

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 Flanschmaturen nach OEM-Vorschriften sind ebenfalls verfügbar.

Für Drahtgeflechschläuche steht das MF2000® Programm mit Schäl-oder Nicht-Schäl-Technologie zur Verfügung, während für die Superhochdruckanwendungen das MF2000® InterlockPlusprogramm mit Innen und Außenschälung die optimale Lösung darstellt.

IT







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

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











MF2000® MULTIFIT TYPE FERRULE













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









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





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



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
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










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





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
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


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

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

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
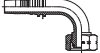




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
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M41642 	45° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT) HEMBRA METRICA CON O-RING CODO DE 45° CONO 24° SERIE PESADA DIN 20066 / ISO 12151-2 (TUERCA 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° 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)	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

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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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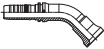
MF2000® XTRALOCK TYPE FERRULE

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 / ISO12151-3 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 / ISO12151-3 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 / ISO12151-3 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





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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° (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)	254

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O83308 	ISO/SAE CODE 61 SPLIT FLANGE CLAMPS - SAE J518 / ISO 6162-1 SEMIBRIDA ISO/SAE CODIGO 61 - SAE J518 / ISO 6162-1 ISO/SAE CODE 61 GETEILTE FLANSCHHÄLFTEN - SAE J518 / ISO 6162-1 SEMIFLANGIA ISO/SAE CODE 61- SAE J518 / ISO 6162-1	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 COMPATIBILE CON PORTA CODE 62	256
O820.. 	ANTI-KINK SLEEVE CASQUILLO ANTI-COLAPSO ABKNICKSCHUTZ-FÜHRUNG GHIERA ANTI-KINK	257

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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

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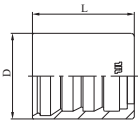
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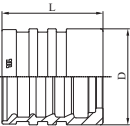
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M00110/M00120

SKIVE FERRULE FOR WIRE BRAID HOSES
 CASQUILLO CON PELADO PARA MANGUERAS CON TRENZA DE ACERO
 SCHÄLFASSUNG FÜR STAHLGEFLECHTSCHLÄUCHE
 GHIERA PER TUBI TRECCIATI CON PELATURA

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



M00910/M00920

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

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

FERRULE

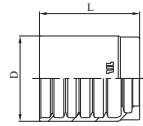
M03400

NO-SKIVE FERRULE FOR WIRE BRAID HOSES

CASQUILLO SIN PELADO PARA MANGUERAS CON TRENZA DE ACERO

NICHT-SCHÄLFASSUNG FÜR STAHLGEFLECHTSCHLÄUCHE

GHIERA PER TUBI TRECCIATI SENZA PELATURA

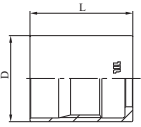


PART. REF.	HOSE BORE			DIMENSIONS mm					
	DN	inch	Size	D	L				
M03400-03	5	3/16"	- 03	21,0	23,0				
M03400-04	6	1/4"	- 04	23,0	30,1				
M03400-05	8	5/16"	- 05	24,0	30,0				
M03400-06	10	3/8"	- 06	26,0	31,1				
M03400-08	12	1/2"	- 08	29,0	33,4				
M03400-10	16	5/8"	- 10	33,0	37,0				
M03400-12	19	3/4"	- 12	37,0	42,0				
M03400-16	25	1"	- 16	46,0	51,0				
M03400-20	31	1.1/4"	- 20	59,0	57,2				
M03400-24	38	1.1/2"	- 24	67,0	64,8				
M03400-32	51	2"	- 32	80,0	68,3				
M03400-38	60	2.3/8"	- 38	82,5	69,0				
M03400-40	63	2. 1/2"	- 40	88,2	68,8				
M03400-48	76	3"	- 48	103,0	75,0				

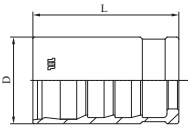
! Available no-skive ferrule for one braid hoses for DN 6 (M03100-04) and DN 10 (M03100-06).
 Disponible casquillo sin pelado para mangueras de una trenza para DN 6 (M03100-04) y DN 10 (M03100-06).
 Verfügbar hülsen ohne abschälen für 1-drahtgeflechschläuche für DN 6 (M03100-04) und DN 10 (M03100-06)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

M00310

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



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



M00820/M00830

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

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

new
new

MULTIFIT TYPE



BS STANDARD CONNECTIONS

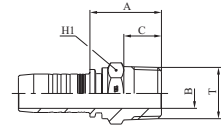
M10710

BSP MALE TAPERED - ISO 7

MACHO BSP (BSPT) ROSCA CONICA - ISO 7

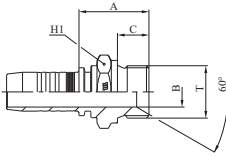
AGR KONISCH (BSPT GEWINDE NACH) - ISO 7

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

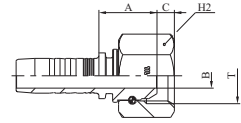
PART. REF.	HOSE BORE		THREAD	DIMENSIONS mm						
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	DN	inch	Size	T	B	A	C		H ₁	
M10510-03-02	5	3/16"	- 03	1/8" - 28	3,5	22,5	10,0		14	
M10510-03-04	5	3/16"	- 03	1/4" - 19	5,0	25,0	11,0		19	
M10510-04-02	6	1/4"	- 04	1/8" - 28	3,5	22,5	10,0		14	
M10510-04-04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

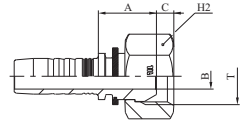
M20512

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)

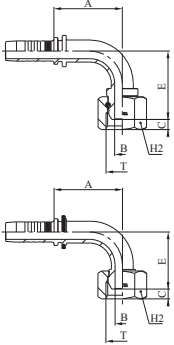


M20513

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

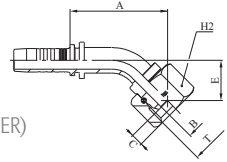
90° BSP FEMALE SWEPT ELBOW 60° CONE - BS5200 / ISO 12151-6 (SLIP-ON NUT)
 HEMBRA BSP CODO DE 90° ASIENTO A 60° - BS5200 / ISO 12151-6 (TUERCA LIBRE)
 DKR 90° BOGEN 60° KONUS - (BSP-GEWINDE NACH BS5200 / ISO 12151-6, HINTERLEGTE MUTTER)
 FEMMINA GAS 90° CONO 60° - BS5200 / ISO 12151-6 (DADO PASSANTE)

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

BS STANDARD CONNECTIONS

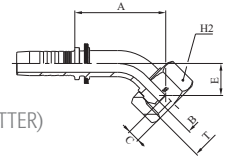
M20542

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



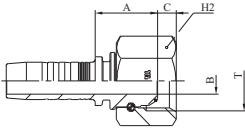
M20543

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



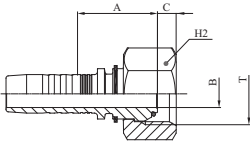
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	E	H ₂
M20542-03-02	5	3/16"	- 03	1/8" - 28	3,1	31,0	4,4	15,0		14
M20543-03-04	5	3/16"	- 03	1/4" - 19	4,0	35,5	5,4	14,5		19
M20542-04-02	6	1/4"	- 04	1/8" - 28	3,1	35,5	4,4	14,5		14
M20543-04-04	6	1/4"	- 04	1/4" - 19	4,0	36,0	5,4	15,0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

M20812



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

M20813



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

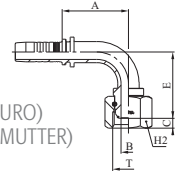
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	H ₂	

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

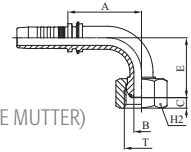
M20892

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)



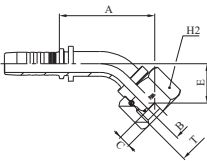
M20893

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)



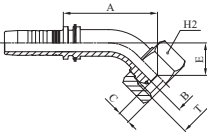
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	E	H ₂
M20893-03-04	5	3/16"	- 03	1/4" - 19	4,0	29,0	4,9	29,0		19
M20893-04-04	6	1/4"	- 04	1/4" - 19	4,0	28,5	4,9	28,5		19
M20892-06-04	10	3/8"	- 06	1/4" - 19	4,0	35,5	4,9	33,0		19
M20893-06-06	10	3/8"	- 06	3/8" - 19	7,0	35,5	6,1	36,0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



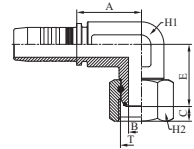
45° BSP O-RING FEMALE SWEPT ELBOW 60° CONE BS5200 / ISO 12151-6 (SLIP-ON NUT)
 HEMBRA BSP CON O-RING CODO DE 45° ASIENTO A 60°
 BS5200 / ISO 12151-6 (TUERCA LIBRE)
 DKOR 45° BOGEN 60° KONUS MIT O-RING
 (BSP-GEWINDE NACH BS5200 / ISO 12151-6, HINTERLEGTE MUTTER)
 FEMMINA GAS 45° CONO 60° O-RING
 BS5200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

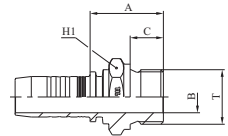
90° BSP O-RING FEMALE COMPACT ELBOW 60° CONE
 BS5200 / ISO 12151-6 (THRUST-WIRE NUT)
 HEMBRA BSP CON O-RING CODO COMPACTO DE 90° ASIENTO A 60°
 BS5200 / ISO 12151-6 (TUERCA CON SEGURO)
 DKOR 90° KOMPAKTBOGEN 60° KONUS MIT O-RING
 (BSP-GEWINDE NACH BS5200 / ISO 12151-6, GESTIFTETE MUTTER)
 FEMMINA GAS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



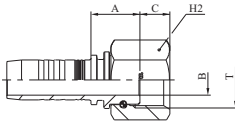
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	E	H ₁
M20882-04-04F	6	1/4"	- 04	1/4" - 19	4,0	20,0	4,9	22,0	14	19
M20882-06-06F	10	3/8"	- 06	3/8" - 19	7,0	23,1	6,1	27,5	19	22
M20882-08-08F	12	1/2"	- 08	1/2" - 14	9,3	24,9	6,5	31,1	22	27
M20882-10-10F	16	5/8"	- 10	5/8" - 14	12,5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

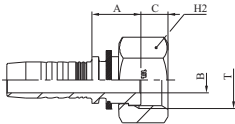


PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	H ₁	
M10610-04-04	6	1/4"	- 04	1/4" - 19	6,0	25,5	11,0		19	
M10610-06-06	10	3/8"	- 06	3/8" - 19	9,5	28,1	12,0		22	
M10610-06-08	10	3/8"	- 06	1/2" - 14	13,0	30,6	14,0		27	
M10610-08-08	12	1/2"	- 08	1/2" - 14	13,0	31,1	14,0		27	
M10610-12-12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

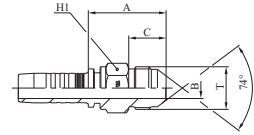
M12510

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

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

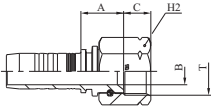
AGJ 37° AUSSENKONUS (UNF-GEWINDE NACH SAE J516 / ISO 12151-5)

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



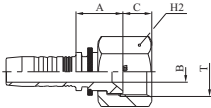
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm				
	DN	inch	Size		T	B	A	C	H1
M12510-04-04	6	1/4"	-04	7/16" - 20	4,0	28,0	14,0	12	
M12510-04-05	6	1/4"	-04	1/2" - 20	5,5	29,0	14,0	14	
M12510-04-06	6	1/4"	-04	9/16" - 18	7,0	29,0	14,0	17	
M12510-05-04	8	5/16"	-05	7/16" - 20	4,0	29,0	14,0	14	
M12510-05-05	8	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					
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	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

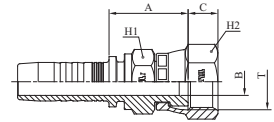
SAE STANDARD CONNECTIONS

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

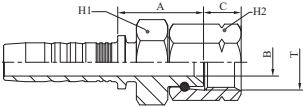
SAE J516 / ISO 12151-5 (TUERCA TIPO COMPACTO CON SEGURO)

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)

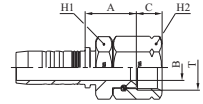
HEMBRA JIC ASIENTO A 37° DOBLE TUERCA SAE J516 / ISO 12151-5 (TUERCA CON SEGURO)

DKJ 37° DK MIT KONTERSECHSKANT

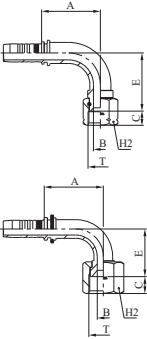
(UNF-GEWINDE NACH SAE J516 / ISO 12151-5, GESTIFTETE MUTTER)

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)

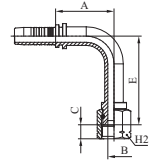
PART. REF.	HOSE BORE		THREAD	DIMENSIONS mm						
	DN	inch		T	B	A	C	E	H ₂	

	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

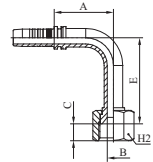
M24792

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)

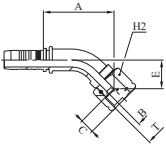


M24793

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)

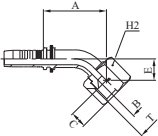


PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	E	H ₂
M24792-04-04	6	1/4"	- 04	7/16" - 20	4,0	28,5	8,2	45,0		17
M24792-04-05	6	1/4"	- 04	1/2" - 20	4,0	28,5	9,2	45,0		17
M24793-04-06	6	1/4"	- 04	9/16" - 18	4,0	29,5	9,8	55,5		19
M24792-06-06	10	3/8"	- 06	9/16" - 18	7,0	35,5	9,2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

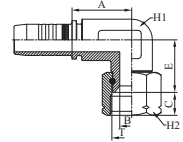
MULTIFIT TYPE



SAE STANDARD CONNECTIONS

M22582F

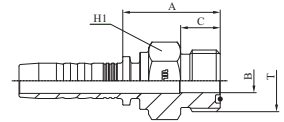
90° JIC FEMALE COMPACT ELBOW 37° CONE SEAT
 SAE J516 / ISO 12151-5 (THRUST-WIRE NUT)
 HEMBRA JIC CODO COMPACTO DE 90° ASIENTO A 37°
 SAE J516 / ISO 12151-5 (TUERCA CON SEGURO)
 DKJ 90° KOMPAKT BOGEN 37° DICHTKOPF
 (UNF-GEWINDE NACH SAE J516 / ISO 12151-5, GESTIFTETE MUTTER)
 FEMMINA JIC 90° TIPO COMPATTO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

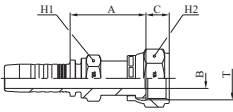
M12410

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)

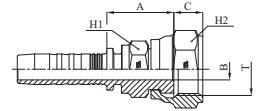
PART. REF.	HOSE BORE		THREAD	DIMENSIONS mm						
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	DN	inch	Size	T	B	A	C		H ₁	H ₂
M22411-04-04	6	1/4"	- 04	9/16" - 18	4,0	27,5	8,0		13	19
M22411-04-06	6	1/4"	- 04	11/16" - 16	7,0	30,0	9,5		16	22
M22411-04-08	6	1/4"	- 04	13/16" - 16	9,3	34,5	11,0		19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

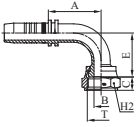
SAE STANDARD CONNECTIONS

M27411

ORFS FEMALE - SAE J516 / ISO 12151-1 SHORT TYPE (CRIMPED BACK-NUT)
 HEMBRA ORFS - SAE J516 / ISO 12151-1 CUELLO CORTO (TUERCA PENSADA)
 ORFS VERPRESSTE MUTTER - SAE J516 / ISO 12151-1
 KURZE AUSFÜHRUNG (CRIMPED BACK-NUT)
 FEMMINA ORFS - SAE J516 / ISO 12151-1 VERSIONE CORTA (DADO PRESSATO)

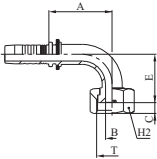


PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	H ₁	H ₂
M27411-04-04	6	1/4"	- 04	9/16" - 18	4,0	20,5	8,0		13	19
M27411-04-06	6	1/4"	- 04	11/16" - 16	7,0	22,0	9,5		16	22
M27411-05-06	8	5/16"	- 05	11/16" - 16	7,0	25,5	9,5		16	22
M27411-06-06	10	3/8"	- 06	11/16" - 16	7,0	26,0	9,5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

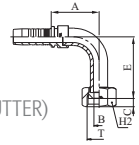
M24493*

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)



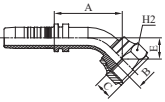
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
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	DN	inch	Size	T	B	A	C	E		H ₂
M24493-04-04	6	1/4"	- 04	9/16" - 18	4,4	24,5	8,2	45,5		17
M24493-04-06	6	1/4"	- 04	11/16" - 16	7,0	24,5	9,5	53,5		22
M24493-06-06	10	3/8"	- 06	11/16" - 16	7,0	31,5	9,5	53,5		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

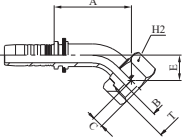
M22441

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

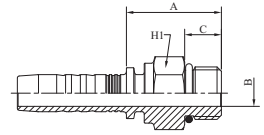
M13010

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	

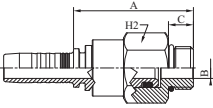
M14310*

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		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

SAE STANDARD CONNECTIONS

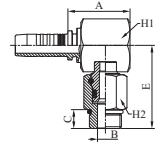
M14390*

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 soldadura - Da non usare come applicazione rotante

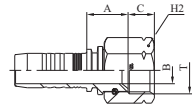
M22612

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

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

DKJ 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

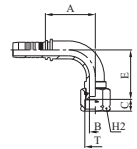
M22692

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

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

DKJ 90° BOGEN 45° KONUS (UNF-GEWINDE NACH SAE J516/J512, GESTIFTETE MUTTER)

FEMMINA SAE 90° CONO 45° - SAE J516/J512 (DADO SPINATO)



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	E	H ₂
M22692-04-04	6	1/4"	- 04	7/16" - 20	4,0	28,3	8,0	27,0		17
M22692-06-06	10	3/8"	- 06	5/8" - 18	7,0	35,5	10,8	33,0		22
M22692-12-12	19	3/4"	- 12	1.1/6" - 14	15,0	62,0	14,4	58,0		32

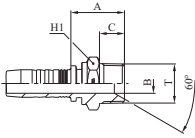
M12810

NPTF MALE 60° CONE SEAT - SAE J516/J514

MACHO NPTF ASIENTO A 60° - SAE J516/J514

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

MASCHIO NPTF CONO 60° - SAE J516 /J514



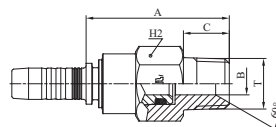
PART. REF.	HOSE BORE		THREAD	DIMENSIONS mm			
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	DN	inch	Size	T	B	A	C	H ₁
M12810-03-02	5	3/16"	- 03	1/8" - 27	4,0	23,6	10,0	12
M12810-03-04	5	3/16"	- 03	1/4" - 18	5,5	29,1	14,5	14
M12810-04-02	6	1/4"	- 04	1/8" - 27	4,0	24,1	10,0	12
M12810-04-04	6	1/4"	- 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

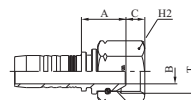


PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	H ₂	
M14110-04-02R	6	1/4"	- 04	1/8" - 27	3,0	41,9	10,0		17	
M14110-04-04R	6	1/4"	- 04	1/4" - 18	4,0	46,4	14,5		17	
M14110-04-06R	6	1/4"	- 04	3/8" - 18	7,0	46,4	14,5		19	
M14110-06-04R	10	3/8"	- 06	1/4" - 18	4,0	50,5	14,5		22	
M14110-06-06R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

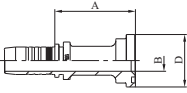
NPSM FEMALE 60° CONE - SAE J516/J514 (THRUST-WIRE NUT)
 HEMBRA NPSM ASIEN TO A 60° - SAE J516/J514 (TUERCA CON SEGURO)
 DK NPSM 60° KONUS - SAE J516/J514 (NPTF-GEWINDE, GESTIFTETE MUTTER)
 FEMMINA NPSM CONO 60° - SAE J516/J514 (DADO SPINATO)



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

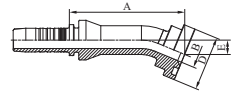
M23321

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

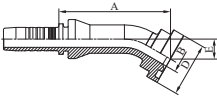


PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M23321-08-08	12	1/2"	- 08	1/2"	9,3	63,9	30,3	8,0		
M23321-12-12	19	3/4"	- 12	3/4"	15,0	74,7	38,0	9,8		
M23321-12-16	19	3/4"	- 12	1"	20,0	74,7	44,6	9,8		
M23321-16-16	25	1"	- 16	1"	19,8	88,8	44,6	11,5		
M23321-16-20	25	1"	- 16	1.1/4"	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

SAE STANDARD CONNECTIONS

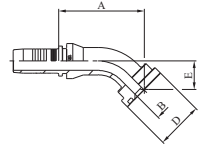
M23341

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



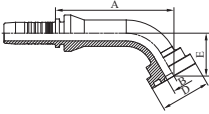
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm			
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	DN	inch	Size		B	A	D	E		
M23341-06-08	10	3/8"	- 06	1/2"	9,3	52,5	30,3	17,0		
M23341-08-08	12	1/2"	- 08	1/2"	9,3	58,5	30,3	18,5		
M23341-08-12	12	1/2"	- 08	3/4"	15,0	59,5	38,0	19,0		
M23341-08-16	12	1/2"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



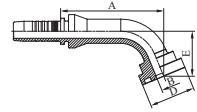
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M23361-08-08	12	1/2"	- 08	1/2"	9,3	71,5	30,3	25,8		
M23361-08-12	12	1/2"	- 08	3/4"	15,0	72,5	38,0	26,5		
M23361-12-12	19	3/4"	- 12	3/4"	15,0	86,9	38,0	33,0		
M23361-12-16	19	3/4"	- 12	1"	20,0	87,0	44,6	33,0		
M23361-16-16	25	1"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

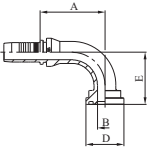
67,5° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3
 BRIDA 67,5° ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3
 67,5° ISO/SAE CODE 61 FLANSCH - SAE J516 / ISO 12151-3
 FLANGIA 67,5° ISO/SAE CODE 61 - SAE J516 / ISO 12151-3



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		

* 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

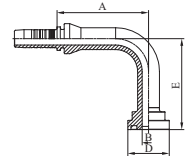
M23391 LONG DROP

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

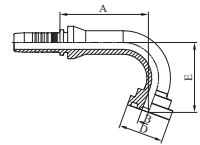
M23301P

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

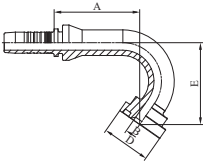
BRIDA 110° ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3

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

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



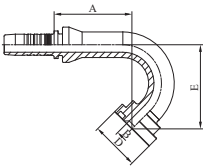
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm			
	DN	inch	Size		B	A	D	E
M23301-08-12P	12	1/2"	- 08	3/4"	15,0	47,5	38,0	48,5
M23301-12-12P	19	3/4"	- 12	3/4"	15,0	89,0	38,0	62
M23301-12-16P	19	3/4"	- 12	1"	20,0	89,0	44,6	62
M23301-16-16P	25	1"	- 16	1"	19,8	88,5	44,6	79
M23301-16-20133P	25	1"	- 16	1,1/4"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

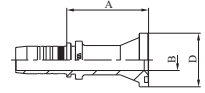
MULTIFIT TYPE



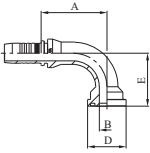
SAE STANDARD CONNECTIONS

M23611

ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3
 BRIDA ISO/SAE CODIGO 62 - SAE J516 / ISO 1215-3
 ISO/SAE CODE 62 FLANSCH - SAE J516/ISO 12151-3
 FLANGIA ISO/SAE CODE 62 - SAE J516 / ISO 12151-3



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D			
M23611-08-08	12	1/2"	- 08	1/2"	9,3	52,1	31,8			
M23611-08-12	12	1/2"	- 08	3/4"	15,0	68,4	41,5			
M23611-10-08	16	5/8"	- 10	1/2"	9,3	52,0	31,8			
M23611-10-12	16	5/8"	- 10	3/4"	15,0	70,2	41,5			
M23611-10-16	16	5/8"	- 10	1"	20,0	80,0	47,7			
M23611-12-12	19	3/4"	- 12	3/4"	15,0	69,0	41,5			
M23611-12-16	19	3/4"	- 12	1"	20,0	81,0	47,7			
M23611-16-16	25	1"	- 16	1"	19,8	82,3	47,7			
M23611-16-20	25	1"	- 16	1.1/4"	26,0	89,8	54,2			
M23611-20-16	31	1.1/4"	- 20	1"	20,0	82,5	47,7			
M23611-20-20	31	1.1/4"	- 20	1.1/4"	26,0	84,5	54,2			
M23611-20-24	31	1.1/4"	- 20	1.1/2"	32,0	90,5	63,7			
M23611-24-24	38	1.1/2"	- 24	1.1/2"	32,0	92,6	63,7			
M23611-32-32	51	2"	- 32	2"	42,0	107,9	79,6			



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			
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	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		

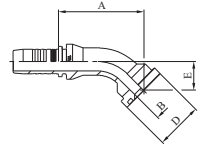
MULTIFIT TYPE



SAE STANDARD CONNECTIONS

M23641

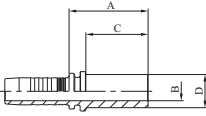
45° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3
 BRIDA 45° ISO/SAE CODIGO 62 - SAE J516 / ISO 12151-3
 45° ISO/SAE CODE 62 FLANSCH - SAE J516 / ISO 12151-3
 FLANGIA 45° ISO/SAE CODE 62 - SAE J516 / ISO 12151-3



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm					
	DN	inch	Size		B	A	D	E		
M23641-08-08	12	1/2"	- 08	1/2"	9,3	62,0	31,8	22,0		
M23641-08-12	12	1/2"	- 08	3/4"	15,0	68,0	41,5	27,5		
M23641-10-08	16	5/8"	- 10	1/2"	9,3	62,5	31,8	23,5		
M23641-10-12	16	5/8"	- 10	3/4"	15,0	67,5	41,5	31,0		
M23641-12-12	19	3/4"	- 12	3/4"	15,0	73,0	41,5	28,0		
M23641-12-16	19	3/4"	- 12	1"	20,0	77,0	47,7	32,5		
M23641-16-12	25	1"	- 16	3/4"	15,0	80,0	41,5	30,0		
M23641-16-16	25	1"	- 16	1"	19,8	83,5	47,7	32,5		
M23641-16-20	25	1"	- 16	1.1/4"	26,0	88,5	54,2	37,5		
M23641-20-20	31	1.1/4"	- 20	1.1/4"	26,0	95,5	54,2	37,5		
M23641-20-24	31	1.1/4"	- 20	1.1/2"	32,0	102,5	63,7	45,0		
M23641-24-24	38	1.1/2"	- 24	1.1/2"	32,0	118,0	63,7	44,0		
M23641-24-32	38	1.1/2"	- 24	2"	42,0	129,0	79,6	55,5		
M23641-32-32	51	2"	- 32	2"	42,0	151,5	79,6	60,5		

M22010

METRIC STANDPIPE LIGHT DUTY - DIN 2353 / ISO 8434-1
 ESPIGA LISA METRICA RECTA SERIE LIGERA - DIN 2353 / ISO 8434-1
 BEL - DIN 2353 / ISO 8434-1
 ESTREMITÀ TUBOLARE SERIE LEGGERA - DIN 2353 / ISO 8434-1

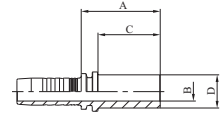


PART. REF.	HOSE BORE			PIPE	DIMENSIONS mm					
	DN	inch	Size		D	B	A	C		
M22010-03-04	5	3/16"	- 03	4	2,0	29,6	22,0			
M22010-03-06	5	3/16"	- 03	6	3,0	28,6	22,0			
M22010-04-06	6	1/4"	- 04	6	3,0	29,5	22,0			
M22010-05-08	8	5/16"	- 05	8	5,5	30,0	22,0			
M22010-05-10	8	5/16"	- 05	10	7,0	30,5	23,0			
M22010-06-10	10	3/8"	- 06	10	7,0	30,6	23,0			
M22010-06-12	10	3/8"	- 06	12	8,0	30,6	23,0			
M22010-06-15	10	3/8"	- 06	15	10,5	32,6	25,0			
M22010-08-12	12	1/2"	- 08	12	8,0	30,9	23,0			
M22010-08-15	12	1/2"	- 08	15	10,5	32,9	25,0			
M22010-08-18	12	1/2"	- 08	18	12,5	33,9	26,0			
M22010-10-18	16	5/8"	- 10	18	12,5	34,2	26,0			
M22010-10-22	16	5/8"	- 10	22	15,0	36,2	28,0			
M22010-12-18	19	3/4"	- 12	18	15,0	36,2	26,0			
M22010-12-22	19	3/4"	- 12	22	15,0	38,0	28,0			
M22010-16-28	25	1"	- 16	28	20,5	41,3	30,0			
M22010-20-35	31	1.1/4"	- 20	35	26,0	48,5	36,0			
M22010-24-42	38	1.1/2"	- 24	42	32,0	52,6	40,0			

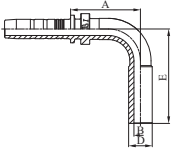
DIN STANDARD CONNECTIONS

M22110

METRIC STANDPIPE HEAVY DUTY - DIN 2353 / ISO 8434-1
 ESPIGA LISA METRICA RECTA SERIE PESADA - DIN 2353 / ISO 8434-1
 BES - DIN 2353 / ISO 8434-1
 ESTREMITÀ TUBOLARE SERIE PESANTE - DIN 2353 / ISO 8434-1



PART. REF.	HOSE BORE			PIPE	DIMENSIONS mm					
	DN	inch	Size		D	B	A	C		
M22110-03-08	5	3/16"	- 03	8	3,0	30,6	24,0			
M22110-03-10	5	3/16"	- 03	10	3,0	29,5	22,0			
M22110-04-08	6	1/4"	- 04	8	4,0	31,5	24,0			
M22110-04-10	6	1/4"	- 04	10	4,0	33,5	26,0			
M22110-04-12	6	1/4"	- 04	12	7,0	33,5	26,0			
M22110-05-12	8	5/16"	- 05	12	7,0	33,5	26,0			
M22110-06-14	10	3/8"	- 06	14	8,0	36,6	29,0			
M22110-08-14	12	1/2"	- 08	14	9,3	36,9	29,0			
M22110-08-16	12	1/2"	- 08	16	10,5	37,9	30,0			
M22110-10-20	16	5/8"	- 10	20	12,5	44,2	36,0			
M22110-12-20	19	3/4"	- 12	20	15,0	46,0	36,0			
M22110-12-25	19	3/4"	- 12	25	15,0	50,0	40,0			
M22110-16-25	25	1"	- 16	25	15,0	51,3	40,0			
M22110-16-30	25	1"	- 16	30	20,5	55,3	44,0			
M22110-16-38	25	1"	- 16	38	26,0	61,3	50,0			
M22110-20-30	31	1.1/4"	- 20	30	20,5	56,5	44,0			
M22110-20-38	31	1.1/4"	- 20	38	26,0	62,5	50,0			
M22110-24-38	38	1.1/2"	- 24	38	26,0	62,6	50,0			



M22090

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

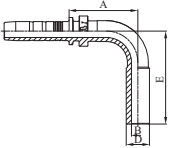
ESPIGA LISA METRICA SERIE LIGERA CODO DE 90° - DIN 2353 / ISO 8434-1

BEL 90° BOGEN - DIN 2353 / ISO 8434-1

ESTREMITÀ TUBOLARE 90° SERIE LEGGERA - DIN 2353 / ISO 8434-1

PART. REF.	HOSE BORE		PIPE	DIMENSIONS mm			
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	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

ESPIGA LISA METRICA SERIE PESADA CODO DE 90° - DIN 2353 / ISO 8434-1

BES 90° BOGEN - DIN 2353 / ISO 8434-1

ESTREMITÀ TUBOLARE 90° SERIE PESANTE - DIN 2353 / ISO 8434-1

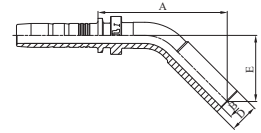
PART. REF.	HOSE BORE		PIPE	DIMENSIONS mm			
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	DN	inch	Size	D	B	A	E		
M22190-04-08	6	1/4"	- 04	8	4,0	27,0	38,0		
M22190-04-10	6	1/4"	- 04	10	6,0	27,0	41,0		
M22190-04-12	6	1/4"	- 04	12	7,0	27,0	44,0		
M22190-05-12	8	5/16"	- 05	12	7,0	30,5	44,0		
M22190-06-14	10	3/8"	- 06	14	9,3	35,0	51,0		
M22190-08-14	12	1/2"	- 08	14	9,3	42,0	53,5		
M22190-08-16	12	1/2"	- 08	16	10,5	43,0	55,0		
M22190-10-20	16	5/8"	- 10	20	12,5	49,0	66,5		
M22190-12-20	19	3/4"	- 12	20	15,0	54,5	69,0		
M22190-12-25	19	3/4"	- 12	25	15,0	57,5	75,0		
M22190-16-25	25	1"	- 16	25	15,0	61,5	76,5		
M22190-16-30	25	1"	- 16	30	19,8	69,5	87,0		

DIN STANDARD CONNECTIONS

M22040

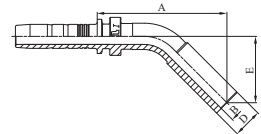
45° METRIC STANDPIPE LIGHT DUTY - DIN 2353 / ISO 8434-1
 ESPIGA LISA METRICA SERIE LIGERA CODO DE 45° - DIN 2353 / ISO 8434-1
 BEL 45° BOGEN - DIN 2353 / ISO 8434-1
 ESTREMITÀ TUBOLARE 45° SERIE LEGGERA - DIN 2353 / ISO 8434-1



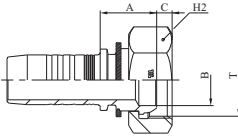
PART. REF.	HOSE BORE			PIPE	DIMENSIONS mm					
	DN	inch	Size		D	B	A	E		
M22040-03-06	5	3/16"	- 03	6	3,0	37,5		20,5		
M22040-04-06	6	1/4"	- 04	6	3,0	38,0		20,5		
M22040-05-10	8	5/16"	- 05	10	7,0	44,5		22,5		
M22040-06-10	10	3/8"	- 06	10	7,0	47,5		23,0		
M22040-06-12	10	3/8"	- 06	12	8,0	49,5		25,0		
M22040-08-15	12	1/2"	- 08	15	10,5	58,0		28,0		
M22040-10-18	16	5/8"	- 10	18	12,5	63,5		30,5		
M22040-12-22	19	3/4"	- 12	22	15,0	69,0		32,0		
M22040-16-28	25	1"	- 16	28	19,8	81,5		37,0		

M22140

45° METRIC STANDPIPE HEAVY DUTY - DIN 2353 / ISO 8434-1
 ESPIGA LISA METRICA SERIE PESADA CODO DE 45° - DIN 2353 / ISO 8434-1
 BES 45° BOGEN - DIN 2353 / ISO 8434-1
 ESTREMITÀ TUBOLARE 45° SERIE PESANTE - DIN 2353 / ISO 8434-1



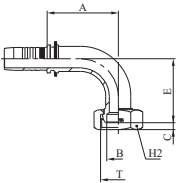
PART. REF.	HOSE BORE			PIPE	DIMENSIONS mm					
	DN	inch	Size		D	B	A	E		
M22140-04-08	6	1/4"	- 04	8	4,0	42,0		22,0		
M22140-04-10	6	1/4"	- 04	10	6,0	44,0		24,0		
M22140-06-14	10	3/8"	- 06	14	9,3	54,5		29,0		
M22140-08-16	12	1/2"	- 08	16	10,5	61,0		30,0		
M22140-10-20	16	5/8"	- 10	20	12,5	69,0		36,0		
M22140-12-25	19	3/4"	- 12	25	15,0	80,5		40,5		
M22140-16-25	25	1"	- 16	25	15,0	82,0		41,0		



M21013

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

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	H ₂	
M21013-10-30	16	5/8"	- 10	M 30x1,5	20,0	20,0	8,1			36
M21013-12-30	19	3/4"	- 12	M 30x1,5	20,0	21,0	8,1			36
M21013-16-38	25	1"	- 16	M 38x1,5	26,0	22,8	7,6			46
M21013-20-45	31	1.1/4"	- 20	M 45x1,5	33,0	23,5	8,1			50
M21013-24-52	38	1.1/2"	- 24	M 52x1,5	40,0	25,0	8,1			60



M21093

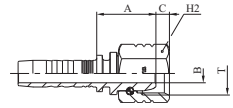
90° METRIC FEMALE SWEPT ELBOW 60° CONE - DIN 20078/3863
 HEMBRA METRICA CODO DE 90° ASIEN TO A 60° - DIN 20078/3863
 DKM 90° BOGEN 60° KONUS - DIN 20078/3863
 FEMMINA METRICA 90° CONO 60° - DIN 20078/3863

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	E	H ₂
M21093-12-30	19	3/4"	- 12	M 30x1,5	20,0	61,5	8,1	54,5		36
M21093-16-38	25	1"	- 16	M 38x1,5	26,0	76,5	7,6	63,0		46
M21093-20-45	31	1.1/4"	- 20	M 45x1,5	33,0	92,0	8,1	81,0		50

DIN STANDARD CONNECTIONS

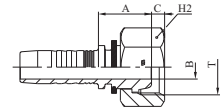
M21312

METRIC FEMALE MULTISEAL - DIN 20078/3868 (THRUST-WIRE NUT)
 HEMBRA METRICA ASIENTO UNIVERSAL - DIN 20078/3868 (TUERCA CON SEGURO)
 DKL UNIVERSALKONUS - DIN 20078/3868 (GESTIFTETE MUTTER)
 FEMMINA METRICA CONO UNIVERSALE - DIN 20078/3868 (DADO SPINATO)

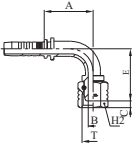


M21313

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

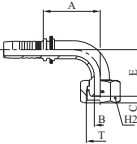


PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS				
	mm	inch	Size			B	A	C	H ₂	
M21312-03-12	5	3/16"	- 03	M 12x1,5	6	3,0	18,6	3,7		14
M21312-04-12	6	1/4"	- 04	M 12x1,5	6	4,0	19,5	4,0		17
M21313-04-14	6	1/4"	- 04	M 14x1,5	8	4,0	19,5	3,8		17
M21313-04-16	6	1/4"	- 04	M 16x1,5	10	4,0	19,5	4,0		19
M21313-05-16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

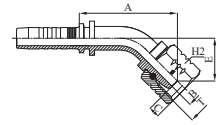
90° METRIC FEMALE SWEPT ELBOW MULTISEAL DIN 20078/3868 (SLIP-ON NUT)
 HEMBRA METRICA CODO DE 90° ASIENTO UNIVERSAL DIN 20078/3868 (TUERCA LIBRE)
 DKL UNIVERSALKONUS 90° BOGEN - DIN 20078/3868 (HINTERLEGTE MUTTER)
 FEMMINA METRICA 90° CONO UNIVERSALE - DIN 20078/3868 (DADO PASSANTE)

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

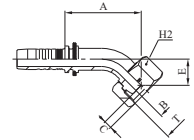
M21342

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

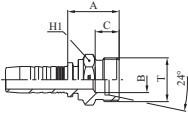
45° METRIC FEMALE SWEPT ELBOW MULTISEAL DIN 20078/3868 (SLIP-ON NUT)
 HEMBRA METRICA CODO DE 45° ASIENTO UNIVERSAL DIN 20078/3868 (TUERCA LIBRE)
 DKL UNIVERSALKONUS 45° BOGEN - DIN 20078/3868 (HINTERLEGTE MUTTER)
 FEMMINA METRICA 45° CONO UNIVERSALE - DIN 20078/3868 (DADO PASSANTE)



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



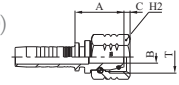
PART. REF.	HOSE BORE	THREAD	PIPE	DIMENSIONS mm							
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	DN	inch	Size	T	mm	B	A	C		H ₁	H ₂
M11110-03-12	5	3/16"	- 03	M 12x1,5	6	3,0	21,0	10,0		14	
M11110-04-12	6	1/4"	- 04	M 12x1,5	6	4,0	21,5	10,0		14	
M11110-04-14	6	1/4"	- 04	M 14x1,5	8	4,0	21,5	10,0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

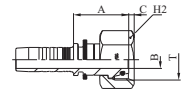
M21512

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

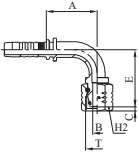
DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT)

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

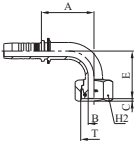
DIN 20066 / ISO 12151-2 (SLIP-ON NUT)

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)



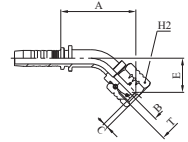
PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm					
	DN	inch	Size			T	mm	B	A	C	E

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

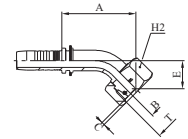
M21542

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

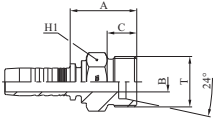
45° METRIC O-RING FEMALE SWEEP ELBOW 24° CONE LIGHT DUTY
 DIN 20066 / ISO 12151-2 (SLIP-ON NUT)
 HEMBRA METRICA CON O-RING CODO DE 45° ASIENTO A 24° SERIE LIGERA
 DIN 20066 / ISO 12151-2 (TUERCA LIBRE)
 DKOL 45° BOGEN - DIN 20066 / ISO 12151-2 (HINTERLEGTE MUTTER)
 FEMMINA METRICA 45° CONO 24° O-RING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

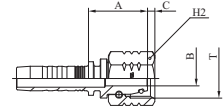
PART. REF.	HOSE BORE	THREAD	PIPE	DIMENSIONS mm						
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	DN	inch	Size	T	mm	B	A	C		H ₁	
M11210-04-16	6	1/4"	- 04	M 16x1,5	8	4,0	25,5	12,0		17	
M11210-04-18	6	1/4"	- 04	M 18x1,5	10	6,0	26,5	12,0		19	
M11210-04-20	6	1/4"	- 04	M 20x1,5	12	7,0	29,0	12,0		22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

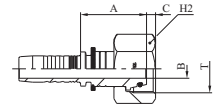
M21612

METRIC O-RING FEMALE 24° CONE HEAVY DUTY
 DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT)
 HEMBRA METRICA CON O-RING ASIENTO A 24° SERIE PESADA
 DIN 20066 / ISO 12151-2 (TUERCA CON SEGURO)
 DKOS - DIN 20066 / ISO 12151-2 (GESTIFTETE MUTTER)
 FEMMINA METRICA CONO 24° O-RING SERIE PESANTE
 DIN 20066 / ISO 12151-2 (DADO SPINATO)



M21613

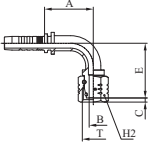
METRIC O-RING FEMALE 24° CONE HEAVY DUTY - DIN 20066 / ISO 12151-2 (SLIP-ON NUT)
 HEMBRA METRICA CON O-RING ASIENTO A 24° SERIE PESADA
 DIN 20066 / ISO 12151-2 (TUERCA LIBRE)
 DKOS - DIN 20066 / ISO 12151-2 (HINTERLEGTE MUTTER)
 FEMMINA METRICA CONO 24° O-RING SERIE PESANTE
 DIN 20066 / ISO 12151-2 (DADO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



PART. REF.	HOSE BORE	THREAD	PIPE	DIMENSIONS mm						
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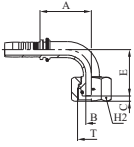
	DN	inch	Size	T	mm	B	A	C			H ₂
M21613-03-14	5	3/16"	- 03	M 14x1,5	6	2,5	25,5	3,5			17
M21613-03-16	5	3/16"	- 03	M 16x1,5	8	3,2	21,9	3,4			19
M21613-04-14	6	1/4"	- 04	M 14x1,5	6	3,0	23,5	3,5			17
M21613-04-16	6	1/4"	- 04	M 16x1,5	8	4,0	22,2	3,4			19
M21613-04-18	6	1/4"	- 04	M 18x1,5	10	4,0	28,0	3,0			22
M21613-04-20	6	1/4"	04	M 20x1,5	12	7,0	25,7	2,5			24
M21613-05-18	8	5/16"	- 05	M 18x1,5	10	5,5	28,0	3,0			22
M21613-05-20	8	5/16"	- 05	M 20x1,5	12	5,5	24,8	2,5			24
M21613-06-18	10	3/8"	- 06	M 18x1,5	10	7,0	28,5	3,0			22
M21613-06-20	10	3/8"	- 06	M 20x1,5	12	7,0	25,3	2,5			24
M21613-06-22	10	3/8"	- 06	M 22x1,5	14	7,0	32,6	3,0			27
M21613-06-24	10	3/8"	- 06	M 24x1,5	16	7,0	32,0	3,0			30
M21612-08-20	12	1/2"	- 08	M 20x1,5	12	7,0	29,0	2,5			24
M21612-08-22	12	1/2"	- 08	M 22x1,5	14	7,0	27,5	2,5			27
M21613-08-24	12	1/2"	- 08	M 24x1,5	16	9,3	26,7	3,0			30
M21613-08-30	12	1/2"	- 08	M 30x2	20	12,5	37,0	3,5			36
M21612-10-24	16	5/8"	- 10	M 24x1,5	16	9,3	29,5	4,0			30
M21613-10-30	16	5/8"	- 10	M 30x2	20	12,5	30,6	3,5			36
M21613-10-36	16	5/8"	- 10	M 36x2	25	15,0	40,0	4,5			41
M21612-12-24	19	3/4"	- 12	M 24x1,5	16	9,3	30,5	4,0			30
M21612-12-30	19	3/4"	- 12	M 30x2	20	12,5	33,5	2,2			36
M21613-12-36	19	3/4"	- 12	M 36x2	25	15,0	34,1	4,5			41
M21612-16-30	25	1"	- 16	M 30x2	20	12,5	34,5	2,2			36
M21612-16-36	25	1"	- 16	M 36x2	25	15,0	35,3	1,7			41
M21613-16-42	25	1"	- 16	M 42x2	30	19,8	35,4	6,3			50
M21613-20-52	31	1,1/4"	- 20	M 52x2	38	26,0	37,5	8,0			60
M21613-24-52	38	1,1/2"	- 24	M 52x2	38	26,0	49,6	8,0			60

M21692



90° METRIC O-RING FEMALE 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)

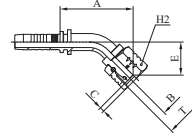
PART. REF.	HOSE BORE		THREAD	PIPE	DIMENSIONS mm						
	DN	inch			T	mm	B	A	C	E	H ₂

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

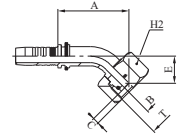
M21642

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)

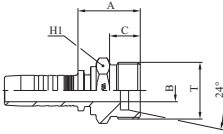


M21643

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			Size	T	mm	B	A	C	E
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

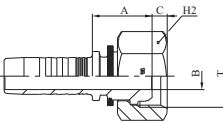


M11710

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	

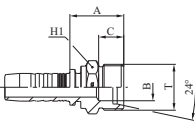


M21713

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

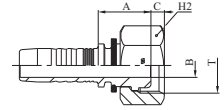
PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS mm				
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	DN	inch	Size	T	mm	B	A	C		H ₁	
M11810-05-20	8	5/16"	- 05	M 20x1,5	13,25	8,0	27,0	12,0		22	
M11810-06-20	10	3/8"	- 06	M 20x1,5	13,25	8,0	27,6	12,0		22	
M11810-06-24	10	3/8"	- 06	M 24x1,5	16,75	12,0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

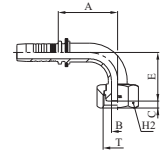
FRENCH METRIC FEMALE GAZ TYPE (SLIP-ON NUT)
 HEMBRA METRICA FRANCES TIPO GAZ (TUERCA LIBRE)
 DKF (FR. REIHE GAS, HINTERLEGTE MUTTER)
 FEMMINA METRICA SERIE GAZ FRANCESE (DADO PASSANTE)



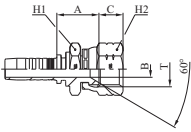
PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS				
	DN	inch	Size			mm	B	A	C	H ₂
M21813-04-20	6	1/4"	- 04	M 20x1,5	13,25	7,0	22,1	4,3		24
M21813-05-20	8	5/16"	- 05	M 20x1,5	13,25	7,0	22,1	4,3		24
M21813-06-20	10	3/8"	- 06	M 20x1,5	13,25	7,0	22,6	4,3		24
M21813-06-24	10	3/8"	- 06	M 24x1,5	16,75	9,3	25,6	4,0		30
M21813-08-24	12	1/2"	- 08	M 24x1,5	16,75	9,3	26,5	4,0		30
M21813-08-30	12	1/2"	- 08	M 30x1,5	21,25	12,5	23,6	5,1		36
M21813-10-30	16	5/8"	- 10	M 30x1,5	21,25	12,5	23,7	5,1		36
M21813-12-36	19	3/4"	- 12	M 36x1,5	26,75	15,0	27,0	4,8		41
M21813-16-45	25	1"	- 16	M 45x1,5	33,50	19,8	26,8	4,6		50

M21893

90° FRENCH METRIC FEMALE GAZ TYPE (SLIP-ON NUT)
 HEMBRA METRICA FRANCES CODO DE 90° TIPO GAZ (TUERCA LIBRE)
 DKF 90° BOGEN (FR. REIHE MILL., HINTERLEGTE MUTTER)
 FEMMINA METRICA 90° SERIE GAZ FRANCESE (DADO PASSANTE)

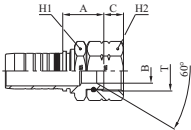


PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS				
	DN	inch	Size			mm	B	A	C	E
M21893-05-20	8	5/16"	- 05	M 20x1,5	13,25	7,0	32,0	4,3	29,5	24
M21893-06-20	10	3/8"	- 06	M 20x1,5	13,25	7,0	36,5	4,3	33,5	24
M21893-08-24	12	1/2"	- 08	M 24x1,5	16,75	12,0	45,0	4,0	41,0	30
M21893-10-30	16	5/8"	- 10	M 30x1,5	21,25	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

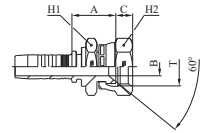
JIS METRIC FEMALE 60° CONE SEAT (KOMATSU) JIS B 8363 (THRUST-WIRE NUT)
 HEMBRA METRICA JIS ASIEN TO A 60° (KOMATSU) JIS B 8363 (TUERCA CON SEGURO)
 DK KOMATSU MIT 60° KONUS (NACH JIS B 8363, GESTIFTETE MUTTER)
 FEMMINA METRICA GIAPPONESE CONO 60° TIPO KOMATSU JIS B 8363 (DADO SPINATO)

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

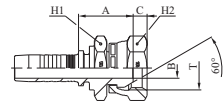
JIS BSP FEMALE 60° CONE SEAT (TOYOTA) - JIS B 8363 (CRIMPED-BACK NUT)
 HEMBRA JIS BSP ASIEN TO A 60° (TOYOTA) - JIS B 8363 (TUERCA PRENSADA)
 DK TOYOTA MIT 60° KONUS MIT KONTERSECHSKANT (NACH JIS B 8363, PRESSMUTTER)
 FEMMINA GAS GIAPPONESE CONO 60° TIPO TOYOTA JIS B 8363 (DADO PRESSATO)



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

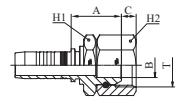
M20711

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

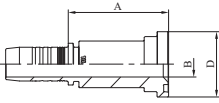
M24111

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			

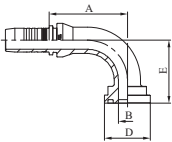
M24191

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		

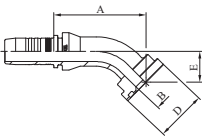
M24141

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		

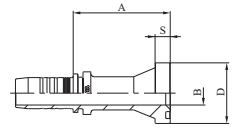
MULTIFIT TYPE



ORIGINAL EQUIPMENT CONNECTIONS

M23911

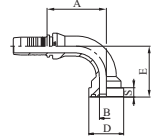
STRAIGHT SUPERCAT FLANGE
BRIDA RECTA SUPERCAT
FLANSCH GERADE SUPERCAT
FLANGIA DITTA SERIE SUPERCAT



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

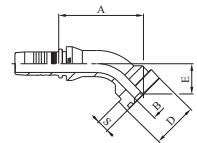
90° SUPERCAT FLANGE
BRIDA SUPERCAT CODO DE 90°
FLANSCH 90° BOGEN SUPERCAT
FLANGIA 90° SERIE SUPERCAT



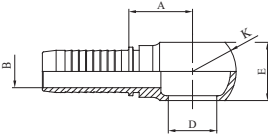
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				
	DN	inch	Size		B	A	D	E	S
M23991-12-12	19	3/4"	- 12	3/4"	15,0	64,5	41,5	64,5	14,3
M23991-16-16	25	1"	- 16	1"	19,8	77,5	47,7	76,5	14,3
M23991-16-20	25	1"	- 16	1.1/4"	26,0	75,5	54,0	80,5	14,3
M23991-20-20	31	1.1/4"	- 20	1.1/4"	26,0	85,5	54,0	87,0	14,3

M23941

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



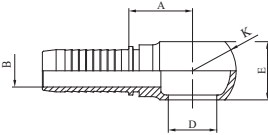
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				
	DN	inch	Size		B	A	D	E	S
M23941-12-12	19	3/4"	- 12	3/4"	15,0	77,0	41,5	32,0	14,3
M23941-16-16	25	1"	- 16	1"	19,8	89,5	47,7	36,5	14,3
M23941-16-20	25	1"	- 16	1.1/4"	26,0	92,5	54,0	40,5	14,3
M23941-20-20	31	1.1/4"	- 20	1.1/4"	26,0	99,0	54,0	41,5	14,3



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

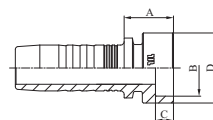
M..IP

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		

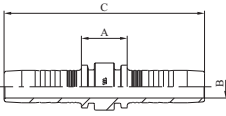
M10050

DOUBLE CONNECTOR

CONECTOR DOBLE

SCHLAUCHVERBINDER - DOPPELNIPPEL

DOPPIO INSERTO

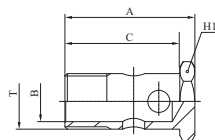


PART. REF.	HOSE BORE			DIMENSIONS mm						
	DN	inch	Size	B	A	C				
M10050-03-03	5	3/16"	- 03	3,0	15,5	58,5				
M10050-04-04	6	1/4"	- 04	4,0	14,0	69,0				
M10050-05-05	8	5/16"	- 05	5,5	14,0	70,0				
M10050-06-06	10	3/8"	- 06	7,0	14,7	73,5				
M10050-08-08	12	1/2"	- 08	9,3	15,8	78,0				
M10050-10-10	16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

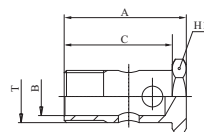
BSP BOLT
 TORNILLO PASADOR BSP
 HOHLSCHRAUBE ZÖLLIG
 VITE GAS FORATA



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	

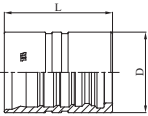
O80810

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	

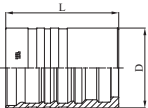
M01500



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				

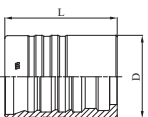
M01600



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

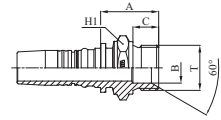
M30510

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	H ₁	
M30510-12-12	19	3/4"	- 12	3/4" - 14	17,0	36,9	16,0		32	
M30510-12-16	19	3/4"	- 12	1" - 11	22,5	43,0	19,0		41	
M30510-16-16	25	1"	- 16	1" - 11	22,5	42,8	19,0		41	
M30510-16-20	25	1"	- 16	1.1/4" - 11	29,0	47,5	20,0		50	
M30510-20-20	31	1.1/4"	- 20	1.1/4" - 11	28,5	50,5	20,0		50	
M30510-24-24	38	1.1/2"	- 24	1.1/2" - 11	33,5	54,4	22,0		55	
M30510-32-32	51	2"	- 32	2" - 11	42,0	57,8	25,0		70	

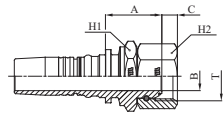
M40812

BSP O-RING FEMALE 60° CONE - BS5200 / ISO 12151-6 (THRUST-WIRE NUT)

HEMBRA BSP CON O-RING ASIENTO A 60° - BS5200 / ISO 12151-6 (TUERCA CON SEGURO)

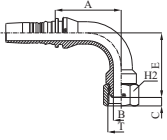
DKOR 60° KONUS MIT O-RING - BS5200 / ISO 12151-6 (STIFTMUTTER)

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



PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	H ₁	H ₂
M40812-12-12	19	3/4"	- 12	3/4" - 14	14,5	38,8	8,5		32	32
M40812-12-16	19	3/4"	- 12	1" - 11	19,0	40,0	10,6		32	41
M40812-16-12	25	1"	- 16	3/4" - 14	15,0	40,0	8,5		38	32
M40812-16-16	25	1"	- 16	1" - 11	19,5	44,4	10,6		41	41
M40812-16-20	25	1"	- 16	1.1/4" - 11	26,0	43,5	10,1		41	50
M40812-20-16	31	1.1/4"	- 20	1" - 11	19,0	50,0	10,6		50	41
M40812-20-20	31	1.1/4"	- 20	1.1/4" - 11	25,0	52,4	10,1		50	50
M40812-20-24	31	1.1/4"	- 20	1.1/2" - 11	32,0	51,5	12,5		50	60
M40812-24-20	38	1.1/2"	- 24	1.1/4" - 11	26,0	52,5	10,1		60	50
M40812-24-24	38	1.1/2"	- 24	1.1/2" - 11	32,0	51,3	12,5		60	60
M40812-32-32	51	2"	- 32	2" - 11	42,0	51,6	16,1		70	70

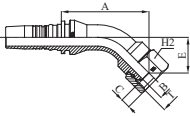
M40892



90° BSP O-RING FEMALE SWEPT ELBOW 60° CONE BS5200 / ISO 12151-6 (THRUST-WIRE NUT)
 HEMBRA BSP CON O-RING CODO DE 90° ASIENTO A 60°
 BS5200 / ISO 12151-6 (TUERCA CON SEGURO)
 DKOR 90° BOGEN 60° KONUS MIT O-RING - BS5200 / ISO 12151-6 (STIFTMUTTER)
 FEMMINA GAS 90° CONO 60° O-RING - BS5200 / ISO 12151-6 (DADO SPINATO)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	E	H ₂
M40892-12-12	19	3/4"	- 12	3/4" - 14	14,5	72,4	8,5	70,0		32
M40892-12-16	19	3/4"	- 12	1" - 11	19,0	72,0	10,6	71,0		41
M40892-16-16	25	1"	- 16	1" - 11	19,5	82,2	10,6	80,5		41
M40892-16-20	31	1.1/4"	- 20	1.1/4" - 11	25,0	95,0	10,1	78,5		50
M40892-20-20	31	1.1/4"	- 20	1.1/4" - 11	25,0	98,5	10,1	98,0		50
M40892-24-24	38	1.1/2"	- 24	1.1/2" - 11	32,0	111,5	12,5	109,0		60
M40892-32-32	51	2"	- 32	2" - 11	42,0	143,2	16,1	140,5		70

M40842



45° BSP O-RING FEMALE SWEPT ELBOW 60° CONE BS5200 / ISO 12151-6 (THRUST-WIRE NUT)
 HEMBRA BSP CON O-RING CODO DE 45° ASIENTO A 60°
 BS5200 / ISO 12151-6 (TUERCA CON SEGURO)
 DKOR 45° BOGEN 60° KONUS MIT O-RING - BS5200 / ISO 12151-6 (STIFTMUTTER)
 FEMMINA GAS 45° CONO 60° O-RING - BS5200 / ISO 12151-6 (DADO SPINATO)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	E	H ₂
M40842-12-12	19	3/4"	- 12	3/4" - 14	14,5	88,0	8,5	35,0		32
M40842-12-16	19	3/4"	- 12	1" - 11	19,0	89,5	10,6	36,5		41
M40842-16-12	25	1"	- 16	3/4" - 14	15,0	105,5	8,5	36,0		32
M40842-16-16	25	1"	- 16	1" - 11	19,5	97,0	10,6	40,0		41
M40842-16-20	25	1"	- 16	1.1/4" - 11	26,0	108,5	10,1	38,0		50
M40842-20-16	31	1.1/4"	- 20	1"-11	19,0	118,0	10,6	47,5		41
M40842-20-20	31	1.1/4"	- 20	1.1/4" - 11	25,0	120,0	10,1	49,5		50
M40842-20-24	31	1.1/4"	- 20	1.1/2" - 11	32,0	114,5	12,5	40,0		60
M40842-24-24	38	1.1/2"	- 24	1.1/2" - 11	32,0	126,5	12,5	50,0		60
M40842-32-32	51	2"	- 32	2" - 11	42,0	162,6	16,1	66,5		70

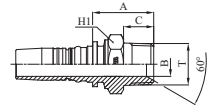
INTERLOCK PLUS TYPE



SAE STANDARD CONNECTIONS

M32810

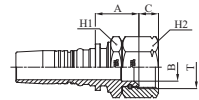
NPTF MALE 60° CONE SEAT - SAE J516/J514
 MACHO NPTF ASIENTO A 60° - SAE J516/J514
 AGN 60° INNENKONUS (NPTF-GEWINDE) - SAE J516/J514
 MASCHIO NPTF CONO 60° - SAE J516/J514



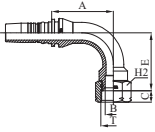
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm				
	DN	inch	Size		T	B	A	C	H1
M32810-12-12	19	3/4"	- 12	3/4" - 14	16,0	42,9	19,2	32	
M32810-16-16	25	1"	- 16	1" - 11,5	19,5	49,3	24,2	41	
M32810-20-20	31	1.1/4"	- 20	1.1/4" - 11,5	26,0	61,0	25,0	46	
M32810-24-24	38	1.1/2"	- 24	1.1/2" - 11,5	32,0	62,6	26,0	50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

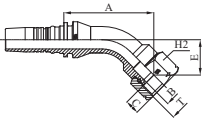


M42592

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

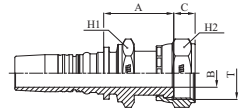
INTERLOCK PLUS TYPE



SAE STANDARD CONNECTIONS

M42411

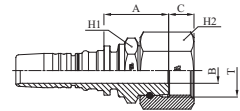
ORFS FEMALE - SAE J516 / ISO 12151-1 PULLBACK TYPE (CRIMPED BACK-NUT)
 HEMBRA ORFS - SAE J516 / ISO 12151-1 CUELLO LARGO (TUERCA Prensada)
 ORFS IG - SAE J516 / ISO 12151-1 RÜCKZUGSAUSFÜHRUNG (VERPRESSTE MUTTER)
 FEMMINA ORFS - SAE J516 / ISO 12151-1 VERSIONE RETRAIBILE (DADO PRESSATO)



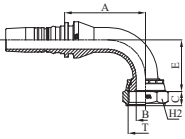
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	H ₁	H ₂
M42411-10-10	16	5/8"	- 10	1" - 14	11,5	39,5	13,5		24	30
M42411-12-12	19	3/4"	- 12	1.3/16" - 12	14,5	45,9	14,5		32	36
M42411-12-16	19	3/4"	- 12	1.7/16" - 12	19,0	46,5	15,0		36	41
M42411-16-12	25	1"	- 16	1.3/16" - 12	14,5	47,5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



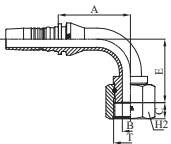
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	H ₁	H ₂
M42412-12-12	19	3/4"	- 12	1.3/16" - 12	14,5	37,0	14,0		32	36
M42412-16-16	25	1"	- 16	1.7/16" - 12	19,5	42,0	15,0		41	46
M42412-20-20	31	1.1/4"	- 20	1.11/16" - 12	25,0	52,0	15,0		50	55
M42412-24-24	38	1.1/2"	- 24	2" - 12	31,0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

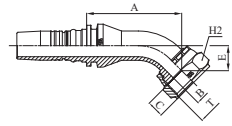
INTERLOCK PLUS TYPE



SAE STANDARD CONNECTIONS

M42441

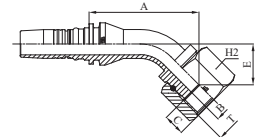
45° ORFS FEMALE SWEPT ELBOW - SAE J516 / ISO 12151-1 (CRIMPED BACK-NUT)
 HEMBRA ORFS CODO DE 45° CARA PLANA - SAE J516 / ISO 12151-1 (TUERCA PRENSADA)
 DK ORFS 45° - SAE J516 / ISO 12151-1 (PRESSMUTTER)
 FEMMINA ORFS 45° - SAE J516 / ISO 12151-1 (DADO PRESSATO)



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

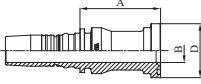
M42442

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

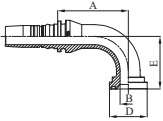
M43310



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		

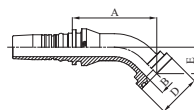
INTERLOCK PLUS TYPE



SAE STANDARD CONNECTIONS

M43340

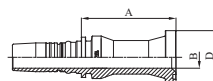
45° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3
 BRIDA CODO 45° ISO/SAE CODIGO 61 - SAE J516 / ISO 12151-3
 SAE FLANSCH 45° BOGEN - SAE J516 / ISO 12151-3
 FLANGIA 45° ISO/SAE CODE 61 - SAE J516 / ISO 12151-3



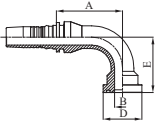
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm			
	DN	inch	Size		B	A	D	E
M43340-12-12	19	3/4"	- 12	3/4"	16,0	75,6	38,0	23,0
M43340-12-16	19	3/4"	- 12	1"	20,0	76,0	44,6	23,0
M43340-16-16	25	1"	- 16	1"	20,0	87,0	44,6	27,3
M43340-16-20	25	1"	- 16	1,1/4"	26,0	87,5	51,0	27,3
M43340-20-20	31	1,1/4"	- 20	1,1/4"	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



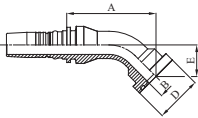
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm			
	DN	inch	Size		B	A	D	E
M43610-10-12	16	5/8"	- 10	3/4"	16,0	64,0	41,4	
M43610-10-16	16	5/8"	- 10	1"	20,0	81,5	47,7	
M43610-12-12	19	3/4"	- 12	3/4"	16,0	71,4	41,4	
M43610-12-16	19	3/4"	- 12	1"	20,0	83,4	47,7	
M43610-16-12	25	1"	- 16	3/4"	16,0	80,3	41,4	
M43610-16-16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

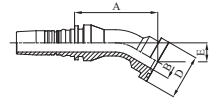
INTERLOCK PLUS TYPE



SAE STANDARD CONNECTIONS

M43630

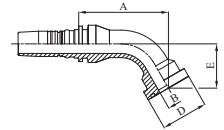
30° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3
 BRIDA CODO 30° ISO/SAE CODIGO 62 - SAE J516 / ISO 12151-3
 30° ISO/SAE CODE 62 FLANSCH - SAE J516 / ISO 12151-3
 FLANGIA 30° ISO/SAE CODE 62 - SAE J516 / ISO 12151-3



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		

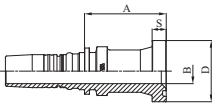
M43660

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		

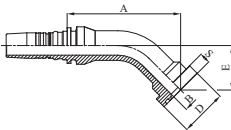
M43710



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)

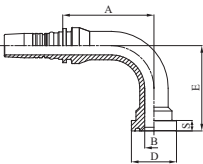
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				
	DN	inch	Size		B	A	D	S	
M43710-10-12	16	5/8"	- 10	3/4"	16,0	51,5	41,4	9,0	
M43710-12-12	19	3/4"	- 12	3/4"	14,5	71,5	41,4	10,0	
M43710-16-16	25	1"	- 16	1"	19,5	64,0	47,7	11,0	
M43710-20-20	31	1.1/4"	- 20	1.1/4"	25,0	81,0	54,2	12,0	

M43740



45° FLANGE PLUS (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE)
 BRIDA PLUS CODO 45° (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2)
 45°-BOGEN FLANSCH SCHWERE REIHE
 (SAE J518 CODE 62 - ISO 6162-2 KOMPATIBLER ANSCHLUSS)
 FLANGIA PLUS 45° (COMPATIBLE CON PORTA SAE J518 CODE 62 / ISO 6162-2)

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				
	DN	inch	Size		B	A	D	E	S
M43740-10-12	16	5/8"	- 10	3/4"	16,0	72,5	41,4	32,0	9,0
M43740-12-12	19	3/4"	- 12	3/4"	14,5	113,0	41,4	40,0	10,0
M43740-16-16	25	1"	- 16	1"	19,5	113,5	47,7	43,0	11,0
M43740-20-20	31	1.1/4"	- 20	1.1/4"	25,0	133,5	54,2	50,0	12,0



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)

M43790

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				
	DN	inch	Size		B	A	D	E	S
M43790-10-12	16	5/8"	- 10	3/4"	16,0	61,5	41,4	60,5	9,0
M43790-12-12	19	3/4"	- 12	3/4"	14,5	93,0	41,4	75,0	10,0
M43790-16-16	25	1"	- 16	1"	19,5	90,0	47,7	90,0	11,0
M43790-20-20	31	1.1/4"	- 20	1.1/4"	25,0	115,0	54,0	110,0	12,0

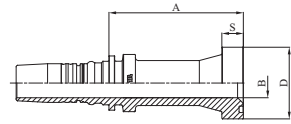
INTERLOCK PLUS TYPE



ORIGINAL EQUIPEMENT CONNECTIONS

M43910

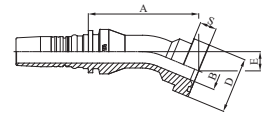
STRAIGHT SUPERCAT SERIES FLANGE
BRIDA RECTA SUPERCAT
FLANSCH GERADE SUPERCAT
FLANGIA DRTTA SERIE SUPERCAT



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

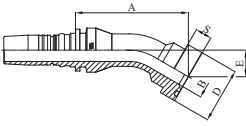
22,5° SUPERCAT SERIES FLANGE
CODO 22,5° BRIDA SERIE SUPERCAT
22,5° FLANSCH SERIE SUPERCAT
FLANGIA 22,5° SERIE SUPERCAT



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

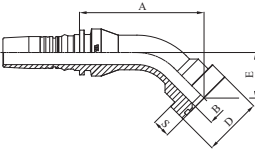
30° SUPERCAT SERIES FLANGE
 CODO 30° BRIDA SERIE SUPERCAT
 30° FLANSCH SERIE SUPERCAT
 FLANGIA 30° SERIE SUPERCAT



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

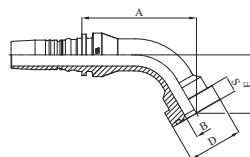
INTERLOCK PLUS TYPE



ORIGINAL EQUIPEMENT CONNECTIONS

M43960

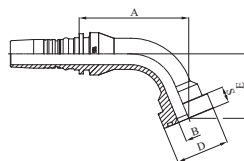
60° SUPERCAT SERIES FLANGE
 CODO 60° BRIDA SERIE SUPERCAT
 60° FLANSCH SERIE SUPERCAT
 FLANGIA 60° SERIE SUPERCAT



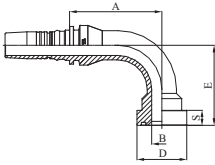
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				
	DN	inch	Size		B	A	D	E	S
M43960-12-12	19	3/4"	- 12	3/4"	16,0	101,5	41,5	44,0	14,3
M43960-12-16	19	3/4"	- 12	1"	20,0	106,5	47,7	48,0	14,3
M43960-16-16	25	1"	- 16	1"	20,0	122,0	47,7	51,0	14,3
M43960-16-16055	25	1"	- 16	1"	20,0	117,5	47,7	55,0	14,3
M43960-16-20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



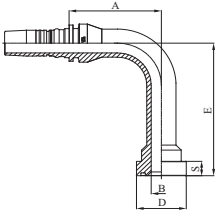
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				
	DN	inch	Size		B	A	D	E	S
M43970-12-12	19	3/4"	- 12	3/4"	16,0	95,5	41,5	49,5	14,3
M43970-12-16	19	3/4"	- 12	1"	20,0	100,0	47,7	54,0	14,3
M43970-16-16	25	1"	- 16	1"	20,0	115,0	47,7	58,0	14,3
M43970-16-20	25	1"	- 16	1.1/4"	26,0	115,0	54,0	62,0	14,3
M43970-20-20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

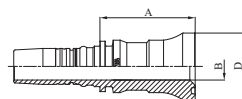
INTERLOCK PLUS TYPE



XTRAFLANGE

M48510

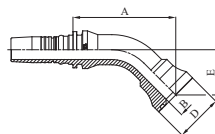
XTRAFLANGE (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE)
 BRIDA XTRAFLANGE (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2)
 XTRAFLANSCH GERADE (SAE J518 CODE 62 - ISO 6162-2 KOMPATIBLER ANSCHLUSS)
 XTRAFLANGIA (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)



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

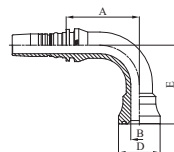
45° XTRAFLANGE (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE)
 BRIDA CODO 45° XTRAFLANGE (COMPATIBLE CON SAE J518 CODIGO 62 / ISO 6162-2)
 45°-BOGEN XTRAFLANSCH (SAE J518 CODE 62 - ISO 6162-2 KOMPATIBLER ANSCHLUSS)
 XTRAFLANGIA 45° (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)



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

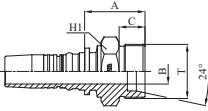
M48590

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

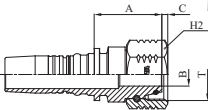


METRIC MALE 24° CONE SEAT HEAVY DUTY - DIN 20066 / ISO 12151-2
 MACHO METRICO ASIENTO A 24° - SERIE PESADA DIN 20066 / ISO 12151-2
 CES - DIN 20066 / ISO 12151-2
 MASCHIO METRICO 24° - SERIE PESANTE DIN 20066 / ISO 12151-2

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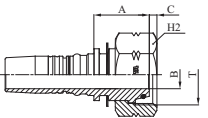
	DN	inch	Size	T	mm	B	A	C	H1
M31210-10-30	16	5/8"	- 10	M 30x2	20	12,0	36,8	16,0	30
M31210-12-30	19	3/4"	- 12	M 30x2	20	14,5	38,5	16,0	32
M31210-12-36	19	3/4"	- 12	M 36x2	25	14,5	43,4	18,0	36
M31210-16-36	25	1"	- 16	M 36x2	25	19,5	45,0	18,0	36
M31210-16-42	35	1"	- 16	M 42x2	30	19,5	46,8	20,0	46
M31210-20-52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

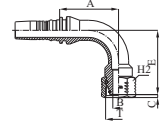
INTERLOCK PLUS TYPE



DIN STANDARD CONNECTIONS

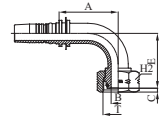
M41692

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)



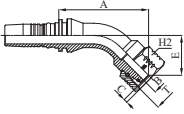
M41693

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)



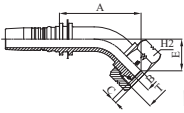
PART. REF.	HOSE BORE		THREAD	PIPE	DIMENSIONS mm						
	DN	inch			Size	T	mm	B	A	C	E
M41693-10-30	16	5/8"	- 10	M 30x2	20	12,0	52,5	3,5	57,5		36
M41692-12-30	19	3/4"	- 12	M 30x2	25	12,5	63,8	3,2	68,5		36
M41693-12-36	19	3/4"	- 12	M 36x2	25	14,5	67,0	3,4	67,5		41
M41692-16-36	25	1"	- 16	M 36x2	25	16,0	81,7	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			T	mm	B	A	C	E	H ₂
M41643-10-30	16	5/8"	- 10	M 30x2	20	12,0	66,5	3,5	29,5		36
M41642-12-30	19	3/4"	- 12	M 30x2	20	12,5	79,2	3,2	34,8		36
M41643-12-36	19	3/4"	- 12	M 36x2	25	14,5	81,0	3,4	33,5		41
M41642-16-36	25	1"	- 16	M 36x2	25	16,0	103,0	4,1	45,5		41
M41643-16-42	25	1"	- 16	M 42x2	30	19,5	93,1	5,3	36,0		50
M41642-20-42	31	1.1/4"	- 20	M 42x2	30	19,0	116,5	6,1	44,5		50
M41643-20-52	31	1.1/4"	- 20	M 52x2	38	26,0	110,0	8,0	40,0		60

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

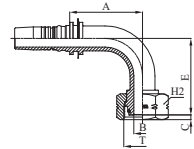
DIN 20066 / ISO 12151-2 (TUERCA CON PASADOR)

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

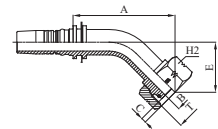
DIN 20066 / ISO 12151-2 (TUERCA CON PASADOR)

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

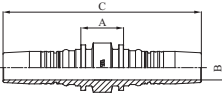
DIN 20066 / ISO 12151-2 (DADO PASSANTE)



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

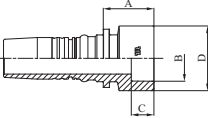
DOUBLE CONNECTOR
CONNECTOR DOBLE
DOPPELVERBINDER
DOPPIO INSERTO



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

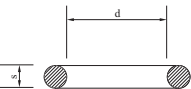
WELDING TAIL
ESPIGA SOLDABLE
VERSCHWEISSNIPPEL
INSERTO A SALDARE



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)

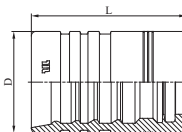
CASQUILLOS DE PELADO INTERNO Y EXTERNO PARA MANGUERAS

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)

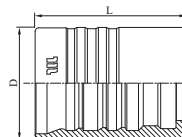
CASQUILLOS DE PELADO INTERNO Y EXTERNO PARA MANGUERAS

CON REFUERZO EN ESPIRAL (6 ESPIRALES)

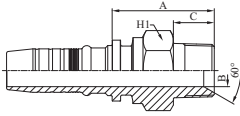
PRESSFASSUNG FÜR INNEN- UND AUSSENSCHÄLUNG FÜR SPEZIAL-SPIRALSCHLÄUCHE (6-LAGIG)

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

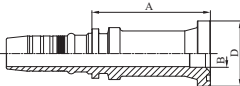
M68610

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

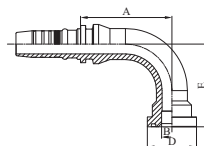
XTRALOCK TYPE



DIAMONDSPIR HOSE RANGE

M68690

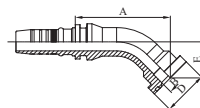
90° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3
 BRIDA 90° ISO/SAE CODIGO 62 - SAE J516 / ISO 12151-3
 90° ISO/SAE CODE 62 FLANSCH - SAE J516 / ISO 12151-3
 FLANGIA 90° ISO/SAE CODE 62 - SAE J516 / ISO 12151-3



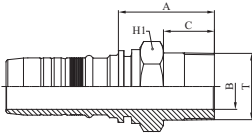
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm			
	DN	inch	Size		B	A	D	E
M68690-12-12	19	3/4"	-12	3/4"	16,0	75,0	41,4	59,0
M68690-16-16	25	1"	-16	1"	20,0	89,0	47,7	80,0
M68690-20-20	31	1.1/4"	-20	1.1/4"	24,0	110,0	54,2	93,0
M68690-24-24	38	1.1/2"	-24	1.1/2"	38,5	125,0	63,7	110,0
M68690-32-32	51	2"	-32	2"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

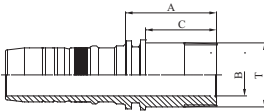


PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm			
	DN	inch	Size		B	A	D	E
M68640-16-16	25	1"	-16	1"	20,0	98,5	47,7	38,0
M68640-20-20	31	1.1/4"	-20	1.1/4"	24,0	121,5	54,2	43,5
M68640-24-24	38	1.1/2"	-24	1.1/2"	38,5	136,0	63,7	50,0
M68640-32-32	51	2"	-32	2"	42,0	160,0	79,6	61,0



M53410

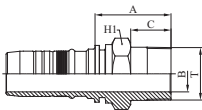
API MALE WITH HEXAGONAL BODY (API 5B THREAD)
 MACHO API CON CUERPO HEXAGONAL (ROSCA API 5B)
 VERBINDER API SECHSKANT (API 5B GEWINDE)
 MASCHIO API CON CORPO ESAGONALE (FILETTATURA API 5B)



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	

XTRAFLANGE

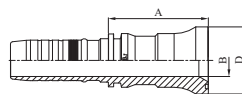
M68510

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

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

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

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



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm			W.P.	WEIGHT
	DN	inch	Size		B	A	D		
M68510-16-16	25	1"	- 16	1"	20,0	69,5	47,7	560	0,6
M68510-20-20	31	1.1/4"	- 20	1.1/4"	24,0	88,0	54,4	560	1,0
M68510-20-24	31	1.1/4"	- 20	1.1/2"	30,5	100,0	63,7	560	1,3
M68510-24-24	38	1.1/2"	- 24	1.1/2"	30,5	102,0	63,7	560	1,4
M68510-32-32	51	2"	- 32	2"	41,0	129,0	79,6	450	2,7
M68510-40-40	63	2.1/2"	- 40	2.1/2"	51,5	149,0	99,2	350	4,4

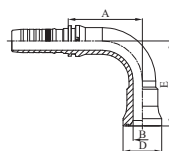
M68590

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

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

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

XTRAFLANGIA 90° (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS mm				W.P.	WEIGHT
	DN	inch	Size		B	A	D	E		
M68590-16-16	25	1"	- 16	1"	20,0	84,2	47,7	90,0	560	0,8
M68590-20-20	31	1.1/4"	- 20	1.1/4"	24,0	107,0	54,4	120,0	560	1,5
M68590-24-24	38	1.1/2"	- 24	1.1/2"	30,5	122,2	63,7	140,0	560	2,2
M68590-32-32	51	2"	- 32	2"	41,0	147,5	79,6	180,0	450	4,3

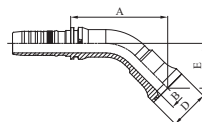
M68540

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

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

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

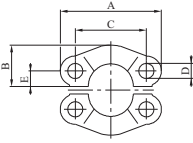
XTRAFLANGIA 45° (COMPATIBILE CON PORTA SAE J518 CODE 62 / ISO 6162-2)



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

O83308

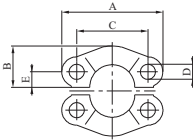
ISO/SAE CODE 61 SPLIT FLANGE CLAMPS - SAE J518 / ISO 6162-1
 SEMIBRIDA ISO/SAE CODIGO 61 - SAE J518 / ISO 6162-1
 ISO/SAE CODE 61 ZWEIFELIGER GEGENFLANSCH - SAE J518 / ISO 6162-1
 SEMIFLANGIA ISO/SAE CODE 61 - SAE J518 / ISO 6162-1



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

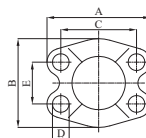
O83607

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

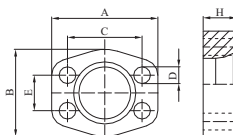
O88507

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

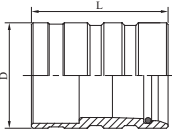
SEMIFLANGIA INTERA XTRAFRANGIA ISO 6162-2 / SAE J518 COMPATIBILE CON PORTA CODE 62



PART. REF.	FLANGE SIZE			DIMENSIONS mm						BOLT	WEIGHT
	DN	inch	Size	B	A	C	D	E	H	length mm	kg
O88507-12	19	3/4"	- 12	60,0	71,5	50,8	11,0	23,8	21,5	50,0	0,4
O88507-16	25	1"	- 16	66,7	80,0	57,2	13,0	27,8	24,0	65,0	0,5
O88507-20	31	1.1/4"	- 20	78,0	95,0	66,7	15,0	31,7	30,0	75,0	0,9
O88507-24	38	1.1/2"	- 24	94,0	112,0	79,4	17,0	36,5	36,0	100,0	1,6
O88507-32	51	2"	- 32	114,0	133,0	96,8	21,0	44,5	47,0	110,0	2,7
O88507-40	63	2.1/2"	- 40	150,0	180,0	123,8	26,0	58,8	55,0	110,0	6,4

O820..

ANTI-KINK SLEEVE
CASQUILLO ANTI-COLAPSO
KNICKSCHUTZHÜLSE
GHIERA ANTI-KINK



PART. REF.	HOSE BORE			DIMENSIONS mm			
	DN	inch	Size	D	L		
O82040-12	19	3/4"	- 12	45,0	67,0		
O82040-16	25	1"	- 16	52,0	81,0		
O82068-16	25	1"	- 16	55,0	75,0		
O82060-20	31	1.1/4"	- 20	64,0	84,0		
O82062-20	31	1.1/4 "	- 20	64,0	83,0		
O82068-20	31	1.1/4 "	- 20	65,5	83,0		
O82060-24	38	1.1/2"	- 24	72,0	102,0		
O82068-24	38	1.1/2"	- 24	73,0	99,0		
O82068-32	51	2"	- 32	86,5	116,0		
O82068-40	63	2.1/2"	- 40	103,0	148,5		
O82068-48	76	3"	- 48	112,0	156,5		

The following assembling instructions are strongly recommended on heavy duty applications.
 Se recomienda seguir atentamente las instrucciones de ensamblaje, particularmente en caso de aplicación extremadamente severa.
 Bei schweren Anwendungen empfehlen wir unbedingt die folgenden Verarbeitungshinweise einzuhalten.
 Si raccomanda di seguire attentamente le seguenti istruzioni d'assemblaggio in particolare in caso di applicazioni estremamente severe.

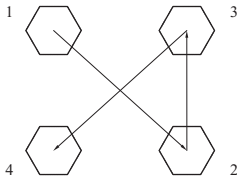
M437x0 - M686x0

PART. REF.	FLANGE SIZE	SPLIT FLANGE TYPE	ONE-PIECE FLANGE TYPE	OR (NBR 90 ShA) SAE J515	METRIC BOLT DIMENSIONS (Class. 10.9)	UNC BOLT DIMENSIONS (Grade 8)	BOLT THREAD 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

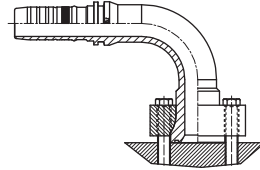
SCREWS HAVE TO BE TORQUED WITH THE FOLLOWING SCHEME:
 LOS TORNILLOS DEBEN SER AJUSTADOS DE ACUERDO AL SIGUIENTE ESQUEMA:
 SCHRAUBEN SOLLTEN GEMÄSS FOLGENDER SKIZZE ÜBER KREUZ ANGEZOGEN WERDEN:
 I BULLONI DEVONO ESSERE LEGGERMENTE SERRATI SEGUENDO LO SCHEMA SEGUENTE:



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.

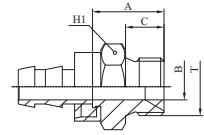
PUSH-LOCK TYPE



BS STANDARD CONNECTIONS

L10510

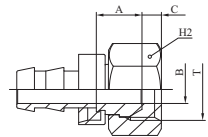
BSP MALE PARALLEL 60° CONE SEAT - BS5200/ISO 8434-6
 MACHO BSP PARALELO ASIENTO A 60° - BS5200/ISO 8434-6
 AGR 60° INNENKONUS (BSP-GEWINDE) - BS5200/ISO 8434-6
 MASCHIO GAS CILINDRICO - BS5200/ISO 8434-6



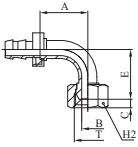
PART. REF.	HOSE BORE			THREAD	DIMENSIONS mm					
	DN	inch	Size		T	B	A	C	H ₁	
L10510-04-04	6	1/4"	- 04	1/4" - 19	5,0	18,9	11,0		19	
L10510-04-06	6	1/4"	- 04	3/8" - 19	8,0	21,0	12,0		22	
L10510-06-06	10	3/8"	- 06	3/8" - 19	8,0	21,0	12,0		22	
L10510-08-08	12	1/2"	- 08	1/2" - 14	11,0	25,0	14,0		27	
L10510-10-10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

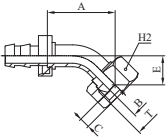


L20593*

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

