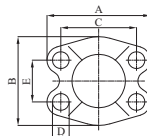
O83607

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

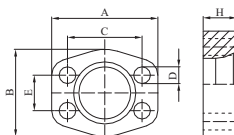
O88507

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

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

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

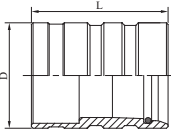
SEMIFLANGIA INTERA XTRAFRANGIA ISO 6162-2 / SAE J518 COMPATIBILE CON PORTA CODE 62



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

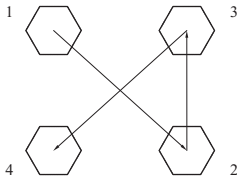
M437x0 - M686x0

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 LENGTH (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 LENGTH (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

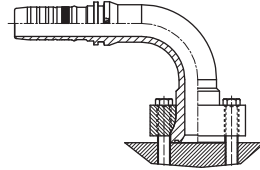
SCREWS HAVE TO BE TORQUED WITH THE FOLLOWING SCHEME:
 LOS TORNILLOS DEBEN SER AJUSTADOS DE ACUERDO AL SIGUIENTE ESQUEMA:
 SCHRAUBEN SOLLTEN GEMÄSS FOLGENDER SKIZZE ÜBER KREUZ ANGEZOGEN WERDEN:
 I BULLONI DEVONO ESSERE LEGGERMENTE SERRATI SEGUENDO LO SCHEMA SEGUENTE:



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.

XTRAFLANGE ASSEMBLING SCHEME:
 ESQUEMA PARA ENSAMBLAR UN XTRAFLANGE:
 XTRAFLANSCHE ANBAUSKIZZE:
 SCHEMA D'ASSEMBLAGGIO DELLE XTRAFLANGE:



Um Beschädigungen und Spannungen an Vollflanschen, Flanschhälften und Flanschen selbst zu vermeiden, ist es wichtig, alle Schrauben zuerst nur handfest, gleichmässig anzuziehen, bevor sie mit dem empfohlenen Drehmoment festgezogen werden.

È importante che tutti i bulloni siano leggermente avvitati prima di applicare i valori di serraggio finali raccomandati al fine di evitare: • disallineamenti tra flange e controflange (clamps) • danneggiare le mezze controflange durante l'installazione.

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.

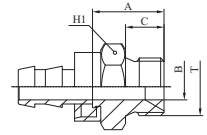
PUSH-LOCK TYPE



BS STANDARD CONNECTIONS

L10510

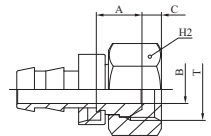
BSP MALE PARALLEL 60° CONE SEAT - BS5200/ISO 8434-6
 MACHO BSP PARALELO ASIENTO A 60° - BS5200/ISO 8434-6
 AGR 60° INNENKONUS (BSP-GEWINDE) - BS5200/ISO 8434-6
 MASCHIO GAS CILINDRICO - BS5200/ISO 8434-6



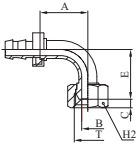
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	H ₁	
L10510-04-04	6	1/4"	- 04	1/4" - 19	5,0	18,9	11,0		19	
L10510-04-06	6	1/4"	- 04	3/8" - 19	8,0	21,0	12,0		22	
L10510-06-06	10	3/8"	- 06	3/8" - 19	8,0	21,0	12,0		22	
L10510-08-08	12	1/2"	- 08	1/2" - 14	11,0	25,0	14,0		27	
L10510-10-10	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	

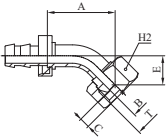


L20593*

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

