



MF2000®

**CRIMPED
FITTINGS**

SUMMARY

The range of hydraulic fittings apply 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 range is recommended with internal and external skiving operations.

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 debe ser usada con pelado interno y externo.

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FERRULE MF2000® MULTIFIT TYPE CASQUILLO MF2000® TIPO MULTIFIT

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FERRULE MF2000® INTERLOCK TYPE CASQUILLO MF2000® TIPO INTERLOCK

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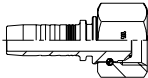
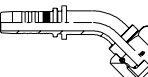
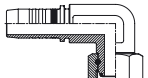
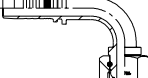

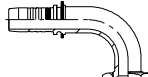

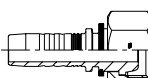
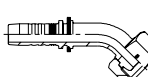
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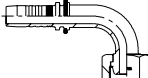
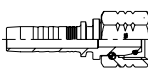

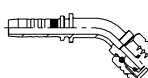
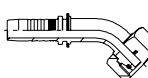

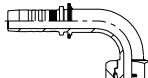


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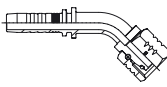
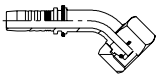
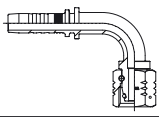
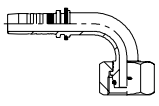
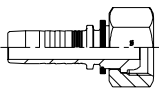
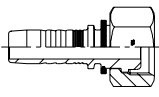
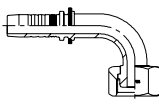
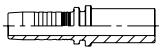
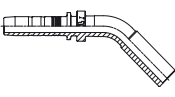
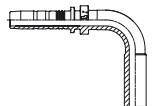
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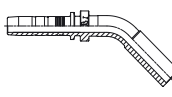
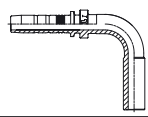

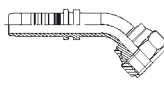
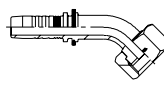
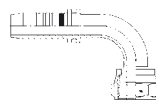
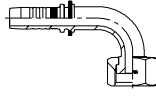
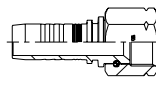



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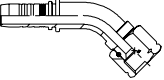

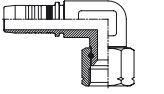
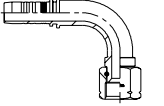
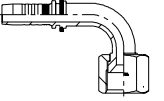
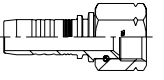
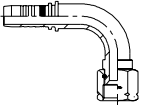
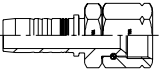
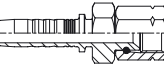
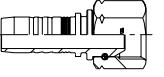
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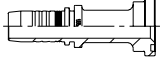
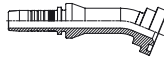
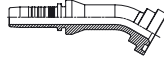

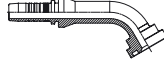
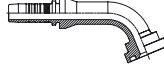

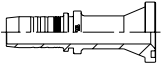

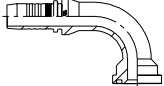
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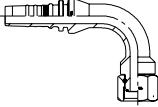
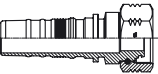
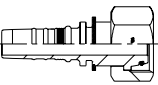
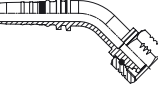

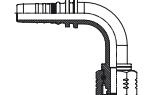
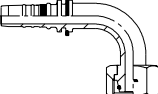


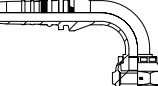
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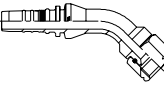
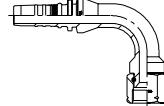
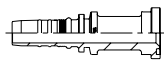
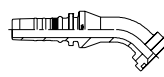

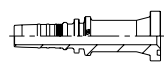

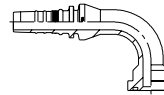
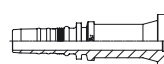
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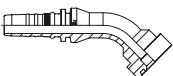
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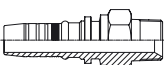
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XTRALOCK TYPE TIPO XTRALOCK

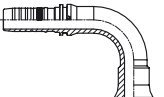
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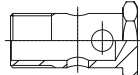
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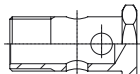
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O83308	SAE SPLIT FLANGE CLAMPS 3000 psi CODE 61 - SAE J518 SEMIBRIDA SAE 3000 psi CODIGO 61 - SAE J518	292
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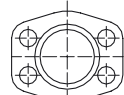
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O83609	SAE SPLIT FLANGE CLAMPS 6000 psi CODE 62 - SAE J518 SEMIBRIDA SAE 6000 psi CODIGO 62 - SAE J518	292
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O88507	ONE-PIECE XTRAFLLANGE CLAMPS BRIDA ENTERA PARA XTRAFLLANGE	311
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FITTINGS - PART NUMBERING SYSTEM

FIRST DIGIT PRIMER DIGITO

1 2 3 4 5

The numbers stated in this position (from 0 to 8), refer respectively to the following descriptions:

Los números colocados en esta posición (de 0 a 8) se refieren respectivamente a las siguientes descripciones:

- | | |
|---|--|
| 0 = Swaged Ferrule / Casquillo para prensado | 4 = Interlock Swaged Female / Espiga hembra tipo Interlock |
| 1 = Multifit Type Male / Espiga macho tipo Multifit | 5 = Xtralock Type Male / Espiga macho tipo Xtralock |
| 2 = Multifit Type Female / Espiga hembra tipo Multifit | 6 = Xtralock Type Female / Espiga hembra tipo Xtralock |
| 3 = Interlock Swaged Male / Espiga macho tipo Interlock | 8 = Split Flange or Bolt / Semi brida o pasador |

SECOND AND THIRD DIGIT SECUNDO Y TERCER DIGITO

1 2 3 4 5

MULTIFIT	INTERLOCK XTRALOCK	DESCRIPTION	DESCRIPCION
00		Blank insert / Espiga doble	
03		BSP Banjo / BSP Banjo	
05	55	BSP Parallel Thread (60° cone) / BSP Rosca paralela (asiento a 30°)	
06		BSP Parallel Thread (Flat face) / BSP Rosca paralela (cara plana)	
07	57	BSP Male Tapered Thread - JIS BSP Female / BSP Rosca macho conica - JIS BSP hembra	
08	58	BSP Parallel Thread O'Ring (60° cone) / BSP Rosca paralela con O'Ring (asiento a 30°)	
09		Metric Banjo / Metric Banjo	
10		Metric Thread (60° cone superlight) / Rosca métrica (asiento a 30° súper ligero)	
11		Male Metric Thread (24° cone light type) / Rosca métrica (asiento a 24° tipo ligero)	
12	62	Male Metric Thread (24° cone heavy type) / Rosca métrica (asiento a 24° tipo pesado)	
13		Metric Thread (Multiseal cone) / Rosca métrica (asiento universal)	
15		Female Metric Thread (24° cone O'Ring light type) / Rosca métrica (asiento a 24° con O'Ring serie ligera)	
16	66	Female Metric Thread (24° cone O'Ring heavy type) / Rosca métrica (asiento a 24° con O'Ring serie pesada)	
17		Metric Thread (French Millimetric) / Rosca métrica (Milimétrico francés)	
18		Metric Thread (French gaz) / Rosca métrica (francés gaz)	
20		DIN Metric Standpipe L.T. / Tubo métrico DIN serie ligera (L.T.)	
21		DIN Metric Standpipe H.T. / Tubo métrico DIN serie pesada (H.T.)	
25	75	JIC Thread (37° cone) / JIC Rosca (asiento a 37°)	
27		JIC Thread double exag. (37° cone) / JIC doble rosca (asiento a 37°)	
24	74	ORFS type / Tipo ORFS	
26		SAE Thread (45° cone) / Rosca SAE (asiento a 45°)	
28	78	NPTF/NPSM Thread / Rosca NPTF/NPSM	
30		SAE O'Ring Thread / Rosca SAE con O'Ring	
33	83	Code 61 SAE flange 3000 psi / Brida código 61 SAE 3000 psi	
	85	Xtraflange / Brida Xtraflange	
36	86	Code 62 SAE flange 6000 psi / Brida código 62 SAE 6000 psi	
38		JIS (Toyota) Thread / Rosca JIS (Toyota)	
39	89	Supercat flange / Brida Supercat	
40		JIS (Komatsu) Thread / Rosca JIS (Komatsu)	
41		NPTF Swivel Male / NPTF macho giratorio	
43		SAE O'Ring Thread Swivel Male / SAE Tipo O'Ring rosca macho giratorio	
44		ORFS Long Drop Elbow / ORFS asiento codo largo	
47		JIC Thread (37° cone) Elbow Long Drop / JIC Cuerda recta, (asiento a 37°) codo largo	
48		Staple Lock Connection / Conexión Staple-lock	
49		Wash Cleaning Female / Hembra arandela de desgaste	

When the first digit is 8, it denotes Bolt type or SAE split flange, namely:

Cuando el primer dígito es 8, denota tipo pasador o Semi brida SAE, respectivamente:

SAE Split Flange 3000 psi / Semi brida código 61 (SAE 3000 psi)	= 33
Xtraflange / Brida Xtraflange	= 85
SAE Split Flange 6000 psi / Semi brida código 61 (SAE 6000 psi)	= 36
BSP Bolt / Pasador BSP	= 02
Metric Bolt / Pasador métrico	= 08

FOURTH DIGIT CUARTO DIGITO

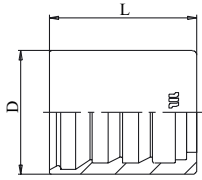
1 2 3 4 5

- | | | |
|---------------------------------|---------------------------------|----------------------------------|
| 1 = Straight / Recto | 4 = 45° Swept / Codo de 45° | 8 = Compact type / Tipo compacto |
| 2 = 22,5° Swept / Codo de 22,5° | 6 = 60° Swept / Codo de 60° | 9 = 90° Swept / Codo de 90° |
| 3 = 30° Swept / Codo de 30° | 7 = 67,5° Swept / Codo de 67,5° | |

FIFTH DIGIT QUINTO DIGITO

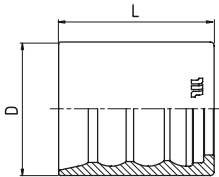
1 2 3 4 5

- | |
|--|
| 3 = Slip-on Nut / Tuerca libre (deslizable sobre la espiga) |
| 2 = Thrust-wire Nut / Tuerca con seguro (giratoria sobre la espiga) |
| 1 = Crimped-back Nut - Multifit flange / Tuerca prensada o tipo sólido (brida tipo Multifit) |
| 0 = Male/Ferrule - Interlock/Xtralock flange / Macho/Casquillo - Brida tipo Interlock/Xtralock |



M00110

SKIVE FERRULE FOR WIRE BRAID HOSES
CASQUILLO CON PELADO PARA MANGUERAS CON TRENZA DE ACERO



M00120

SKIVE FERRULE FOR WIRE BRAID HOSES
CASQUILLO CON PELADO PARA MANGUERAS CON TRENZA DE ACERO

PART. REF.	HOSE BORE		DIMENSIONS inch
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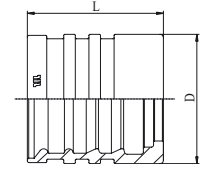
	DN	inch	Size		D	L				
M00120-03	5	3/16"	- 03		0.67	0.94				
M00120-04	6	1/4"	- 04		0.77	1.10				
M00120-05	8	5/16"	- 05		0.79	1.13				
M00120-06	10	3/8"	- 06		0.91	1.18				
M00120-08	12	1/2"	- 08		1.06	1.26				
M00120-10	16	5/8"	- 10		1.26	1.50				
M00120-12	19	3/4"	- 12		1.42	1.64				
M00120-16	25	1"	- 16		1.69	1.84				
M00110-20	31	1.1/4"	- 20		1.99	2.32				
M00110-24	38	1.1/2"	- 24		2.24	2.76				
M00110-32	51	2"	- 32		2.76	2.83				

FERRULE

M00910/M00920

SKIVE FERRULE FOR WIRE BRAID AND SPIRAL HOSES

CASQUILLO CON PELADO PARA MANGUERAS CON TRENZA Y ESPIRAL DE ACERO

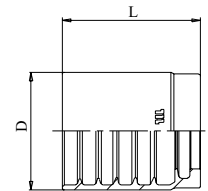


PART. REF.	HOSE BORE			DIMENSIONS inch						
	DN	inch	Size		D	L				
M00910-03	5	3/16"	- 03		0.81	1.02				
M00910-04	6	1/4"	- 04		0.87	1.18				
M00910-05	8	5/16"	- 05		0.94	1.22				
M00910-06	10	3/8"	- 06		1.02	1.30				
M00910-08	12	1/2"	- 08		1.18	1.34				
M00910-10	16	5/8"	- 10		1.30	1.54				
M00920-12	19	3/4"	- 12		1.50	1.57				
M00920-16	25	1"	- 16		1.81	2.13				
M00920-20	31	1.1/4"	- 20		2.24	2.36				
M00910-24	38	1.1/2"	- 24		2.56	2.76				
M00910-32	51	2"	- 32		3.11	2.83				

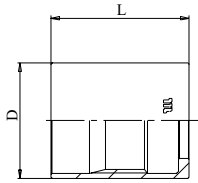
M03400

NO-SKIVE FERRULE FOR WIRE BRAID HOSES

CASQUILLO SIN PELADO PARA MANGUERAS CON TRENZA DE ACERO



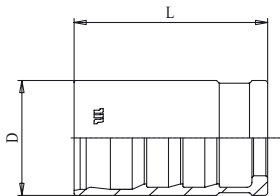
PART. REF.	HOSE BORE			DIMENSIONS inch						
	DN	inch	Size		D	L				
M03400-03	5	3/16"	- 03		0.83	0.91				
M03400-04	6	1/4"	- 04		0.91	1.20				
M03400-05	8	5/16"	- 05		0.94	1.18				
M03400-06	10	3/8"	- 06		1.02	1.26				
M03400-08	12	1/2"	- 08		1.14	1.34				
M03400-10	16	5/8"	- 10		1.30	1.46				
M03400-12	19	3/4"	- 12		1.46	1.65				
M03400-16	25	1"	- 16		1.81	2.01				
M03400-20	31	1.1/4"	- 20		2.32	2.32				
M03400-24	38	1.1/2"	- 24		2.64	2.64				
M03400-32	51	2"	- 32		3.15	2.83				
M03400-38	60	2.3/8"	- 38		3.25	2.72				
M03400-40	63	2.1/2"	- 40		3.50	2.72				
M03400-48	76	3"	- 48		4.06	2.95				



M00310

NO-SKIVE FERRULE FOR TEXTILE BRAID HOSES
CASQUILLO SIN PELADO PARA MANGUERAS CON REFUERZO TEXTIL TRENZADO

PART. REF.	HOSE BORE			DIMENSIONS inch					
	DN	inch	Size	D	L				
M00310-03	5	3/16"	- 03	0.69	1.06				
M00310-04	6	1/4"	- 04	0.76	1.18				
M00310-05	8	5/16"	- 05	0.83	1.26				
M00310-06	10	3/8"	- 06	0.94	1.26				
M00310-08	12	1/2"	- 08	1.12	1.34				
M00310-10	16	5/8"	- 10	1.30	1.46				
M00310-12	19	3/4"	- 12	1.46	1.69				
M00310-16	25	1"	- 16	1.71	2.01				
M00310-20	31	1.1/4"	- 20	1.97	2.32				



M00820

NO-SKIVE FERRULE FOR COMPACT HOSES
CASQUILLO SIN PELADO PARA MANGUERA COMPACTA

PART. REF.	HOSE BORE			DIMENSIONS inch					
	DN	inch	Size	D	L				
M00820-03	5	3/16"	- 03	0.55	1.04				
M00820-04	6	1/4"	- 04	0.71	1.19				
M00820-05	8	5/16"	- 05	0.75	1.26				
M00820-06	10	3/8"	- 06	0.87	1.30				
M00820-08	12	1/2"	- 08	1.02	1.33				
M00820-10	16	5/8"	- 10	1.14	1.41				
M00820-12	19	3/4"	- 12	1.30	1.64				
M00820-16	25	1"	- 16	1.61	1.96				
M00820-20	31	1.1/4"	- 20	1.89	2.24				
M00820-24	38	1.1/2"	- 24	2.19	2.60				
M00820-32	51	2"	- 32	2.70	2.76				

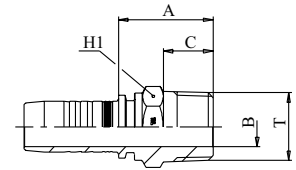
MULTIFIT TYPE



BS STANDARD CONNECTIONS

M10710

BSP MALE TAPERED
MACHO BSP (BSPT) ROSCA CONICA

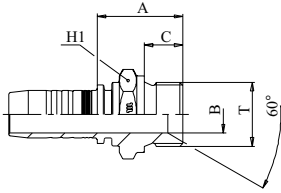


PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch				
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	DN	inch	Size	T	B	A	C		H ₁	
M10710-03-02	5	3/16"	- 03	1/8" - 28	0.18	0.81	0.31		0.47	
M10710-03-04	5	3/16"	- 03	1/4" - 19	0.18	0.96	0.47		0.55	
M10710-04-02	6	1/4"	- 04	1/8" - 28	0.18	0.83	0.31		0.47	
M10710-04-04	6	1/4"	- 04	1/4" - 19	0.18	0.98	0.47		0.55	
M10710-04-06	6	1/4"	- 04	3/8" - 19	0.28	1.02	0.47		0.75	
M10710-04-08	6	1/4"	- 04	1/2" - 14	0.39	1.16	0.59		0.87	
M10710-05-06	8	5/16"	- 05	3/8" - 19	0.28	1.04	0.47		0.75	
M10710-05-08	8	5/16"	- 05	1/2" - 14	0.39	1.18	0.59		0.87	
M10710-06-06	10	3/8"	- 06	3/8" - 19	0.28	1.07	0.47		0.75	
M10710-06-08	10	3/8"	- 06	1/2" - 14	0.39	1.20	0.59		0.87	
M10710-08-04	12	1/2"	- 08	1/4" - 19	0.18	1.02	0.47		0.75	
M10710-08-08	12	1/2"	- 08	1/2" - 14	0.39	1.22	0.59		0.87	
M10710-10-08	16	5/8"	- 10	1/2" - 14	0.39	1.22	0.59		0.87	
M10710-10-12	16	5/8"	- 10	3/4" - 14	0.67	1.46	0.67		1.06	
M10710-12-12	19	3/4"	- 12	3/4" - 14	0.67	1.40	0.67		1.06	
M10710-16-16	25	1"	- 16	1" - 11	0.89	1.65	0.83		1.42	
M10710-20-20	31	1.1/4"	- 20	1.1/4" - 11	1.12	1.87	0.91		1.81	
M10710-24-24	38	1.1/2"	- 24	1.1/2" - 11	1.26	1.97	0.91		1.97	
M10710-32-32	51	2"	- 32	2" - 11	1.73	2.18	1.06		2.56	

M10510

BSP MALE PARALLEL 60° CONE SEAT - BS5200
MACHO BSP PARALELO ASIENTO A 60° - BS5200



PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch				
	DN	inch	Size		T	B	A	C	H _i
M10510-03-02	5	3/16"	- 03	1/8" - 28	0.14	0.89	0.39	0.55	
M10510-04-02	6	1/4"	- 04	1/8" - 28	0.14	0.89	0.39	0.55	
M10510-04-04	6	1/4"	- 04	1/4" - 19	0.20	1.00	0.43	0.75	
M10510-04-06	6	1/4"	- 04	3/8" - 19	0.31	1.06	0.47	0.87	
M10510-05-04	8	5/16"	- 05	1/4" - 19	0.20	1.02	0.43	0.75	
M10510-05-06	8	5/16"	- 05	3/8" - 19	0.31	1.08	0.47	0.87	
NEW M10510-06-04	10	3/8"	- 06	1/4" - 19	0.20	1.02	0.43	0.75	
M10510-06-06	10	3/8"	- 06	3/8" - 19	0.31	1.11	0.47	0.87	
M10510-06-08	10	3/8"	- 06	1/2" - 14	0.43	1.20	0.55	1.06	
M10510-08-06	12	1/2"	- 08	3/8" - 19	0.31	1.11	0.47	0.87	
M10510-08-08	12	1/2"	- 08	1/2" - 14	0.43	1.22	0.55	1.06	
M10510-08-10	12	1/2"	- 08	5/8" - 14	0.57	1.30	0.63	1.18	
M10510-08-12	12	1/2"	- 08	3/4" - 14	0.67	1.34	0.63	1.26	
M10510-10-10	16	5/8"	- 10	5/8" - 14	0.57	1.30	0.63	1.18	
M10510-10-12	16	5/8"	- 10	3/4" - 14	0.67	1.34	0.63	1.26	
M10510-12-12	19	3/4"	- 12	3/4" - 14	0.67	1.40	0.63	1.26	
M10510-12-16	19	3/4"	- 12	1" - 11	0.89	1.56	0.75	1.61	
M10510-16-16	25	1"	- 16	1" - 11	0.89	1.61	0.75	1.61	
M10510-16-20	25	1"	- 16	1.1/4" - 11	1.12	1.76	0.79	1.97	
M10510-20-20	31	1.1/4"	- 20	1.1/4" - 11	1.12	1.83	0.79	1.97	
M10510-24-24	38	1.1/2"	- 24	1.1/2" - 11	1.32	1.95	0.87	2.17	
M10510-32-32	51	2"	- 32	2" - 11	1.81	2.12	0.98	2.76	

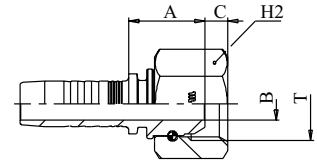
MULTIFIT TYPE



BS STANDARD CONNECTIONS

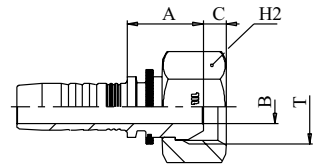
M20512

BSP FEMALE 60° CONE - BS5200 (THRUST-WIRE NUT)
HEMBRA BSP ASIENTO A 60° - BS5200 (TUERCA CON SEGURO)



M20513

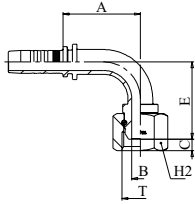
BSP FEMALE 60° CONE - BS5200 (SLIP-ON NUT)
HEMBRA BSP ASIENTO A 60° - BS5200 (TUERCA LIBRE)



PART. REF.	HOSE BORE		THREAD	DIMENSIONS inch					
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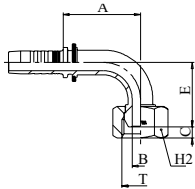
	DN	inch	Size	T	B	A	C			H ₂
M20512-03-02	5	3/16"	- 03	1/8" - 28	0.12	0.58	0.17			0.55
M20513-03-04	5	3/16"	- 03	1/4" - 19	0.16	0.65	0.21			0.75
M20512-04-02	6	1/4"	- 04	1/8" - 28	0.12	0.61	0.17			0.55
M20513-04-04	6	1/4"	- 04	1/4" - 19	0.16	0.67	0.21			0.75
M20513-04-06	6	1/4"	- 04	3/8" - 19	0.28	0.75	0.24			0.87
M20512-05-04	8	5/16"	- 05	1/4" - 19	0.16	0.69	0.17			0.75
M20513-05-06	8	5/16"	- 05	3/8" - 19	0.28	0.75	0.24			0.87
M20512-06-04	10	3/8"	- 06	1/4" - 19	0.16	0.71	0.17			0.75
M20513-06-06	10	3/8"	- 06	3/8" - 19	0.28	0.77	0.24			0.87
M20513-06-08	10	3/8"	- 06	1/2" - 14	0.37	0.79	0.26			1.06
M20512-08-06	12	1/2"	- 08	3/8" - 19	0.28	0.82	0.24			0.87
M20513-08-08	12	1/2"	- 08	1/2" - 14	0.37	0.80	0.26			1.06
M20512-08-10	12	1/2"	- 08	5/8" - 14	0.48	0.86	0.40			1.10
M20512-08-12	12	1/2"	- 08	3/4" - 14	0.59	0.92	0.35			1.26
M20512-10-10	16	5/8"	- 10	5/8" - 14	0.49	0.85	0.40			1.10
M20512-10-12	16	5/8"	- 10	3/4" - 14	0.59	0.91	0.35			1.26
M20512-12-12	19	3/4"	- 12	3/4" - 14	0.59	0.96	0.35			1.26
M20512-12-16	19	3/4"	- 12	1" - 11	0.78	1.02	0.41			1.50
M20512-16-16	25	1"	- 16	1" - 11	0.78	1.07	0.41			1.50

BS STANDARD CONNECTIONS



M20592

90° BSP FEMALE SWEPT ELBOW 60° CONE - BS5200 (THRUST-WIRE NUT)
HEMBRA BSP CODO DE 90° ASIENTO A 60° - BS5200 (TUERCA CON SEGURO)



M20593

90° BSP FEMALE SWEPT ELBOW 60° CONE - BS5200 (SLIP-ON NUT)
HEMBRA BSP CODO DE 90° ASIENTO A 60° - BS5200 (TUERCA LIBRE)

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

	DN	inch	Size	T	B	A	C	E	H ₂
M20592-03-02	5	3/16"	- 03	1/8" - 28	0.12	0.85	0.17	1.02	0.55
M20592-04-02	6	1/4"	- 04	1/8" - 28	0.12	1.12	0.17	1.06	0.55
M20593-04-04	6	1/4"	- 04	1/4" - 19	0.16	1.16	0.21	1.14	0.75
M20593-04-06	6	1/4"	- 04	3/8" - 19	0.28	1.16	0.24	1.22	0.87
M20592-05-04	8	5/16"	- 05	1/4" - 19	0.16	1.04	0.21	1.16	0.75
M20593-05-06	8	5/16"	- 05	3/8" - 19	0.28	1.26	0.24	1.08	0.87
M20593-06-06	10	3/8"	- 06	3/8" - 19	0.28	1.44	0.24	1.24	0.87
M20593-06-08	10	3/8"	- 06	1/2" - 14	0.37	1.44	0.26	1.26	1.06
M20592-08-06	12	1/2"	- 08	3/8" - 19	0.28	1.77	0.24	1.61	0.87
M20593-08-08	12	1/2"	- 08	1/2" - 14	0.37	1.77	0.26	1.44	1.06
M20592-08-10	12	1/2"	- 08	5/8" - 14	0.48	1.73	0.40	1.73	1.10
M20592-08-12	12	1/2"	- 08	3/4" - 14	0.59	1.73	0.35	1.79	1.26
M20592-10-10	16	5/8"	- 10	5/8" - 14	0.49	2.11	0.40	2.11	1.10
M20592-10-12	16	5/8"	- 10	3/4" - 14	0.59	2.11	0.35	2.17	1.26
M20592-12-12	19	3/4"	- 12	3/4" - 14	0.61	2.42	0.35	2.34	1.26
M20592-12-16	19	3/4"	- 12	1" - 11	0.78	2.42	0.41	2.44	1.50
M20592-16-16	25	1"	- 16	1" - 11	0.78	3.13	0.41	2.99	1.50

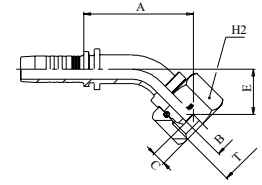
MULTIFIT TYPE



BS STANDARD CONNECTIONS

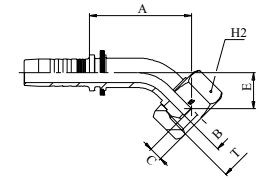
M20542

45° BSP FEMALE SWEPT ELBOW 60° CONE - BS5200 (THRUST-WIRE NUT)
HEMBRA BSP CODO DE 45° ASIENTO A 60° - BS5200 (TUERCA CON SEGURO)



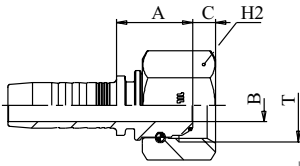
M20543

45° BSP FEMALE SWEPT ELBOW 60° CONE - BS5200 (SLIP-ON NUT)
HEMBRA BSP CODO DE 45° ASIENTO A 60° - BS5200 (TUERCA LIBRE)



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

	DN	inch	Size	T	B	A	C	E		H ₂
M20543-04-04	6	1/4"	- 04	1/4" - 19	0.16	1.42	0.21	0.59		0.75
M20543-04-06	6	1/4"	- 04	3/8" - 19	0.28	1.48	0.24	0.63		0.75
M20543-05-06	8	5/16"	- 05	3/8" - 19	0.28	1.50	0.24	0.53		0.87
M20543-06-06	10	3/8"	- 06	3/8" - 19	0.28	1.65	0.24	0.59		0.87
M20543-06-08	10	3/8"	- 06	1/2" - 14	0.37	1.67	0.26	0.63		1.06
M20543-08-08	12	1/2"	- 08	1/2" - 14	0.37	1.95	0.26	0.67		1.06
M20542-08-10	12	1/2"	- 08	5/8" - 14	0.48	2.15	0.40	0.89		1.10
M20542-10-10	16	5/8"	- 10	5/8" - 14	0.49	2.48	0.40	1.02		1.10
M20542-10-12	16	5/8"	- 10	3/4" - 14	0.59	2.52	0.35	1.06		1.26
M20542-12-12	19	3/4"	- 12	3/4" - 14	0.61	2.78	0.35	1.12		1.26
M20542-12-16	19	3/4"	- 12	1" - 11	0.78	2.85	0.41	1.18		1.50
M20542-16-16	25	1"	- 16	1" - 11	0.78	3.58	0.41	1.44		1.50



M20812

BSP O-RING FEMALE 60° CONE - BS5200 (THRUST-WIRE NUT)
HEMBRA BSP CON O-RING ASIENTO A 60° - BS5200 (TUERCA CON SEGURO)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch				
	DN	inch	Size		T	B	A	C	H ₂
M20812-04-04	6	1/4"	- 04	1/4" - 19	0.16	0.69	0.19		0.75
M20812-06-04	10	3/8"	- 06	1/4" - 19	0.16	0.71	0.19		0.75
M20812-06-06	10	3/8"	- 06	3/8" - 19	0.28	0.80	0.24		0.87
M20812-08-08	12	1/2"	- 08	1/2" - 14	0.37	0.80	0.26		1.06
M20812-10-10	16	5/8"	- 10	5/8" - 14	0.49	0.87	0.38		1.18
M20812-12-12	19	3/4"	- 12	3/4" - 14	0.59	0.98	0.33		1.26
M20812-16-16	25	1"	- 16	1" - 11	0.78	1.07	0.42		1.50
M20812-16-20	25	1"	- 16	1.1/4" - 11	1.03	1.21	0.41		1.97
M20812-20-20	31	1.1/4"	- 20	1.1/4" - 11	1.02	1.24	0.41		1.97
M20812-20-24	31	1.1/4"	- 20	1.1/2" - 11	1.26	1.16	0.49		2.36
M20812-24-24	38	1.1/2"	- 24	1.1/2" - 11	1.26	1.20	0.49		2.36
M20812-32-32	51	2"	- 32	2" - 11	1.65	1.26	0.63		2.76

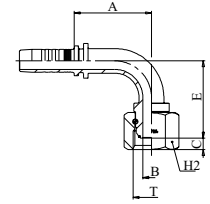
MULTIFIT TYPE



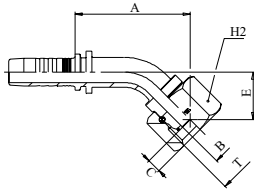
BS STANDARD CONNECTIONS

M20892

90° BSP O-RING FEMALE 60° CONE - BS5200 (THRUST-WIRE NUT)
 HEMBRA BSP CON O-RING CODO DE 90° ASIENTO A 60° - BS5200
 (TUERCA CON SEGURO)



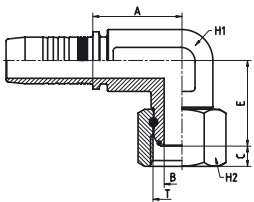
PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
	DN	inch	Size		T	B	A	C	E	H ₂
M20892-04-04	6	1/4"	- 04	1/4" - 19	0.16	1.12	0.19	1.12		0.75
M20892-06-04	10	3/8"	- 06	1/4" - 19	0.16	1.40	0.19	1.30		0.75
M20892-06-06	10	3/8"	- 06	3/8" - 19	0.28	1.40	0.24	1.42		0.87
M20892-08-08	12	1/2"	- 08	1/2" - 14	0.37	1.75	0.26	1.65		1.06
M20892-10-10	16	5/8"	- 10	5/8" - 14	0.49	2.09	0.38	2.17		1.18
M20892-12-12	19	3/4"	- 12	3/4" - 14	0.59	2.42	0.33	2.36		1.26
M20892-16-16	25	1"	- 16	1" - 11	0.78	3.13	0.42	2.99		1.50
M20892-16-20	25	1"	- 16	1.1/4" - 11	1.03	3.13	0.41	3.09		1.97
M20892-20-20	31	1.1/4"	- 20	1.1/4" - 11	1.02	3.56	0.41	3.29		1.97
M20892-20-24	31	1.1/4"	- 20	1.1/2" - 11	1.26	3.56	0.49	3.33		2.36
M20892-24-24	38	1.1/2"	- 24	1.1/2" - 11	1.26	4.25	0.49	3.88		2.36
M20892-32-32	51	2"	- 32	2" - 11	1.65	5.16	0.63	4.35		2.76



M20842

45° BSP O-RING FEMALE 60° CONE - BS5200 (THRUST-WIRE NUT)
HEMBRA BSP CON O-RING CODO DE 45° ASIENTO A 60° BS5200
(TUERCA CON SEGURO)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
	DN	inch	Size		T	B	A	C	E	H ₂
M20842-04-04	6	1/4"	- 04	1/4" - 19	0.16	1.42	0.19	0.59		0.75
M20842-06-06	10	3/8"	- 06	3/8" - 19	0.28	1.75	0.24	0.73		0.87
M20842-08-08	12	1/2"	- 08	1/2" - 14	0.37	2.05	0.26	0.81		1.06
M20842-10-10	16	5/8"	- 10	5/8" - 14	0.49	2.50	0.38	1.08		1.18
M20842-12-12	19	3/4"	- 12	3/4" - 14	0.61	2.80	0.33	1.14		1.26
M20842-16-16	25	1"	- 16	1" - 11	0.78	3.56	0.42	1.40		1.50
M20842-20-20	31	1.1/4"	- 20	1.1/4" - 11	1.02	4.00	0.41	1.54		1.97
M20842-24-24	38	1.1/2"	- 24	1.1/2" - 11	1.26	4.65	0.49	1.77		2.36
M20842-32-32	51	2"	- 32	2" - 11	1.65	5.28	0.63	1.85		2.76



M20882F

90° BSP O-RING FEMALE COMPACT ELBOW 60° CONE
BS5200 (THRUST-WIRE NUT)
HEMBRA BSP CON O-RING CODO COMPACTO DE 90°
ASIENTO A 60° - BS5200 (TUERCA CON SEGURO)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
	DN	inch	Size		T	B	A	C	E	H ₁
M20882-04-04F	6	1/4"	- 04	1/4" - 19	0.16	0.79	0.19	0.87	0.55	0.75
M20882-06-06F	10	3/8"	- 06	3/8" - 19	0.28	0.91	0.24	1.08	0.75	0.87
M20882-08-08F	12	1/2"	- 08	1/2" - 14	0.37	0.98	0.26	1.22	0.87	1.06
M20882-10-10F	16	5/8"	- 10	5/8" - 14	0.49	0.97	0.38	1.28	0.94	1.10
M20882-12-12F	19	3/4"	- 12	3/4" - 14	0.59	1.48	0.33	1.42	1.06	1.26
M20882-16-16F	25	1"	- 16	1" - 11	0.79	2.04	0.42	1.73	1.42	1.50

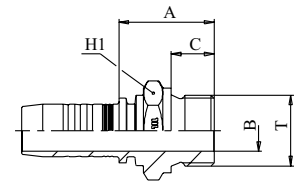
MULTIFIT TYPE



BS STANDARD CONNECTIONS

M10610

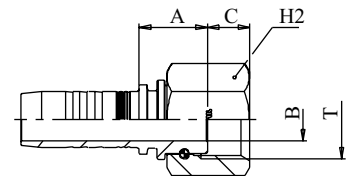
BSP MALE FLAT SEAT
MACHO BSP CARA PLANA



PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch				
	DN	inch	Size		T	B	A	C	H ₁
M10610-06-06	10	3/8"	- 06	3/8" - 19	0.37	1.11	0.47		0.87
M10610-06-08	10	3/8"	- 06	1/2" - 14	0.51	1.20	0.55		1.06
M10610-08-08	12	1/2"	- 08	1/2" - 14	0.51	1.22	0.55		1.06
M10610-12-12	19	3/4"	- 12	3/4" - 14	0.71	1.40	0.63		1.26

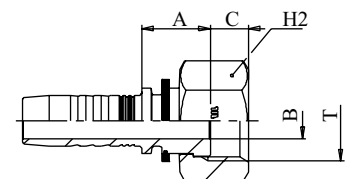
M20612

BSP FEMALE FLAT SEAT (THRUST-WIRE NUT)
HEMBRA BSP CARA PLANA (TUERCA CON SEGURO)



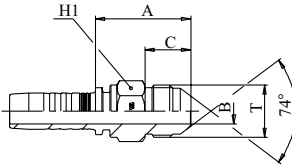
M20613

BSP FEMALE FLAT SEAT (SLIP-ON NUT)
HEMBRA BSP CARA PLANA (TUERCA LIBRE)



PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch				
	DN	inch	Size		T	B	A	C	H ₂
M20613-04-04	6	1/4"	- 04	1/4" - 19	0.16	0.57	0.31		0.75
M20613-06-06	10	3/8"	- 06	3/8" - 19	0.28	0.65	0.35		0.87
M20613-06-08	10	3/8"	- 06	1/2" - 14	0.37	0.69	0.39		1.06
M20613-08-08	12	1/2"	- 08	1/2" - 14	0.37	0.70	0.39		1.06
M20612-08-12	12	1/2"	- 08	3/4" - 14	0.59	0.82	0.45		1.26
M20612-10-12	16	5/8"	- 10	3/4" - 14	0.59	0.81	0.45		1.26
M20612-12-12	19	3/4"	- 12	3/4" - 14	0.59	0.87	0.45		1.26
M20612-12-16	19	3/4"	- 12	1" - 11	0.78	0.93	0.51		1.50
M20612-16-16	25	1"	- 16	1" - 11	0.78	0.98	0.51		1.50

M12510



JIC MALE 37° CONE - SAE J516/J514
 JIC MACHO ASIEN TO A 37° - SAE J516/J514

PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch				
	DN	inch	Size		T	B	A	C	H _i
M12510-04-04	6	1/4"	- 04	7/16" - 20	0.16	1.10	0.55		0.47
M12510-04-05	6	1/4"	- 04	1/2" - 20	0.22	1.14	0.55		0.55
M12510-04-06	6	1/4"	- 04	9/16" - 18	0.28	1.14	0.55		0.67
M12510-05-05	8	5/16"	- 05	1/2" - 20	0.22	1.14	0.55		0.55
M12510-05-06	8	5/16"	- 05	9/16" - 18	0.28	1.14	0.55		0.67
M12510-06-06	10	3/8"	- 06	9/16" - 18	0.28	1.17	0.55		0.67
M12510-06-08	10	3/8"	- 06	3/4" - 16	0.37	1.34	0.65		0.75
M12510-06-10	10	3/8"	- 06	7/8" - 14	0.49	1.52	0.77		0.94
M12510-08-06	12	1/2"	- 08	9/16" - 18	0.28	1.26	0.55		0.75
M12510-08-08	12	1/2"	- 08	3/4" - 16	0.37	1.35	0.65		0.75
M12510-08-10	12	1/2"	- 08	7/8" - 14	0.49	1.53	0.77		0.94
M12510-08-12	12	1/2"	- 08	1.1/16" - 12	0.59	1.69	0.87		1.06
M12510-10-10	16	5/8"	- 10	7/8" - 14	0.49	1.54	0.77		0.94
M12510-10-12	16	5/8"	- 10	1.1/16" - 12	0.59	1.68	0.87		1.06
M12510-12-10	19	3/4"	- 12	7/8" - 14	0.49	1.63	0.77		1.06
M12510-12-12	19	3/4"	- 12	1.1/16" - 12	0.59	1.73	0.87		1.06
M12510-12-14	19	3/4"	- 12	1.3/16" - 12	0.63	1.75	0.89		1.26
M12510-12-16	19	3/4"	- 12	1.5/16" - 12	0.78	1.85	0.91		1.34
M12510-16-12	25	1"	- 16	1.1/16" - 12	0.59	1.76	0.87		1.26
M12510-16-16	25	1"	- 16	1.5/16" - 12	0.78	1.88	0.91		1.34
M12510-16-20	25	1"	- 16	1.5/8" - 12	1.02	2.08	0.96		1.65
M12510-20-20	31	1.1/4"	- 20	1.5/8" - 12	1.02	2.11	0.96		1.65
M12510-20-24	31	1.1/4"	- 20	1.7/8" - 12	1.26	2.38	1.08		1.97
M12510-24-24	38	1.1/2"	- 24	1.7/8" - 12	1.26	2.38	1.08		1.97
M12510-32-32	51	2"	- 32	2.1/2" - 12	1.65	2.83	1.34		2.56

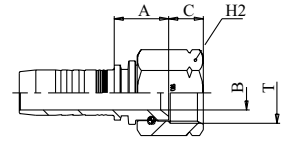
MULTIFIT TYPE



SAE STANDARD CONNECTIONS

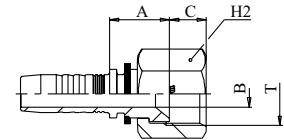
M22512

JIC FEMALE 37° CONE SEAT - SAE J516/J514 (THRUST-WIRE NUT)
 JIC HEMBRA ASIENTO A 37° - SAE J516/J514 (TUERCA CON SEGURO)



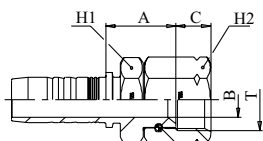
M22513

JIC FEMALE 37° CONE SEAT - SAE J516/J514 (SLIP-ON NUT)
 JIC HEMBRA ASIENTO A 37° - SAE J516/J514 (TUERCA LIBRE)



PART. REF.	HOSE BORE		THREAD	DIMENSIONS inch					
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	DN	inch	Size	T	B	A	C			H ₂
M22513-03-04	5	3/16"	- 03	7/16" - 20	0.12	0.59	0.35			0.59
M22512-04-04	6	1/4"	- 04	7/16" - 20	0.16	0.61	0.32			0.67
M22512-04-05	6	1/4"	- 04	1/2" - 20	0.16	0.62	0.36			0.67
M22513-04-06	6	1/4"	- 04	9/16" - 18	0.16	0.65	0.39			0.75
M22512-05-05	8	5/16"	- 05	1/2" - 20	0.22	0.63	0.36			0.67
M22512-05-06	8	5/16"	- 05	9/16" - 18	0.28	0.62	0.38			0.75
M22513-05-08	8	5/16"	- 05	3/4" - 16	0.22	0.66	0.42			0.87
NEW M22512-06-05	10	3/8"	- 06	1/2" - 20	0.22	0.65	0.37			0.67
M22512-06-06	10	3/8"	- 06	9/16" - 18	0.28	0.63	0.36			0.75
M22513-06-08	10	3/8"	- 06	3/4" - 16	0.28	0.68	0.42			0.87
M22513-06-10	10	3/8"	- 06	7/8" - 14	0.37	0.71	0.49			1.06
M22512-08-08	12	1/2"	- 08	3/4" - 16	0.37	0.78	0.40			0.87
M22513-08-10	12	1/2"	- 08	7/8" - 14	0.37	0.72	0.49			1.06
M22513-08-12	12	1/2"	- 08	1.1/16" - 12	0.49	0.86	0.54			1.26
M22512-10-10	16	5/8"	- 10	7/8" - 14	0.49	0.78	0.48			1.06
M22513-10-12	16	5/8"	- 10	1.1/16" - 12	0.49	0.85	0.54			1.26
M22512-12-10	19	3/4"	- 12	7/8" - 14	0.49	0.85	0.48			1.06
M22512-12-12	19	3/4"	- 12	1.1/16" - 12	0.59	0.89	0.56			1.26
M22512-12-14	19	3/4"	- 12	1.3/16" - 12	0.59	0.91	0.58			1.42
M22512-12-16	19	3/4"	- 12	1.5/16" - 12	0.78	0.91	0.60			1.50
M22512-16-12	25	1"	- 16	1.1/16" - 12	0.59	0.92	0.57			1.26
M22512-16-16	25	1"	- 16	1.5/16" - 12	0.78	0.94	0.60			1.50
M22512-16-20	25	1"	- 16	1.5/8" - 12	1.02	1.17	0.64			1.97
M22512-20-20	31	1.1/4"	- 20	1.5/8" - 12	1.02	1.18	0.64			1.97
M22512-20-24	31	1.1/4"	- 20	1.7/8" - 12	1.26	1.38	0.74			2.36
M22512-24-24	38	1.1/2"	- 24	1.7/8" - 12	1.26	1.38	0.74			2.36
M22512-32-32	51	2"	- 32	2.1/2" - 12	1.73	1.39	0.94			2.95



M22712

JIC FEMALE 37° CONE SEAT DOUBLE EXAGON - SAE J516/J514
(THRUST-WIRE NUT)

JIC HEMBRA ASIENTO A 37° DOBLE TUERCA - SAE J516/J514
(TUERCA CON SEGURO)

PART. REF.	HOSE BORE	THREAD	DIMENSIONS inch
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	DN	inch	Size	T	B	A	C	H ₁	H ₂
M22712-03-04	5	3/16"	- 03	7/16" - 20	0.16	0.81	0.32	0.47	0.67
M22712-04-04	6	1/4"	- 04	7/16" - 20	0.16	0.83	0.32	0.47	0.67
M22712-04-05	6	1/4"	- 04	1/2" - 20	0.16	0.85	0.36	0.47	0.67
M22712-04-06	6	1/4"	- 04	9/16" - 18	0.28	0.95	0.36	0.55	0.75
M22712-05-05	8	5/16"	- 05	1/2" - 20	0.22	0.85	0.36	0.55	0.67
M22712-05-06	8	5/16"	- 05	9/16" - 18	0.28	0.95	0.36	0.55	0.75
NEW M22712-05-08	8	5/16"	- 05	3/4" - 16	0.37	1.02	0.42	0.75	0.87
M22712-06-04	10	3/8"	- 06	7/16" - 20	0.16	0.84	0.32	0.67	0.67
M22712-06-05	10	3/8"	- 06	1/2" - 20	0.22	0.98	0.36	0.67	0.67
M22712-06-06	10	3/8"	- 06	9/16" - 18	0.28	0.97	0.36	0.67	0.75
M22712-06-08	10	3/8"	- 06	3/4" - 16	0.37	1.07	0.40	0.75	0.87
M22712-06-10	10	3/8"	- 06	7/8" - 14	0.49	1.10	0.48	0.87	1.06
M22712-08-06	12	1/2"	- 08	9/16" - 18	0.28	0.97	0.36	0.75	0.75
M22712-08-08	12	1/2"	- 08	3/4" - 16	0.37	1.08	0.40	0.75	0.87
M22712-08-10	12	1/2"	- 08	7/8" - 14	0.49	1.12	0.48	0.87	1.06
M22712-08-12	12	1/2"	- 08	1.1/16" - 12	0.55	1.18	0.56	1.06	1.26
M22712-10-08	16	5/8"	- 10	3/4" - 16	0.37	1.12	0.40	0.87	0.87
M22712-10-10	16	5/8"	- 10	7/8" - 14	0.49	1.14	0.48	0.87	1.06
M22712-10-12	16	5/8"	- 10	1.1/16" - 12	0.59	1.16	0.56	1.06	1.26
M22712-12-08	19	3/4"	- 12	3/4" - 16	0.37	1.18	0.40	1.06	0.87
M22712-12-10	19	3/4"	- 12	7/8" - 14	0.49	1.18	0.48	1.06	1.06
M22712-12-12	19	3/4"	- 12	1.1/16" - 12	0.59	1.24	0.56	1.06	1.26
M22712-12-14	19	3/4"	- 12	1.3/16" - 12	0.59	1.30	0.58	1.18	1.42
M22712-12-16	19	3/4"	- 12	1.5/16" - 12	0.78	1.28	0.60	1.26	1.50
M22712-16-12	25	1"	- 16	1.1/16" - 12	0.49	1.33	0.56	1.26	1.26
M22712-16-16	25	1"	- 16	1.5/16" - 12	0.78	1.35	0.60	1.26	1.50
M22712-16-20	25	1"	- 16	1.5/8" - 12	1.02	1.69	0.64	1.61	1.97
M22712-20-20	31	1.1/4"	- 20	1.5/8" - 12	1.02	1.71	0.64	1.61	1.97
M22712-24-24	38	1.1/2"	- 24	1.7/8" - 12	1.26	2.01	0.74	1.97	2.36
M22712-32-32	51	2"	- 32	2.1/2" - 12	1.65	0.09	0.94	2.56	2.95

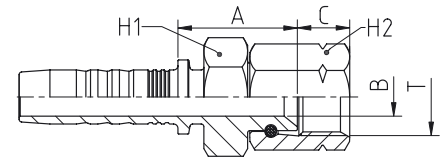
MULTIFIT TYPE



SAE STANDARD CONNECTIONS

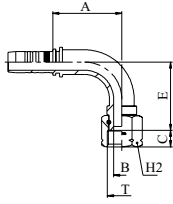
M22712K

**JIC FEMALE 37° CONE SEAT DOUBLE EXAGON
COMPACT TYPE - SAE J516/J514 (THRUST-WIRE NUT)**
**JIC HEMBRA ASIENTO A 37° DOBLE TUERCA
TIPO COMPACTO - SAE J516/J514 (TUERCA CON SEGURO)**



PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
	DN	inch	Size		T	B	A	C	H ₁	H ₂
M22712-03-04K	5	3/16"	- 03	7/16" - 20	0.16	0.81	0.32		0.47	0.59
M22712-04-04K	6	1/4"	- 04	7/16" - 20	0.16	0.83	0.32		0.47	0.59
M22712-04-06K	6	1/4"	- 04	9/16" - 18	0.28	0.95	0.36		0.55	0.67
M22712-06-06K	10	3/8"	- 06	9/16" - 18	0.28	0.97	0.36		0.67	0.67
M22712-08-10K	12	1/2"	- 08	7/8" - 14	0.49	1.12	0.50		0.87	0.98
M22712-10-10K	16	5/8"	- 10	7/8" - 14	0.49	1.14	0.50		0.87	0.98

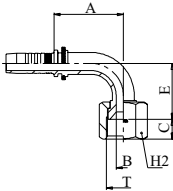
SAE STANDARD CONNECTIONS



M22592

90° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516/J514
(THRUST-WIRE NUT)

JIC HEMBRA CODO DE 90° ASIENTO A 37° - SAE J516/J514
(TUERCA CON SEGURO)



M22593

90° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516/J514
(SLIP-ON NUT)

JIC HEMBRA CODO DE 90° ASIENTO A 37° - SAE J516/J514
(TUERCA LIBRE)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
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	DN	inch	Size	T	B	A	C	E	H ₂
M22593-03-04	5	3/16"	- 03	7/16" - 20	0.12	1.02	0.35	0.93	0.59
M22592-04-04	6	1/4"	- 04	7/16" - 20	0.16	1.12	0.32	1.06	0.67
M22592-04-05	6	1/4"	- 04	1/2" - 20	0.16	1.12	0.36	1.08	0.67
M22593-04-06	6	1/4"	- 04	9/16" - 18	0.16	1.16	0.39	1.10	0.75
NEW M22593-04-08	6	1/4"	- 04	3/4" - 16	0.28	1.15	0.43	1.20	0.87
M22592-05-05	8	5/16"	- 05	1/2" - 20	0.22	1.17	0.36	1.08	0.67
M22592-05-06	8	5/16"	- 05	9/16" - 18	0.28	1.22	0.36	1.12	0.75
NEW M22592-06-05	10	3/8"	- 06	1/2" - 20	0.22	1.19	0.37	1.04	0.67
M22592-06-06	10	3/8"	- 06	9/16" - 18	0.28	1.40	0.36	1.28	0.75
M22593-06-08	10	3/8"	- 06	3/4" - 16	0.28	1.44	0.42	1.16	0.87
M22593-06-10	10	3/8"	- 06	7/8" - 14	0.37	1.44	0.49	1.24	1.06
M22592-08-06	12	1/2"	- 08	9/16" - 18	0.28	1.46	0.36	1.30	0.75
M22592-08-08	12	1/2"	- 08	3/4" - 16	0.37	1.73	0.40	1.61	0.87
M22593-08-10	12	1/2"	- 08	7/8" - 14	0.37	1.77	0.49	1.42	1.06
M22593-08-12	12	1/2"	- 08	1.1/16" - 12	0.49	1.77	0.54	1.42	1.26
M22592-10-10	16	5/8"	- 10	7/8" - 14	0.49	2.11	0.48	2.07	1.06
M22593-10-12	16	5/8"	- 10	1.1/16" - 12	0.49	2.03	0.54	1.97	1.26
M22592-12-10	19	3/4"	- 12	7/8" - 14	0.49	2.17	0.48	2.07	1.06
M22592-12-12	19	3/4"	- 12	1.1/16" - 12	0.59	2.44	0.56	2.28	1.26
M22592-12-14	19	3/4"	- 12	1.3/16" - 12	0.59	2.44	0.58	2.28	1.42
M22592-12-16	19	3/4"	- 12	1.5/16" - 12	0.78	2.44	0.60	2.26	1.50
M22592-16-16	25	1"	- 16	1.5/16" - 12	0.78	3.03	0.60	2.64	1.50
M22592-16-20	25	1"	- 16	1.5/8" - 12	1.02	3.05	0.64	2.93	1.97
M22592-20-20	31	1.1/4"	- 20	1.5/8" - 12	1.02	3.56	0.64	3.41	1.97
M22592-20-24	31	1.1/4"	- 20	1.7/8" - 12	1.26	3.56	0.74	3.58	2.36
M22592-24-24	38	1.1/2"	- 24	1.7/8" - 12	1.26	4.25	0.74	3.96	2.36
M22592-32-32	51	2"	- 32	2.1/2" - 12	1.73	5.59	0.94	5.39	2.95

MULTIFIT TYPE

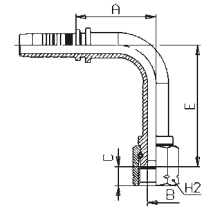


SAE STANDARD CONNECTIONS

M24792

90° JIC FEMALE LONG DROP ELBOW 37° CONE SEAT - SAE J516/J514
(THRUST-WIRE NUT)

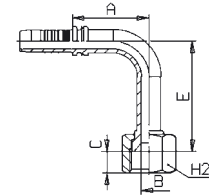
JIC HEMBRA CODO LARGO DE 90° ASIENTO A 37° - SAE J516/J514
(TUERCA CON SEGURO)



M24793

90° JIC FEMALE LONG DROP ELBOW 37° CONE SEAT - SAE J516/J514
(SLIP-ON NUT)

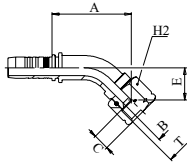
JIC HEMBRA CODO LARGO DE 90° ASIENTO A 37° - SAE J516/J514
(TUERCA LIBRE)



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

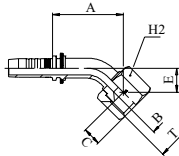
	DN	inch	Size	T	B	A	C	E	H ₂
M24792-04-04	6	1/4"	- 04	7/16" - 20	0.16	1.12	0.32	1.77	0.67
M24792-04-05	6	1/4"	- 04	1/2" - 20	0.16	1.12	0.36	1.77	0.67
M24793-04-06	6	1/4"	- 04	9/16" - 18	0.16	1.16	0.39	2.19	0.75
M24792-06-06	10	3/8"	- 06	9/16" - 18	0.28	1.40	0.36	2.17	0.75
M24793-06-08	10	3/8"	- 06	3/4" - 16	0.28	1.44	0.42	2.42	0.87
M24792-08-08	12	1/2"	- 08	3/4" - 16	0.37	1.60	0.41	2.42	0.87
M24793-08-10	12	1/2"	- 08	7/8" - 14	0.37	1.77	0.49	2.56	1.06
M24792-10-10	16	5/8"	- 10	7/8" - 14	0.49	2.11	0.48	2.58	1.06
M24792-12-12	19	3/4"	- 12	1.1/16" - 12	0.59	2.44	0.56	3.72	1.26
M24792-16-16	25	1"	- 16	1.5/16" - 12	0.78	3.03	0.60	4.33	1.50

SAE STANDARD CONNECTIONS



M22542

**45° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516/J514
(THRUST-WIRE NUT)**
 JIC HEMBRA CODO DE 45° ASIENTO A 37° - SAE J516/J514
 (TUERCA CON SEGURO)



M22543

**45° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516/J514
(SLIP-ON NUT)**
 JIC HEMBRA CODO DE 45° ASIENTO A 37° - SAE J516/J514
 (TUERCA LIBRE)

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

	DN	inch	Size	T	B	A	C	E	H ₂
M22542-04-04	6	1/4"	- 04	7/16" - 20	0.16	1.40	0.32	0.57	0.67
M22542-04-05	6	1/4"	- 04	1/2" - 20	0.16	1.41	0.36	0.57	0.67
M22543-04-06	6	1/4"	- 04	9/16" - 18	0.16	1.40	0.39	0.55	0.75
M22542-05-05	8	5/16"	- 05	1/2" - 20	0.22	1.43	0.36	0.57	0.67
M22542-05-06	8	5/16"	- 05	9/16" - 18	0.28	1.50	0.36	0.57	0.75
M22542-06-06	10	3/8"	- 06	9/16" - 18	0.28	1.65	0.36	0.65	0.75
M22543-06-08	10	3/8"	- 06	3/4" - 16	0.28	1.61	0.42	0.55	0.87
M22543-06-10	10	3/8"	- 06	7/8" - 14	0.37	1.67	0.49	0.61	1.06
M22542-08-08	12	1/2"	- 08	3/4" - 16	0.37	2.05	0.40	0.79	0.87
M22543-08-10	12	1/2"	- 08	7/8" - 14	0.37	1.95	0.49	0.67	1.06
M22543-08-12	12	1/2"	- 08	1.1/16" - 12	0.49	1.97	0.54	0.67	1.26
M22542-10-10	16	5/8"	- 10	7/8" - 14	0.49	2.44	0.48	1.00	1.06
M22543-10-12	16	5/8"	- 10	1.1/16" - 12	0.49	2.36	0.54	0.94	1.26
M22542-12-12	19	3/4"	- 12	1.1/16" - 12	0.59	2.76	0.56	1.08	1.26
M22542-12-14	19	3/4"	- 12	1.3/16" - 12	0.59	2.72	0.58	1.08	1.42
M22542-12-16	19	3/4"	- 12	1.5/16" - 12	0.78	2.76	0.60	1.08	1.50
M22542-16-12	25	1"	- 16	1.1/16" - 12	0.59	2.85	0.56	1.08	1.26
M22542-16-16	25	1"	- 16	1.5/16" - 12	0.78	3.39	0.60	1.26	1.50
M22542-16-20	25	1"	- 16	1.5/8" - 12	1.02	3.54	0.64	1.42	1.97
M22542-20-20	31	1.1/4"	- 20	1.5/8" - 12	1.02	4.07	0.64	1.63	1.97
M22542-20-24	31	1.1/4"	- 20	1.7/8" - 12	1.26	4.19	0.74	1.75	2.36
M22542-24-24	38	1.1/2"	- 24	1.7/8" - 12	1.26	4.69	0.74	1.83	2.36
M22542-32-32	51	2"	- 32	2.1/2" - 12	1.73	6.42	0.94	2.68	2.95

MULTIFIT TYPE

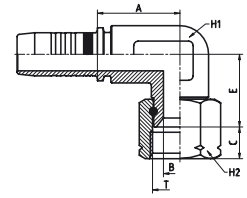


SAE STANDARD CONNECTIONS

M22582F

90° JIC FEMALE COMPACT ELBOW 37° CONE SEAT SAE J516/J514
(THRUST-WIRE NUT)

JIC HEMBRA CODO COMPACTO DE 90° ASIENTO A 37° - SAE J516/J514
(TUERCA CON SEGURO)

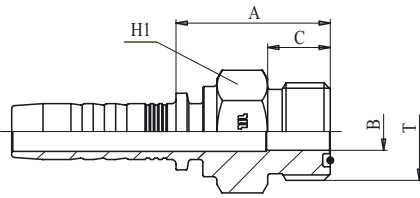


PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
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	DN	inch	Size	T	B	A	C	E	H ₁	H ₂
M22582-04-04F	6	1/4"	- 04	7/16" - 20	0.16	0.79	0.32	0.81	0.55	0.67
M22582-04-06F	6	1/4"	- 04	9/16" - 18	0.28	0.79	0.36	0.85	0.55	0.75
M22582-06-06F	10	3/8"	- 06	9/16" - 18	0.28	0.91	0.36	0.94	0.75	0.75
M22582-06-08F	10	3/8"	- 06	3/4" - 16	0.37	1.05	0.40	1.10	0.87	0.87
M22582-08-08F	12	1/2"	- 08	3/4" - 16	0.37	0.98	0.40	1.10	0.87	0.87
M22582-08-10F	12	1/2"	- 08	7/8" - 14	0.49	0.98	0.48	1.14	0.87	1.06
M22582-12-12F	19	3/4"	- 12	1.1/16" - 12	0.59	1.48	0.56	1.30	1.06	1.26
M22582-16-16F	25	1"	- 16	1.5/16" - 12	0.79	2.04	0.60	1.57	1.42	1.50

M12410

ORFS MALE - SAE J1453
ORFS MACHO - SAE J1453



PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch				
	DN	inch	Size		T	B	A	C	Hi
M12410-04-04	6	1/4"	- 04	9/16" - 18	0.16	0.94	0.39		0.63
M12410-04-06	6	1/4"	- 04	11/16" - 16	0.26	1.05	0.44		0.75
M12410-05-06	8	3/8"	- 05	11/16" - 16	0.26	1.06	0.44		0.75
M12410-06-06	10	5/16"	- 06	11/16" - 16	0.26	1.07	0.44		0.75
M12410-06-08	10	3/8"	- 06	13/16" - 16	0.37	1.18	0.50		0.87
M12410-08-08	12	1/2"	- 08	13/16" - 16	0.37	1.20	0.50		0.87
M12410-08-10	12	1/2"	- 08	1" - 14	0.49	1.38	0.61		1.06
M12410-10-10	16	5/8"	- 10	1" - 14	0.49	1.37	0.61		1.06
M12410-10-12	16	5/8"	- 10	1.3/16" - 12	0.59	1.48	0.67		1.26
M12410-12-12	19	3/4"	- 12	1.3/16" - 12	0.59	1.54	0.67		1.26
M12410-12-16	19	3/4"	- 12	1.7/16" - 12	0.78	1.59	0.69		1.50
M12410-16-16	25	1"	- 16	1.7/16" - 12	0.78	1.65	0.69		1.50
M12410-20-20	31	1 1/4"	- 20	1.11/16" - 12	1.02	1.82	0.69		1.81
M12410-24-24	38	1 1/2"	- 24	2" - 12	1.26	1.91	0.69		2.17

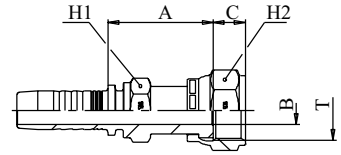
MULTIFIT TYPE



SAE STANDARD CONNECTIONS

M22411

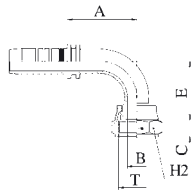
ORFS FEMALE - SAE J516/J1453 (CRIMPED-BACK NUT)
ORFS HEMBRA - SAE J516/J1453 (TUERCA Prensada)



PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
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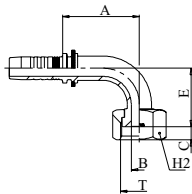
	DN	inch	Size	T	B	A	C		H ₁	H ₂
M22411-04-04	6	1/4"	- 04	9/16" - 18	0.16	1.08	0.31		0.51	0.75
M22411-04-06	6	1/4"	- 04	11/16" - 16	0.28	1.18	0.37		0.63	0.87
M22411-05-06	8	5/16"	- 05	11/16" - 16	0.28	1.20	0.37		0.63	0.87
M22411-06-06	10	3/8"	- 06	11/16" - 16	0.28	1.22	0.37		0.63	0.87
M22411-06-08	10	3/8"	- 06	13/16" - 16	0.37	1.40	0.43		0.75	0.94
M22411-08-06	12	1/2"	- 08	11/16" - 16	0.28	1.26	0.37		0.75	0.87
M22411-08-08	12	1/2"	- 08	13/16" - 16	0.37	1.41	0.43		0.75	0.94
M22411-08-10	12	1/2"	- 08	1" - 14	0.45	1.51	0.53		0.94	1.18
M22411-08-12	12	1/2"	- 08	1.3/16" - 12	0.55	1.65	0.57		1.10	1.42
M22411-10-10	16	5/8"	- 10	1" - 14	0.45	1.52	0.53		0.94	1.18
M22411-10-12	16	5/8"	- 10	1.3/16" - 12	0.55	1.65	0.57		1.10	1.42
M22411-12-10	19	3/4"	- 12	1" - 14	0.45	1.61	0.53		1.10	1.18
M22411-12-12	19	3/4"	- 12	1.3/16" - 12	0.55	1.71	0.57		1.10	1.42
M22411-12-16	19	3/4"	- 12	1.7/16" - 12	0.78	1.79	0.59		1.42	1.61
M22411-16-12	25	1"	- 16	1.3/16" - 12	0.55	1.80	0.57		1.42	1.42
M22411-16-16	25	1"	- 16	1.7/16" - 12	0.78	1.82	0.59		1.42	1.61
M22411-16-20	25	1"	- 16	1.11/16" - 12	1.02	1.95	0.58		1.61	1.97
M22411-20-20	31	1.1/4"	- 20	1.11/16" - 12	1.02	1.93	0.58		1.61	1.97
M22411-24-24	38	1.1/2"	- 24	2" - 12	1.26	2.13	0.62		1.97	2.36

SAE STANDARD CONNECTIONS



M22491

90° ORFS FEMALE - SAE J516/J1453 (CRIMPED-BACK NUT)
ORFS HEMBRA CODO DE 90° - SAE J516/J1453 (TUERCA PRENSADA)



M22493

90° ORFS FEMALE - SAE J516/J1453 (SLIP-ON NUT)
ORFS HEMBRA CODO DE 90° - SAE J516/J1453 (TUERCA LIBRE)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
	DN	inch	Size		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	0.16	1.08	0.32	0.94	0.67
M22493-04-06	6	1/4"	- 04	11/16" - 16	0.28	1.08	0.37	0.87	0.87
M22493-05-06	8	5/16"	- 05	11/16" - 16	0.28	1.26	0.37	0.91	0.87
M22493-06-06	10	3/8"	- 06	11/16" - 16	0.28	1.18	0.37	0.94	0.87
M22493-06-08	10	3/8"	- 06	13/16" - 16	0.37	1.18	0.43	1.04	0.94
M22491-08-06	12	1/2"	- 08	11/16" - 16	0.28	1.22	0.37	0.96	0.87
M22493-08-08	12	1/2"	- 08	13/16" - 16	0.37	1.59	0.43	1.18	0.94
M22493-08-10	12	1/2"	- 08	1" - 14	0.45	1.59	0.53	1.18	1.18
M22493-08-12	12	1/2"	- 08	1.3/16" - 12	0.55	1.56	0.57	1.48	1.42
M22493-10-10	16	5/8"	- 10	1" - 14	0.45	1.89	0.53	1.48	1.18
M22493-10-12	16	5/8"	- 10	1.3/16" - 12	0.55	1.89	0.57	1.61	1.42
M22491-12-10	19	3/4"	- 12	1" - 14	0.45	1.93	0.53	1.50	1.18
M22493-12-12	19	3/4"	- 12	1.3/16" - 12	0.55	2.22	0.57	1.89	1.42
M22493-12-16	19	3/4"	- 12	1.7/16" - 12	0.78	2.22	0.58	1.87	1.61
M22491-16-12	25	1"	- 16	1.3/16" - 12	0.55	2.27	0.57	1.89	1.42
M22493-16-16	25	1"	- 16	1.7/16" - 12	0.78	2.81	0.58	2.20	1.61
M22493-16-20	25	1"	- 16	1.11/16" - 12	1.02	2.81	0.58	2.30	1.97
M22493-20-20	31	1.1/4"	- 20	1.11/16" - 12	1.02	3.27	0.58	2.60	1.97
M22493-24-24	38	1.1/2"	- 24	2" - 12	1.26	4.02	0.58	3.13	2.36

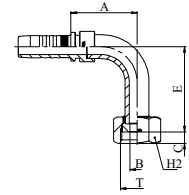
MULTIFIT TYPE



SAE STANDARD CONNECTIONS

M24493*

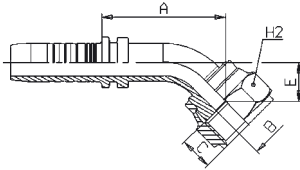
90° ORFS FEMALE LONG DROP - SAE J516/J1453 (SLIP-ON NUT)
 ORFS HEMBRA CODO DE 90° LARGO - SAE J516/J1453 (TUERCA LIBRE)



PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
	DN	inch	Size		T	B	A	C	E	H ₂
M24493-04-04	6	1/4"	- 04	9/16" - 18	0.17	0.96	0.32	1.79		0.67
M24493-06-06	10	3/8"	- 06	11/16" - 16	0.28	1.24	0.37	2.11		0.87
M24493-06-08	10	3/8"	- 06	13/16" - 16	0.26	1.26	0.43	2.11		0.94
M24493-08-08	12	1/2"	- 08	13/16" - 16	0.39	1.46	0.43	2.50		0.94
M24493-08-10	12	1/2"	- 08	1" - 14	0.38	1.46	0.53	2.52		1.18
M24493-10-10	16	1/2"	- 10	1" - 14	0.38	1.61	0.53	2.72		1.18
M24493-10-12	16	5/8"	- 10	1.3/16" - 12	0.50	1.61	0.57	2.87		1.42
M24493-12-12	19	5/8"	- 12	1.3/16" - 12	0.61	1.79	0.57	3.78		1.42
M24493-16-16	25	1"	- 16	1.7/16" - 12	0.81	2.30	0.58	4.47		1.61

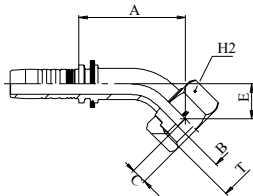
(*) Brazed solution - con soldadura

SAE STANDARD CONNECTIONS



M22441

45° ORFS FEMALE - SAE J516/J1453 (CRIMPED-BACK NUT)
 ORFS HEMBRA CODO DE 45° - SAE J516/J1453 (TUERCA PRENSADA)



M22443

45° ORFS FEMALE - SAE J516/J1453 (SLIP-ON NUT)
 ORFS HEMBRA CODO DE 45° - SAE J516/J1453 (TUERCA LIBRE)

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

	DN	inch	Size	T	B	A	C	E	H ₂
M22443-04-04	6	1/4"	- 04	9/16" - 18	0.16	1.28	0.32	0.47	0.67
M22443-04-06	6	1/4"	- 04	11/16" - 16	0.28	1.22	0.37	0.41	0.87
M22443-05-06	8	5/16"	- 05	11/16" - 16	0.28	1.34	0.37	0.41	0.87
M22443-06-06	10	3/8"	- 06	11/16" - 16	0.28	1.28	0.37	0.43	0.87
M22443-06-08	10	3/8"	- 06	13/16" - 16	0.37	1.34	0.43	0.49	0.94
M22441-08-06	12	1/2"	- 08	11/16" - 16	0.28	1.30	0.37	0.43	0.87
M22443-08-08	12	1/2"	- 08	13/16" - 16	0.37	1.65	0.43	0.51	0.94
M22443-08-10	12	1/2"	- 08	1" - 14	0.45	1.65	0.53	0.53	1.18
M22443-08-12	12	1/2"	- 08	1.3/16" - 12	0.55	1.83	0.57	0.73	1.42
M22443-10-10	16	5/8"	- 10	1" - 14	0.45	1.93	0.53	0.63	1.18
M22443-10-12	16	5/8"	- 10	1.3/16" - 12	0.55	2.03	0.57	0.73	1.42
M22441-12-10	19	3/4"	- 12	1" - 14	0.45	1.99	0.53	0.65	1.18
M22443-12-12	19	3/4"	- 12	1.3/16" - 12	0.55	2.38	0.57	0.85	1.42
M22443-12-16	19	3/4"	- 12	1.7/16" - 12	0.78	2.40	0.58	0.83	1.61
M22443-16-16	25	1"	- 16	1.7/16" - 12	0.78	2.83	0.58	0.93	1.61
M22443-16-20	25	1"	- 16	1.11/16" - 12	1.02	2.91	0.58	0.99	1.97
M22443-20-20	31	1.1/4"	- 20	1.11/16" - 12	1.02	3.23	0.58	1.06	1.97
M22443-24-24	38	1.1/2"	- 24	2" - 12	1.26	3.86	0.58	1.24	2.36

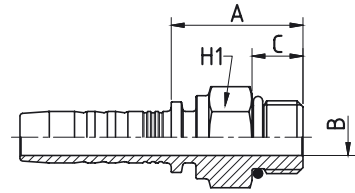
MULTIFIT TYPE



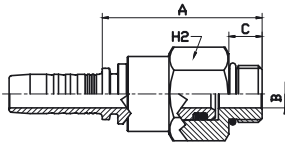
SAE STANDARD CONNECTIONS

M13010

SAE MALE O-RING BOSS TYPE - SAE J516/J514
 SAE MACHO CON O-RING TIPO BOSS - SAE J516/J514



PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch				
	DN	inch	Size		T	B	A	C	H ₁
M13010-04-04	6	1/4"	- 04	7/16" - 20	0.16	0.94	0.36		0.55
M13010-04-06	6	1/4"	- 04	9/16" - 18	0.28	0.96	0.39		0.67
M13010-06-06	10	3/8"	- 06	9/16" - 18	0.28	1.01	0.39		0.67
M13010-06-08	10	3/8"	- 06	3/4" - 16	0.37	1.13	0.44		0.87
M13010-08-08	12	1/2"	- 08	3/4" - 16	0.37	1.14	0.44		0.87
M13010-08-10	12	1/2"	- 08	7/8" - 14	0.49	1.26	0.50		0.98
M13010-10-12	16	5/8"	- 10	1.1/16" - 12	0.59	1.48	0.59		1.26
M13010-12-12	19	3/4"	- 12	1.1/16" - 12	0.59	1.56	0.59		1.26
M13010-12-16	19	3/4"	- 12	1.5/16" - 12	0.78	1.57	0.59		1.50
M13010-16-16	25	1"	- 16	1.5/16" - 12	0.78	1.61	0.59		1.50



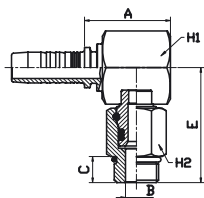
M14310*

SAE SWIVEL MALE O-RING BOSS TYPE - SAE J516/J514
SAE MACHO GIRATORIO CON O-RING TIPO BOSS - SAE J516/J514

PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
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	DN	inch	Size	T	B	A	C			H ₂
M14310-04-04	6	1/4"	- 04	7/16" - 20	0.16	1.61	0.36			1.06
NEW M14310-04-06	6	1/4"	- 04	9/16" - 18	0.28	1.73	0.39			0.87
M14310-06-06	10	3/8"	- 06	9/16" - 18	0.28	1.81	0.39			1.06
M14310-06-08	10	3/8"	- 06	3/4" - 16	0.28	1.88	0.44			0.87
M14310-08-08	12	1/2"	- 08	3/4" - 16	0.37	2.00	0.44			1.26
M14310-08-10	12	1/2"	- 08	7/8" - 14	0.37	1.66	0.51			1.06
M14310-08-12	12	1/2"	- 08	1.1/16" - 12	0.49	1.94	0.59			1.26
M14310-10-10	16	5/8"	- 10	7/8" - 14	0.37	1.63	0.51			1.06
M14310-12-12	19	3/4"	- 12	1.1/16" - 12	0.49	1.88	0.59			1.26

(*) Not to be used as a live swivel



M14390*

90° SAE SWIVEL MALE O-RING BOSS TYPE - SAE J516/J514
SAE MACHO GIRATORIO CON O-RING CODO COMPACTO DE 90°
TIPO BOSS - SAE J516/J514

PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
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	DN	inch	Size	T	B	A	C	E	H ₁	H ₂
M14390-06-06	10	3/8"	- 06	9/16" - 18	0.22	0.79	0.39	1.57	0.87	0.67
M14390-06-08	10	3/8"	- 06	3/4" - 16	0.28	0.79	0.44	1.75	0.87	0.87
M14390-08-08	12	1/2"	- 08	3/4" - 16	0.37	0.87	0.44	1.93	1.06	0.87
M14390-08-10	12	1/2"	- 08	7/8" - 14	0.37	1.08	0.51	1.87	1.06	1.06
M14390-10-10	16	5/8"	- 10	7/8" - 14	0.37	1.10	0.51	1.87	1.06	1.06
M14390-12-12	19	3/4"	- 12	1.1/16" - 12	0.49	1.08	0.59	2.19	1.26	1.26

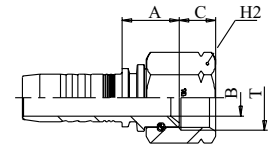
(*) Brazed solution - Not to be used as a live swivel

MULTIFIT TYPE



SAE STANDARD CONNECTIONS

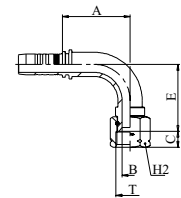
M22612



SAE FEMALE 45° CONE SEAT - SAE J516/J512 (THRUST-WIRE NUT)
 SAE HEMBRA ASIENTO A 45° - SAE J516/J512 (TUERCA CON SEGURO)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
	DN	inch	Size		T	B	A	C		H2
NEW M22612-04-04	6	1/4"	- 04	7/16" - 20	0.16	0.61	0.32			0.67
M22612-06-06	10	3/8"	- 06	5/8" - 18	0.28	0.65	0.43			0.87
M22612-12-12	19	3/4"	- 12	1.1/16" - 14	0.59	0.89	0.57			1.26

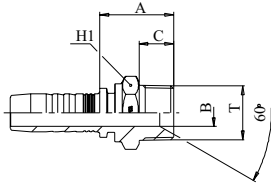
M22692



90° SAE FEMALE SWEEP ELBOW 45° CONE SEAT - SAE J516/J512
 (THRUST-WIRE NUT)
 SAE HEMBRA CODO DE 90° ASIENTO A 45° - SAE J516/J512
 (TUERCA CON SEGURO)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
	DN	inch	Size		T	B	A	C	E	H2
NEW M22692-04-04	6	1/4"	- 04	7/16" - 20	0.16	1.11	0.32	1.06		0.67
M22692-06-06	10	3/8"	- 06	5/8" - 18	0.28	1.40	0.43	1.30		0.87
M22692-12-12	19	3/4"	- 12	1.1/6" - 14	0.59	2.44	0.57	2.28		1.26

M12810



NPTF MALE 30° CONE SEAT - SAE J516
NPTF MACHO ASIENTO A 30° - SAE J516

PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch				
	DN	inch	Size		T	B	A	C	H ₁
M12810-03-02	5	3/16"	- 03	1/8" - 27	0.22	1.15	0.57		0.55
M12810-03-04	5	3/16"	- 03	1/4" - 18	0.16	0.95	0.39		0.47
M12810-04-02	6	1/4"	- 04	1/8" - 27	0.22	1.14	0.57		0.55
M12810-04-04	6	1/4"	- 04	1/4" - 18	0.37	1.24	0.57		0.75
M12810-04-06	6	1/4"	- 04	3/8" - 18	0.37	1.32	0.76		0.94
M12810-04-08	6	1/4"	- 04	1/2" - 14	0.22	1.18	0.57		0.55
M12810-05-04	8	5/16"	- 05	1/4" - 18	0.37	1.26	0.57		0.75
M12810-05-06	8	5/16"	- 05	3/8" - 18	0.22	1.19	0.57		0.55
M12810-06-04	10	3/8"	- 06	1/4" - 18	0.37	1.13	0.57		0.75
M12810-06-06	10	3/8"	- 06	3/8" - 18	0.49	1.36	0.76		0.94
M12810-06-08	10	3/8"	- 06	1/2" - 14	0.37	1.14	0.57		0.75
M12810-08-06	12	1/2"	- 08	3/8" - 18	0.49	1.37	0.76		0.94
M12810-08-08	12	1/2"	- 08	1/2" - 14	0.63	1.39	0.76		1.06
M12810-08-12	12	1/2"	- 08	3/4" - 14	0.49	1.52	0.76		0.94
M12810-10-08	16	5/8"	- 10	1/2" - 14	0.63	1.58	0.76		1.06
M12810-10-12	16	5/8"	- 10	3/4" - 14	0.49	1.44	0.54		1.06
M12810-12-12	19	3/4"	- 12	3/4" - 14	0.63	1.58	0.76		1.06
M12810-12-08	19	3/4"	- 12	1/2" - 14	0.63	1.44	0.76		1.06
M12810-12-16	19	3/4"	- 12	1" - 11.5	0.78	1.81	0.95		1.42
M12810-16-12	25	1"	- 16	3/4" - 14	0.61	1.53	0.76		1.26
M12810-16-16	25	1"	- 16	1" - 11.5	0.78	1.72	0.95		1.42
M12810-16-20	25	1"	- 16	1.1/4" - 11.5	1.02	2.22	0.98		1.81
M12810-20-20	31	1.1/4"	- 20	1.1/4" - 11.5	1.02	2.22	0.98		1.81
M12810-24-24	38	1.1/2"	- 24	1.1/2" - 11.5	1.26	2.27	1.02		1.97
M12810-32-32	51	2"	- 32	2" - 11.5	1.77	2.53	1.04		2.56

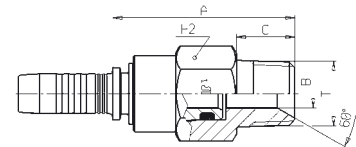
MULTIFIT TYPE



SAE STANDARD CONNECTIONS

M14110*

NPTF SWIVEL MALE 30° CONE SEAT - SAE J516
 NPTF MACHO GIRATORIO ROSCA ASIENTO A 30° - SAE J516

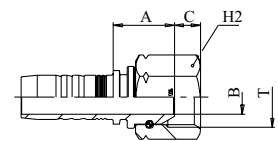


PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch						
	DN	inch	Size		T	B	A	C			H ₂
M14110-04-02	6	1/4"	- 04	1/8" - 27	0.12	1.65	0.39				0.67
M14110-04-04	6	1/4"	- 04	1/4" - 18	0.16	1.83	0.57				0.67
M14110-04-06	6	1/4"	- 04	3/8" - 18	0.28	1.83	0.57				0.75
M14110-06-04	10	3/8"	- 06	1/4" - 18	0.16	1.99	0.57				0.87
M14110-06-06	10	3/8"	- 06	3/8" - 18	0.28	1.99	0.57				0.87
M14110-06-08	10	3/8"	- 06	1/2" - 14	0.37	2.17	0.76				0.94
M14110-08-08	12	1/2"	- 08	1/2" - 14	0.37	2.34	0.76				1.06
M14110-12-12	19	3/4"	- 12	3/4" - 14	0.63	2.28	0.76				1.26
M14110-16-16	25	1"	- 16	1" - 11.5	0.78	2.59	0.95				1.50

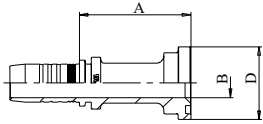
(*) Not to be used as a live swivel

M22812

NPSM FEMALE 30° CONE (THRUST-WIRE NUT)
 NPSM HEMBRA ASIENTO A 30° (TUERCA CON SEGURO)



PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch						
	DN	inch	Size		T	B	A	C			H ₂
M22812-04-04	6	1/4"	- 04	1/4" - 18	0.16	0.69	0.17				0.75
M22812-06-06	10	3/8"	- 06	3/8" - 18	0.28	0.82	0.24				0.87
M22812-08-08	12	1/2"	- 08	1/2" - 14	0.37	0.90	0.26				1.06
M22812-12-12	19	3/4"	- 12	3/4" - 14	0.59	0.96	0.35				1.26
M22812-16-16	25	1"	- 16	1" - 11.5	0.78	1.07	0.41				1.50



M23311

STRAIGHT SAE FLANGE 3000 psi CODE 61 - SAE J516/J518
BRIDA RECTA SAE 3000 psi CODIGO 61 - SAE J516/J518

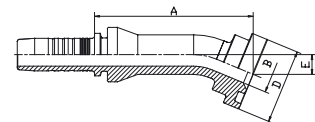
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch					
	DN	inch	Size		B	A	D			
M23311-08-08	12	1/2"	- 08	1/2"	0.37	2.00	1.19			
M23311-08-12	12	1/2"	- 08	3/4"	0.59	2.27	1.50			
M23311-10-12	16	5/8"	- 10	3/4"	0.59	2.59	1.50			
M23311-12-12	19	3/4"	- 12	3/4"	0.59	2.28	1.50			
M23311-12-16	19	3/4"	- 12	1"	0.79	2.28	1.76			
M23311-16-16	25	1"	- 16	1"	0.78	2.53	1.76			
M23311-16-20	25	1"	- 16	1.1/4"	1.02	2.77	2.01			
M23311-20-20	31	1.1/4"	- 20	1.1/4"	1.02	2.78	2.01			
M23311-20-24	31	1.1/4"	- 20	1.1/2"	1.26	2.85	2.38			
M23311-24-24	38	1.1/2"	- 24	1.1/2"	1.26	2.98	2.38			
M23311-24-32	38	1.1/2"	- 24	2"	1.65	2.98	2.82			
M23311-32-32	51	2"	- 32	2"	1.65	3.11	2.82			
M23311-32-40	51	2"	- 32	2.1/2"	2.20	3.19	3.32			
M23311-38-40	60	2.3/8"	- 38	2.1/2"	2.20	3.31	3.32			
M23311-40-40	63	2.1/2"	- 40	2.1/2"	2.20	3.31	3.32			
M23311-48-48	76	3"	- 48	3"	2.72	3.39	4.00			

MULTIFIT TYPE



SAE STANDARD CONNECTIONS

M23321

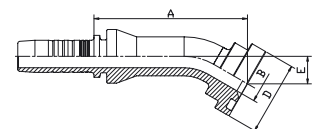


22.5° SAE FLANGE 3000 psi CODE 61 - SAE J516/J518

BRIDA CODO DE 22.5° SAE 3000 psi CODIGO 61 - SAE J516/J518

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch			
	DN	inch	Size		B	A	D	E
M23321-08-08	12	1/2"	- 08	1/2"	0.37	2.52	1.19	0.31
M23321-12-12	19	3/4"	- 12	3/4"	0.59	2.94	1.50	0.39
M23321-12-16	19	3/4"	- 12	1"	0.79	2.94	1.76	0.39
M23321-16-16	25	1"	- 16	1"	0.78	3.50	1.76	0.45
M23321-20-20	31	1.1/4"	- 20	1.1/4"	1.02	3.94	2.01	0.47
M23321-20-24	31	1.1/4"	- 20	1.1/2"	1.26	4.01	2.38	0.50

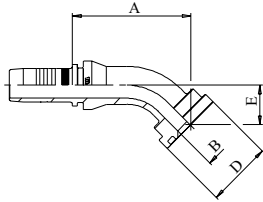
M23331



30° SAE FLANGE 3000 psi CODE 61 - SAE J516/J518

BRIDA CODO DE 30° SAE 3000 psi CODIGO 61 - SAE J516/J518

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch			
	DN	inch	Size		B	A	D	E
M23331-08-08	12	1/2"	- 08	1/2"	0.37	2.46	1.19	0.44
M23331-12-12	19	3/4"	- 12	3/4"	0.59	2.88	1.50	0.55
M23331-12-16	19	3/4"	- 12	1"	0.79	2.88	1.76	0.55
M23331-16-16	25	1"	- 16	1"	0.78	3.42	1.76	0.65
M23331-20-20	31	1.1/4"	- 20	1.1/4"	1.02	3.86	2.01	0.69
M23331-24-24	38	1.1/2"	- 24	1.1/2"	1.26	4.50	2.38	0.79



M23341

45° SAE FLANGE 3000 psi CODE 61 - SAE J516/J518
BRIDA CODO DE 45° SAE 3000 psi CODIGO 61 - SAE J516/J518

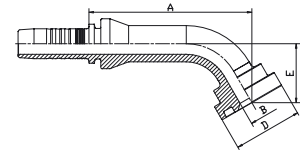
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch					
	DN	inch	Size		B	A	D	E		
M23341-08-08	12	1/2"	- 08	1/2"	0.37	2.30	1.19	0.73		
M23341-08-12	12	1/2"	- 08	3/4"	0.59	2.34	1.50	0.75		
M23341-10-12	16	5/8"	- 10	3/4"	0.59	2.40	1.50	0.87		
M23341-12-12	19	3/4"	- 12	3/4"	0.59	2.70	1.50	0.91		
M23341-12-16	19	3/4"	- 12	1"	0.79	2.70	1.76	0.91		
M23341-16-16	25	1"	- 16	1"	0.78	3.21	1.76	1.08		
M23341-16-20	25	1"	- 16	1.1/4"	1.02	3.21	2.01	1.08		
M23341-20-20	31	1.1/4"	- 20	1.1/4"	1.02	3.62	2.01	1.16		
M23341-20-24	31	1.1/4"	- 20	1.1/2"	1.26	3.68	2.38	1.22		
M23341-24-24	38	1.1/2"	- 24	1.1/2"	1.26	4.23	2.38	1.36		
M23341-24-32	38	1.1/2"	- 24	2"	1.65	4.23	2.82	1.36		
M23341-32-32	51	2"	- 32	2"	1.65	4.88	2.82	1.54		

MULTIFIT TYPE



SAE STANDARD CONNECTIONS

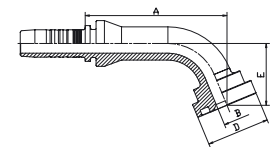
M23361



60° SAE FLANGE 3000 psi CODE 61 - SAE J516/J518
 BRIDA CODO DE 60° SAE 3000 psi CODIGO 61 - SAE J516/J518

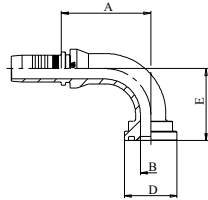
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch					
	DN	inch	Size		B	A	D	E		
M23361-08-08	12	1/2"	- 08	1/2"	0.37	2.81	1.19	1.02		
M23361-12-12	19	3/4"	- 12	3/4"	0.59	3.42	1.50	1.30		
M23361-16-16	25	1"	- 16	1"	0.78	4.09	1.76	1.54		
M23361-16-20	25	1"	- 16	1.1/4"	1.02	4.09	2.01	1.54		
M23361-20-20	31	1.1/4"	- 20	1.1/4"	1.02	4.72	2.01	1.69		
M23361-20-24	31	1.1/4"	- 20	1.1/2"	1.26	4.76	2.38	1.76		
M23361-24-24	38	1.1/2"	- 24	1.1/2"	1.26	5.65	2.38	2.00		

M23371



67.5° SAE FLANGE 3000 psi CODE 61 - SAE J516/J518
 BRIDA CODO DE 67.5° SAE 3000 psi CODIGO 61 - SAE J516/J518

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch					
	DN	inch	Size		B	A	D	E		
M23371-08-08	12	1/2"	- 08	1/2"	0.37	2.67	1.19	1.17		
M23371-12-12	19	3/4"	- 12	3/4"	0.59	3.24	1.50	1.50		
M23371-12-16	19	3/4"	- 12	1"	0.79	3.24	1.76	1.50		
M23371-16-16	25	1"	- 16	1"	0.78	3.88	1.76	1.77		
M23371-20-20	31	1.1/4"	- 20	1.1/4"	1.02	4.49	2.01	1.97		
M23371-24-24	38	1.1/2"	- 24	1.1/2"	1.26	5.37	2.38	2.33		



M23391

90° SAE FLANGE 3000 psi CODE 61 - SAE J516/J518
BRIDA CODO DE 90° SAE 3000 psi CODIGO 61 - SAE J516/J518

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch			
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	DN	inch	Size		B	A	D	E		
M23391-08-08	12	1/2"	- 08	1/2"	0.37	2.15	1.19	1.57		
M23391-08-12	12	1/2"	- 08	3/4"	0.59	2.15	1.50	1.61		
M23391-10-12	16	5/8"	- 10	3/4"	0.59	2.20	1.50	1.87		
M23391-12-12	19	3/4"	- 12	3/4"	0.59	2.54	1.50	2.05		
M23391-12-16	19	3/4"	- 12	1"	0.79	2.54	1.76	2.05		
M23391-16-16	25	1"	- 16	1"	0.78	3.05	1.76	2.44		
M23391-16-20	25	1"	- 16	1.1/4"	1.02	3.05	2.01	2.44		
M23391-20-20	31	1.1/4"	- 20	1.1/4"	1.02	3.56	2.01	2.95		
M23391-20-24	31	1.1/4"	- 20	1.1/2"	1.26	3.56	2.38	3.03		
M23391-24-24	38	1.1/2"	- 24	1.1/2"	1.26	4.25	2.38	3.50		
M23391-24-32	38	1.1/2"	- 24	2"	1.65	4.25	2.82	3.50		
M23391-32-32	51	2"	- 32	2"	1.65	5.08	2.82	3.90		
M23391-40-40*	63	2.1/2"	- 40	2.1/2"	2.05	3.48	3.32	3.74		
M23391-48-48*	76	3"	- 48	3"	2.40	4.88	4.00	4.53		

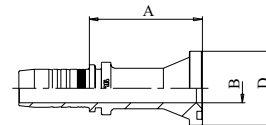
All items are made from solid with the exception of (*)
Todos los ítems son fabricados sin soldadura exceptuando (*)

MULTIFIT TYPE



SAE STANDARD CONNECTIONS

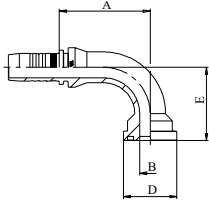
M23611



STRAIGHT SAE FLANGE 6000 psi CODE 62 - SAE J516/J518

BRIDA RECTA SAE 6000 psi CODIGO 62 - SAE J516/J518

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch					
	DN	inch	Size		B	A	D			
M23611-08-08	12	1/2"	- 08	1/2"	0.37	2.05	1.25			
M23611-08-12	12	1/2"	- 08	3/4"	0.59	2.69	1.63			
M23611-10-08	16	5/8"	- 10	1/2"	0.37	2.05	1.25			
M23611-10-12	16	5/8"	- 10	3/4"	0.59	2.76	1.63			
M23611-12-12	19	3/4"	- 12	3/4"	0.59	2.72	1.63			
M23611-12-16	19	3/4"	- 12	1"	0.79	3.19	1.88			
M23611-16-16	25	1"	- 16	1"	0.78	3.24	1.88			
M23611-16-20	25	1"	- 16	1.1/4"	1.02	3.54	2.13			
M23611-20-20	31	1.1/4"	- 20	1.1/4"	1.02	3.33	2.13			
M23611-20-24	31	1.1/4"	- 20	1.1/2"	1.26	3.56	2.51			
M23611-24-24	38	1.1/2"	- 24	1.1/2"	1.26	3.65	2.51			
M23611-32-32	51	2"	- 32	2"	1.65	4.25	3.13			



M23691

90° SAE FLANGE 6000 psi CODE 62 - SAE J516/J518
BRIDA CODO DE 90° SAE 6000 psi CODIGO 62 - SAE J516/J518

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch					
	DN	inch	Size		B	A	D	E		
M23691-08-08	12	1/2"	- 08	1/2"	0.37	2.15	1.25	1.77		
M23691-08-12	12	1/2"	- 08	3/4"	0.59	2.15	1.63	2.09		
M23691-10-12	16	5/8"	- 10	3/4"	0.59	2.20	1.63	2.28		
M23691-10-16	16	5/8"	- 10	1"	0.78	2.19	1.88	2.56		
M23691-12-12	19	3/4"	- 12	3/4"	0.59	2.52	1.63	2.32		
M23691-12-16	19	3/4"	- 12	1"	0.79	2.54	1.88	2.56		
M23691-16-16	25	1"	- 16	1"	0.78	2.89	1.88	2.68		
M23691-16-20	25	1"	- 16	1.1/4"	1.02	2.89	2.13	2.95		
M23691-20-20	31	1.1/4"	- 20	1.1/4"	1.02	3.37	2.13	3.19		
M23691-20-24	31	1.1/4"	- 20	1.1/2"	1.26	3.37	2.51	3.60		
M23691-24-24	38	1.1/2"	- 24	1.1/2"	1.26	4.17	2.51	3.72		
M23691-32-32	51	2"	- 32	2"	1.65	5.43	3.13	5.20		

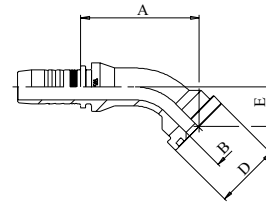
MULTIFIT TYPE



SAE STANDARD CONNECTIONS

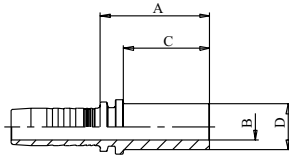
M23641

45° SAE FLANGE 6000 psi CODE 62 - SAE J516/J518
BRIDA CODO DE 45° SAE 6000 psi CODIGO 62 - SAE J516/J518



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch					
	DN	inch	Size		B	A	D	E		
M23641-08-08	12	1/2"	- 08	1/2"	0.37	2.44	1.25	0.87		
M23641-08-12	12	1/2"	- 08	3/4"	0.59	2.68	1.63	1.08		
M23641-10-12	16	5/8"	- 10	3/4"	0.59	2.66	1.63	1.22		
M23641-12-12	19	3/4"	- 12	3/4"	0.59	2.87	1.63	1.10		
M23641-12-16	19	3/4"	- 12	1"	0.79	3.03	1.88	1.28		
NEW M23641-16-12	25	1"	- 16	3/4"	0.59	3.15	1.63	1.18		
M23641-16-16	25	1"	- 16	1"	0.78	3.29	1.88	1.28		
M23641-16-20	25	1"	- 16	1.1/4"	1.02	3.48	2.13	1.48		
M23641-20-20	31	1.1/4"	- 20	1.1/4"	1.02	3.76	2.13	1.48		
M23641-20-24	31	1.1/4"	- 20	1.1/2"	1.26	4.04	2.51	1.77		
M23641-24-24	38	1.1/2"	- 24	1.1/2"	1.26	4.65	2.51	1.73		
M23641-32-32	51	2"	- 32	2"	1.65	5.96	3.13	2.38		

M22010



METRIC STANDPIPE STRAIGHT L.T. - DIN 2353
 ESPIGA LISA METRICA RECTA SERIE LIGERA - DIN 2353

PART. REF.	HOSE BORE	PIPE	DIMENSIONS inch		
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		DN	inch	Size	D	B	A	C			
NEW	M22010-03-04	5	3/16"	- 03	4	0.08	1.17	0.87			
	M22010-03-06	5	3/16"	- 03	6	0.12	1.13	0.87			
	M22010-04-06	6	1/4"	- 04	6	0.12	1.16	0.87			
	M22010-05-10	8	5/16"	- 05	10	0.28	1.20	0.91			
	M22010-06-10	10	3/8"	- 06	10	0.28	1.20	0.91			
	M22010-06-12	10	3/8"	- 06	12	0.31	1.20	0.91			
	M22010-06-15	10	3/8"	- 06	15	0.41	1.28	0.98			
	M22010-08-12	12	1/2"	- 08	12	0.31	1.22	0.91			
	M22010-08-15	12	1/2"	- 08	15	0.41	1.30	0.98			
	M22010-08-18	12	1/2"	- 08	18	0.49	1.33	1.02			
	M22010-10-18	16	5/8"	- 10	18	0.49	1.35	1.02			
	M22010-10-22	16	5/8"	- 10	22	0.59	1.43	1.10			
	M22010-12-18	19	3/4"	- 12	18	0.59	1.43	1.02			
	M22010-12-22	19	3/4"	- 12	22	0.59	1.50	1.10			
	M22010-16-28	25	1"	- 16	28	0.81	1.63	1.18			
	M22010-20-35	31	1.1/4"	- 20	35	1.02	1.91	1.42			
	M22010-24-42	38	1.1/2"	- 24	42	1.26	2.07	1.57			

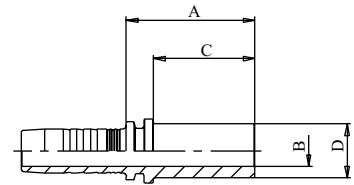
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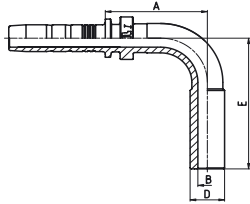
DIN STANDARD CONNECTIONS

M22110

METRIC STANDPIPE STRAIGHT H.T. - DIN 2353
ESPIGA LISA METRICA RECTA SERIE PESADA - DIN 2353



PART. REF.	HOSE BORE			PIPE	DIMENSIONS inch					
	DN	inch	Size		D	B	A	C		
M22110-03-08	5	3/16"	- 03	8	0.12	1.20	0.94			
M22110-04-08	6	1/4"	- 04	8	0.16	1.24	0.94			
M22110-04-10	6	1/4"	- 04	10	0.16	1.32	1.02			
M22110-04-12	6	1/4"	- 04	12	0.28	1.32	1.02			
M22110-05-12	8	5/16"	- 05	12	0.28	1.32	1.02			
M22110-06-14	10	3/8"	- 06	14	0.31	1.44	1.14			
M22110-08-14	12	1/2"	- 08	14	0.37	1.45	1.14			
M22110-08-16	12	1/2"	- 08	16	0.41	1.49	1.18			
M22110-10-20	16	5/8"	- 10	20	0.49	1.74	1.42			
M22110-12-20	19	3/4"	- 12	20	0.59	1.81	1.42			
M22110-12-25	19	3/4"	- 12	25	0.59	1.97	1.57			
M22110-16-25	25	1"	- 16	25	0.59	2.02	1.57			
M22110-16-30	25	1"	- 16	30	0.81	2.18	1.73			
M22110-16-38	25	1"	- 16	38	1.02	2.41	1.97			
M22110-20-30	31	1.1/4"	- 20	30	0.81	2.22	1.73			
M22110-20-38	31	1.1/4"	- 20	38	1.02	2.46	1.97			
M22110-24-38	38	1.1/2"	- 24	38	1.02	2.46	1.97			



M22090

90° METRIC STANDPIPE L.T. - DIN 2353
 ESPIGA LISA METRICA SERIE LIGERA CODO DE 90° - DIN 2353

PART. REF.	HOSE BORE			PIPE	DIMENSIONS inch					
	DN	inch	Size		D	B	A	E		
M22090-03-06	5	3/16"	- 03	6	0.12	0.89		1.34		
M22090-04-06	6	1/4"	- 04	6	0.12	0.91		1.34		
M22090-05-10	8	5/16"	- 05	10	0.28	1.16		1.57		
M22090-06-10	10	3/8"	- 06	10	0.28	1.34		1.67		
M22090-06-12	10	3/8"	- 06	12	0.31	1.34		1.77		
M22090-08-15	12	1/2"	- 08	15	0.41	1.65		2.05		
M22090-08-18	12	1/2"	- 08	18	0.49	1.65		2.17		
M22090-10-18	16	5/8"	- 10	18	0.49	1.93		2.32		
M22090-12-22	19	3/4"	- 12	22	0.59	2.15		2.48		
M22090-16-28	25	1"	- 16	28	0.78	2.66		2.95		
M22090-20-35	31	1.1/4"	- 20	35	1.02	3.17		3.70		

MULTIFIT TYPE

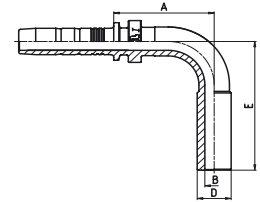


DIN STANDARD CONNECTIONS

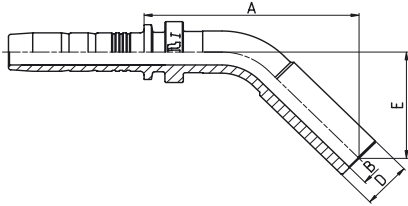
M22190

90° METRIC STANDPIPE H.T. - DIN 2353

ESPIGA LISA METRICA SERIE PESADA CODO DE 90° - DIN 2353



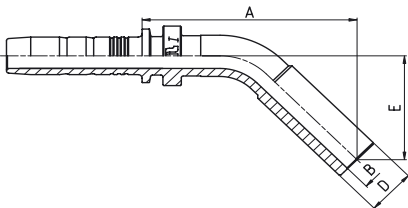
PART. REF.	HOSE BORE			PIPE	DIMENSIONS inch					
	DN	inch	Size		D	B	A	E		
M22190-04-08	6	1/4"	- 04	8	0.16	1.06		1.50		
M22190-04-10	6	1/4"	- 04	10	0.24	1.06		1.61		
M22190-04-12	6	1/4"	- 04	12	0.28	1.06		1.73		
M22190-05-12	8	5/16"	- 05	12	0.28	1.20		1.73		
M22190-06-14	10	3/8"	- 06	14	0.37	1.38		2.01		
M22190-08-14	12	1/2"	- 08	14	0.37	1.65		2.11		
M22190-08-16	12	1/2"	- 08	16	0.41	1.69		2.17		
M22190-10-20	16	5/8"	- 10	20	0.49	1.93		2.62		
M22190-12-20	19	3/4"	- 12	20	0.59	2.15		2.72		
M22190-12-25	19	3/4"	- 12	25	0.59	2.26		2.95		
M22190-16-25	25	1"	- 16	25	0.59	2.42		3.01		
M22190-16-30	25	1"	- 16	30	0.78	2.74		3.43		



M22040

45° METRIC STANDPIPE L.T. - DIN 2353
ESPIGA LISA METRICA SERIE LIGERA CODO DE 45° - DIN 2353

PART. REF.	HOSE BORE			PIPE	DIMENSIONS inch					
	DN	inch	Size		D	B	A	E		
M22040-04-06	6	1/4"	- 04	6	0.12	1.50	0.81			
M22040-05-10	8	5/16"	- 05	10	0.28	1.75	0.89			
M22040-06-10	10	3/8"	- 06	10	0.28	1.87	0.91			
M22040-06-12	10	3/8"	- 06	12	0.31	1.95	0.98			
M22040-08-15	12	1/2"	- 08	15	0.41	2.28	1.10			
M22040-10-18	16	5/8"	- 10	18	0.49	2.50	1.20			
M22040-12-22	19	3/4"	- 12	22	0.59	2.72	1.26			
M22040-16-28	25	1"	- 16	28	0.78	3.21	1.46			



M22140

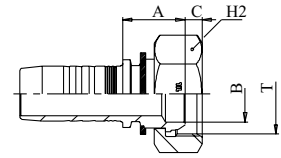
45° METRIC STANDPIPE H.T. - DIN 2353
ESPIGA LISA METRICA SERIE PESADA CODO DE 45° - DIN 2353

PART. REF.	HOSE BORE			PIPE	DIMENSIONS inch					
	DN	inch	Size		D	B	A	E		
M22140-04-08	6	1/4"	- 04	8	0.16	1.65	0.87			
M22140-04-10	6	1/4"	- 04	10	0.24	1.73	0.94			
M22140-06-14	10	3/8"	- 06	14	0.37	2.15	1.14			
M22140-08-16	12	1/2"	- 08	16	0.41	2.40	1.18			
M22140-10-20	16	5/8"	- 10	20	0.49	2.72	1.42			
M22140-12-25	19	3/4"	- 12	25	0.59	3.17	1.59			
M22140-16-25	25	1"	- 16	25	0.59	3.23	1.61			

DIN STANDARD CONNECTIONS

M21013

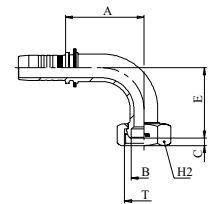
METRIC FEMALE 60° CONE - DIN 20078/3863
 HEMBRA METRICA ASIEN TO A 60° - DIN 20078/3863



PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
	DN	inch	Size		T	B	A	C		H ₂
M21013-12-30	19	3/4"	- 12	M 30x1.5	0.79	0.83	0.32			1.42
M21013-16-38	25	1"	- 16	M 38x1.5	1.02	0.90	0.30			1.81
M21013-20-45	31	1.1/4"	- 20	M 45x1.5	1.30	0.93	0.32			1.97
M21013-24-52	38	1.1/2"	- 24	M 52x1.5	1.57	0.98	0.32			2.36

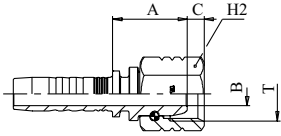
M21093

90° METRIC FEMALE SWEEP ELBOW 60° CONE - DIN 20078/3863
 HEMBRA METRICA CODO DE 90° ASIEN TO A 60° - DIN 20078/3863



PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
	DN	inch	Size		T	B	A	C	E	H ₂
M21093-12-30	19	3/4"	- 12	M 30x1.5	0.79	2.42	0.32	2.15		1.42
M21093-16-38	25	1"	- 16	M 38x1.5	1.02	3.01	0.30	2.48		1.81

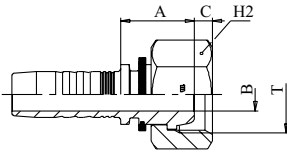
DIN STANDARD CONNECTIONS



M21312

**METRIC FEMALE MULTISEAL - DIN 20078/3868
(THRUST-WIRE NUT)**

HEMBRA METRICA ASIEN TO UNIVERSAL - DIN 20078/3868
(TUERCA CON SEGURO)



M21313

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

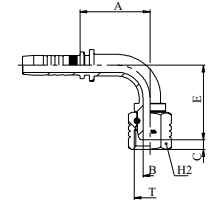
HEMBRA METRICA ASIEN TO UNIVERSAL - DIN 20078/3868
(TUERCA LIBRE)

PART. REF.	HOSE BORE		THREAD	PIPE	DIMENSIONS inch					
	DN	inch			B	A	C	H ₂		
M21313-03-12	5	3/16"	- 03	M 12x1.5	6	0.12	0.73	0.15		0.55
M21313-04-14	6	1/4"	- 04	M 14x1.5	8	0.16	0.77	0.15		0.67
M21313-04-16	6	1/4"	- 04	M 16x1.5	10	0.16	0.77	0.16		0.75
M21313-05-16	8	5/16"	- 05	M 16x1.5	10	0.22	0.77	0.16		0.75
M21313-05-18	8	5/16"	- 05	M 18x1.5	12	0.22	0.77	0.16		0.87
M21312-06-16	10	3/8"	- 06	M 16x1.5	10	0.28	0.85	0.20		0.75
M21313-06-18	10	3/8"	- 06	M 18x1.5	12	0.28	0.79	0.16		0.87
M21313-06-22	10	3/8"	- 06	M 22x1.5	15	0.28	0.83	0.20		1.06
M21313-08-22	12	1/2"	- 08	M 22x1.5	15	0.37	0.85	0.20		1.06
M21313-10-26	16	5/8"	- 10	M 26x1.5	18	0.49	0.87	0.22		1.26

DIN STANDARD CONNECTIONS

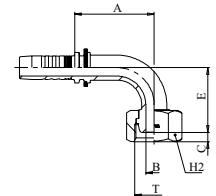
M21392

90° METRIC FEMALE SWEPT ELBOW MULTISEAL
 DIN 20078/3868 (THRUST-WIRE NUT)
 HEMBRA METRICA CODO DE 90° ASIEN TO UNIVERSAL
 DIN 20078/3868 (TUERCA CON SEGURO)



M21393

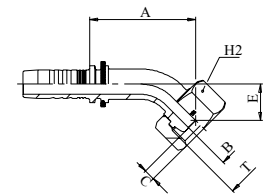
90° METRIC FEMALE SWEPT ELBOW MULTISEAL
 DIN 20078/3868 (SLIP-ON NUT)
 HEMBRA METRICA CODO DE 90° ASIEN TO UNIVERSAL
 DIN 20078/3868 (TUERCA LIBRE)



PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS inch					
	DN	inch	Size			T	mm	B	A	C	E
M21393-04-14	6	1/4"	- 04	M 14x1.5	8	0.16	1.16	0.15	1.16		0.67
M21393-04-16	6	1/4"	- 04	M 16x1.5	10	0.16	1.16	0.16	1.16		0.75
M21393-05-16	8	5/16"	- 05	M 16x1.5	10	0.22	1.26	0.16	1.14		0.75
M21392-06-16	10	3/8"	- 06	M 16x1.5	10	0.28	1.40	0.20	1.50		0.75
M21393-06-18	10	3/8"	- 06	M 18x1.5	12	0.28	1.44	0.16	1.24		0.87
M21393-06-22	10	3/8"	- 06	M 22x1.5	15	0.28	1.44	0.20	1.26		1.06
M21393-08-22	12	1/2"	- 08	M 22x1.5	15	0.37	1.77	0.20	1.44		1.06
M21393-10-26	16	5/8"	- 10	M 26x1.5	18	0.49	2.03	0.22	1.97		1.26

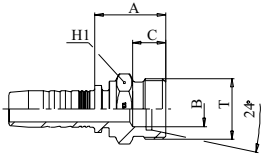
M21343

45° METRIC FEMALE SWEPT ELBOW MULTISEAL
 DIN 20078/3868 (SLIP-ON NUT)
 HEMBRA METRICA CODO DE 45° ASIEN TO UNIVERSAL
 DIN 20078/3868 (TUERCA LIBRE)



PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS inch					
	DN	inch	Size			T	mm	B	A	C	E
M21343-04-14	6	1/4"	- 04	M 14x1.5	8	0.16	1.44	0.15	0.59		0.67
M21343-04-16	6	1/4"	- 04	M 16x1.5	10	0.16	1.44	0.16	0.59		0.75
M21343-05-16	8	5/16"	- 05	M 16x1.5	10	0.22	1.54	0.16	0.59		0.75
M21343-06-18	10	3/8"	- 06	M 18x1.5	12	0.28	1.65	0.16	0.61		0.87
M21343-06-22	10	3/8"	- 06	M 22x1.5	15	0.28	1.67	0.20	0.61		1.06
M21343-08-22	12	1/2"	- 08	M 22x1.5	15	0.37	1.95	0.20	0.67		1.06
M21343-10-26	16	5/8"	- 10	M 26x1.5	18	0.49	2.36	0.22	0.94		1.26

M11110



METRIC MALE 24° CONE SEAT L.T. - DIN 20066/3861
 MACHO METRICO ASIEN TO A 24° SERIE LIGERA DIN 20066/3861

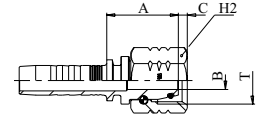
PART. REF.	HOSE BORE		THREAD	PIPE	DIMENSIONS inch					
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	DN	inch	Size	T	mm	B	A	C	H ₁	
M11110-04-12	6	1/4"	- 04	M 12x1.5	6	0.16	0.85	0.39	0.55	
M11110-04-14	6	1/4"	- 04	M 14x1.5	8	0.16	0.85	0.39	0.55	
M11110-04-16	6	1/4"	- 04	M 16x1.5	10	0.28	0.93	0.43	0.67	
NEW M11110-04-18	6	1/4"	- 04	M 18x1.5	12	0.35	0.93	0.43	0.75	
M11110-05-16	8	5/16"	- 05	M 16x1.5	10	0.28	0.94	0.43	0.67	
M11110-05-18	8	5/16"	- 05	M 18x1.5	12	0.35	0.94	0.43	0.75	
M11110-06-16	10	3/8"	- 06	M 16x1.5	10	0.28	0.95	0.43	0.67	
M11110-06-18	10	3/8"	- 06	M 18x1.5	12	0.35	0.97	0.43	0.75	
M11110-06-22	10	3/8"	- 06	M 22x1.5	15	0.39	1.01	0.47	0.87	
M11110-08-22	12	1/2"	- 08	M 22x1.5	15	0.39	1.01	0.47	0.87	
M11110-08-26	12	1/2"	- 08	M 26x1.5	18	0.49	1.04	0.47	1.06	
M11110-10-22	16	5/8"	- 10	M 22x1.5	15	0.39	1.00	0.47	0.87	
M11110-10-26	16	5/8"	- 10	M 26x1.5	18	0.49	1.05	0.47	1.06	
M11110-12-30	19	3/4"	- 12	M 30x2	22	0.59	1.18	0.55	1.18	
M11110-16-36	25	1"	- 16	M 36x2	28	0.79	1.27	0.55	1.42	
M11110-20-45	31	1.1/4"	- 20	M 45x2	35	1.02	1.59	0.63	1.81	
M11110-24-52	38	1.1/2"	- 24	M 52x2	42	1.26	1.68	0.63	2.17	

DIN STANDARD CONNECTIONS

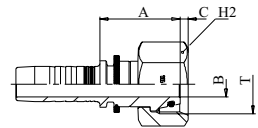
M21512

O-RING METRIC FEMALE 24° CONE L.T.
 DIN 20066/3865 (THRUST-WIRE NUT)
 HEMBRA METRICA CON O-RING ASIEN TO A 24° SERIE LIGERA
 DIN 20066/3865 (TUERCA CON SEGURO)



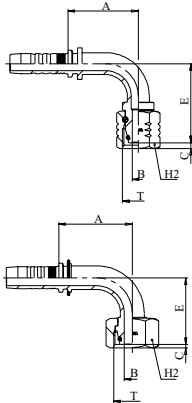
M21513

O-RING METRIC FEMALE 24° CONE L.T.
 DIN 20066/3865 (SLIP-ON NUT)
 HEMBRA METRICA CON O-RING ASIEN TO A 24° SERIE LIGERA
 DIN 20066/3865 (TUERCA LIBRE)



PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS inch				
	DN	inch	Size			T	mm	B	A	C
M21513-03-12	5	3/16"	- 03	M 12x1.5	6	0.12	0.86	0.07		0.55
M21512-04-12	6	1/4"	- 04	M 12x1.5	6	0.12	0.83	0.09		0.67
M21513-04-14	6	1/4"	- 04	M 14x1.5	8	0.16	0.87	0.07		0.67
M21513-04-16	6	1/4"	- 04	M 16x1.5	10	0.24	0.89	0.08		0.75
M21513-04-18	6	1/4"	- 04	M 18x1.5	12	0.28	0.86	0.09		0.87
M21512-05-14	8	5/16"	- 05	M 14x1.5	8	0.16	0.79	0.07		0.67
M21513-05-16	8	5/16"	- 05	M 16x1.5	10	0.24	0.89	0.08		0.75
M21513-05-18	8	5/16"	- 05	M 18x1.5	12	0.28	0.86	0.09		0.87
M21512-06-16	10	3/8"	- 06	M 16x1.5	10	0.24	0.91	0.12		0.75
M21513-06-18	10	3/8"	- 06	M 18x1.5	12	0.28	0.88	0.09		0.87
M21513-06-22	10	3/8"	- 06	M 22x1.5	15	0.37	0.98	0.09		1.06
NEW M21512-08-18	12	1/2"	- 08	M 18x1.5	12	0.28	1.14	0.11		0.87
M21513-08-22	12	1/2"	- 08	M 22x1.5	15	0.37	1.00	0.09		1.06
M21513-08-26	12	1/2"	- 08	M 26x1.5	18	0.49	1.03	0.10		1.26
M21513-10-26	16	5/8"	- 10	M 26x1.5	18	0.49	1.02	0.10		1.26
NEW M21513-10-30	16	5/8"	- 10	M 30x2	22	0.59	1.34	0.14		1.42
M21512-12-26	19	3/4"	- 12	M 26x1.5	18	0.49	1.22	0.14		1.26
M21513-12-30	19	3/4"	- 12	M 30x2	22	0.59	1.11	0.14		1.42
M21513-12-36	19	3/4"	- 12	M 36x2	28	0.79	1.11	0.15		1.61
M21513-16-36	25	1"	- 16	M 36x2	28	0.78	1.16	0.15		1.61
M21513-20-45	31	1.1/4"	- 20	M 45x2	35	1.02	1.30	0.20		1.97
M21513-24-52	38	1.1/2"	- 24	M 52x2	42	1.26	1.57	0.20		2.36

DIN STANDARD CONNECTIONS



M21592

90° O-RING METRIC FEMALE SWEEP ELBOW 24° CONE L.T.
DIN 20066/3865 (THRUST-WIRE NUT)
 HEMBRA METRICA CON O-RING CODO DE 90° ASIENTO A 24°
 SERIE LIGERA - DIN 20066/3865 (TUERCA CON SEGURO)

M21593

90° O-RING METRIC FEMALE SWEEP ELBOW 24° CONE L.T.
DIN 20066/3865 (SLIP-ON NUT)
 HEMBRA METRICA CON O-RING CODO DE 90° ASIENTO A 24°
 SERIE LIGERA - DIN 20066/3865 (TUERCA LIBRE)

PART. REF.	HOSE BORE		THREAD	PIPE	DIMENSIONS inch						
	DN	inch			Size	T	mm	B	A	C	E
M21593-03-12	5	3/16"	- 03	M 12x1.5	6	0.12	1.02	0.07	1.18	0.55	
M21592-04-12	6	1/4"	- 04	M 12x1.5	6	0.12	1.12	0.09	1.28	0.67	
M21593-04-14	6	1/4"	- 04	M 14x1.5	8	0.16	1.16	0.07	1.24	0.67	
M21593-04-16	6	1/4"	- 04	M 16x1.5	10	0.24	1.16	0.08	1.26	0.75	
M21593-04-18	6	1/4"	- 04	M 18x1.5	12	0.28	1.16	0.09	1.30	0.87	
M21593-05-16	8	5/16"	- 05	M 16x1.5	10	0.24	1.26	0.08	1.28	0.75	
M21593-05-18	8	5/16"	- 05	M 18x1.5	12	0.28	1.26	0.09	1.38	1.06	
M21592-06-16	10	3/8"	- 06	M 16x1.5	10	0.24	1.40	0.12	1.57	0.75	
M21593-06-18	10	3/8"	- 06	M 18x1.5	12	0.28	1.44	0.09	1.32	0.87	
M21593-06-22	10	3/8"	- 06	M 22x1.5	15	0.37	1.44	0.09	1.38	1.06	
NEW M21592-08-18	12	1/2"	- 08	M 18x1.5	12	0.28	1.73	0.11	1.89	0.87	
M21593-08-22	12	1/2"	- 08	M 22x1.5	15	0.37	1.77	0.09	1.56	1.06	
NEW M21593-08-26	12	1/2"	- 08	M 26x1.5	18	0.49	1.77	0.10	1.57	1.26	
M21593-10-26	16	5/8"	- 10	M 26x1.5	18	0.49	2.03	0.10	2.09	1.26	
M21593-10-30	16	5/8"	- 10	M 30x2	22	0.59	2.03	0.14	2.13	1.42	
M21593-12-30	19	3/4"	- 12	M 30x2	22	0.59	2.42	0.14	2.32	1.42	
M21593-16-36	25	1"	- 16	M 36x2	28	0.78	3.01	0.15	2.74	1.61	
M21593-20-45	31	1.1/4"	- 20	M 45x2	35	1.02	3.68	0.20	3.19	1.97	
M21593-24-52	38	1.1/2"	- 24	M 52x2	42	1.26	4.23	0.20	3.86	2.36	

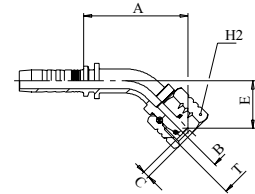
DIN STANDARD CONNECTIONS

M21542

45° O-RING METRIC FEMALE SWEEP ELBOW 24° CONE L.T.

DIN 20066/3865 (THRUST-WIRE NUT)

HEMBRA METRICA CON O-RING CODO DE 45° ASIENTO A 24°
SERIE LIGERA - DIN 20066/3865 (TUERCA CON SEGURO)

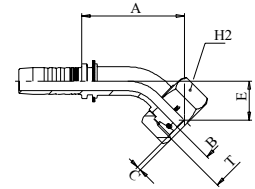


M21543

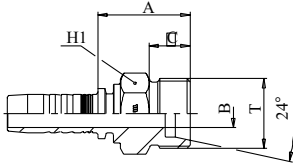
45° O-RING METRIC FEMALE SWEEP ELBOW 24° CONE L.T.

DIN 20066/3865 (SLIP-ON NUT)

HEMBRA METRICA CON O-RING CODO DE 45° ASIENTO A 24°
SERIE LIGERA - DIN 20066/3865 (TUERCA LIBRE)



PART. REF.	HOSE BORE		THREAD	PIPE	DIMENSIONS inch						
	DN	inch			Size	T	mm	B	A	C	E
M21543-04-14	6	1/4"	- 04	M 14x1.5	8	0.16	1.50	0.07	0.65		0.67
M21543-04-16	6	1/4"	- 04	M 16x1.5	10	0.24	1.50	0.08	0.67		0.75
M21543-05-16	8	5/16"	- 05	M 16x1.5	10	0.24	1.63	0.08	0.69		0.75
M21543-05-18	8	5/16"	- 05	M 18x1.5	12	0.28	1.63	0.09	0.67		0.87
M21542-06-16	10	3/8"	- 06	M 16x1.5	10	0.24	1.87	0.12	0.85		0.75
M21543-06-18	10	3/8"	- 06	M 18x1.5	12	0.28	1.71	0.09	0.65		0.87
M21543-06-22	10	3/8"	- 06	M 22x1.5	15	0.37	1.77	0.09	0.71		1.06
M21543-08-22	12	1/2"	- 08	M 22x1.5	15	0.37	2.05	0.09	0.75		1.06
M21543-10-26	16	5/8"	- 10	M 26x1.5	18	0.49	2.44	0.10	1.04		1.26
M21543-12-30	19	3/4"	- 12	M 30x2	22	0.59	2.80	0.14	1.12		1.42
M21543-16-36	25	1"	- 16	M 36x2	28	0.78	3.35	0.15	1.26		1.61
M21543-20-45	31	1.1/4"	- 20	M 45x2	35	1.02	3.92	0.20	1.42		1.97
M21543-24-52	38	1.1/2"	- 24	M 52x2	42	1.26	4.61	0.20	1.75		2.36



M11210

METRIC MALE 24° CONE SEAT H.T. - DIN 20066/3861
 MACHO METRICO ASIENTO A 24° - SERIE PESADA DIN 20066/3861

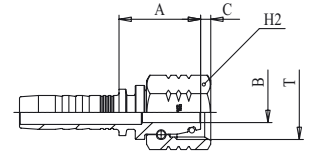
PART. REF.	HOSE BORE		THREAD	PIPE	DIMENSIONS					
	DN	inch			inch					

	DN	inch	Size	T	mm	B	A	C	H ₁	
M11210-04-16	6	1/4"	- 04	M 16x1.5	8	0.16	1.00	0.47	0.67	
M11210-04-18	6	1/4"	- 04	M 18x1.5	10	0.24	1.04	0.47	0.75	
NEW M11210-04-20	6	1/4"	- 04	M 20x1.5	12	0.28	1.14	0.47	0.87	
M11210-05-20	8	5/16"	- 05	M 20x1.5	12	0.28	1.14	0.47	0.87	
M11210-06-18	10	3/8"	- 06	M 18x1.5	10	0.28	1.07	0.47	0.75	
M11210-06-20	10	3/8"	- 06	M 20x1.5	12	0.28	1.15	0.47	0.87	
M11210-06-22	10	3/8"	- 06	M 22x1.5	14	0.31	1.22	0.55	0.87	
M11210-08-24	12	1/2"	- 08	M 24x1.5	16	0.37	1.24	0.55	0.94	
M11210-10-30	16	5/8"	- 10	M 30x2	20	0.59	1.41	0.63	1.18	
M11210-12-30	19	3/4"	- 12	M 30x2	20	0.59	1.46	0.63	1.18	
M11210-12-36	19	3/4"	- 12	M 36x2	25	0.78	1.61	0.71	1.42	
M11210-16-36	25	1"	- 16	M 36x2	25	0.78	1.67	0.71	1.42	
M11210-16-42	25	1"	- 16	M 42x2	30	0.98	1.74	0.79	1.81	
M11210-20-52	31	1.1/4"	- 20	M 52x2	38	1.18	1.99	0.87	2.17	

DIN STANDARD CONNECTIONS

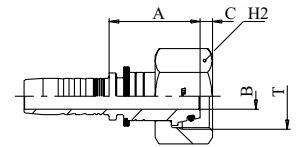
M21612

**O-RING METRIC FEMALE 24° CONE H.T.
DIN 20066/3865 (THRUST-WIRE NUT)**
HEMBRA METRICA CON O-RING ASIEN TO A 24°
SERIE PESADA - DIN 20066/3865 (TUERCA CON SEGURO)

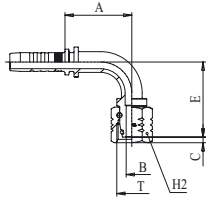


M21613

**O-RING METRIC FEMALE 24° CONE H.T.
DIN 20066/3865 (SLIP-ON NUT)**
HEMBRA METRICA CON O-RING ASIEN TO A 24°
SERIE PESADA - DIN 20066/3865 (TUERCA LIBRE)

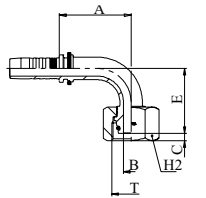


PART. REF.	HOSE BORE		THREAD	PIPE	DIMENSIONS inch					
	DN	inch			Size	T	mm	B	A	C
M21613-03-16	5	3/16"	- 03	M 16x1.5	8	0.13	0.85	0.15		0.75
M21613-04-14	6	1/4"	- 04	M 14x1.5	6	0.12	0.93	0.14		0.67
M21613-04-16	6	1/4"	- 04	M 16x1.5	8	0.16	0.87	0.15		0.75
M21613-04-18	6	1/4"	- 04	M 18x1.5	10	0.16	1.10	0.12		0.87
M21613-04-20	6	1/4"	- 04	M 20x1.5	12	0.28	1.01	0.10		0.94
M21613-05-18	8	5/16"	- 05	M 18x1.5	10	0.22	1.10	0.12		0.87
M21613-05-20	8	5/16"	- 05	M 20x1.5	12	0.22	0.98	0.10		0.94
M21613-06-20	10	3/8"	- 06	M 20x1.5	12	0.28	1.00	0.10		0.94
M21613-06-22	10	3/8"	- 06	M 22x1.5	14	0.28	1.28	0.12		1.06
M21613-08-24	12	1/2"	- 08	M 24x1.5	16	0.37	1.05	0.12		1.18
M21613-10-30	16	5/8"	- 10	M 30x2	20	0.49	1.20	0.14		1.42
M21612-12-30	19	3/4"	- 12	M 30x2	20	0.49	1.32	0.09		1.42
M21613-12-36	19	3/4"	- 12	M 36x2	25	0.59	1.34	0.18		1.61
M21612-16-36	25	1"	- 16	M 36x2	25	0.59	1.39	0.07		1.61
M21613-16-42	25	1"	- 16	M 42x2	30	0.78	1.39	0.25		1.97
M21613-20-52	31	1.1/4"	- 20	M 52x2	38	1.02	1.41	0.31		2.36
M21613-24-52	38	1.1/2"	- 24	M 52x2	38	1.02	1.95	0.31		2.36



M21692

**90° O-RING METRIC FEMALE SWEPT ELBOW 24° CONE H.T.
DIN 20066/3865 (THRUST-WIRE NUT)**
HEMBRA METRICA CON O-RING CODO DE 90° ASIEN TO A 24°
SERIE PESADA - DIN 20066/3865 (TUERCA CON SEGURO)



M21693

**90° O-RING METRIC FEMALE SWEPT ELBOW 24° CONE H.T.
DIN 20066/3865 (SLIP-ON NUT)**
HEMBRA METRICA CON O-RING CODO DE 90° ASIEN TO A 24°
SERIE PESADA - DIN 20066/3865 (TUERCA LIBRE)

PART. REF.	HOSE BORE	THREAD	PIPE	DIMENSIONS inch						
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	DN	inch	Size	T	mm	B	A	C	E	H ₂
M21693-04-16	6	1/4"	- 04	M 16x1.5	8	0.16	1.16	0.15	1.14	0.75
M21693-04-18	6	1/4"	- 04	M 18x1.5	10	0.16	1.16	0.12	1.22	0.87
NEW M21693-04-20	6	1/4"	- 04	M 20x1.5	12	0.22	1.16	0.10	1.36	0.94
M21693-05-20	8	5/16"	- 05	M 20x1.5	12	0.22	1.26	0.10	1.34	0.94
M21693-06-20	10	3/8"	- 06	M 20x1.5	12	0.28	1.44	0.10	1.38	0.94
M21693-06-22	10	3/8"	- 06	M 22x1.5	14	0.28	1.44	0.12	1.46	1.06
NEW M21693-06-24	10	3/8"	- 06	M 24x1.5	16	0.37	1.44	0.12	1.42	1.18
M21693-08-24	12	1/2"	- 08	M 24x1.5	16	0.37	1.77	0.12	1.59	1.18
M21693-10-30	16	5/8"	- 10	M 30x2	20	0.49	2.03	0.14	2.26	1.42
M21692-12-30	19	3/4"	- 12	M 30x2	20	0.49	2.42	0.09	2.66	1.42
M21693-12-36	19	3/4"	- 12	M 36x2	25	0.59	2.42	0.18	2.54	1.61
M21692-16-36	25	1"	- 16	M 36x2	25	0.59	3.13	0.07	3.39	1.61
M21693-16-42	25	1"	- 16	M 42x2	30	0.78	3.11	0.25	2.93	1.97
M21693-20-52	31	1.1/4"	- 20	M 52x2	38	1.02	3.68	0.31	3.37	1.97

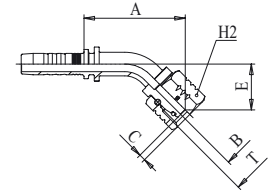
MULTIFIT TYPE



DIN STANDARD CONNECTIONS

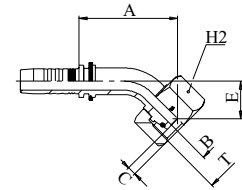
M21642

**45° O-RING METRIC FEMALE SWEEP ELBOW 24° CONE H.T.
DIN 20066/3865 (THRUST-WIRE NUT)**
HEMBRA METRICA CON O-RING CODO DE 45° CONO 24°
SERIE PESADA - DIN 20066/3865 (TUERCA CON SEGURO)



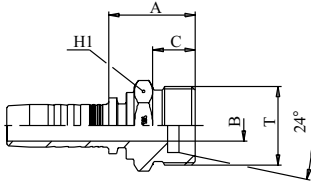
M21643

**45° O-RING METRIC FEMALE SWEEP ELBOW 24° CONE H.T.
DIN 20066/3865 (SLIP-ON NUT)**
HEMBRA METRICA CON O-RING CODO DE 45° ASIENTO A 24°
SERIE PESADA - DIN 20066/3865 (TUERCA LIBRE)



PART. REF.	HOSE BORE	THREAD	PIPE	DIMENSIONS inch
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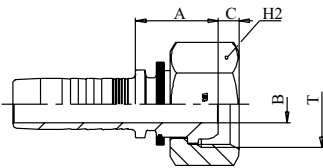
	DN	inch	Size	T	mm	B	A	C	E	H ₂
M21643-04-16	6	1/4"	- 04	M 16x1.5	8	0.16	1.42	0.15	0.59	0.75
M21643-04-18	6	1/4"	- 04	M 18x1.5	10	0.16	1.48	0.12	0.65	0.87
M21643-05-20	8	5/16"	- 05	M 20x1.5	12	0.22	1.67	0.10	0.73	0.94
M21643-06-20	10	3/8"	- 06	M 20x1.5	12	0.28	1.77	0.10	0.71	0.94
M21643-06-22	10	3/8"	- 06	M 22x1.5	14	0.28	1.83	0.12	0.77	1.06
M21643-08-24	12	1/2"	- 08	M 24x1.5	16	0.37	2.07	0.12	0.79	1.18
M21643-10-30	16	5/8"	- 10	M 30x2	20	0.49	2.58	0.14	1.16	1.42
M21642-12-30	19	3/4"	- 12	M 30x2	20	0.49	3.01	0.09	1.34	1.42
M21643-12-36	19	3/4"	- 12	M 36x2	25	0.59	2.95	0.18	1.28	1.61
M21643-16-42	25	1"	- 16	M 42x2	30	0.78	3.54	0.25	1.40	1.97
M21643-20-52	31	1.1/4"	- 20	M 52x2	38	1.02	4.06	0.31	1.56	2.36



M11710

FRENCH METRIC MALE 24° CONE SEAT MILLIMETRIC TYPE
MACHO METRICO FRANCES ASIEN TO A 24° TIPO MILIMETRICO

PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS inch				
	DN	inch	Size			T	mm	B	A	C
M11710-10-2718	16	5/8"	- 10	M 27x 1.5	18	0.49	1.13	0.55		1.10
M11710-10-2720	16	5/8"	- 10	M 27x 1.5	20	0.49	1.13	0.55		1.10
M11710-12-30	19	3/4"	- 12	M 30x 1.5	22	0.59	1.18	0.55		1.18
M11710-12-33	19	3/4"	- 12	M 33x 1.5	25	0.59	1.22	0.55		1.34



M21713

FRENCH METRIC FEMALE MILLIMETRIC TYPE (SLIP-ON NUT)
HEMBRA METRICA FRANCES TIPO MILIMETRICO (TUERCA LIBRE)

PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS inch				
	DN	inch	Size			T	mm	B	A	C
M21713-10-2718	16	5/8"	- 10	M 27x 1.5	18	0.49	0.87	0.20		1.26
M21713-10-2720	16	5/8"	- 10	M 27x 1.5	20	0.49	0.87	0.20		1.26
M21713-12-30	19	3/4"	- 12	M 30x 1.5	22	0.59	1.00	0.16		1.42
M21713-12-33	19	3/4"	- 12	M 33x 1.5	25	0.59	1.00	0.16		1.50
M21713-16-36	25	1"	- 16	M 36x 1.5	28	0.78	1.09	0.19		1.61
M21713-16-39	25	1"	- 16	M 39x 1.5	30	0.78	1.11	0.17		1.81

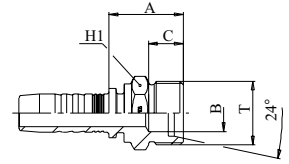
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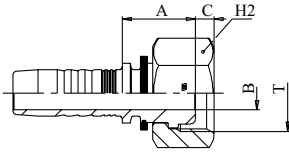
NF STANDARD CONNECTIONS

M11810

FRENCH METRIC MALE 24° CONE SEAT GAZ TYPE
MACHO METRICO FRANCES ASIEN TO A 24° TIPO GAZ



PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS inch				
	DN	inch	Size			T	mm	B	A	C
M11810-05-20	8	5/16"	- 05	M 20x1.5	13.25	0.31	1.06	0.47		0.87
M11810-06-20	10	3/8"	- 06	M 20x1.5	13.25	0.31	1.09	0.47		0.87
M11810-06-24	10	3/8"	- 06	M 24x1.5	16.75	0.47	1.11	0.47		0.94
M11810-08-24	12	1/2"	- 08	M 24x1.5	16.75	0.47	1.12	0.47		0.94
M11810-10-30	16	5/8"	- 10	M 30x1.5	21.25	0.59	1.25	0.55		1.18
M11810-12-36	19	3/4"	- 12	M 36x1.5	26.75	0.83	1.34	0.55		1.42
M11810-16-45	25	1"	- 16	M 45x1.5	33.50	1.02	1.55	0.63		1.81

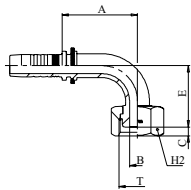


M21813

FRENCH METRIC FEMALE GAZ TYPE (SLIP-ON NUT)
HEMBRA METRICA FRANCES TIPO GAZ (TUERCA LIBRE)

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

	DN	inch	Size	T	mm	B	A	C			H ₂
M21813-04-20	6	1/4"	- 04	M 20x1.5	13.25	0.28	0.87	0.17			0.94
M21813-05-20	8	5/16"	- 05	M 20x1.5	13.25	0.28	0.87	0.17			0.94
M21813-06-20	10	3/8"	- 06	M 20x1.5	13.25	0.28	0.89	0.17			0.94
M21813-06-24	10	3/8"	- 06	M 24x1.5	16.75	0.37	1.01	0.16			1.18
M21813-08-24	12	1/2"	- 08	M 24x1.5	16.75	0.37	1.04	0.16			1.18
M21813-08-30	12	1/2"	- 08	M 30x1.5	21.25	0.49	0.93	0.20			1.42
M21813-10-30	16	5/8"	- 10	M 30x1.5	21.25	0.49	0.93	0.20			1.42
M21813-12-36	19	3/4"	- 12	M 36x1.5	26.75	0.59	1.06	0.19			1.61
M21813-16-45	25	1"	- 16	M 45x1.5	33.50	0.78	1.06	0.18			1.97



M21893

90° FRENCH METRIC FEMALE GAZ TYPE (SLIP-ON NUT)
HEMBRA METRICA FRANCES CODO DE 90° TIPO GAZ (TUERCA LIBRE)

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

	DN	inch	Size	T	mm	B	A	C	E		H ₂
M21893-05-20	8	5/16"	- 05	M 20x1.5	13.25	0.28	1.26	0.17	1.16		0.94
M21893-06-20	10	3/8"	- 06	M 20x1.5	13.25	0.28	1.44	0.17	1.32		0.94
M21893-08-24	12	1/2"	- 08	M 24x1.5	16.75	0.47	1.77	0.16	1.61		1.18
M21893-10-30	16	5/8"	- 10	M 30x1.5	21.25	0.49	2.03	0.20	2.11		1.42
M21893-12-36	19	3/4"	- 12	M 36x1.5	26.75	0.59	2.42	0.19	2.36		1.61

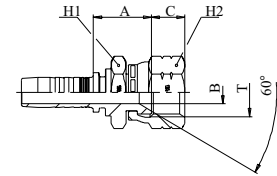
MULTIFIT TYPE



JIS STANDARD CONNECTIONS

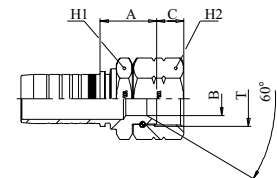
M24011

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)



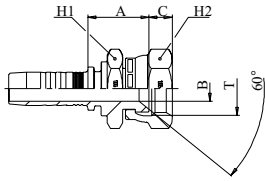
M24012

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)



PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
	DN	inch	Size		T	B	A	C	H ₁	H ₂
M24011-04-14	6	1/4"	- 04	M 14x1.5	0.16	0.91	0.41		0.75	0.75
M24011-04-18	6	1/4"	- 04	M 18x1.5	0.16	0.89	0.45		0.94	0.94
M24011-05-16	8	5/16"	- 05	M 16x1.5	0.22	0.89	0.37		0.83	0.83
M24011-06-14	10	3/8"	- 06	M 14x1.5	0.16	0.93	0.41		0.75	0.75
M24011-06-18	10	3/8"	- 06	M 18x1.5	0.28	0.93	0.45		0.94	0.94
M24011-08-22	12	1/2"	- 08	M 22x1.5	0.37	0.98	0.55		1.06	1.06
M24011-10-24	16	5/8"	- 10	M 24x1.5	0.49	1.05	0.59		1.26	1.26
M24011-12-30	19	3/4"	- 12	M 30x1.5	0.59	1.24	0.72		1.42	1.42
M24011-16-33	25	1"	- 16	M 33x1.5	0.78	1.31	0.84		1.61	1.61
M24011-20-36	31	1.1/4"	- 20	M 36x1.5	0.78	1.61	0.79		1.81	1.81
M24012-24-42	38	1.1/2"	- 24	M 42x1.5	1.02	1.73	0.74		2.17	2.17

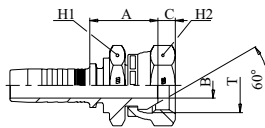
JIS STANDARD CONNECTIONS



M23811

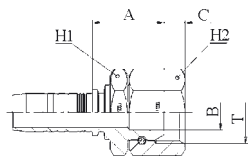
**JIS BSP FEMALE 60° CONE SEAT (TOYOTA) - JIS B 8363
(CRIMPED-BACK NUT)**
HEMBRA JIS BSP ASIENTO A 60° (TOYOTA) - JIS B 8363
(TUERCA PRENSADA)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
	DN	inch	Size		T	B	A	C	H ₁	H ₂
M23811-04-04	6	1/4"	- 04	1/4" - 19	0.16	0.73	0.33		0.75	0.75
M23811-06-06	10	3/8"	- 06	3/8" - 19	0.28	0.91	0.39		0.87	0.87
M23811-08-08	12	1/2"	- 08	1/2" - 14	0.37	0.91	0.45		1.06	1.06
M23811-12-12	19	3/4"	- 12	3/4" - 14	0.59	1.02	0.53		1.26	1.26
M23811-16-16	25	1"	- 16	1" - 11	0.78	1.19	0.57		1.50	1.50



M20711

**JIS BSP FEMALE 60° CONE (NISSAN) - JIS B 8363
(CRIMPED-BACK NUT)**
HEMBRA JIS BSP ASIENTO A 60° (NISSAN) - JIS B 8363
(TUERCA PRENSADA)



M20712

**JIS BSP FEMALE 60° CONE (NISSAN) - JIS B 8363
(THRUST-WIRE NUT)**
HEMBRA JIS BSP ASIENTO A 60° (NISSAN) - JIS 8363
(TUERCA CON SEGURO)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
	DN	inch	Size		T	B	A	C	H ₁	H ₂
M20711-04-04	6	1/4"	- 04	1/4" - 19	0.16	0.89	0.18		0.75	0.75
M20711-06-06	10	3/8"	- 06	3/8" - 19	0.28	0.97	0.25		0.87	0.87
M20711-08-08	12	1/2"	- 08	1/2" - 14	0.37	1.04	0.26		1.06	1.06
M20712-10-12	16	5/8"	- 10	3/4" - 14	0.59	1.21	0.35		1.26	1.26
M20711-12-12	19	3/4"	- 12	3/4" - 14	0.59	1.18	0.35		1.26	1.26

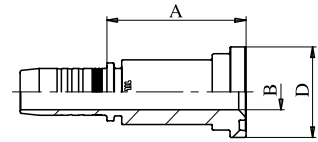
MULTIFIT TYPE



ORIGINAL EQUIPMENT CONNECTIONS

M24111

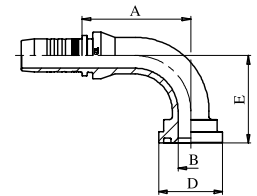
STRAIGHT KOMATSU FLANGE
BRIDA RECTA KOMATSU



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch					
	DN	inch	Size		B	A	D			
M24111-10-10	16	5/8"	- 10	5/8"	0.55	2.59	1.34			

M24191

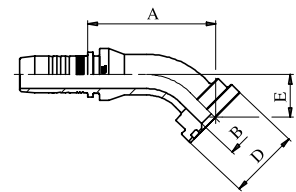
90° KOMATSU FLANGE
BRIDA KOMATSU CODO DE 90°



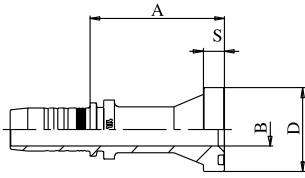
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch					
	DN	inch	Size		B	A	C	E		
M24191-10-10	16	5/8"	- 10	5/8"	0.55	2.20	1.34	1.87		

M24141

45° KOMATSU FLANGE
BRIDA KOMATSU CODO DE 45°



PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch					
	DN	inch	Size		B	A	C	E		
M24141-10-10	16	5/8"	- 10	5/8"	0.55	2.40	1.34	0.87		



M23911

STRAIGHT SUPERCAT FLANGE BRIDA RECTA SUPERCAT

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch					
	DN	inch	Size		B	A	D	S		
M23911-12-12	19	3/4"	- 12	3/4"	0.59	2.93	1.63	0.56		
M23911-16-16	25	1"	- 16	1"	0.78	3.42	1.88	0.56		
M23911-16-20	25	1"	- 16	1.1/4"	1.02	3.63	2.13	0.56		
M23911-20-20	31	1.1/4"	- 20	1.1/4"	1.02	3.39	2.13	0.56		
M23911-24-24	38	1.1/2"	- 24	1.1/2"	1.26	3.70	2.50	0.56		

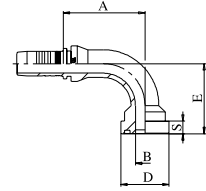
MULTIFIT TYPE



ORIGINAL STANDARD CONNECTIONS

M23991

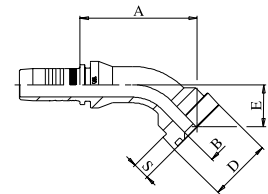
90° SUPERCAT FLANGE
BRIDA SUPERCAT CODO DE 90°



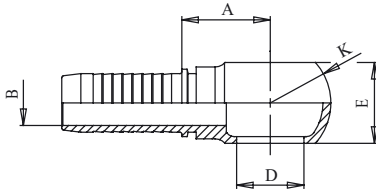
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch				
	DN	inch	Size		B	A	D	E	S
M23991-12-12	19	3/4"	- 12	3/4"	0.59	2.54	1.63	2.54	0.56
M23991-16-16	25	1"	- 16	1"	0.78	3.05	1.88	3.01	0.56
M23991-16-20	25	1"	- 16	1.1/4"	1.02	2.97	2.13	3.17	0.56
M23991-20-20	31	1.1/4"	- 20	1.1/4"	1.02	3.37	2.13	3.43	0.56

M23941

45° SUPERCAT FLANGE
BRIDA SUPERCAT CODO DE 45°



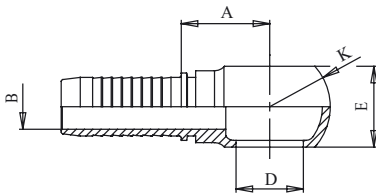
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch				
	DN	inch	Size		B	A	D	E	S
M23941-12-12	19	3/4"	- 12	3/4"	0.59	3.03	1.63	1.26	0.56
M23941-16-16	25	1"	- 16	1"	0.78	3.52	1.88	1.44	0.56
M23941-16-20	25	1"	- 16	1.1/4"	1.02	3.64	2.13	1.59	0.56
M23941-20-20	31	1.1/4"	- 20	1.1/4"	1.02	3.90	2.13	1.63	0.56



O20310

BSP BANJO
BSP BANJO

PART. REF.	HOSE BORE			BSP BOLT	DIMENSIONS inch				
	DN	inch	Size		B	A	D	E	K
O20310-04-04	6	1/4"	- 04	1/4" - 19	0.16	0.87	0.52	0.55	0.94
O20310-05-06	8	5/16"	- 05	3/8" - 19	0.20	0.91	0.66	0.71	1.10
O20310-06-06	10	3/8"	- 06	3/8" - 19	0.28	0.95	0.66	0.71	1.10
O20310-06-08	10	3/8"	- 06	1/2" - 14	0.28	1.07	0.83	0.87	1.38
O20310-08-08	12	1/2"	- 08	1/2" - 14	0.38	1.08	0.83	0.87	1.38
O20310-10-10	16	5/8"	- 10	5/8" - 14	0.48	1.11	0.91	0.93	1.50
O20310-12-12	19	3/4"	- 12	3/4" - 14	0.59	1.44	1.05	1.14	1.77
O20310-16-16	25	1"	- 16	1" - 11	0.79	1.75	1.31	1.42	2.13



O20910

METRIC BANJO - DIN 7642
BANJO METRICO - DIN 7642

PART. REF.	HOSE BORE			MATIC BOLT	DIMENSIONS inch				
	DN	inch	Size		B	A	D	E	K
O20910-04-12	6	1/4"	- 04	M 12x1.5	0.16	0.83	0.47	0.47	0.79
O20910-04-14	6	1/4"	- 04	M 14x1.5	0.16	0.85	0.55	0.55	0.94
O20910-05-14	8	5/16"	- 05	M 14x1.5	0.20	0.91	0.55	0.55	0.94
O20910-06-14	10	3/8"	- 06	M 14x1.5	0.28	0.95	0.55	0.55	0.94
O20910-06-16	10	3/8"	- 06	M 16x .5	0.28	0.95	0.63	0.71	1.10
O20910-06-18	10	3/8"	- 06	M 18x1.5	0.28	1.07	0.71	0.79	1.26
O20910-08-18	12	1/2"	- 08	M 18x1.5	0.38	1.08	0.71	0.79	1.26
O20910-08-22	12	1/2"	- 08	M 22x1.5	0.38	1.08	0.87	0.87	1.38
O20910-10-22	16	5/8"	- 10	M 22x1.5	0.48	1.11	0.87	0.93	1.50
O20910-12-26	19	3/4"	- 12	M 26x1.5	0.59	1.44	1.02	1.14	1.77

MULTIFIT TYPE

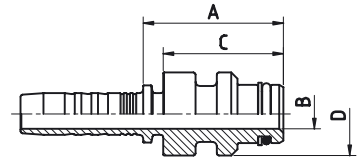


MINING CONNECTIONS

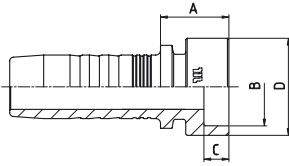
M14810

STAPLE-LOCK MALE - DIN 20043 - SAE J1467

MACHO RECTO STAPLE-LOCK (MINERIA) DIN 20043 - SAE J1467



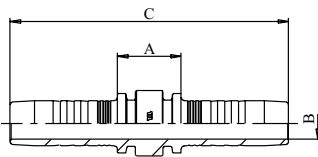
PART. REF.	HOSE BORE			DIMENSIONS inch						
	DN	inch	Size	B	A	C	D			
M14810-04-04	6	1/4"	- 04	0.16	1.30	1.13	0.59			
M14810-06-06	10	3/8"	- 06	0.28	1.32	1.13	0.79			
M14810-08-08	12	1/2"	- 08	0.37	1.33	1.13	0.94			
M14810-12-12	19	3/4"	- 12	0.59	1.38	1.14	1.14			
M14810-16-16	25	1"	- 16	0.78	1.67	1.38	1.54			
M14810-20-20	31	1.1/4"	- 20	1.02	1.67	1.38	1.81			
M14810-24-24	38	1.1/2"	- 24	1.26	2.03	1.57	2.17			
M14810-32-32	51	2"	- 32	1.65	1.93	1.57	2.52			



MIP

BRAZING TAIL
ESPIGA SOLDABLE (SALVAVIDAS)

PART. REF.	HOSE BORE			DIMENSIONS inch			
	DN	inch	Size	B	A	D	C
M03IP06	5	3/16"	- 03	0.24	0.45	0.39	0.20
M04IP08	6	1/4"	- 04	0.31	0.51	0.47	0.20
M05IP10	8	5/16"	- 05	0.39	0.53	0.55	0.24
M06IP12	10	3/8"	- 06	0.47	0.53	0.63	0.24
M06IP14	10	3/8"	- 06	0.55	0.53	0.71	0.24
M08IP15	12	1/2"	- 08	0.59	0.55	0.79	0.24
M08IP16	12	1/2"	- 08	0.63	0.55	0.79	0.24
M10IP18	16	5/8"	- 10	0.71	0.59	0.91	0.28
M12IP22	19	3/4"	- 12	0.87	0.63	1.02	0,28
M16IP28	25	1"	- 16	1.10	0.73	1.34	0.31
M20IP35	31	1.1/4"	- 20	1.38	0.85	1.57	0.35
M24IP40	38	1.1/2"	- 24	1.57	0.85	1.97	0.35
M32IP50	51	2"	- 32	1.97	0.91	2.36	0.39
M40IP60	63	2.1/2"	- 40	2.36	0.87	2.87	0.39
M48IP70	76	3"	- 48	2.76	1.50	3.50	0.39



M10050

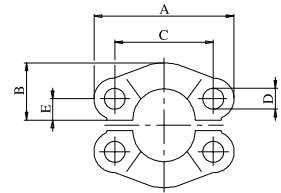
DOUBLE CONNECTOR
CONECTOR DOBLE

PART. REF.	HOSE BORE			DIMENSIONS inch		
	DN	inch	Size	B	A	C
M10050-04-04	6	1/4"	- 04	0.16	0.55	2.72
M10050-05-05	8	5/16"	- 05	0.22	0.55	2.76
M10050-06-06	10	3/8"	- 06	0.28	0.58	2.89
M10050-08-08	12	1/2"	- 08	0.37	0.62	3.07
M10050-10-10	16	5/8"	- 10	0.49	0.61	3.31
M10050-12-12	19	3/4"	- 12	0.59	0.73	3.60
M10050-16-16	25	1"	- 16	0.78	0.89	4.69

ACCESSORIES

083308

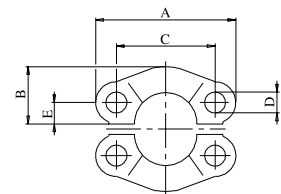
SAE SPLIT FLANGE CLAMPS 3000 psi CODE 61 - SAE J518
SEMIBRIDA SAE 3000 psi CODIGO 61 - SAE J518



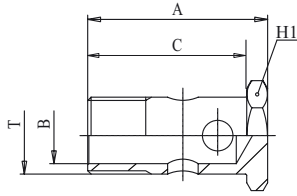
PART. REF.	HOSE BORE			DIMENSIONS inch					
	DN	inch	Size	B	A	C	D	E	
083308-08	12	1/2"	- 08	0.91	2.13	1.50	0.35	0.34	
083308-12	19	3/4"	- 12	1.03	2.56	1.87	0.43	0.44	
083308-16	25	1"	- 16	1.16	2.75	2.06	0.43	0.52	
083308-20	31	1.1/4"	- 20	1.44	3.13	2.31	0.47	0.59	
083308-24	38	1.1/2"	- 24	1.63	3.69	2.75	0.53	0.70	
083308-32	51	2"	- 32	1.91	4.00	3.06	0.53	0.84	
083308-40	63	2.1/2"	- 40	2.14	4.50	3.50	0.53	1.00	
083308-48	76	3"	- 48	2.57	5.31	4.19	0.65	1.22	

083609

SAE SPLIT FLANGE CLAMPS 6000 psi CODE 62 - SAE J518
SEMIBRIDA SAE 6000 psi CODIGO 62 - SAE J518



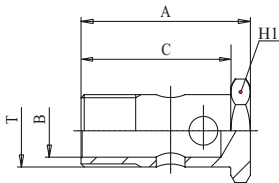
PART. REF.	HOSE BORE			DIMENSIONS inch					
	DN	inch	Size	B	A	C	D	E	
083609-08	12	1/2"	- 08	0.94	2.22	1.59	0.35	0.36	
083609-12	19	3/4"	- 12	1.19	2.81	2.00	0.43	0.47	
083609-16	25	1"	- 16	1.37	3.19	2.25	0.51	0.55	
083609-20	31	1.1/4"	- 20	1.53	3.75	2.63	0.59	0.62	
083609-24	38	1.1/2"	- 24	1.87	4.44	3.13	0.67	0.72	
083609-32	51	2"	- 32	2.25	5.25	3.81	0.83	0.87	



080210

BSP BOLT
PASADOR BSP

PART. REF.		THREAD	DIMENSIONS inch				
			T	B	A	C	H _i
	080210-04	1/4" - 19	0.28	1.26	0.98		0.67
	080210-06	3/8" - 19	0.35	1.50	1.22		0.87
	080210-08	1/2" - 14	0.51	1.81	1.50		1.06
	080210-10	5/8" - 14	0.53	1.93	1.61		1.18
	080210-12	3/4" - 14	0.67	2.20	1.81		1.26
	080210-16	1" - 11	0.87	2.72	2.28		1.61



080810

METRIC BOLT - DIN 7643
PASADOR METRICO - DIN 7643

PART. REF.		THREAD	DIMENSIONS inch				
			T	B	A	C	H _i
	080810-12	M 12x1.5	0.24	1.10	0.91		0.67
	080810-14	M 14x1.5	0.31	1.26	0.98		0.75
	080810-16	M 16x1.5	0.35	1.50	1.22		0.87
	080810-18	M 18x1.5	0.43	1.73	1.42		0.94
	080810-22	M 22x1.5	0.51	1.81	1.50		1.06
	080810-26	M 26x1.5	0.67	2.20	1.81		1.26

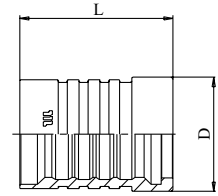
INTERLOCK TYPE



FERRULE

M01300

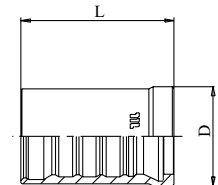
DOUBLE SKIVE FERRULE FOR HEAVY DUTY SPIRAL HOSES
CASQUILLOS DE PELADO INTERNO Y EXTERNO PARA MANGUERAS
CON REFUERZO EN ESPIRAL - TRABAJO PESADO



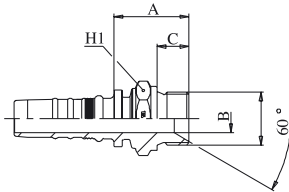
PART. REF.	HOSE BORE			DIMENSIONS inch						
	DN	inch	Size		D	L				
M01300-10	16	5/8"	- 10		1.42	1.71				
M01300-12	19	3/4"	- 12		1.57	2.09				
M01300-16	25	1"	- 16		1.93	2.60				
M01300-20	31	1.1/4"	- 20		2.36	3.48				
M01300-24	38	1.1/2"	- 24		2.73	4.02				
M01300-32	51	2"	- 32		3.41	4.25				

M01400

DOUBLE SKIVE FERRULE FOR HEAVY DUTY SPIRAL HOSES
CASQUILLOS DE PELADO INTERNO Y EXTERNO PARA MANGUERAS
CON REFUERZO EN ESPIRAL - TRABAJO PESADO



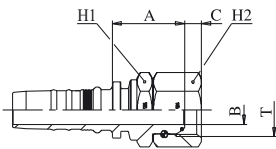
PART. REF.	HOSE BORE			DIMENSIONS inch						
	DN	inch	Size		D	L				
M01400-20	31	1.1/4"	- 20		2.24	3.46				
M01400-24	38	1.1/2"	- 24		2.53	4.02				
M01400-32	51	2"	- 32		3.29	4.25				



M35510

BSP MALE PARALLEL 60° CONE SEAT - BS5200
MACHO BSP PARALELO ASIENTO A 60° - BS5200

PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch				
	DN	inch	Size		T	B	A	C	H ₁
M35510-12-12	19	3/4"	- 12	3/4" - 14	0.67	1.47	0.63		1.26
M35510-16-16	25	1"	- 16	1" - 11	0.89	1.69	0.75		1.61
M35510-20-20	31	1.1/4"	- 20	1.1/4" - 11	1.14	1.99	0.79		1.97
M35510-24-24	38	1.1/2"	- 24	1.1/2" - 11	1.32	2.13	0.87		2.17
M35510-32-32	51	2"	- 32	2" - 11	1.65	2.26	0.98		2.76



M45812

BSP O-RING FEMALE 60° CONE - BS5200
(THRUST-WIRE NUT)
HEMBRA BSP CON O-RING ASIENTO A 60° - BS5200
(TUERCA CON SEGURO)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
	DN	inch	Size		T	B	A	C	H ₁	H ₂
M45812-12-12	19	3/4"	- 12	3/4" - 14	0.56	1.41	0.33		1.26	1.26
M45812-16-16	25	1"	- 16	1" - 11	0.75	1.54	0.42		1.61	1.61
M45812-20-20	31	1.1/4"	- 20	1.1/4" - 11	1.02	1.87	0.40		1.97	1.97
M45812-24-24	38	1.1/2"	- 24	1.1/2" - 11	1.26	1.87	0.49		2.36	2.36
M45812-32-32	51	2"	- 32	2" - 11	1.65	1.85	0.63		2.76	2.76

INTERLOCK TYPE

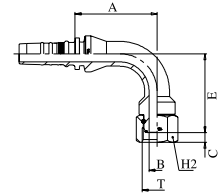


BS STANDARD CONNECTIONS

M45892

90° BSP O-RING FEMALE SWEPT ELBOW 60° CONE - BS5200
(THRUST-WIRE NUT)

HEMBRA BSP CON O-RING CODO DE 90° ASIENTO A 60° - BS5200
(TUERCA CON SEGURO)

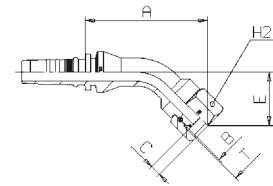


PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
	DN	inch	Size		T	B	A	C	E	H ₂
M45892-12-12	19	3/4"	- 12	3/4" - 14	0.56	2.85	0.33	2.76		1.26
M45892-16-16	25	1"	- 16	1" - 11	0.75	3.25	0.42	3.17		1.61
M45892-20-20	31	1.1/4"	- 20	1.1/4" - 11	1.02	3.88	0.40	3.86		1.97
M45892-24-24	38	1.1/2"	- 24	1.1/2" - 11	1.26	4.39	0.49	4.29		2.36
M45892-32-32	51	2"	- 32	2" - 11	1.65	5.63	0.63	5.53		2.76

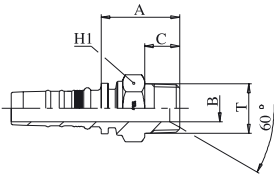
M45842

45° BSP O-RING FEMALE SWEPT ELBOW 60° CONE - BS5200
(THRUST-WIRE NUT)

HEMBRA BSP CON O-RING CODO DE 45° ASIENTO A 60° - BS5200
(TUERCA CON SEGURO)



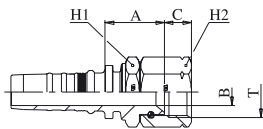
PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
	DN	inch	Size		T	B	A	C	E	H ₂
M45842-12-12	19	3/4"	- 12	3/4" - 14	0.56	3.48	0.33	1.38		1.26
M45842-16-16	25	1"	- 16	1" - 11	0.75	3.82	0.42	1.57		1.61
M45842-20-20	31	1.1/4"	- 20	1.1/4" - 11	1.02	4.72	0.40	1.95		1.97
M45842-24-24	38	1.1/2"	- 24	1.1/2" - 11	1.26	4.96	0.49	1.97		2.36
M45842-32-32	51	2"	- 32	2" - 11	1.65	6.38	0.63	2.62		2.76



M37810

NPTF MALE 30° CONE SEAT - SAE J516
NPTF MACHO ASIENTO A 30° - SAE J516

PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch				
	DN	inch	Size		T	B	A	C	H ₁
M37810-12-12	19	3/4"	- 12	3/4" - 14	0.63	1.70	0.76		1.26
M37810-16-16	25	1"	- 16	1" - 11.5	0.75	1.95	0.95		1.61
M37810-20-20	31	1.1/4"	- 20	1.1/4" - 11.5	1.02	2.40	0.98		1.81
M37810-24-24	38	1.1/2"	- 24	1.1/2" - 11.5	1.26	2.46	1.02		1.97
M37810-32-32	51	2"	- 32	2" - 11.5	1.65	2.62	1.04		2.76



M47512

JIC FEMALE 37° CONE SEAT - SAE J516/J514 (THRUST-WIRE NUT)
JIC HEMBRA ASIENTO A 37° - SAE J516/J514 (TUERCA CON SEGURO)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
	DN	inch	Size		T	B	A	C	H ₁	H ₂
M47512-12-12	19	3/4"	- 12	1.1/16" - 12	0.59	1.23	0.56		1.26	1.26
M47512-16-16	25	1"	- 16	1.5/16" - 12	0.85	1.34	0.60		1.61	1.61
M47512-20-20	31	1.1/4"	- 20	1.5/8" - 12	1.02	1.81	0.64		1.97	1.97
M47512-24-24	38	1.1/2"	- 24	1.7/8" - 12	1.26	2.05	0.74		2.17	2.36
M47512-32-32	51	2"	- 32	2.1/2" - 12	1.65	1.95	0.94		2.76	2.95

INTERLOCK TYPE

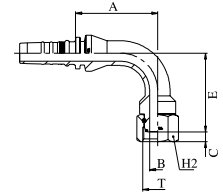


SAE STANDARD CONNECTIONS

M47592

90° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516/J514
(THRUST-WIRE NUT)

JIC HEMBRA CODO DE 90° ASIENTO A 37° - SAE J516/J514
(TUERCA CON SEGURO)

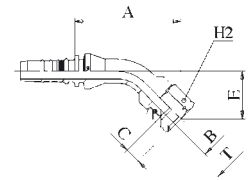


PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
	DN	inch	Size		T	B	A	C	E	H ₂
M47592-12-12	19	3/4"	- 12	1.1/16" - 12	0.59	2.87	0.56	2.60		1.26
M47592-16-16	25	1"	- 16	1.5/16" - 12	0.85	3.25	0.60	3.05		1.61
M47592-20-20	31	1.1/4"	- 20	1.5/8" - 12	1.02	3.88	0.64	3.62		1.97
M47592-24-24	38	1.1/2"	- 24	1.7/8" - 12	1.26	4.55	0.74	4.17		2.36
M47592-32-32	51	2"	- 32	2.1/2" - 12	1.65	5.69	0.94	5.39		2.95

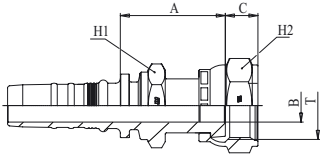
M47542

45° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516/J514
(THRUST-WIRE NUT)

JIC HEMBRA CODO DE 45° ASIENTO A 37° - SAE J516/J514
(TUERCA CON SEGURO)



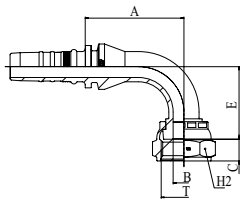
PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
	DN	inch	Size		T	B	A	C	E	H ₂
M47542-12-12	19	3/4"	- 12	1.1/16" - 12	0.59	3.41	0.56	1.30		1.26
M47542-16-16	25	1"	- 16	1.5/16" - 12	0.85	3.74	0.60	1.46		1.61
M47542-20-20	31	1.1/4"	- 20	1.5/8" - 12	1.02	4.55	0.64	1.77		1.97
M47542-24-24	38	1.1/2"	- 24	1.7/8" - 12	1.26	4.98	0.74	1.97		2.36



M47411

ORFS FEMALE - SAE J516/J1453 (CRIMPED BACK NUT)
ORFS HEMBRA CARA PLANA - SAE J516/J1453
(TUERCA PRENSADA)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
	DN	inch	Size		T	B	A	C	H ₁	H ₂
M47411-12-12	19	3/4"	- 12	1.3/16" - 12	0.56	1.82	0.57		1.26	1.42
M47411-16-16	25	1"	- 16	1.7/16" - 12	0.75	1.92	0.59		1.61	1.61
M47411-20-20	31	1 1/4"	- 20	1.11/16" - 12	0.94	2.16	0.58		1.97	1.97
M47411-24-24	38	1 1/2"	- 24	2" - 12	1.20	2.26	0.62		2.36	2.36



M47491

90° ORFS FEMALE - SAE J516/J1453 (CRIMPED-BACK NUT)
ORFS HEMBRA CODO DE 90° CARA PLANA - SAE J516/J1453
(TUERCA PRENSADA)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
	DN	inch	Size		T	B	A	C	E	H ₂
M47491-12-12	19	3/4"	- 12	1.3/16" - 12	0.56	2.58	0.57	1.89		1.42
M47491-16-16	25	1"	- 16	1.7/16" - 12	0.75	3.35	0.59	2.13		1.61
M47491-20-20	31	1 1/4"	- 20	1.11/16" - 12	0.94	3.88	0.58	2.56		1.97
M47491-24-24	38	1 1/2"	- 24	2" - 12	1.20	4.55	0.62	3.13		2.36

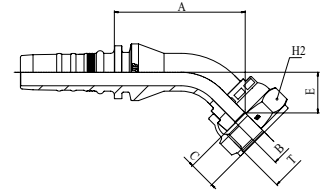
INTERLOCK TYPE



SAE STANDARD CONNECTIONS

M47441

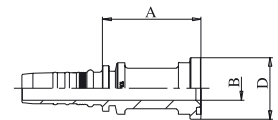
45° ORFS FEMALE - SAE J516/J1453 (CRIMPED-BACK NUT)
 ORFS HEMBRA CODO DE 45° CARA PLANA - SAE J516/J1453
 (TUERCA Prensada)



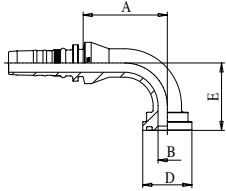
PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
	DN	inch	Size		T	B	A	C	E	H ₂
M47441-12-12	19	3/4"	- 12	1.3/16" - 12	0.56	2.72	0.57	0.85		1.42
M47441-16-16	25	1"	- 16	1.7/16" - 12	0.75	3.33	0.59	0.87		1.61
M47441-20-20	31	1 1/4"	- 20	1.11/16" - 12	0.94	3.80	0.58	1.02		1.97
M47441-24-24	38	1 1/2"	- 24	2" - 12	1.20	4.39	0.62	1.24		2.36

M48310

STRAIGHT SAE FLANGE 3000 psi CODE 61 - SAE J516/J518
 BRIDA RECTA SAE 3000 psi CODIGO 61 - SAE J516/J518



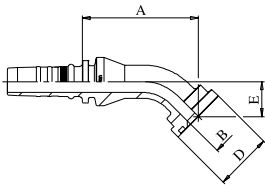
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch					
	DN	inch	Size		B	A	D			
M48310-12-12	19	3/4"	- 12	3/4"	0.63	2.39	1.50			
M48310-12-16	19	3/4"	- 12	1"	0.79	2.59	1.76			
M48310-16-16	25	1"	- 16	1"	0.79	2.64	1.76			
M48310-16-20	25	1"	- 16	1.1/4"	1.02	2.87	2.01			
M48310-20-20	31	1.1/4"	- 20	1.1/4"	1.02	2.95	2.01			
M48310-20-24	31	1.1/4"	- 20	1.1/2"	1.26	3.15	2.38			
M48310-24-24	38	1.1/2"	- 24	1.1/2"	1.26	3.17	2.38			
M48310-24-32	38	1.1/2"	- 24	2"	1.65	3.44	2.82			
M48310-32-32	51	2"	- 32	2"	1.65	3.25	2.82			



M48390

90° SAE FLANGE 3000 psi CODE 61 - SAE J516/J518
BRIDA CODO DE 90° SAE 3000 psi CODIGO 61 - SAE J516/J518

PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch				
	DN	inch	Size		T	B	A	D	E
M48390-12-12	19	3/4"	- 12	3/4"	0.63	2.87	1.50	2.05	
M48390-12-16	19	3/4"	- 12	1"	0.79	2.87	1.76	2.05	
M48390-16-16	25	1"	- 16	1"	0.79	3.31	1.76	2.44	
M48390-16-20	25	1"	- 16	1.1/4"	1.02	3.31	2.01	2.44	
M48390-20-20	31	1.1/4"	- 20	1.1/4"	1.02	3.90	2.01	2.76	
M48390-20-24	31	1.1/4"	- 20	1.1/2"	1.26	3.88	2.38	2.83	
M48390-24-24	38	1.1/2"	- 24	1.1/2"	1.26	4.39	2.38	3.31	
M48390-32-32	51	2"	- 32	2"	1.65	5.24	2.82	3.90	



M48340

45° SAE FLANGE 3000 psi CODE 61 - SAE J516/J518
BRIDA CODO DE 45° SAE 3000 psi CODIGO 61 - SAE J516/J518

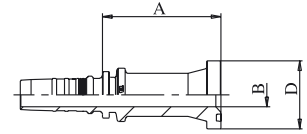
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch				
	DN	inch	Size		B	A	D	E	
M48340-12-12	19	3/4"	- 12	3/4"	0.63	3.01	1.50	0.91	
M48340-16-16	25	1"	- 16	1"	0.79	3.44	1.76	1.08	
M48340-16-20	25	1"	- 16	1.1/4"	1.02	3.46	2.01	1.06	
M48340-20-20	31	1.1/4"	- 20	1.1/4"	1.02	4.13	2.01	1.16	
M48340-20-24	31	1.1/4"	- 20	1.1/2"	1.26	4.00	2.38	1.22	
M48340-24-24	38	1.1/2"	- 24	1.1/2"	1.26	4.37	2.38	1.36	
M48340-32-32	51	2"	- 32	2"	1.65	5.06	2.82	1.54	

INTERLOCK TYPE



SAE STANDARD CONNECTIONS

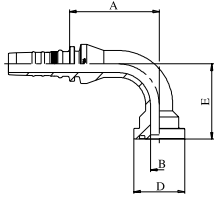
M48610



STRAIGHT SAE FLANGE 6000 psi CODE 62 - SAE J516/J518

BRIDA RECTA SAE 6000 psi CODIGO 62 - SAE J516/J518

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch					
	DN	inch	Size		B	A	D			
M48610-12-12	19	3/4"	- 12	3/4"	0.63	2.83	1.63			
M48610-12-16	19	3/4"	- 12	1"	0.79	3.30	1.88			
M48610-16-12	25	1"	- 16	3/4"	0.63	3.17	1.63			
M48610-16-16	25	1"	- 16	1"	0.79	3.35	1.88			
M48610-16-20	25	1"	- 16	1.1/4"	1.02	3.50	2.13			
M48610-20-16	31	1.1/4"	- 20	1"	0.79	3.42	1.88			
M48610-20-20	31	1.1/4"	- 20	1.1/4"	1.02	3.58	2.13			
M48610-20-24	31	1.1/4"	- 20	1.1/2"	1.26	3.82	2.51			
NEW M48610-24-20	38	1.1/2"	- 24	1.1/4"	1.02	3.98	2.13			
M48610-24-24	38	1.1/2"	- 24	1.1/2"	1.26	3.84	2.51			
M48610-24-32	38	1.1/2"	- 24	2"	1.65	4.43	3.13			
M48610-32-32	51	2"	- 32	2"	1.65	4.43	3.13			



M48690

90° SAE FLANGE 6000 psi CODE 62 - SAE J516/J518
BRIDA CODO DE 90° SAE 6000 psi CODIGO 62 - SAE J516/J518

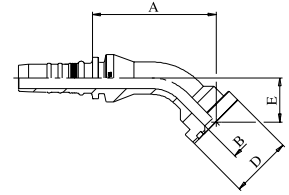
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch					
	DN	inch	Size		B	A	D	E		
M48690-12-12	19	3/4"	- 12	3/4"	0.63	2.87	1.63	2.32		
M48690-12-16	19	3/4"	- 12	1"	0.79	2.87	1.88	2.56		
M48690-16-12	25	1"	- 16	3/4"	0.63	3.21	1.63	2.44		
M48690-16-16	25	1"	- 16	1"	0.79	3.21	1.88	2.68		
M48690-16-20	25	1"	- 16	1.1/4"	1.02	3.11	2.13	2.99		
M48690-20-16	31	1.1/4"	- 20	1"	0.79	3.88	1.88	3.11		
M48690-20-20	31	1.1/4"	- 20	1.1/4"	1.02	3.88	2.13	3.19		
M48690-20-24	31	1.1/4"	- 20	1.1/2"	1.26	3.88	2.51	3.60		
M48690-24-20	38	1.1/2"	- 24	1.1/4"	1.02	4.37	2.13	3.58		
M48690-24-24	38	1.1/2"	- 24	1.1/2"	1.26	4.43	2.51	3.72		
M48690-24-32	38	1.1/2"	- 24	2"	1.65	4.43	3.13	4.35		
M48690-32-32	51	2"	- 32	2"	1.65	5.53	3.13	5.20		

INTERLOCK TYPE



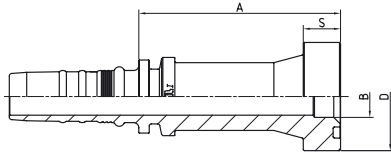
SAE STANDARD CONNECTIONS

M48640



45° SAE FLANGE 6000 psi CODE 62 - SAE J516/J518
BRIDA CODO DE 45° SAE 6000 psi CODIGO 62 - SAE J516/J518

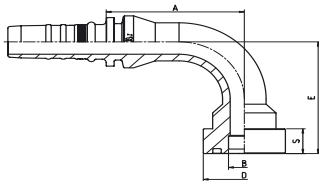
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch					
	DN	inch	Size		B	A	D	E		
M48640-12-12	19	3/4"	- 12	3/4"	0.63	3.21	1.63	1.10		
M48640-12-16	19	3/4"	- 12	1"	0.79	3.39	1.88	1.28		
M48640-16-12	25	1"	- 16	3/4"	0.63	3.44	1.63	1.10		
M48640-16-16	25	1"	- 16	1"	0.79	3.60	1.88	1.28		
M48640-16-20	25	1"	- 16	1.1/4"	1.02	3.70	2.13	1.48		
M48640-20-16	31	1.1/4"	- 20	1"	0.79	4.19	1.88	1.42		
M48640-20-20	31	1.1/4"	- 20	1.1/4"	1.02	4.25	2.13	1.48		
M48640-20-24	31	1.1/4"	- 20	1.1/2"	1.26	4.53	2.51	1.77		
M48640-24-24	38	1.1/2"	- 24	1.1/2"	1.26	4.90	2.51	1.73		
M48640-24-32	38	1.1/2"	- 24	2"	1.65	5.33	3.13	2.19		
M48640-32-32	51	2"	- 32	2"	1.65	6.06	3.13	2.38		



M48910

STRAIGHT SUPERCAT SERIES FLANGE
BRIDA RECTA SUPERCAT

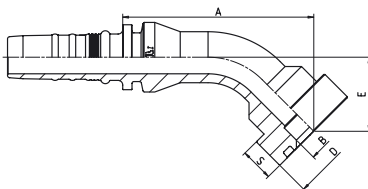
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch					
	DN	inch	Size		B	A	D	S		
M48910-12-12	19	3/4"	- 12	3/4"	0.63	3.05	1.63	0.56		
M48910-16-16	25	1"	- 16	1"	0.79	3.22	1.88	0.56		
M48910-20-20	31	1.1/4"	- 20	1.1/4"	1.02	3.35	2.13	0.56		
M48910-24-24	38	1.1/2"	- 24	1.1/2"	1.26	3.51	2.50	0.56		



M48990

90° SUPERCAT SERIES FLANGE
BRIDA SUPERCAT CODO DE 90°

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch					
	DN	inch	Size		B	A	D	E	S	
M48990-12-12	19	3/4"	- 12	3/4"	0.63	2.87	1.63	2.54	0.56	
M48990-16-16	25	1"	- 16	1"	0.79	3.21	1.88	2.85	0.56	
M48990-20-20	31	1.1/4"	- 20	1.1/4"	1.02	3.88	2.13	3.35	0.56	
M48990-24-24	38	1.1/2"	- 24	1.1/2"	1.26	4.43	2.50	3.80	0.56	



M48940

45° SUPERCAT SERIES FLANGE
BRIDA SUPERCAT CODO DE 45°

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch					
	DN	inch	Size		B	A	D	E	S	
M48940-12-12	19	3/4"	- 12	3/4"	0.63	3.37	1.63	1.26	0.56	
M48940-16-16	25	1"	- 16	1"	0.79	3.74	1.88	1.40	0.56	
M48940-20-20	31	1.1/4"	- 20	1.1/4"	1.02	4.35	2.13	1.59	0.56	
M48940-24-24	38	1.1/2"	- 24	1.1/2"	1.26	4.94	2.50	1.79	0.56	

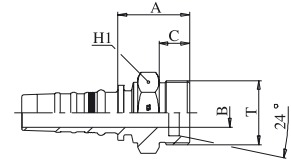
INTERLOCK TYPE



DIN STANDARD CONNECTIONS

M36210

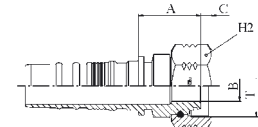
METRIC MALE 24° CONE SEAT H.T. - DIN 20066/3861
 MACHO METRICO ASIEN TO A 24° SERIE PESADA - DIN 20066/3861



PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS inch					
	DN	inch	Size	T	mm	B	A	C		H ₁	
M36210-10-30	16	5/8"	- 10	M 30x2	20	0.59	1.02	0.63		1.18	
M36210-12-36	19	3/4"	- 12	M 36x2	25	0.56	1.72	0.71		1.42	
M36210-16-42	25	1"	- 16	M 42x2	30	0.75	1.85	0.79		1.81	
M36210-20-52	31	1.1/4"	- 20	M 52x2	38	0.94	2.17	0.87		2.17	
M36210-24-52	38	1.1/2"	-24	M 52x2	38	1.20	2.19	0.87		2.17	

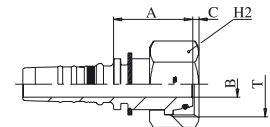
M46612

O-RING METRIC FEMALE 24° CONE H.T. - DIN 20066/3865
 (THRUST WIRE NUT)
 HEMB RA METRICA CON O-RING ASIEN TO A 24° SERIE PESADA
 DIN 20066/3865 (TUERCA CON SEGURO)



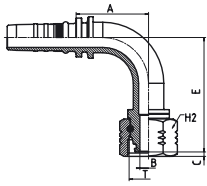
M46613

O-RING METRIC FEMALE 24° CONE H.T. - DIN 20066/3865
 (SLIP-ON NUT)
 HEMB RA METRICA CON O-RING ASIEN TO A 24° SERIE PESADA
 DIN 20066/3865 (TUERCA LIBRE)



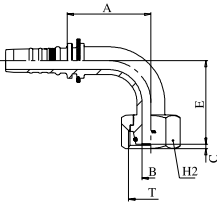
PART. REF.	HOSE BORE			THREAD	PIPE	DIMENSIONS inch					
	DN	inch	Size	T	mm	B	A	C		H ₂	
M46613-10-30	16	5/8"	- 10	M 30x2	20	0.47	1.48	0.14		1.42	
M46612-12-30	19	3/4"	- 12	M 30x2	20	0.49	1.98	0.13		1.42	
M46613-12-36	19	3/4"	- 12	M 36x2	25	0.56	1.59	0.13		1.61	
M46613-12-42	19	3/4"	- 12	M 42x2	30	0.75	1.79	0.21		1.97	
M46612-16-36	25	1"	- 16	M 36x2	25	0.63	1.84	0.16		1.61	
M46613-16-42	25	1"	- 16	M 42x2	30	0.75	1.75	0.21		1.97	
M46613-20-52	31	1.1/4"	- 20	M 52x2	38	1.02	2.03	0.31		2.36	
M46612-24-52	38	1.1/2"	- 24	M 52x2	38	1.02	2.07	0.35		2.36	

DIN STANDARD CONNECTIONS



M46692

90° O-RING METRIC FEMALE SWEPT ELBOW 24° CONE H.T.
DIN 20066/3865 (THRUST-WIRE NUT)
 HEMBRA METRICA CON O-RING CODO DE 90° ASIENTO A 24°
 SERIE PESADA - DIN 20066/3865 (TUERCA CON SEGURO)

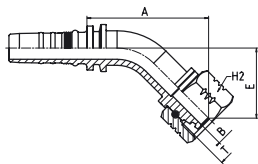


M46693

90° O-RING METRIC FEMALE SWEPT ELBOW 24° CONE H.T.
DIN 20066/3865 (SLIP-ON NUT)
 HEMBRA METRICA CON O-RING CODO DE 90° ASIENTO A 24°
 SERIE PESADA - DIN 20066/3865 (TUERCA LIBRE)

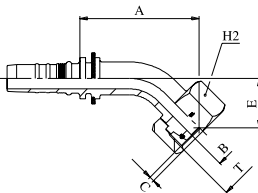
PART. REF.	HOSE BORE		THREAD	PIPE	DIMENSIONS inch					
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	DN	inch	Size	T	mm	B	A	C	E	H ₂
M46693-10-30	16	5/8"	- 10	M 30x2	20	0.47	2.07	0.14	2.26	1.42
M46692-12-30	19	3/4"	- 12	M 30x2	20	0.49	2.52	0.13	2.70	1.42
M46693-12-36	19	3/4"	- 12	M 36x2	25	0.56	2.66	0.13	2.66	1.61
M46692-16-36	25	1"	- 16	M 36x2	25	0.63	3.23	0.16	3.50	1.61
M46693-16-42	25	1"	- 16	M 42x2	30	0.75	3.23	0.21	2.97	1.97
M46693-20-52	31	1.1/4"	- 20	M 52x2	38	1.02	3.94	0.31	3.41	2.36



M46642

45° O-RING METRIC FEMALE SWEPT ELBOW 24° CONE H.T.
DIN 20066/3865 (THRUST-WIRE NUT)
 HEMBRA METRICA CON O-RING CODO DE 45° ASIENTO A 24°
 SERIE PESADA - DIN 20066/3865 (TUERCA CON SEGURO)



M46643

45° O-RING METRIC FEMALE SWEPT ELBOW 24° CONE H.T.
DIN 20066/3865 (SLIP-ON NUT)
 HEMBRA METRICA CON O-RING CODO DE 45° ASIENTO A 24°
 SERIE PESADA - DIN 20066/3865 (TUERCA LIBRE)

PART. REF.	HOSE BORE		THREAD	PIPE	DIMENSIONS inch					
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	DN	inch	Size	T	mm	B	A	C	E	H ₂
M46642-12-30	19	3/4"	- 12	M 30x2	20	0.49	3.14	0.13	1.37	1.42
M46643-12-36	19	3/4"	- 12	M 36x2	25	0.56	3.21	0.13	1.32	1.61
M46642-16-36	25	1"	- 16	M 36x2	25	0.63	4.06	0.16	1.79	1.61
M46643-16-42	25	1"	- 16	M 42x2	30	0.75	3.68	0.21	1.42	1.97
M46643-20-52	31	1.1/4"	- 20	M 52x2	38	1.02	4.33	0.31	1.57	2.36

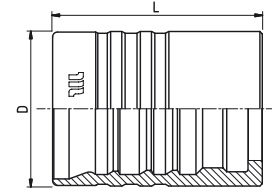
XTRALOCK TYPE



DIAMONDSPIR HOSE RANGE

M01800

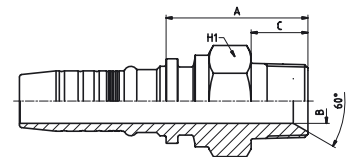
DOUBLE SKIVE FERRULE FOR EXTRA DUTY SPIRAL HOSES (6 PLY)
CASQUILLOS DE PELADO INTERNO Y EXTERNO PARA MANGUERAS
CON REFUERZO EN ESPIRAL - TRABAJO PESADO



PART. REF.	HOSE BORE			DIMENSIONS inch			
	DN	inch	Size	D	L		
M01800-16	25	1"	- 16	2.11	2.68		
M01800-20	31	1.1/4"	- 20	2.54	3.47		
M01800-24	38	1.1/2"	- 24	2.87	3.85		
M01800-32	51	2"	- 32	3.41	4.25		
M01800-40	63	2.1/2"	- 40	4.06	5.31		
M01800-48	76	3"	- 48	4.47	4.92		

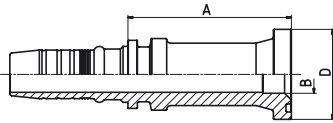
M57810

NPTF MALE 60° CONE SEAT SAE J516
NPTF MACHO ASIENTO A 60° SAE J516



PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch			
	DN	inch	Size		B	A	C	H ₁
M57810-16-16	25	1"	- 16	1" - 11.5	0.75	2.37	0.95	1.61
M57810-20-20	31	1.1/4"	- 20	1.1/4" - 11.5	1.03	2.52	1.10	1.81
M57810-24-24	38	1.1/2"	- 24	1.1/2" - 11.5	1.26	2.77	1.18	2.17
M57810-32-32	51	2"	- 32	2" - 11.5	1.65	2.97	1.38	2.76

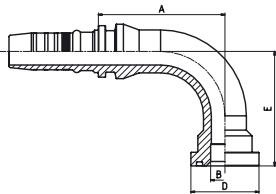
M68610



STRAIGHT SAE FLANGE CODE 62 - SAE J516/J518
BRIDA RECTA SAE CÓDIGO 62 SAE J516/J518

PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch		
	DN	inch	Size		B	A	D
M68610-16-16	25	1"	- 16	1"	0.79	3.39	1.88
M68610-20-20	31	1.1/4"	- 20	1.1/4"	1.02	3.58	2.13
M68610-24-24	38	1.1/2"	- 24	1.1/2"	1.26	3.84	2.51
M68610-32-32	51	2"	- 32	2"	1.65	4.43	3.13
M68610-40-32	63	2.1/2"	- 40	2"	1.61	4.53	3.13
M68610-40-40 *	63	2.1/2"	- 40	2.1/2"	2.03	5.00	4.24
M68610-48-48 *	76	3"	- 48	3"	2.48	6.57	5.19

(*) Manuli specification



M68690

90° SAE FLANGE CODE 62 SAE J516/J518
BRIDA CODO DE 90° SAE CÓDIGO 62 SAE J516/J518

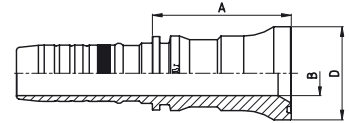
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch			
	DN	inch	Size		B	A	D	E
M68690-16-16	25	1"	- 16	1"	0.79	3.50	1.88	3.15
M68690-20-20	31	1.1/4"	- 20	1.1/4"	0.94	4.33	2.13	3.66
M68690-24-24	38	1.1/2"	- 24	1.1/2"	1.52	4.92	2.51	4.33
M68690-32-32	51	2"	- 32	2"	1.65	5.83	3.13	5.35

XTRALOCK TYPE



XTRAFLANGE

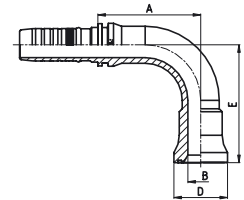
M68510



STRAIGHT XTRAFLANGE
BRIDA RECTA EXTRAFLANGE

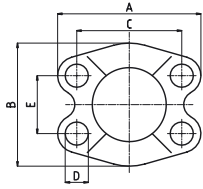
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch			W.P.	WEIGHT
	DN	inch	Size		B	A	D		
M68510-16-16	25	1"	- 16	1"	0.79	2.74	1.88	8000	1.32
M68510-20-20	31	1.1/4"	- 20	1.1/4"	0.94	3.46	2.14	8000	2.20
M68510-24-24	38	1.1/2"	- 24	1.1/2"	1.20	4.02	2.51	8000	3.09
M68510-32-32	51	2"	- 32	2"	1.61	5.08	3.13	6500	5.95
M68510-40-40	63	2.1/2"	- 40	2.1/2"	2.03	5.87	3.91	5000	9.70

M68590



90° XTRAFLANGE
BRIDA 90° EXTRAFLANGE

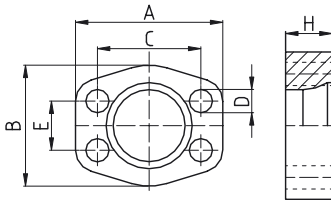
PART. REF.	HOSE BORE			FLANGE	DIMENSIONS inch				W.P.	WEIGHT
	DN	inch	Size		B	A	D	E		
M68590-16-16	25	1"	- 16	1"	0.79	3.31	1.88	3.54	8000	0.36
M68590-20-20	31	1.1/4"	- 20	1.1/4"	0.94	4.21	2.14	4.72	8000	0.68
M68590-24-24	38	1.1/2"	- 24	1.1/2"	1.20	4.81	2.51	5.51	8000	1.00
M68590-32-32	51	2"	- 32	2"	1.61	5.81	3.13	7.09	6500	1.95



083607

SAE ONE-PIECE FLANGE CLAMPS CODE 62 - SAE J518
BRIDA ENTERA SAE PARA FLANGE CODIGO 62 - SAE J518

PART. REF.	HOSE BORE			DIMENSIONS inch				
	DN	inch	Size	B	A	C	D	E
083607-16	25	1"	- 16	2.76	3.19	2.25	0.51	1.09
083607-20	32	1.1/4"	- 20	3.07	3.78	2.63	0.59	1.25
083607-24	38	1.1/2"	- 24	3.78	4.45	3.13	0.67	1.44
083607-32	51	2"	- 32	4.49	5.28	3.81	0.83	1.75
083607-40	63	2.1/2"	- 40	5.91	6.89	4.87	0.98	2.31
083607-48	76	3"	- 48	7.01	8.27	6.00	1.26	2.81



088507

ONE-PIECE XTRAFLANGE CLAMPS
BRIDA ENTERA PARA XTRAFLANGE

PART. REF.	FLANGE SIZE			DIMENSIONS inch					BOLT	WEIGHT	
	DN	inch	Size	B	A	C	D	E			H
088507-16	25	1"	16	2.63	3.15	2.25	0.51	1.09	0.94	1.97	0.23
088507-20	31	1.1/4"	20	3.07	3.74	2.63	0.59	1.25	1.18	2.56	0.41
088507-24	38	1.1/2"	24	3.70	4.41	3.13	0.67	1.44	1.42	2.95	0.73
088507-32	51	2"	32	4.49	5.24	3.81	0.83	1.75	1.85	3.94	1.22
088507-40	63	2.1/2"	40	5.91	7.09	4.87	1.02	2.31	2.17	4.33	2.90

ASSEMBLING INSTRUCTIONS



The following assembling instructions are strongly recommended on heavy duty applications. Debido al exigente desempeño de la aplicación, estas instrucciones de ensamble son recomendadas ampliamente.

M68610 - M68690

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 (inch)	BOLT TORQUE (Lb - Ft)
M68610-16-16	1"		O83607-16	32.92 x 3.53	M 12	7/16 - 14	1.77	96
M68690-16-16	1"		O83607-16	32.92 x 3.53	M 12	7/16 - 14	1.77	96
M68610-20-20	1.1/4"		O83607-20	37.69 x 3.53	M 14	1/2 - 13	1.77	133
M68690-20-20	1.1/4"		O83607-20	37.69 x 3.53	M 14	1/2 - 13	1.77	133
M68610-24-24	1.1/2"		O83607-24	47.22 x 3.53	M 16	5/8 - 11	2.17	214
M68690-24-24	1.1/2"		O83607-24	47.22 x 3.53	M 16	5/8 - 11	2.17	214
M68610-32-32	2"		O83607-32	56.74 x 3.53	M 20	3/4 - 10	2.76	332
M68690-32-32	2"		O83607-32	56.74 x 3.53	M 20	3/4 - 10	2.76	332
M68610-40-32	2"	O83609-32		56.74 x 3.53	M 20	3/4 - 10	2.76	332
M68610-40-40	2.1/2"		O83607-40	69.44 x 3.53	M 24	1 - 8	3.15	406
M68610-48-48	3"		O83607-48	85.32 x 3.53	M 30	1.1/4 - 7	3.54	480

M68510 - M68590

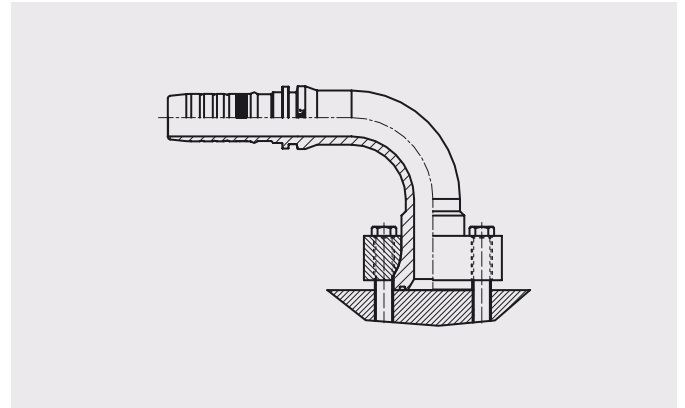
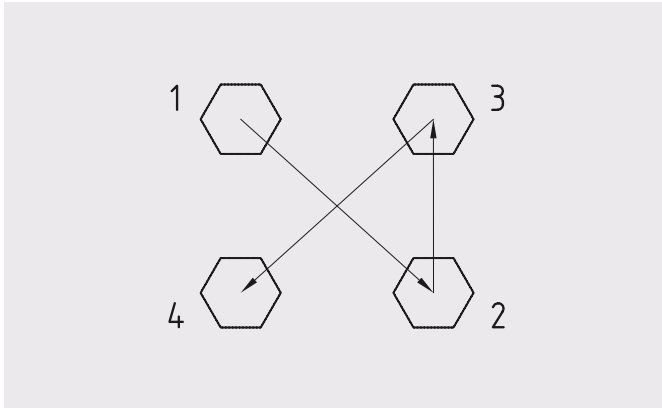
PART. REF.	FLANGE SIZE	ONE-PIECE FLANGE TYPE	OR (NBR 90 ShA) SAE J515	METRIC BOLT DIMENSIONS (Class. 10.9)	UNC BOLT DIMENSIONS (Grade 8)	BOLT THREAD LENGTH (inch)	BOLT TORQUE (Lb - Ft)	
M68510-16-16	1"	O88507-16		32.92 x 3.53	M 12	7/16 - 14	1.97	96
M68590-16-16	1"	O88507-16		32.92 x 3.53	M 12	7/16 - 14	1.97	96
M68510-20-20	1.1/4"	O88507-20		37.69 x 3.53	M 14	1/2 - 13	2,56	133
M68590-20-20	1.1/4"	O88507-20		37.69 x 3.53	M 14	1/2 - 13	2.56	133
M68510-24-24	1.1/2"	O88507-24		47.22 x 3.53	M 16	5/8 - 11	2.95	214
M68590-24-24	1.1/2"	O88507-24		47.22 x 3.53	M 16	5/8 - 11	2.95	214
M68510-32-32	2"	O88507-32		56.74 x 3.53	M 20	3/4 - 10	3.74	332
M68590-32-32	2"	O88507-32		56.74 x 3.53	M 20	3/4 - 10	3.74	332
M68510-40-40	2.1/2"	O88507-40		69.44 x 3.53	M 24	1 - 8	4.33	406

ASSEMBLING INSTRUCTIONS

SCREWS HAVE TO BE TORQUED WITH THE FOLLOWING SCHEME:
LOS TORNILLOS DEBEN SER AJUSTADOS DE ACUERDO AL SIGUIENTE ESQUEMA:

XTRAFLANGE ASSEMBLING SCHEME:

ESQUEMA PARA ENSAMBLAR UN EXTRAFLANGE:



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 torque recomendado para evitar desalineación entre los flanges y las abrazaderas o daños en las medialunas durante la instalación.

RECOMMENDATIONS RECOMENDACIONES

- the crimping operation to apply XTRALOCK fittings must be carried out with proper high performance crimping/assembling machines (crimping force higher than 2800-3000 kN) and approved by Manuli Rubber Industries, 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 Rubber Industries to customers, assemblers and operators using the integrated package DIAMONDSPIR hose & XTRALOCK fittings.
- la operación de crimpado para aplicar las conexiones XTRALOCK debe ser llevada a cabo con máquinas de alto comportamiento para crimpado/ensamble (fuerza de crimpado mayor que 2800-3000 kN) y aprobadas por Manuli Rubber Industries, 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 crimpado 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 Rubber Industries a los clientes, ensambladores y operadores usando el paquete integrado Manguera DIAMONDSPIR & Acoples XTRALOCK.

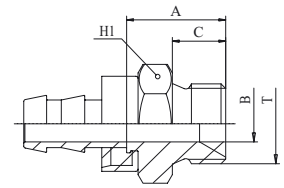
PUSH-LOCK TYPE



BS STANDARD CONNECTIONS

L10510*

BSP MALE PARALLEL 60° CONE SEAT - BS5200
MACHO BSP PARALELO ASIENTO A 60° - BS5200

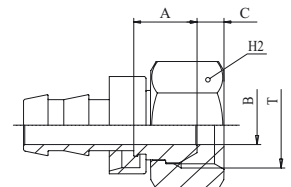


PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch				
	DN	inch	Size		T	B	A	C	H ₁
L10510-04-04	6	1/4"	- 04	1/4" - 19	0.16	0.74	0.43		0.75
L10510-04-06	6	1/4"	- 04	3/8" - 19	0.28	0.83	0.47		0.87
L10510-06-06	10	3/8"	- 06	3/8" - 19	0.28	0.83	0.47		0.87
L10510-08-08	12	1/2"	- 08	1/2" - 14	0.37	0.98	0.55		1.06
L10510-10-10	16	5/8"	- 10	5/8" - 14	0.47	1.04	0.63		1.18
L10510-12-12	19	3/4"	- 12	3/4" - 14	0.63	1.10	0.63		1.26
L10510-16-16	25	1"	- 16	1" - 11	0.79	1.22	0.75		1.61

(*) no ferrule needed - no necesita casquillo

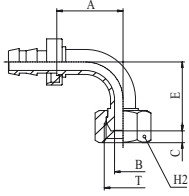
L20513*

BSP FEMALE 60° CONE - BS5200 (SLIP-ON NUT)
HEMBRA BSP ASIENTO A 60° - BS5200 (TUERCA LIBRE)



PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch				
	DN	inch	Size		T	B	A	C	H ₂
L20513-04-04	6	1/4"	- 04	1/4" - 19	0.16	0.43	0.23		0.75
L20513-04-06	6	1/4"	- 04	3/8" - 19	0.28	0.51	0.24		0.87
L20513-06-06	10	3/8"	- 06	3/8" - 19	0.28	0.51	0.24		0.87
L20513-08-08	12	1/2"	- 08	1/2" - 14	0.37	0.57	0.26		1.06
L20513-10-10	16	5/8"	- 10	5/8" - 14	0.47	0.55	0.35		1.10
L20513-12-12	19	3/4"	- 12	3/4" - 14	0.63	0.61	0.35		1.26
L20513-12-16	19	3/4"	- 12	1" - 11	0.75	0.67	0.43		1.50
L20513-16-16	25	1"	- 16	1" - 11	0.75	0.67	0.43		1.50

(*) no ferrule needed - no necesita casquillo

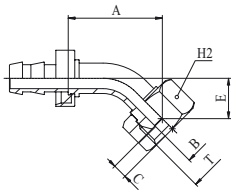


L20593*

90° BSP FEMALE SWEPT ELBOW 60° CONE - BS5200 (SLIP ON NUT)
HEMBRA BSP CODO DE 90° ASIENTO A 60° - BS5200 (TUERCA LIBRE)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
	DN	inch	Size		T	B	A	C	E	H ₂
L20593-04-04	6	1/4"	- 04	1/4" - 19	0.16	0.94	0.23	0.94		0.75
L20593-06-06	10	3/8"	- 06	3/8" - 19	0.28	1.26	0.24	1.26		0.87
L20593-08-08	12	1/2"	- 08	1/2" - 14	0.37	1.42	0.26	1.52		1.06
L20593-10-10	16	5/8"	- 10	5/8" - 14	0.47	1.71	0.35	1.61		1.10
L20593-12-12	19	3/4"	- 12	3/4" - 14	0.63	1.81	0.35	1.83		1.26
L20593-12-16	19	3/4"	- 12	1" - 11	0.75	1.81	0.43	1.91		1.50
L20593-16-16	25	1"	- 16	1" - 11	0.75	2.01	0.43	2.13		1.50

(* no ferrule needed - no necesita casquillo)



L20543*

45° BSP FEMALE SWEPT ELBOW 60° CONE - BS5200 (SLIP ON NUT)
HEMBRA BSP CODO DE 45° ASIENTO A 60° - BS5200 (TUERCA LIBRE)

PART. REF.	HOSE BORE			THREAD	DIMENSIONS inch					
	DN	inch	Size		T	B	A	C	E	H ₂
L20543-04-04	6	1/4"	- 04	1/4" - 19	0.16	1.14	0.23	0.47		0.75
L20543-06-06	10	3/8"	- 06	3/8" - 19	0.28	1.44	0.24	0.59		0.87
L20543-08-08	12	1/2"	- 08	1/2" - 14	0.37	1.65	0.26	0.73		1.06
L20543-10-10	16	5/8"	- 10	5/8" - 14	0.47	1.91	0.35	0.75		1.10
L20543-12-12	19	3/4"	- 12	3/4" - 14	0.63	1.99	0.35	0.83		1.26
L20543-16-16	25	1"	- 16	1" - 11	0.75	2.13	0.43	0.94		1.50

(* no ferrule needed - no necesita casquillo)

