



FITTINGS

FITTINGS

INTRODUCTION

Manuli Hydraulics is globally respected for the breadth and versatility of our hydraulic fittings range. Comprising over 6,000 references, we have fittings to suit most of the common international standards as well as the specific requirements of several of our important OEM customers.

The Manuli Hydraulics fittings range is made up of 3 families: MF2000, MF3000 and Smart Connectors.

The **MF2000** range comprises our core range of two-piece fitting solutions and has over 4,000 references:

Multifit (MF) - Simple and cost effective universal solution for wire spiral and wire braid hoses

Minifit (MN) - Extremely compact fittings for braided hose (DN6 to DN10)

Interlock Plus (IP) - Maximum reliability for very high pressure wire spiral hoses in heavy-duty applications

Interlock Super (IS) - High-tech swaged fittings for very large bore wire spiral hose

Spiral fit (SP) - No-skive insert for wire spiral hoses and large bore hose

Xtralock (XL) - Designed for ultra high pressure hydraulic power lines

Blastlock (BL) - Ultra high pressure insert for water-blasting applications

Pushlock (PL) - Insert solution for low pressure applications without the need for a swaged ferrule

The **MF3000** range is made up of one-piece fittings for hoses at medium/high pressures:

One-Piece Flat (OPF) - No-skive, compact and flat-crimp fittings for wire braid hoses up to 1"

One-Piece Kompact (OPK) - No-skive, compact and flat-crimp fittings for wire spiral and wire braid high pressure hoses up to 2"

There are also three types of **Smart Connectors** available:

RotoFit - A well-known and patented Manuli Hydraulics solution designed to eliminate hose twist under external torques, which can be a major contributor to premature hose failure.

The additional advantage of RotoFit is that it is a "Direct-to-Hose" and "Direct-to-Port" solution. By eliminating the need for adaptors, the number of possible leak points is reduced.

EasyFit - The Manuli "threadless" fittings solution for quick and easy installation of assemblies.

This innovative termination end is fitted with a simple axial push, allowing the hose to self-align and thus improve service life. Maintenance and repair time is also drastically reduced and installation / disconnection in restricted spaces is far easier.

Moreover the "Direct-to-Port" concept eliminates the need for adaptors and the possibility of related leakages.

All EasyFit fittings have an eco-friendly coating treatment for superior corrosion performance.

FastFit - A "one plug" connection consisting of a male half integrated onto the hose and then inserted into the female cartridge. This easy and safe operation does not require any tools for assembly and allows easy installation in restricted areas or in complex configurations.

FastFit comes in a wide range of cartridges with direct connection on most standard ports, including BSP, SAE METRIC and NPTF.

FITTINGS VISUAL INDEX

CONNECTORS

TWO PIECE TECHNOLOGY

OVERVIEW

MINIFIT



F1

MULTIFIT



F2

INTERLOCK PLUS



F3

INTERLOCK SUPER



F4

XTRALOCK



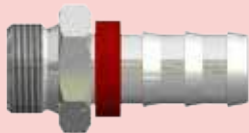
F5

SPIRALFIT



F6

PUSH-LOCK



F7

ACCESSORIES

F8

ONE PIECE TECHNOLOGY

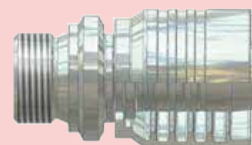
OVERVIEW

OPF



F9

OPK



F10

FITTINGS
F-02

FITTINGS VISUAL INDEX

SMART CONNECTORS

OVERVIEW

EASYFIT



F11

FASTFIT



F12

ROTOFIT



F13

FITTINGS INDEX

FITTING CODE	SECTION	PAGE
A52013H	12	2
A52032H	11	3
A52053H	12	3
A52192H	11	4
A52193H	12	4
A52283H	12	3
A52302H	11	3
A52323H	12	4
AR520504	13	7
AR580504	13	7
IM01500	3	33
IM01600	3	33
IM01800/IM01810	3	34
IM30510	3	34
IM31210	3	44
IM32510	3	36
IM32810	3	40
IM40812	3	35
IM40842	3	35
IM40892	3	3
IM41613	3	44
IM41643	3	45
IM41692/IM41693	3	45
IM42412	3	38
IM42442	3	39
IM42492	3	39
IM42512	3	37
IM42542	3	37
IM42592	3	38
IM43310	3	40
IM43340	3	41
IM43390	3	41
IM43610	3	42
IM43640	3	43
IM43690	3	43
IM43910	3	46
IM43940	3	46
IM43990	3	47
JO29	3	31
JO29 IS	4	2
L10510	7	1
L20513	7	1
L20543	7	2
L20593	7	2
M..IP..	2	80
M00110-M00120-M00130	2	1
M00310-M00320	2	3
M00820-M00830	2	4
M00910-M00920-M00930	2	1
M01500	3	1

FITTING CODE	SECTION	PAGE
M01600	3	1
M01750	5	1
M01800	5	1
M01800-M01810	3	2
M02400	1	1
M02700	4	1
M02800	4	1
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M03400	2	2
M03500	2	3
M0811HKR	1	5
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M10510	2	6
M10610	2	19
M10710	2	5
M11110	2	63
M11210	2	67
M11710	2	71
M11810	2	72
M12410	2	30
M12510	2	21
M12810	2	41
M12H10	11	1
M12H40	11	1
M12H90	11	2
M13010	2	38
M13H10	12	1
M13H40	12	1
M13H90	12	2
M14110R	2	42
M14310	2	39
M14390	2	39
M20511KR	2	8
M20512-20513	2	7
M20514	2	8
M20541KR	2	12
M20542-20543	2	11
M20591KR	2	10
M20592-20593	2	9
M20594	2	10
M20612-20613	2	20
M20711-20712	2	75
M20811HKR	2	14
M20812-20813	2	13
M20841KR	2	18
M20842-20843	2	17
M20882F	2	18
M20891KR	2	16
M20892-20893	2	15
M21013	2	59

FITTINGS INDEX

FITTING CODE	SECTION	PAGE
M21093	2	59
M21312-21313	2	60
M21342-21343	2	62
M21392-21393	2	61
M21512-21513	2	64
M21542-21543	2	66
M21592-21593	2	65
M21612-21613	2	68
M21642-21643	2	70
M21692-M21693	2	69
M21713	2	71
M21813	2	72
M21893	2	73
M22010	2	55
M22040	2	58
M22090	2	57
M22110	2	56
M22140	2	58
M22190	2	57
M22411	2	31
M22441-22443	2	36
M22441KR	2	37
M22491-22493	2	33
M22491KR	2	34
M22512-22513	2	22
M22541KR	2	29
M22542-22543	2	28
M22582F	2	29
M22591KR	2	26
M22592-22593	2	25
M22612	2	40
M22692	2	40
M22711-KR-K	2	24
M22712	2	23
M22812	2	42
M22H10	11	2
M23301P	2	51
M23301S	2	51
M23301T	2	52
M23311	2	43
M23321	2	44
M23331	2	45
M23341	2	46
M23361	2	47
M23371	2	48
M23391	2	49
M23391 LONG DROP	2	50
M23611	2	52
M23641	2	4
M23691	2	53

FITTING CODE	SECTION	PAGE
M23811	2	75
M23911	2	77
M23911CT	2	77
M23941	2	79
M23941CT	2	79
M23991	2	78
M23991CT	2	78
M24011-24012	2	74
M24091	2	74
M24111	2	76
M24141	2	76
M24191	2	76
M24491 LONG DROP	2	35
M24791KR	2	27
M24792-24793	2	26
M27411	2	32
M27411KR	2	32
M30050	3	30
M30510	3	2
M31210	3	18
M32410	3	6
M32510	3	4
M32810	3	11
M33010	3	11
M40812	3	3
M40842	3	4
M40892	3	3
M41243 LONG DROP	3	20
M41293 LONG DROP	3	20
M41612-M41613	3	18
M41642-M41643	3	19
M41692-M41693	3	19
M42411	3	7
M42412	3	7
M42441	3	9
M42442	3	10
M42443	3	10
M42491	3	8
M42492	3	8
M42493	3	9
M42512	3	5
M42542	3	6
M42592	3	5
M43310	3	12
M43320	3	12
M43330	3	13
M43340	3	13
M43390	3	14
M43610	3	15
M43630	3	16

FITTINGS INDEX

FITTING CODE	SECTION	PAGE
M43640	3	16
M43660	3	17
M43690	3	17
M43710	3	21
M43740	3	21
M43790	3	21
M43910	3	22
M43910CT	3	22
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M43930	3	23
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M43940CT	3	24
M43960	3	25
M43970	3	25
M43990	3	26
M43990 LONG DROP	3	27
M43990CT	3	26
M44492 LONG DROP	3	10
M48410	3	27
M48490	3	28
M48510	3	28
M48540	3	29
M48590	3	29
M49510WL	3	30
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M53510	5	2
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M68540	5	5
M68590	5	5
M68610	5	3
M68640	5	4
M68690	5	3
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MR12410	13	2
MR12810	13	2
MR20812	13	1
MR21512	13	4
MR22411	13	3
MR22510	13	2
MR22711	13	2
MR23311	13	3
MR30510	13	5
MR30510FK	13	5
MR32810	13	6
MR40812	13	5
MR42410	13	6
MR42510	13	6
MR43310	13	7

FITTING CODE	SECTION	PAGE
MS0511KR	1	2
MS0513	1	2
MS0541KR	1	4
MS0543	1	4
MS0591KR	1	3
MS0593	1	3
MS0813	1	5
MS0841KR	1	7
MS0843	1	7
MS0882F	1	8
MS0891KR	1	6
MS0893	1	6
O20310	2	81
O20910	2	81
O80210	2	82
O80810	2	82
O820	8	1
O82H10	11	4
O83308	8	2
O83607	8	3
O83609	8	2
O88407	8	4
O88507	8	3
OPF10510	9	2
OPF10710	9	2
OPF11110	9	30
OPF11210	9	34
OPF12410	9	16
OPF12510	9	9
OPF12810	9	23
OPF13010	9	21
OPF14110R	9	24
OPF14310	9	22
OPF14390	9	22
OPF20512-OPF20513	9	3
OPF20542-OPF20543	9	5
OPF20592-OPF20593	9	4
OPF20612-OPF20613	9	8
OPF20711	9	38
OPF20812-OPF20813	9	6
OPF20842-OPF20843	9	7
OPF20882F	9	7
OPF20892-OPF20893	9	6
OPF21312-OPF21313	9	29
OPF21392-OPF21393	9	29
OPF21512-OPF21513	9	31
OPF21542-OPF21543	9	33
OPF21592-OPF21593	9	32
OPF21612-OPF21613	9	35
OPF21642-OPF21643	9	37
OPF21692-OPF21693	9	36
OPF22010	9	28

FITTINGS F 0-6

FITTINGS INDEX

FITTING CODE	SECTION	PAGE
OPF22411	9	17
OPF22441-OPF22443	9	20
OPF22491-OPF22493	9	18
OPF22541KR	9	15
OPF22542-OPF22543	9	14
OPF22582F	9	16
OPF22591KR	9	12
OPF22592-OPF22593	9	11
OPF22612	9	23
OPF22711-KR-K	9	10
OPF22712	9	9
OPF22812	9	24
OPF23311	9	25
OPF23321	9	25
OPF23331	9	26
OPF23341	9	26
OPF23361	9	27
OPF23371	9	27
OPF23391	9	28
OPF23811	9	38
OPF24011	9	37
OPF24111	9	39
OPF24141	9	39
OPF24191	9	39
OPF24491 LONG DROP	9	19
OPF24791KR	9	13
OPF24792-OPF24793 LONG DROP	9	12
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OPK14110R	10	21
OPK14310	10	19
OPK20512-OPK20513	10	2
OPK20542-OPK20543	10	4
OPK20592-OPK20593	10	3

FITTING CODE	SECTION	PAGE
OPK20812-OPK20813	10	5
OPK20842-OPK20843	10	7
OPK20892-OPK20893	10	6
OPK21512-OPK21513	10	28
OPK21542-OPK21543	10	30
OPK21592-OPK21593	10	29
OPK21612-OPK21613	10	31
OPK21642-OPK21643	10	32
OPK21692-OPK21693	10	32
OPK21813	10	33
OPK22411	10	15
OPK22441-OPK22443	10	18
OPK22491-OPK22493	10	16
OPK22541KR	10	13
OPK22542-OPK22543	10	12
OPK22591KR	10	11
OPK22592-OPK22593	10	10
OPK22711-OPK22711KR	10	9
OPK22712	10	8
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OPK23321	10	22
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OPK23641	10	26
OPK23691	10	26
OPK23811	10	34
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OPK23941	10	37
OPK23991	10	36
OPK24011-OPK24012	10	34
OPK24111	10	35
OPK24141	10	35
OPK24191	10	35
OPK24491 LONG DROP	10	17
OPK24791KR	10	12
OPK24792-OPK24793 LONG DROP	10	11
OPK3610	10	1

FITTINGS - TERMINATION ENDS WORKING PRESSURE

 FITTINGS
F 0-8

Fitting	Maximum Working Pressure (bar)															
	Hose Size / Dash															
	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	
	03	04	05	06	08	10	12	16	20	24	32	40	48	56	64	
BSP 60° CONE BS5200 / ISO 8434-6	1/8"-28 350	1/4"-19 500		3/8"-19 460	1/2"-14 430	5/8"-14 350	3/4"-14 350	1"-11 350	1.1/4"-11 350	1.1/2"-11 300	2"-11 300	2.1/2"-11 140	3"-11 105			
JIC 37° CONE ISO 8434-2 / SAE J514		7/16"-20 350	1/2"-20 350	9/16"-18 350	3/4"-16 350	7/8"-14 350	1.1/16"-12 350	1.5/16"-12 280	1.5/8"-12 210	1.7/8"-12 160	2.1/2"-12 125					
ORFS ISO 8434-3 / SAE J1453		9/16"-18 460		11/16"-16 460	13/16"-16 420	1"-14 420	1.3/16"-12 420	1.7/16"-12 420	1.11/16"-12 420	2"-12 350						
NPTF MALE SAE J514 / ASME B1.20.3	1/8"-27 350	1/4"-18 350		3/8"-18 280	1/2"-14 245		3/4"-14 210	1"-11,5 175	1.1/4"-11,5 145	1.1/2"-11,5 145	2"-11,5 145					
NPSM FEMALE SAE J514	1/8"-27 350	1/4"-18 350		3/8"-18 280	1/2"-14 245		3/4"-14 210	1"-11,5 175	1.1/4"-11,5 145	1.1/2"-11,5 145	2"-11,5 145					
SAE 45° CONE SAE J512		7/16"-20 350	1/2"-20 350	5/8"-18 350	3/4"-16 310	7/8"-14 240	1.1/16"-14 240	1.3/8"-12 210								
ISO/SAE CODE 61 FLANGE ISO 6162-1 / SAE J518-1					1/2" 350		3/4" 350	1" 350	1-1/4" 280	1-1/2" 210	2" 210	2-1/2" 175	3" 160	3-1/2" 35	4" 35	
ISO/SAE CODE 62 FLANGE ISO 6162-2 / SAE J518-2					1/2" 420		3/4" 420	1" 420	1-1/4" 420	1-1/2" 420	2" 420	2-1/2" 420	3" 420			
XTRAFRANGE/61 ISO 6162-1 / SAE J518-1 PORT COMPATIBLE								1" 420	1-1/4" 420	1-1/2" 420	2" 420	2-1/2" 420				
XTRAFRANGE/61 ISO 6162-1 / SAE J518-1 PORT COMPATIBLE							3/4" 560	1" 560	1-1/4" 560	1-1/2" 560	2" 450	2-1/2" 350	3" 420			
FLANGE/PLUS ISO 6162-2 / SAE J518-2 PORT COMPATIBLE							3/4" 420	1" 420	1-1/4" 420							
CAT FLANGE ISO 6162-2 / SAE J518-2 PORT COMPATIBLE							3/4" 420	1" 420	1-1/4" 420	1-1/2" 420	2" 420					
METRIC CONE 24° L SERIES ISO 8434-1 / DIN 3865	M12x1,5 415	M14x1,5 400	M16x1,5 350	M18x1,5 330	M22x1,5 275	M26x1,5 250	M30x2 245	M36x2 245	M45x2 220	M52x2 100						
METRIC CONE 24° S SERIES ISO 8434-1 / DIN 3865	M16x1,5 630	M18x1,5 630	M20x1,5 630	M20x1,5 630	M24x1,5 450	M30x2 420	M36x2 385	M42x2 350	M52x2 280							
METRIC CONE 60° LL SERIES DIN 20066							M30x2 63	M38x1,5 63	M45x1,5 63	M52x1,5 63	M65x2 40					
METRIC MULTISEAL DIN 20066	M12x1,5 250	M14x1,5 250	M16x1,5 250	M18x1,5 250	M22x1,5 250	M26x1,5 160										
FRENCH METRIC MILLIMETRIC NF E48-064						M27x1,5 420	M30x1,5 420	M33x1,5 420								
FRENCH GAZ MILLIMETRIC NF E48-064				M20x1,5 630	M24x1,5 630	M30x1,5 420	M36x1,5 420	M45x1,5 420								
JIS METRIC FEMALE 60° CONE (KOMATSU) JIS B8363		M14x1,5 350	M16x1,5 350	M18x1,5 350	M22x1,5 350	M24x1,5 280	M30x1,5 280	M33x1,5 280	M36x1,5 175	M42x2 105						
JIS GAS FEMALE 60° CONE (TOYOTA) JIS B8363		1/4"-19 350		3/8"-19 350	1/2"-14 350		3/4"-14 280	1"-11 280	1.1/4"-11 175	1.1/2"-11 105	2"-11 105					
WASHCLEANER				M22x1,5 420												



MINIFIT

FITTING CODE	SECTION	PAGE
M02400	1	1
MS0511KR	1	2
MS0513	1	2
MS0541KR	1	4
MS0543	1	4
MS0591KR	1	3
MS0593	1	3
MS0813	1	5
MS0843	1	7
MS0882F	1	8
MS0893	1	6
M0811HKR	1	5
MS0841KR	1	7
MS0891KR	1	6

MINIFIT

DN	5	6	8	10	12	16	19	25	31	38	51	60	63	76
Inch	$\frac{3}{16}$ "	$\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	2"	$2\frac{3}{8}$ "	$2\frac{1}{2}$ "	3"
Size	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	-38	-40	-48

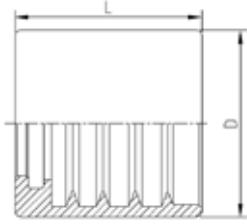
FERRULES

M02400														
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FITTINGS

BSP														
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FITTINGS
 F-1-II



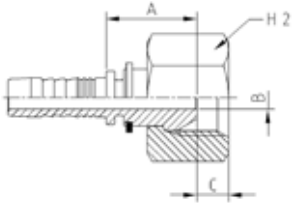
FERRULE

M02400

NO-SKIVE FERRULE FOR COMPACT HOSES

PART. REF.	HOSE BORE			DIMENSIONS mm							
	DN	Dash	inch			D	L				
M02400-04	6	- 4	1/4"			18,5	18,5				
M02400-05	8	- 5	5/16"			21,3	19,6				
M02400-06	10	- 6	3/8"			23,8	21,2				

BS STANDARD CONNECTIONS

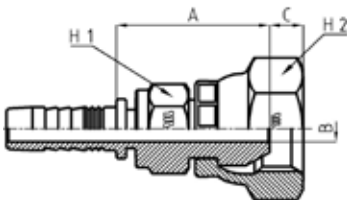


MS0513

**BSP FEMALE 60° CONE BS5200
/ISO 8434-6**

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C			
MS0513-04-04	6	- 4	1/4"	1/4" - 19		4	15,7	5,4	19			
MS0513-06-06	10	- 6	3/8"	3/8" - 19		7	18,3	6	22			

BS STANDARD CONNECTIONS

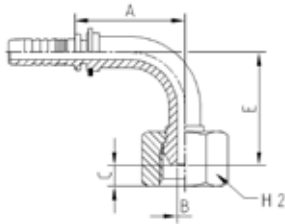


MS0511KR

BSP FEMALE 60° CONE - BS5200 / ISO 8434-6

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C			
MS0511-04-04H12KR	6	- 4	1/4"	1/4" - 19		4	23,5	5,2	19			
MS0511-06-06H17KR	10	- 6	3/8"	3/8" - 19		7	26	6	22			

KR:CRIMPED-BACK KOMPACT ROBUST NUT

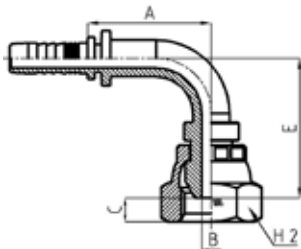


BS STANDARD CONNECTIONS

MS0593

90° BSP FEMALE 60° CONE BS5200 /ISO 8434-6

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
MS0593-04-04	6	-4	1/4"	1/4" - 19		4	28,2	5,4	29	19		
MS0593-06-06	10	-6	3/8"	3/8" - 19		7	35,3	6	31,5	22		



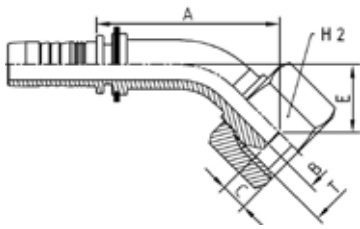
BS STANDARD CONNECTIONS

MS0591KR

90° BSP FEMALE SWEPT ELBOW 60° CONE - BS5200 / ISO 8434-6

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
MS0591-04-04KR	6	-4	1/4"	1/4" - 19		4,2	27	5,2	30,5	19		
MS0591-06-06KR	10	-6	3/8"	3/8" - 19		7	34,5	6	37,5	22		

KR:CRIMPED-BACK KOMPACT ROBUST NUT

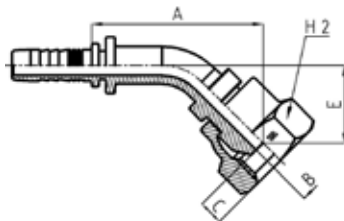


BS STANDARD CONNECTIONS

MS0543

45° BSP FEMALE 60° CONE BS5200
/ ISO 8434-6

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
MS0543-04-04	6	-4	1/4"	1/4" - 19		4	34,7	5,4	14,7	19		
MS0543-06-06	10	-6	3/8"	3/8" - 19		7	41	6	15,3	22		



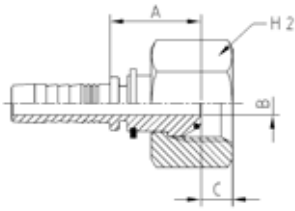
BS STANDARD CONNECTIONS

MS0541KR

BSP FEMALE 60° CONE - BS5200 / ISO 8434-6

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
MS0541-04-04KR	6	-4	1/4"	1/4" - 19		4,2	36,5	5,2	16,6	19		
MS0541-06-06KR	10	-6	3/8"	3/8" - 19		7	44,5	6	20	22		

KR:CRIMPED-BACK KOMPACT ROBUST NUT

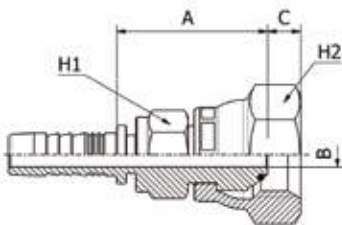


BS STANDARD CONNECTIONS

MS0813

**BSP O-RING FEMALE 60° CONE BS5200
/ISO 8434-6**

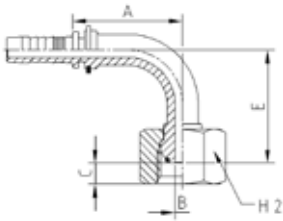
PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	H2		
MS0813-04-04	6	-4	1/4"	1/4" - 19		4	15,7	5,4	19			
MS0813-05-06	8	-5	5/16"	3/8" - 19		7	18	6	22			
MS0813-06-06	10	-6	3/8"	3/8" - 19		7	18,3	6	22			



BS STANDARD CONNECTIONS

MS0811HKR

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	H1	H2	
MS0811-04-04H12KR	6	-4	1/4"	1/4" - 19		4	23,5	5,2	12	19		
MS0811-06-06H17KR	10	-6	3/8"	3/8" - 19		7	26	6	17	22		

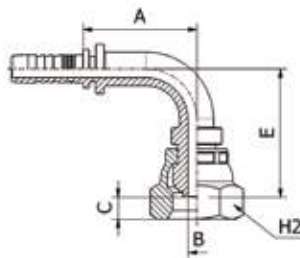


BS STANDARD CONNECTIONS

MS0893

90° BSP O-RING FEMALE 60° CONE BS5200
/ISO 8434-6

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	E	H2	
MS0893-04-04	6	-4	1/4"	1/4" - 19	4	28,2	5,4	29	19		
MS0893-05-06	8	-5	5/16"	3/8" - 19	7	31	6	32,5	22		
MS0893-06-06	10	-6	3/8"	3/8" - 19	7	35,3	6	31,5	22		



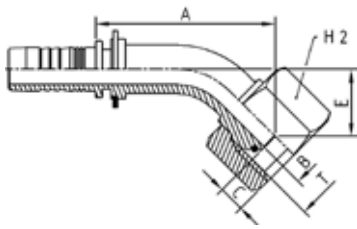
BS STANDARD CONNECTIONS

MS0891KR

90° BSP O-RING FEMALE 60° CONE BS5200
/ISO 8434-6

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	E	H2	
MS0891-04-04KR	6	-4	1/4"	1/4" - 19	4,2	27	5,2	30,5	19		
MS0891-06-06KR	10	-6	3/8"	3/8" - 19	7	34,5	6	37,5	22		

KR:CRIMPED-BACK KOMPACT ROBUST NUT

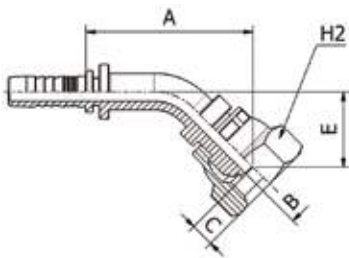


BS STANDARD CONNECTIONS

MS0843

45° BSP O-RING FEMALE 60° CONE BS5200
/ISO 8434-6

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E		
MS0843-04-04	6	-4	1/4"	1/4" - 19		4	34,7	5,4	14,7	19		
MS0843-05-06	8	-5	5/16"	3/8" - 19		7	40,5	6	17	22		
MS0843-06-06	10	-6	3/8"	3/8" - 19		7	41	6	15,3	22		



BS STANDARD CONNECTIONS

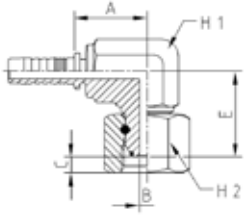
MS0841KR

45° BSP O-RING FEMALE 60° CONE BS5200
/ISO 8434-6

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E		
MS0841-04-04KR	6	-4	1/4"	1/4" - 19		4,2	36,5	5,2	16,5	19		
MS0841-06-06KR	10	-6	3/8"	3/8" - 19		7	44,5	6	20	22		

KR:CRIMPED-BACK KOMPACT ROBUST NUT

BS STANDARD CONNECTIONS



MS0882F

**90° BSP O-RING FEMALE COMPACT ELBOW 60° CONE BS5200
/ISO 8434-6**

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H1	H2
MS0882-04-04F	6	-4	1/4"	1/4" - 19		4	18,7	4,1	22	14	19	
MS0882-06-06F	10	-6	3/8"	3/8" - 19		7	21,8	6	27,5	19	22	



MULTIFIT

FITTING CODE	SECTION	PAGE
M..IP..	2	80
M00110-M00120-M00130	2	1
M00310-M00320	2	3
M00820-M00830	2	4
M00910-M00920-M00930	2	1
M03300	2	2
M03400	2	2
M03500	2	3
M10050	2	82
M10510	2	6
M10610	2	19
M10710	2	5
M11110	2	63
M11210	2	67
M11710	2	71
M11810	2	72
M12410	2	30
M12510	2	21
M12810	2	41
M13010	2	38
M14110R	2	42
M14310	2	39
M14390	2	39
M20511KR	2	8
M20512-20513	2	7
M20514	2	8
M20541KR	2	12
M20542-20543	2	11
M20591KR	2	10
M20592-20593	2	9
M20594	2	10
M20612-20613	2	20
M20711-20712	2	75
M20811HKR	2	14
M20812-20813	2	13
M20841KR	2	18
M20842-20843	2	17
M20882F	2	18
M20891KR	2	16
M20892-20893	2	15
M21013	2	59
M21093	2	59
M21312-21313	2	60
M21342-21343	2	62
M21392-21393	2	61
M21512-21513	2	64
M21542-21543	2	66
M21592-21593	2	65
M21612-21613	2	68
M21642-21643	2	70
M21692-M21693	2	69
M21713	2	71
M21813	2	72
M21893	2	73
M22010	2	55
M22040	2	58

FITTING CODE	SECTION	PAGE
M22090	2	57
M22110	2	56
M22140	2	58
M22190	2	57
M22411	2	31
M22441-22443	2	36
M22441KR	2	37
M22491-22493	2	33
M22491KR	2	34
M22512-22513	2	22
M22541KR	2	29
M22542-22543	2	28
M22582F	2	29
M22591KR	2	26
M22592-22593	2	25
M22612	2	40
M22692	2	40
M22711-KR-K	2	24
M22712	2	23
M22812	2	42
M23301P	2	51
M23301S	2	51
M23301T	2	52
M23311	2	43
M23321	2	44
M23331	2	45
M23341	2	46
M23361	2	47
M23371	2	48
M23391	2	49
M23391 LONG DROP	2	50
M23611	2	52
M23641	2	4
M23691	2	53
M23811	2	75
M23911	2	77
M23911CT	2	77
M23941	2	79
M23941CT	2	79
M23991	2	78
M23991CT	2	78
M24011-24012	2	74
M24091	2	74
M24111	2	76
M24141	2	76
M24191	2	76
M24491 LONG DROP	2	35
M24791KR	2	27
M24792-24793	2	26
M27411	2	32
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O20310	2	81
O20910	2	81
O80210	2	82
O80810	2	82

MULTIFIT

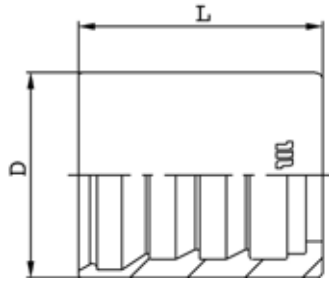
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Inch	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	2 3/8"	2 1/2"	3"	3 1/2"	4"
Size	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	-38	-40	-48	-56	-64

FERRULES

M00110 / M00120 / M00130																
M00910 / M00920																
M03300																
M03400																
M03500																
M00310																
M00320																
M00820 / M00830																

FITTINGS

BSP																
SAE (JIC)																
SAE (ORFS)																
SAE																
SAE (NPTF-NPSM)																
SAE FLANGE CODE 61																
SAE FLANGE CODE 62																
DIN STANDPIPE																
DIN METRIC 60° CONE																
DIN METRIC MULTISEAL																
DIN METRIC 24° CONE LIGHT TYPE																
DIN METRIC 24° CONE HEAVY TYPE																
NF (FRENCH MILLIMERIC TYPE)																
NF (FRENCH GAZ TYPE)																
JIS																
ORIGINAL EQUIPMENT CONNECTIONS																
BANJO CONNECTIONS																

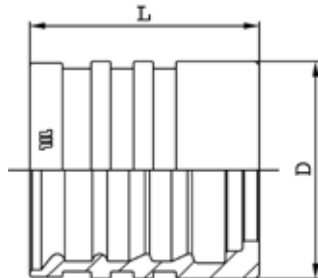


FERRULE

M00110/M00120/M00130

SKIVE FERRULE FOR WIRE BRAID HOSES

PART. REF.	HOSE BORE			DIMENSIONS mm						
	DN	Dash	inch	D	L					
M00120-03	5	-3	3/16"	17	23,9					
M00120-04	6	-4	1/4"	19,5	28					
M00120-05	8	-5	5/16"	20	28,6					
M00120-06	10	-6	3/8"	23	30					
M00120-08	12	-8	1/2"	26,7	32					
M00120-10	16	-10	5/8"	32	38					
M00120-12	19	-12	3/4"	35,8	41,7					
M00130-16	25	-16	1"	43	47					
M00110-20	31	-20	1.1/4"	50,5	59					
M00110-24	38	-24	1.1/2"	57	70					
M00110-32	51	-32	2"	70	72					



FERRULE

M00910/M00920/M00930

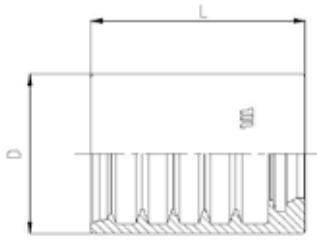
SKIVE FERRULE FOR WIRE BRAID AND SPIRAL HOSES

PART. REF.	HOSE BORE			DIMENSIONS mm						
	DN	Dash	inch	D	L					
M00910-03	5	-3	3/16"	20,6	26					
M00910-04	6	-4	1/4"	22	30					
M00910-05	8	-5	5/16"	24	31					
M00910-06	10	-6	3/8"	26	33					
M00910-08	12	-8	1/2"	30	34					
M00910-10	16	-10	5/8"	33	39					
M00920-12	19	-12	3/4"	38	40					
M00930-16	25	-16	1"	46	54					
M00920-20	31	-20	1.1/4"	57	60					
M00910-24	38	-24	1.1/2"	65	70					
M00910-32	51	-32	2"	79	72					

FERRULE

M03300

NO-SKIVE FERRULE FOR WIRE BRAID HOSES



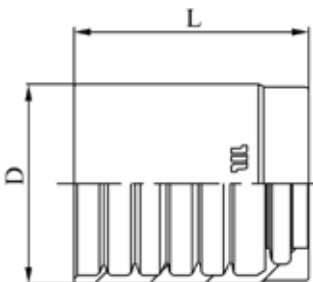
PART. REF.	HOSE BORE			DIMENSIONS mm							
	DN	Dash	inch			D	L				
M03300-03	5	- 3	3/16"			19,2	22				
M03300-04	6	- 4	1/4"			20,5	27,5				
M03300-05	8	- 5	5/16"			22,8	28,5				
M03300-06	10	- 6	3/8"			25	30				

FITTINGS F 2-2

FERRULE

M03400

NO-SKIVE FERRULE FOR WIRE BRAID HOSES

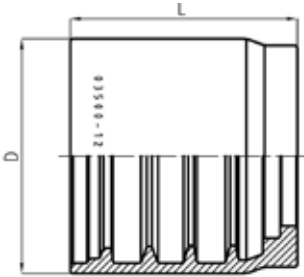


PART. REF.	HOSE BORE			DIMENSIONS mm							
	DN	Dash	inch			D	L				
M03400-03	5	- 3	3/16"			21	23				
M03400-04	6	- 4	1/4"			23	30,1				
M03400-05	8	- 5	5/16"			24	30				
M03400-06	10	- 6	3/8"			26	31,1				
M03400-08	12	- 8	1/2"			29	34				
M03400-10	16	- 10	5/8"			33	37				
M03400-12	19	- 12	3/4"			37	42				
M03400-16	25	- 16	1"			46	50,7				
M03400-20	31	- 20	1.1/4"			59	57,2				
M03400-24	38	- 24	1.1/2"			67	64,8				
M03400-32	51	- 32	2"			80	68,3				
M03400-38	60	- 38	2.3/8"			82,5	69				
M03400-40	63	- 40	2.1/2"			88,2	68,8				
M03400-48	76	- 48	3"			103	75				
M03400-56	89	- 56	3.1/2"			123,4	91				

FERRULE

M03500

NO SKIVE FERRULE WIRE SPIRAL

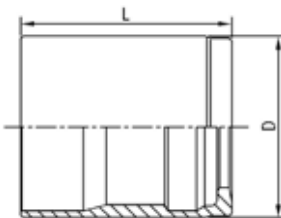


PART. REF.	HOSE BORE			DIMENSIONS mm							
	DN	Dash	inch			D	L				
M03500-06	10	- 6	3/8"			29,5	30,7				
M03500-08	12	- 8	1/2"			33,4	32				
M03500-10	16	- 10	5/8"			37,2	34,8				
M03500-12	19	- 12	3/4"			41,3	40				
M03500-16	25	- 16	1"			49,1	51				

FERRULE

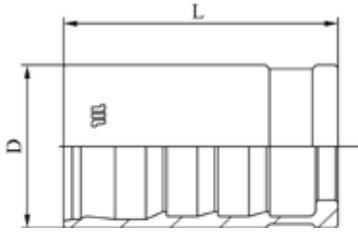
M00310/M00320

NO-SKIVE FERRULE FOR TEXTILE BRAID HOSES



PART. REF.	HOSE BORE			DIMENSIONS mm							
	DN	Dash	inch			D	L				
M00310-03	5	- 3	3/16"			17,5	27				
M00310-04	6	- 4	1/4"			19,3	30				
M00310-05	8	- 5	5/16"			21	32				
M00310-06	10	- 6	3/8"			24	32				
M00310-08	12	- 8	1/2"			28,4	34				
M00310-10	16	- 10	5/8"			33	37				
M00320-12	19	- 12	3/4"			37	43				
M00310-16	25	- 16	1"			43,5	51				
M00310-20	31	- 20	1.1/4"			50	59				

FERRULE



M00820/M00830

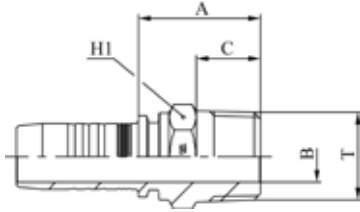
NO-SKIVE FERRULE FOR COMPACT HOSES

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

BS STANDARD CONNECTIONS

M10710

BSP MALE TAPERED - ISO 7

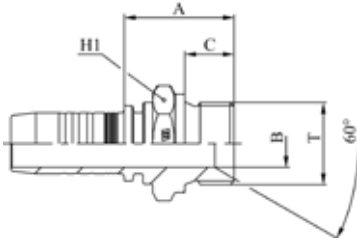


PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	H1			
M10710-03-02	5	-3	3/16"	1/8" - 28		4,5	20,5	8	12			
M10710-03-04	5	-3	3/16"	1/4" - 19		4,5	24,5	12	14			
M10710-04-02	6	-4	1/4"	1/8" - 28		4,5	21	8	12			
M10710-04-04	6	-4	1/4"	1/4" - 19		4,5	25	12	14			
M10710-04-06	6	-4	1/4"	3/8" - 19		7	26	12	19			
M10710-04-08	6	-4	1/4"	1/2" - 14		10	29,5	15	22			
M10710-05-04	8	-5	5/16"	1/4" - 19		5,5	25	12	14			
M10710-05-06	8	-5	5/16"	3/8" - 19		7	26,5	12	19			
M10710-05-08	8	-5	5/16"	1/2" - 14		10	30	15	22			
M10710-06-06	10	-6	3/8"	3/8" - 19		7	27	12	19			
M10710-06-08	10	-6	3/8"	1/2" - 14		10	30,5	15	22			
M10710-08-04	12	-8	1/2"	1/4" - 19		4,5	26	12	19			
M10710-08-08	12	-8	1/2"	1/2" - 14		10	31	15	22			
M10710-10-08	16	-10	5/8"	1/2" - 14		10	31	15	22			
M10710-10-12	16	-10	5/8"	3/4" - 14		17	34	17	27			
M10710-12-12	19	-12	3/4"	3/4" - 14		17	35,5	17	27			
M10710-16-12	25	-16	1"	3/4" - 14		17	38	17	32			
M10710-16-16	25	-16	1"	1" - 11		22,5	42	21	36			
M10710-20-20	31	-20	1.1/4"	1.1/4" - 11		28,5	47,5	23	46			
M10710-24-24	38	-24	1.1/2"	1.1/2" - 11		32	50	23	50			
M10710-32-32	51	-32	2"	2" - 11		44	55,5	27	65			

BS STANDARD CONNECTIONS

M10510

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

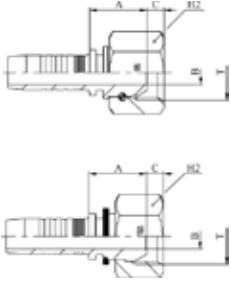


PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C			
M10510-03-02	5	-3	3/16"	1/8" - 28		3,5	22,5	10	14			
M10510-03-04	5	-3	3/16"	1/4" - 19		5	25	11	19			
M10510-04-02	6	-4	1/4"	1/8" - 28		3,5	22,5	10	14			
M10510-04-04	6	-4	1/4"	1/4" - 19		5	25,5	11	19			
M10510-04-06	6	-4	1/4"	3/8" - 19		8	27	12	22			
M10510-04-08	6	-4	1/4"	1/2" - 14		11	30	14	27			
M10510-05-04	8	-5	5/16"	1/4" - 19		5	26	11	19			
M10510-05-06	8	-5	5/16"	3/8" - 19		8	27,5	12	22			
M10510-06-04	10	-6	3/8"	1/4" - 19		5	26	11	19			
M10510-06-06	10	-6	3/8"	3/8" - 19		8	28	12	22			
M10510-06-08	10	-6	3/8"	1/2" - 14		11	30,5	14	27			
M10510-08-06	12	-8	1/2"	3/8" - 19		8	28	12	22			
M10510-08-08	12	-8	1/2"	1/2" - 14		11	31	14	27			
M10510-08-10	12	-8	1/2"	5/8" - 14		14,5	33	16	30			
M10510-08-12	12	-8	1/2"	3/4" - 14		17	34	16	32			
M10510-10-10	16	-10	5/8"	5/8" - 14		14,5	33	16	30			
M10510-10-12	16	-10	5/8"	3/4" - 14		17	35,5	16	32			
M10510-12-08	19	-12	3/4"	1/2" - 14		11	32	14	27			
M10510-12-12	19	-12	3/4"	3/4" - 14		17	35,5	16	32			
M10510-12-16	19	-12	3/4"	1" - 11		22,5	39,5	19	41			
M10510-16-12	25	-16	1"	3/4" - 14		17	36,5	16	32			
M10510-16-16	25	-16	1"	1" - 11		22,5	41	19	41			
M10510-16-20	25	-16	1"	1.1/4" - 11		28,5	45	20	50			
M10510-20-20	31	-20	1.1/4"	1.1/4" - 11		28,5	46,5	20	50			
M10510-20-24	31	-20	1.1/4"	1.1/2" - 11		33,5	48,5	22	55			
M10510-24-24	38	-24	1.1/2"	1.1/2" - 11		33,5	49,5	22	55			
M10510-32-32	51	-32	2"	2" - 11		46	54	25	70			

BS STANDARD CONNECTIONS

M20512/M20513

BSP FEMALE 60° CONE - BS5200 / ISO 12151-6



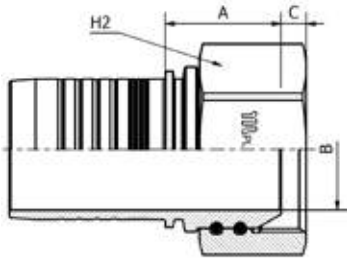
PART. REF.	HOSE BORE			Thread	DIMENSIONS mm								
	DN	Dash	inch		T	B	A	C	H2				
M20512-03-02	5	-3	3/16"	1/8" - 28		3	16	4,4	14				
M20513-03-04	5	-3	3/16"	1/4" - 19		4	16,5	5,4	19				
M20512-04-02	6	-4	1/4"	1/8" - 28		3,1	16,5	4,4	14				
M20513-04-04	6	-4	1/4"	1/4" - 19		4	17	5,4	19				
M20513-04-06	6	-4	1/4"	3/8" - 19		7	19	6	22				
M20513-04-08	6	-4	1/4"	1/2" - 14		9,5	19,5	6,3	27				
M20512-05-04	8	-5	5/16"	1/4" - 19		4,1	17,5	4,2	19				
M20513-05-06	8	-5	5/16"	3/8" - 19		7	19	6	22				
M20513-05-08	8	-5	5/16"	1/2" - 14		9,3	20,5	6,3	27				
M20512-06-04	10	-6	3/8"	1/4" - 19		4,1	18	4,2	19				
M20513-06-06	10	-6	3/8"	3/8" - 19		7	19,5	6	22				
M20513-06-08	10	-6	3/8"	1/2" - 14		9,3	20	6,3	27				
M20512-08-06	12	-8	1/2"	3/8" - 19		7,1	21	6	22				
M20513-08-08	12	-8	1/2"	1/2" - 14		9,3	20,5	6,3	27				
M20512-08-10	12	-8	1/2"	5/8" - 14		12,1	22	10,2	28				
M20512-08-12	12	-8	1/2"	3/4" - 14		15	24,5	9	32				
M20512-10-08	16	-10	5/8"	1/2" - 14		9,8	24	6,5	27				
M20512-10-10	16	-10	5/8"	5/8" - 14		12,5	21,5	10,2	28				
M20512-10-12	16	-10	5/8"	3/4" - 14		15	23	9	32				
M20512-12-08	19	-12	3/4"	1/2" - 14		9,8	25	6,5	27				
M20512-12-12	19	-12	3/4"	3/4" - 14		15	24,5	9	32				
M20512-12-16	19	-12	3/4"	1" - 11		19,8	26	10,5	38				
M20512-16-12	25	-16	1"	3/4" - 14		15	25,5	9	32				
M20512-16-16	25	-16	1"	1" - 11		19,8	27,5	10,5	38				

M20512: THRUST-WIRE NUT / M20513: SLIP-ON NUT

BS STANDARD CONNECTIONS

M20514

BSP FEMALE 60° CONE - BS5200 / ISO 12151-6

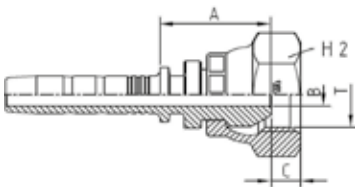


PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	H2		
M20514-40-40	63	- 40	2.1/2"	2.1/2"		55,4	52,5	11,5	85			
M20514-48-48	76	- 48	3"	3"		65	57	10,9	100			

BS STANDARD CONNECTIONS

M20511KR

BSP FEMALE 60° CONE - BS5200 / ISO 12151-6



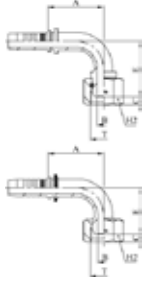
PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	H2		
M20511-04-04H12KR	6	- 4	1/4"	1/4" - 19		4	25	5,2	19			
M20511-04-04KR	6	- 4	1/4"	1/4" - 19		4	20	5,2	19			
M20511-04-06H17KR	6	- 4	1/4"	3/8" - 19		7	27	6	22			
M20511-06-06H17KR	10	- 6	3/8"	3/8" - 19		7	27,5	6	22			
M20511-06-06KR	10	- 6	3/8"	3/8" - 19		7	22	6	22			
M20511-06-08H19KR	10	- 6	3/8"	1/2" - 14		9,3	29,5	6,5	27			
M20511-08-06H19KR	12	- 8	1/2"	3/8" - 19		7	29,5	6	22			
M20511-08-08H19KR	12	- 8	1/2"	1/2" - 14		9,3	30	6,5	27			
M20511-08-08KR	12	- 8	1/2"	1/2" - 14		9,3	24	6,5	27			

KR:CRIMPED-BACK KOMPACT ROBUST NUT
H:FITTINGS WITH COUNTER-HEX.

BS STANDARD CONNECTIONS

M20592/M20593

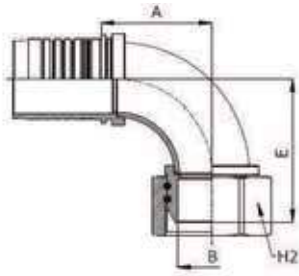
90° BSP FEMALE SWEPT ELBOW 60° CONE - BS5200 / ISO 12151-6



PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	E	H2		
M20592-03-02	5	-3	3/16"	1/8" - 28		3	21,5	4,4	26	14		
M20593-03-04	5	-3	3/16"	1/4" - 19		4	29	5,4	29	19		
M20592-04-02	6	-4	1/4"	1/8" - 28		3,1	28,5	4,4	27	14		
M20593-04-04	6	-4	1/4"	1/4" - 19		4	29,5	5,4	29	19		
M20593-04-06	6	-4	1/4"	3/8" - 19		7	29,5	6	31	22		
M20592-05-04	8	-5	5/16"	1/4" - 19		4	26,5	4,1	29,5	19		
M20593-05-06	8	-5	5/16"	3/8" - 19		7	32	6	27,5	22		
M20593-05-08	8	-5	5/16"	1/2" - 14		9,3	36,5	6,3	32	27		
M20592-06-04	10	-6	3/8"	1/4" - 19		4	27	4,1	29,5	19		
M20593-06-06	10	-6	3/8"	3/8" - 19		7	36,5	6	31,5	22		
M20593-06-08	10	-6	3/8"	1/2" - 14		9,3	36,5	6,3	32	27		
M20592-08-06	12	-8	1/2"	3/8" - 19		7,1	45	6	41	22		
M20593-08-08	12	-8	1/2"	1/2" - 14		9,3	45	6,3	36,5	27		
M20592-08-10	12	-8	1/2"	5/8" - 14		12,1	44	10,2	44	28		
M20592-08-12	12	-8	1/2"	3/4" - 14		15	44	9	45,5	32		
M20592-10-08	16	-10	5/8"	1/2" - 14		9,3	53,5	6,5	54,5	27		
M20592-10-10	16	-10	5/8"	5/8" - 14		12,5	53,5	10,2	53,5	28		
M20592-10-12	16	-10	5/8"	3/4" - 14		15	53,5	9	55	32		
M20592-12-08	19	-12	3/4"	1/2" - 14		9,3	45,5	6,5	44	27		
M20592-12-12	19	-12	3/4"	3/4" - 14		15	61,5	9	59,5	32		
M20592-12-16	19	-12	3/4"	1" - 11		19,8	61,5	10,5	62	38		
M20592-16-12	25	-16	1"	3/4" - 14		15	64,5	9	59,5	32		
M20592-16-16	25	-16	1"	1" - 11		19,8	79,5	10,5	76	38		

M20592: THRUST-WIRE NUT / M20593: SLIP-ON NUT

BS STANDARD CONNECTIONS



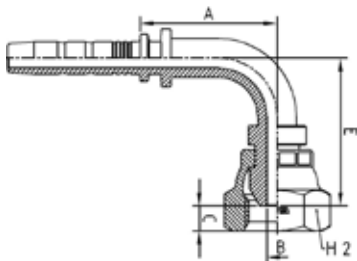
M20594

90° BSP FEMALE SWEPT ELBOW 60° CONE - BS5200 / ISO 12151-6

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M20594-40-40	63	- 40	2.1/2"	2.1/2"		55,4	88	11,5	114	85		
M20594-48-48	76	- 48	3"	3"		65	123	10,9	135	100		

BRAZED SOLUTION

BS STANDARD CONNECTIONS



M20591KR

90° BSP FEMALE SWEPT ELBOW 60° CONE - BS5200 / ISO 12151-6

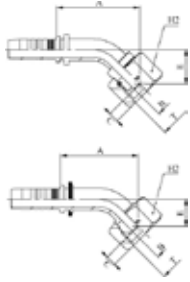
PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M20591-04-04KR	6	- 4	1/4"	1/4" - 19		4,2	28,5	5,2	30,5	19		
M20591-04-06KR	6	- 4	1/4"	3/8" - 19		7	28,5	6	32	22		
M20591-06-06KR	10	- 6	3/8"	3/8" - 19		7	35,5	6	37,5	22		
M20591-06-08KR	10	- 6	3/8"	1/2" - 14		9,3	35,5	6,5	39	27		
M20591-08-06KR	12	- 8	1/2"	3/8" - 19		7	44	6	42	22		
M20591-08-08KR	12	- 8	1/2"	1/2" - 14		9,3	44	6,5	43,5	27		

KR:CRIMPED-BACK KOMPACT ROBUST NUT

BS STANDARD CONNECTIONS

M20542/M20543

45° BSP FEMALE SWEPT ELBOW 60° CONE - BS5200 / ISO 12151-6



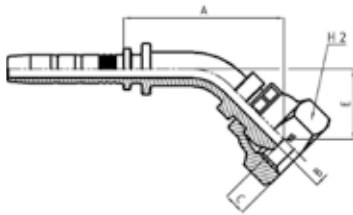
PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M20542-03-02	5	- 3	3/16"	1/8" - 28		3	31	4,4	15	14		
M20543-03-04	5	- 3	3/16"	1/4" - 19		4	35,5	5,4	14,5	19		
M20542-04-02	6	- 4	1/4"	1/8" - 28		3,1	35,5	4,4	14,5	14		
M20543-04-04	6	- 4	1/4"	1/4" - 19		4	36	5,4	15	19		
M20543-04-06	6	- 4	1/4"	3/8" - 19		7	37,5	6	16	22		
M20542-05-04	8	- 5	5/16"	1/4" - 19		4	35,5	4,1	16	19		
M20543-05-06	8	- 5	5/16"	3/8" - 19		7	38	6	13,5	22		
M20543-06-06	10	- 6	3/8"	3/8" - 19		7	42	6	15,5	22		
M20543-06-08	10	- 6	3/8"	1/2" - 14		9,3	42,5	6,3	16	27		
M20542-08-06	12	- 8	1/2"	3/8" - 19		7,1	52	6	20	22		
M20543-08-08	12	- 8	1/2"	1/2" - 14		9,3	49,5	6,3	17	27		
M20542-08-10	12	- 8	1/2"	5/8" - 14		12,1	54,5	10,2	22,5	28		
M20542-08-12	12	- 8	1/2"	3/4" - 14		15	57	9	25	32		
M20542-10-08	16	- 10	5/8"	1/2" - 14		9,3	63,5	6,5	26,5	27		
M20542-10-10	16	- 10	5/8"	5/8" - 14		12,5	63	10,2	26	28		
M20542-10-12	16	- 10	5/8"	3/4" - 14		15	64	9	27	32		
M20542-12-08	19	- 12	3/4"	1/2" - 14		9,3	55,5	6,5	22,5	27		
M20542-12-12	19	- 12	3/4"	3/4" - 14		15	70,5	9	28,5	32		
M20542-12-16	19	- 12	3/4"	1" - 11		19,8	72,5	10,5	30	38		
M20542-16-16	25	- 16	1"	1" - 11		19,8	91	10,5	36,5	38		

M20542: THRUST-WIRE NUT / M20543: SLIP-ON NUT

BS STANDARD CONNECTIONS

M20541KR

45° BSP FEMALE SWEPT ELBOW 60° CONE - BS5200 / ISO 12151-6



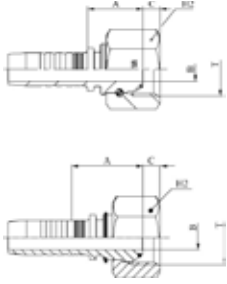
PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M20541-04-04KR	6	- 4	1/4"	1/4" - 19		4,2	38	5,2	16,6	19		
M20541-06-06KR	10	- 6	3/8"	3/8" - 19		7	45,5	6	20	22		
M20541-08-08KR	12	- 8	1/2"	1/2" - 14		9,3	54	6,5	22	27		

KR:CRIMPED-BACK KOMPACT ROBUST NUT

BS STANDARD CONNECTIONS

M20812/M20813

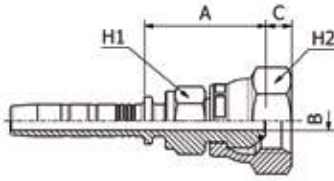
BSP O-RING FEMALE 60° CONE - BS5200 / ISO 12151-6



PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	H2			
M20813-03-04	5	- 3	3/16"	1/4" - 19		4	16,5	5,4	19			
M20813-04-04	6	- 4	1/4"	1/4" - 19		4	17	5,4	19			
M20813-04-06	6	- 4	1/4"	3/8" - 19		7	19	6	22			
M20812-06-04	10	- 6	3/8"	1/4" - 19		4,1	18	4,1	19			
M20813-06-06	10	- 6	3/8"	3/8" - 19		7	19,5	6	22			
M20813-06-08	10	- 6	3/8"	1/2" - 14		9,3	21	6,3	27			
M20813-08-08	12	- 8	1/2"	1/2" - 14		9,3	20,5	6,3	27			
M20812-10-10	16	- 10	5/8"	5/8" - 14		12,5	22	9,7	28			
M20812-12-12	19	- 12	3/4"	3/4" - 14		15	25	8,5	32			
M20812-16-12	25	- 16	1"	3/4" - 14		15	26	8,5	32			
M20812-16-16	25	- 16	1"	1" - 11		19,8	27,5	10,6	38			
M20812-16-20	25	- 16	1"	1.1/4" - 11		26,1	31	10,5	50			
M20812-20-16	31	- 20	1.1/4"	1" - 11		19,8	29	10,5	38			
M20812-20-20	31	- 20	1.1/4"	1.1/4" - 11		26	31,5	10,5	50			
M20812-20-24	31	- 20	1.1/4"	1.1/2" - 11		32,1	29,5	12,5	60			
M20812-24-20	38	- 24	1.1/2"	1.1/4" - 11		26	31,5	10,5	50			
M20812-24-24	38	- 24	1.1/2"	1.1/2" - 11		32	30,5	12,5	60			
M20812-24-32	38	- 24	1.1/2"	2" - 11		42,1	30	16,1	70			
M20812-32-32	51	- 32	2"	2" - 11		42	32	16,1	70			

M20812: THRUST-WIRE NUT / M20813: SLIP-ON NUT

BS STANDARD CONNECTIONS



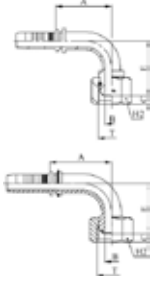
M20811HKR

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	H1	H2	
M20811-04-04H12KR	6	- 4	1/4"	1/4" - 19		4	25	5,2	12	19		
M20811-04-06H17KR	6	- 4	1/4"	3/8" - 19		7	27	6	17	22		
M20811-06-04H17KR	10	- 6	3/8"	1/4" - 19		4	26	5,2	17	19		
M20811-06-06H17KR	10	- 6	3/8"	3/8" - 19		7	27,5	6	17	22		
M20811-06-08H19KR	10	- 6	3/8"	1/2" - 14		9,3	29,5	6,5	19	27		
M20811-08-06H19KR	12	- 8	1/2"	3/8" - 19		7	29,5	6	19	22		
M20811-08-08H19KR	12	- 8	1/2"	1/2" - 14		9,3	30	5,5	19	22		

BS STANDARD CONNECTIONS

M20892/M20893

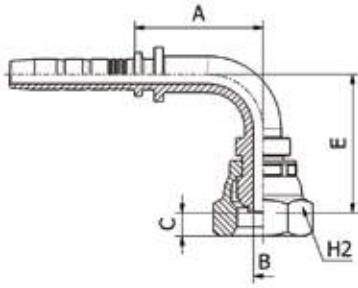
90° BSP O-RING FEMALE SWEPT ELBOW 60° CONE - BS5200 / ISO
12151-6



PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	E	H2	
M20893-03-04	5	-3	3/16"	1/4" - 19	4	29	5,4	29	19		
M20893-04-04	6	-4	1/4"	1/4" - 19	4	29,5	5,4	29	19		
M20892-06-04	10	-6	3/8"	1/4" - 19	4,1	35,5	4,1	33	19		
M20893-06-06	10	-6	3/8"	3/8" - 19	7	36,5	6	31,5	22		
M20893-08-08	12	-8	1/2"	1/2" - 14	9,3	45	6,3	36,5	27		
M20892-10-10	16	-10	5/8"	5/8" - 14	12,5	53	9,7	55	28		
M20892-12-12	19	-12	3/4"	3/4" - 14	15	61,5	8,5	60	32		
M20892-12-16	19	-12	3/4"	1" - 11	19,8	61,5	10,6	62	38		
M20892-16-12	25	-16	1"	3/4" - 14	15	79,5	8,5	60	32		
M20892-16-16	25	-16	1"	1" - 11	19,8	79,5	10,6	76	38		
M20892-16-20	25	-16	1"	1.1/4" - 11	26,1	79,5	10,5	78,5	50		
M20892-20-16	31	-20	1.1/4"	1" - 11	19,8	79,5	10,6	76	38		
M20892-20-20	31	-20	1.1/4"	1.1/4" - 11	26	90,5	10,5	83,5	50		
M20892-20-24	31	-20	1.1/4"	1.1/2" - 11	32,1	90,5	12,5	84,5	60		
M20892-24-20	38	-24	1.1/2"	1.1/4" - 11	26	95	10,5	90,5	50		
M20892-24-24	38	-24	1.1/2"	1.1/2" - 11	32	108	12,5	98,5	60		
M20892-24-32	38	-24	1.1/2"	2" - 11	42,1	108	16,1	98	70		
M20892-32-32	51	-32	2"	2" - 11	42	131	16,1	110,5	70		

M20892: THRUST-WIRE NUT / M20893: SLIP-ON NUT

BS STANDARD CONNECTIONS



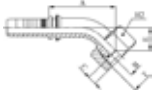
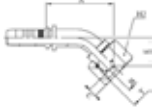
M20891KR

90° BSP O-RING FEMALE 60° CONE - BS5200 / ISO 12151-6

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M20891-04-04KR	6	- 4	1/4"	1/4" - 19		4,2	28,5	5,2	30,5	19		
M20891-04-06KR	6	- 4	1/4"	3/8" - 19		7	28,5	6	32	22		
M20891-06-04KR	10	- 6	3/8"	1/4" - 19		4	37,5	5,2	36	19		
M20891-06-06KR	10	- 6	3/8"	3/8" - 19		7	35,5	6	37,5	22		
M20891-06-08KR	10	- 6	3/8"	1/2" - 14		9,3	35,5	6,5	39	27		
M20891-08-06KR	12	- 8	1/2"	3/8" - 19		7	44	6	42	22		
M20891-08-08KR	12	- 8	1/2"	1/2" - 14		9,3	44	5,5	43,5	22		

KR:CRIMPED-BACK KOMPACT ROBUST NUT

BS STANDARD CONNECTIONS



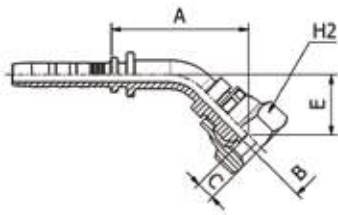
M20842/M20843

45° BSP O-RING FEMALE SWEPT ELBOW 60° CONE BS5200 / ISO
12151-6

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M20843-04-04	6	- 4	1/4"	1/4" - 19		4	36	5,4	14,5	19		
M20843-06-06	10	- 6	3/8"	3/8" - 19		7	42	6	15,5	22		
M20843-08-08	12	- 8	1/2"	1/2" - 14		9,3	49,5	6,3	17	27		
M20842-10-10	16	- 10	5/8"	5/8" - 14		12,5	63,5	9,7	27,5	28		
M20842-12-12	19	- 12	3/4"	3/4" - 14		15	71	8,5	29	32		
M20842-16-12	25	- 16	1"	3/4" - 14		15	79,5	8,5	29	32		
M20842-16-16	25	- 16	1"	1" - 11		19,8	90,5	10,6	35,5	38		
M20842-16-20	25	- 16	1"	1.1/4" - 11		26,1	93	10,5	38	50		
M20842-20-20	31	- 20	1.1/4"	1.1/4" - 11		26	101,5	10,5	39	50		
M20842-20-24	31	- 20	1.1/4"	1.1/2" - 11		32,1	118,5	12,5	40,5	60		
M20842-24-20	38	- 24	1.1/2"	1.1/4" - 11		26	106	10,5	42	50		
M20842-24-24	38	- 24	1.1/2"	1.1/2" - 11		32	118	12,5	45	60		
M20842-24-32	38	- 24	1.1/2"	2" - 11		42,1	117,5	16,1	44,5	70		
M20842-32-32	51	- 32	2"	2" - 11		42	134	16,1	47	70		

M20842: THRUST-WIRE NUT / M20843: SLIP-ON NUT

BS STANDARD CONNECTIONS



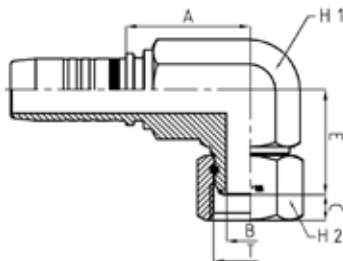
M20841KR

45° BSP O-RING FEMALE 60° CONE BS5200 / ISO 12151-6

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	E	H2		
M20841-04-04KR	6	- 4	1/4"	1/4" - 19		4,2	38	5,2	16,6	19		
M20841-06-06KR	10	- 6	3/8"	3/8" - 19		7	45,5	6	16,5	22		
M20841-08-08KR	12	- 8	1/2"	1/2" - 14		9,3	54	6,5	22	27		

FITTINGS F 2-18

BS STANDARD CONNECTIONS

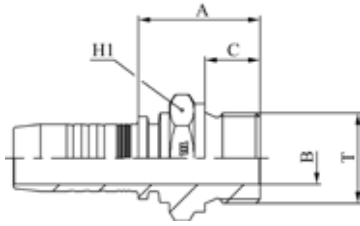


M20882F

90° BSP O-RING FEMALE COMPACT ELBOW 60° CONE BS5200 / ISO 12151-6 (THRUST-WIRE NUT)

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	E	H1	H2	
M20882-04-04F	6	- 4	1/4"	1/4" - 19		4	20	4,1	22	14	19	
M20882-06-06F	10	- 6	3/8"	3/8" - 19		7	23	6	27,5	19	22	
M20882-08-08F	12	- 8	1/2"	1/2" - 14		9,3	25	6,5	31	22	27	
M20882-10-10F	16	- 10	5/8"	5/8" - 14		12,5	24,5	9,7	32,5	24	28	
M20882-12-12F	19	- 12	3/4"	3/4" - 14		15	37,5	8,5	36	27	32	
M20882-16-16F	25	- 16	1"	1" - 11		20	52	10,6	44	36	38	

BS STANDARD CONNECTIONS



M10610

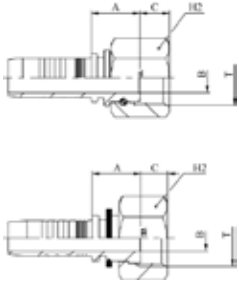
BSP MALE FLAT SEAT

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	H1		
M10610-04-04	6	- 4	1/4"	1/4" - 19		6	25,5	11	19			
M10610-06-06	10	- 6	3/8"	3/8" - 19		9,5	28	12	22			
M10610-06-08	10	- 6	3/8"	1/2" - 14		13	30,5	14	27			
M10610-08-08	12	- 8	1/2"	1/2" - 14		13	31	14	27			
M10610-10-08	16	- 10	5/8"	1/2" - 14		13	31	14	27			
M10610-12-12	19	- 12	3/4"	3/4" - 14		18	35,5	16	32			

BS STANDARD CONNECTIONS

M20612/M20613

BSP FEMALE FLAT SEAT



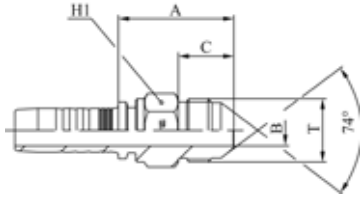
PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C			
M20613-04-04	6	-4	1/4"	1/4" - 19		4	14,5	7,9	19			
M20613-05-06	8	-5	5/16"	3/8" - 19		7	16	9	22			
M20613-06-06	10	-6	3/8"	3/8" - 19		7	16,5	9	22			
M20613-06-08	10	-6	3/8"	1/2" - 14		9,3	17,5	9,8	27			
M20613-08-08	12	-8	1/2"	1/2" - 14		9,3	18	9,8	27			
M20612-08-12	12	-8	1/2"	3/4" - 14		15	21	11,5	32			
M20612-10-12	16	-10	5/8"	3/4" - 14		15	20,5	11,5	32			
M20612-12-12	19	-12	3/4"	3/4" - 14		15	22	11,5	32			
M20612-12-16	19	-12	3/4"	1" - 11		19,8	23,5	13	38			
M20612-16-16	25	-16	1"	1" - 11		19,8	25	13	38			
M20612-20-20	31	-20	1.1/4"	1.1/4" - 11		26	26	15	50			

M20612: THRUST-WIRE NUT / M20613: SLIP-ON NUT

SAE STANDARD CONNECTIONS

M12510

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

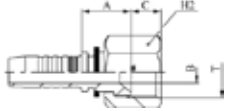
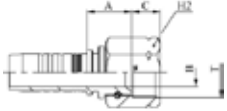


PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	H1			
M12510-04-04	6	-4	1/4"	7/16" - 20		4	28	14	12			
M12510-04-05	6	-4	1/4"	1/2" - 20		5,5	29	14	14			
M12510-04-06	6	-4	1/4"	9/16" - 18		7	29	14	17			
M12510-05-04	8	-5	5/16"	7/16" - 20		4	29	14	14			
M12510-05-05	8	-5	5/16"	1/2" - 20		5,5	29	14	14			
M12510-05-06	8	-5	5/16"	9/16" - 18		7	29	14	17			
M12510-06-05	10	-6	3/8"	1/2" - 20		5,5	29,5	14	17			
M12510-06-06	10	-6	3/8"	9/16" - 18		7	29,5	14	17			
M12510-06-08	10	-6	3/8"	3/4" - 16		9,3	34	16,5	19			
M12510-06-10	10	-6	3/8"	7/8" - 14		12,5	38,5	19,5	24			
M12510-08-06	12	-8	1/2"	9/16" - 18		7	32	14	19			
M12510-08-08	12	-8	1/2"	3/4" - 16		9,3	34,5	16,5	19			
M12510-08-10	12	-8	1/2"	7/8" - 14		12,5	39	19,5	24			
M12510-08-12	12	-8	1/2"	1.1/16" - 12		15	43	22	27			
M12510-10-10	16	-10	5/8"	7/8" - 14		12,5	39	19,5	24			
M12510-10-12	16	-10	5/8"	1.1/16" - 12		15	42,5	22	27			
M12510-12-10	19	-12	3/4"	7/8" - 14		12,5	41,5	19,5	27			
M12510-12-12	19	-12	3/4"	1.1/16" - 12		15	44	22	27			
M12510-12-14	19	-12	3/4"	1.3/16" - 12		15	44,5	22,5	32			
M12510-12-16	19	-12	3/4"	1.5/16" - 12		19,8	47	23	34			
M12510-16-12	25	-16	1"	1.1/16" - 12		15	45	22	32			
M12510-16-16	25	-16	1"	1.5/16" - 12		19,8	48	23	34			
M12510-16-20	25	-16	1"	1.5/8" - 12		26	53	24,3	42			
M12510-20-20	31	-20	1.1/4"	1.5/8" - 12		26	53,5	24,3	42			
M12510-20-24	31	-20	1.1/4"	1.7/8" - 12		32	60,5	27,5	50			
M12510-24-24	38	-24	1.1/2"	1.7/8" - 12		32	60,5	27,5	50			
M12510-32-32	51	-32	2"	2.1/2" - 12		42	72	34	65			

SAE STANDARD CONNECTIONS

M22512/M22513

JIC FEMALE 37° CONE SEAT - SAE J516 / ISO 12151-5



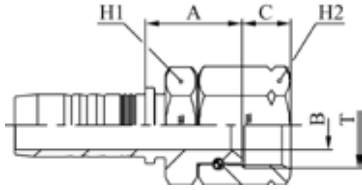
FITTINGS F 2-22

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	H2			
M22513-03-04	5	- 3	3/16"	7/16" - 20		3	15	8	15			
M22512-03-05	5	- 3	3/16"	1/2" - 20		4	15,5	9,1	17			
M22512-04-04	6	- 4	1/4"	7/16" - 20		4	15,5	8,7	17			
M22512-04-05	6	- 4	1/4"	1/2" - 20		4	16	9,1	17			
M22513-04-06	6	- 4	1/4"	9/16" - 18		4	16,5	9,8	19			
M22512-05-04	8	- 5	5/16"	7/16" - 20		4	15,5	8,7	17			
M22512-05-05	8	- 5	5/16"	1/2" - 20		5,5	16	9,1	17			
M22512-05-06	8	- 5	5/16"	9/16" - 18		7	15,5	9,2	19			
M22513-05-08	8	- 5	5/16"	3/4" - 16		5,5	17	10,1	22			
M22512-06-05	10	- 6	3/8"	1/2" - 20		5,5	16,5	9,1	17			
M22512-06-06	10	- 6	3/8"	9/16" - 18		7	16	9,2	19			
M22513-06-08	10	- 6	3/8"	3/4" - 16		7	17,5	10,1	22			
M22513-06-10	10	- 6	3/8"	7/8" - 14		9,3	18	12,4	27			
M22512-08-08	12	- 8	1/2"	3/4" - 16		9,3	20	10,2	22			
M22513-08-10	12	- 8	1/2"	7/8" - 14		9,3	18,5	12,4	27			
M22513-08-12	12	- 8	1/2"	1.1/16" - 12		12,5	22	14,1	32			
M22512-10-10	16	- 10	5/8"	7/8" - 14		12,5	20	12,3	27			
M22513-10-12	16	- 10	5/8"	1.1/16" - 12		12,5	21,5	14,1	32			
M22512-12-08	19	- 12	3/4"	3/4" - 16		9,3	21,5	10,2	22			
M22512-12-10	19	- 12	3/4"	7/8" - 14		12,5	21,5	12,3	27			
M22512-12-12	19	- 12	3/4"	1.1/16" - 12		15	22,5	14,2	32			
M22512-12-14	19	- 12	3/4"	1.3/16" - 12		15	23	14,3	36			
M22512-12-16	19	- 12	3/4"	1.5/16" - 12		19,8	23	15	38			
M22512-16-12	25	- 16	1"	1.1/16" - 12		15	23,5	14,2	32			
M22512-16-16	25	- 16	1"	1.5/16" - 12		19,8	24	15	38			
M22512-16-20	25	- 16	1"	1.5/8" - 12		26	30	16,2	50			
M22512-20-20	31	- 20	1.1/4"	1.5/8" - 12		26	30	16,2	50			
M22512-20-24	31	- 20	1.1/4"	1.7/8" - 12		32	35	18,8	60			
M22512-24-24	38	- 24	1.1/2"	1.7/8" - 12		32	35	18,8	60			
M22512-32-24	51	- 32	2"	1.7/8" - 12		32	37	18,8	60			
M22512-32-32	51	- 32	2"	2.1/2" - 12		44	35,5	24	75			

SAE STANDARD CONNECTIONS

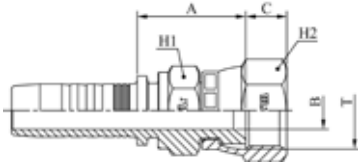
M22712

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



PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	H1	H2		
M22712-03-04	5	- 3	3/16"	7/16" - 20		4	20,5	8,7	12	17		
M22712-04-04	6	- 4	1/4"	7/16" - 20		4	21	8,7	12	17		
M22712-04-05	6	- 4	1/4"	1/2" - 20		4	21,5	9,1	12	17		
M22712-04-06	6	- 4	1/4"	9/16" - 18		7	24	9,2	14	19		
M22712-05-05	8	- 5	5/16"	1/2" - 20		5,5	21,5	9,1	14	17		
M22712-05-06	8	- 5	5/16"	9/16" - 18		7	24	9,2	14	19		
M22712-05-08	8	- 5	5/16"	3/4" - 16		9,3	26	10,2	19	22		
M22712-06-04	10	- 6	3/8"	7/16" - 20		4	24,5	8,7	17	17		
M22712-06-05	10	- 6	3/8"	1/2" - 20		5,5	25	9,1	17	17		
M22712-06-06	10	- 6	3/8"	9/16" - 18		7	24,5	9,2	17	19		
M22712-06-08	10	- 6	3/8"	3/4" - 16		9,3	27	10,2	19	22		
M22712-06-10	10	- 6	3/8"	7/8" - 14		12,5	28	12,3	22	27		
M22712-08-06	12	- 8	1/2"	9/16" - 18		7	24,5	9,2	19	19		
M22712-08-08	12	- 8	1/2"	3/4" - 16		9,3	27,5	10,2	19	22		
M22712-08-10	12	- 8	1/2"	7/8" - 14		12,5	28,5	12,3	22	27		
M22712-08-12	12	- 8	1/2"	1.1/16" - 12		14	30	14,2	27	32		
M22712-10-08	16	- 10	5/8"	3/4" - 16		9,3	28,5	10,2	22	22		
M22712-10-10	16	- 10	5/8"	7/8" - 14		12,5	28,5	12,3	22	27		
M22712-10-12	16	- 10	5/8"	1.1/16" - 12		15	30	14,2	27	32		
M22712-12-08	19	- 12	3/4"	3/4" - 16		9,3	30	10,2	27	22		
M22712-12-10	19	- 12	3/4"	7/8" - 14		12,5	30	12,3	27	27		
M22712-12-12	19	- 12	3/4"	1.1/16" - 12		15	31,5	14,2	27	32		
M22712-12-14	19	- 12	3/4"	1.3/16" - 12		15	33	14,3	30	36		
M22712-12-16	19	- 12	3/4"	1.5/16" - 12		19,8	32,5	15	32	38		
M22712-16-12	25	- 16	1"	1.1/16" - 12		12,5	34	14,2	32	32		
M22712-16-16	25	- 16	1"	1.5/16" - 12		19,8	34,5	15	32	38		
M22712-16-20	25	- 16	1"	1.5/8" - 12		26	43	16,2	41	50		
M22712-20-16	31	- 20	1.1/4"	1.5/16" - 12		19,8	36	15	38	38		
M22712-20-20	31	- 20	1.1/4"	1.5/8" - 12		26	43,5	16,2	41	50		
M22712-24-24	38	- 24	1.1/2"	1.7/8" - 12		32	51	18,8	50	60		
M22712-32-32	51	- 32	2"	2.1/2" - 12		44	51,5	24	65	75		

SAE STANDARD CONNECTIONS



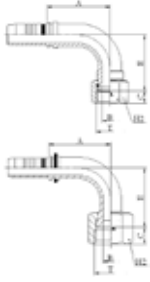
M22711/M22711KR/M22711K

JIC FEMALE 37° CONE SEAT DOUBLE HEXAGON - SAE J516 / ISO
12151-5

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	H1	H2	
M22711-03-04K	5	- 3	3/16"	7/16" - 20		4	20	8,9	12	15		
M22711-04-04KR	6	- 4	1/4"	7/16" - 20		4	20,5	8,9	12	15		
M22711-04-05KR	6	- 4	1/4"	1/2" - 20		4	21	9,4	14	17		
M22711-04-06KR	6	- 4	1/4"	9/16" - 18		7	21,5	9,5	14	17		
M22711-06-04KR	10	- 6	3/8"	7/16" - 20		4	21,5	8,9	17	15		
M22711-06-05KR	10	- 6	3/8"	1/2" - 20		4	22	9,4	17	17		
M22711-06-06KR	10	- 6	3/8"	9/16" - 18		7	22	9,5	17	17		
M22711-06-08KR	10	- 6	3/8"	3/4" - 16		9,3	26,5	10,7	19	22		
M22711-08-08KR	12	- 8	1/2"	3/4" - 16		9,3	27	10,7	19	22		
M22711-08-10KR	12	- 8	1/2"	7/8" - 14		9,3	29,5	12,5	22	25		
M22711-08-12KR	12	- 8	1/2"	1.1/16" - 12		15	28,5	14,1	27	32		
M22711-10-08KR	16	- 10	5/8"	3/4" - 16		9,3	28,5	10,7	22	22		
M22711-10-10KR	16	- 10	5/8"	7/8" - 14		12,5	29,5	12,5	22	25		
M22711-10-12KR	16	- 10	5/8"	1.1/16" - 12		15	29	14,1	27	32		
M22711-12-08KR	19	- 12	3/4"	3/4" - 16		9,3	29,5	10,7	27	22		
M22711-12-10KR	19	- 12	3/4"	7/8" - 14		12,5	30,5	12,5	27	25		
M22711-12-12KR	19	- 12	3/4"	1.1/16" - 12		15	30	14,1	27	32		
M22711-12-16	19	- 12	3/4"	1.5/16" - 12		19,8	34,5	15,3	32	38		
M22711-16-12KR	25	- 16	1"	1.1/16" - 12		15	32,5	14,1	32	32		
M22711-16-16	25	- 16	1"	1.5/16" - 12		19,8	35,5	15,3	32	38		
M22711-20-20	31	- 20	1.1/4"	1.5/8" - 12		26	42	16,1	41	50		
M22711-24-24	38	- 24	1.1/2"	1.7/8" - 12		32	46,5	18,6	50	60		
M22711-32-32	51	- 32	2"	2.1/2" - 12		42	50,5	23,5	65	75		

M22711: CRIMPED-BACK NUT / M22711KR and M22711K: CRIMPED-BACK COMPACT NUT

SAE STANDARD CONNECTIONS

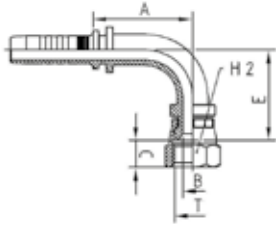


M22592/M22593

90° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516 / ISO
12151-5

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	E	H2		
M22593-03-04	5	- 3	3/16"	7/16" - 20		3	26	8,5	23,5	15		
M22592-04-04	6	- 4	1/4"	7/16" - 20		4	28,5	8,7	27	17		
M22592-04-05	6	- 4	1/4"	1/2" - 20		4	28,5	9,1	27,5	17		
M22593-04-06	6	- 4	1/4"	9/16" - 18		4	29,5	9,8	28	19		
M22593-04-08	6	- 4	1/4"	3/4" - 16		7	29,5	10	30,5	22		
M22592-05-05	8	- 5	5/16"	1/2" - 20		5,5	31	9,1	28	17		
M22592-05-06	8	- 5	5/16"	9/16" - 18		7	31	9,2	28,5	19		
M22592-06-05	10	- 6	3/8"	1/2" - 20		5,5	30	9,1	26,5	17		
M22592-06-06	10	- 6	3/8"	9/16" - 18		7	35,5	9,2	32,5	19		
M22593-06-08	10	- 6	3/8"	3/4" - 16		7	36,5	10,1	29,5	22		
M22593-06-10	10	- 6	3/8"	7/8" - 14		9,3	36,5	12,4	31,5	27		
M22592-08-06	12	- 8	1/2"	9/16" - 18		7	37	9,2	33	19		
M22592-08-08	12	- 8	1/2"	3/4" - 16		9,3	44	10,2	41	22		
M22593-08-10	12	- 8	1/2"	7/8" - 14		9,3	45	12,4	36	27		
M22593-08-12	12	- 8	1/2"	1.1/16" - 12		12,5	45	14,1	36	32		
M22592-10-10	16	- 10	5/8"	7/8" - 14		12,5	53,5	12,3	52,5	27		
M22593-10-12	16	- 10	5/8"	1.1/16" - 12		12,5	51,5	14,1	50	32		
M22592-12-10	19	- 12	3/4"	7/8" - 14		12,5	55	12,3	52,5	27		
M22592-12-12	19	- 12	3/4"	1.1/16" - 12		15	62	14,2	58	32		
M22592-12-14	19	- 12	3/4"	1.3/16" - 12		15	63	14,3	58	36		
M22592-12-16	19	- 12	3/4"	1.5/16" - 12		19,8	63	15	57,5	38		
M22592-16-16	25	- 16	1"	1.5/16" - 12		19,8	77	15	68,5	38		
M22592-16-20	25	- 16	1"	1.5/8" - 12		26	77,5	16,2	74,5	50		
M22592-20-20	31	- 20	1.1/4"	1.5/8" - 12		26	90,5	16,2	86,5	50		
M22592-20-24	31	- 20	1.1/4"	1.7/8" - 12		32	90,5	18,8	90,5	60		
M22592-24-24	38	- 24	1.1/2"	1.7/8" - 12		32	108	18,8	100,5	60		
M22592-32-32	51	- 32	2"	2.1/2" - 12		44	142	24	137	75		

M22592: THRUST-WIRE NUT / M22593: SLIP-ON NUT



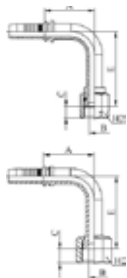
SAE STANDARD CONNECTIONS

M22591KR

90° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	E	H2	
M22591-04-04KR	6	- 4	1/4"	7/16" - 20	4,2	28,5	8,9	26	15		
M22591-04-05KR	6	- 4	1/4"	1/2" - 20	4	28,5	9,4	26,5	17		
M22591-06-06KR	10	- 6	3/8"	9/16" - 18	7	35,5	9,5	32	17		
M22591-08-08KR	12	- 8	1/2"	3/4" - 16	9,3	44	10,7	40,5	22		
M22591-10-10KR	16	- 10	5/8"	7/8" - 14	12,5	53,5	12,5	47	25		
M22591-12-12KR	19	- 12	3/4"	1.1/16" - 12	15	62	14,1	57	32		
M22591-16-12KR	25	- 16	1"	1.1/16" - 12	15	62	14,1	57	32		

KR:CRIMPED-BACK KOMPACT ROBUST NUT



SAE STANDARD CONNECTIONS

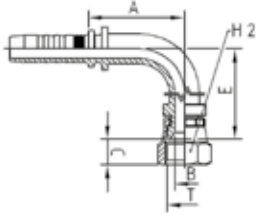
M24792/M24793

90° JIC FEMALE LONG DROP ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	E	H2	
M24792-04-04	6	- 4	1/4"	7/16" - 20	4	28,5	8,7	45	17		
M24792-04-05	6	- 4	1/4"	1/2" - 20	4	28,5	9,1	45	17		
M24793-04-06	6	- 4	1/4"	9/16" - 18	4	29,5	9,8	55,5	19		
M24792-06-06	10	- 6	3/8"	9/16" - 18	7	35,5	9,2	55	19		
M24793-06-08	10	- 6	3/8"	3/4" - 16	7	36,5	10,1	61,5	22		
M24792-08-08	12	- 8	1/2"	3/4" - 16	9,3	44	10,2	61	22		
M24793-08-10	12	- 8	1/2"	7/8" - 14	9,3	45	12,4	65	27		
M24792-10-10	16	- 10	5/8"	7/8" - 14	12,5	53,5	12,3	65,5	27		
M24792-12-12	19	- 12	3/4"	1.1/16" - 12	15	62	14,2	94,5	32		
M24792-16-16	25	- 16	1"	1.5/16" - 12	19,8	77,5	15	110	38		
M24792-20-20	31	- 20	1.1/4"	1.5/8" - 12	26	90,5	16,2	129	50		

M24792: THRUST-WIRE NUT - M24793: SLIP-ON NUT

SAE STANDARD CONNECTIONS



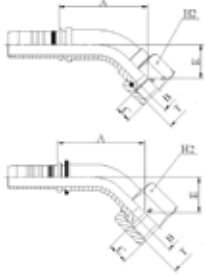
M24791KR

90° JIC FEMALE LONG DROP ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	E	H2		
M24791-04-04KR	6	- 4	1/4"	7/16" - 20		4,2	28,5	8,9	45	15		
M24791-06-06KR	10	- 6	3/8"	9/16" - 18		7	35,5	9,5	55	17		
M24791-08-08KR	12	- 8	1/2"	3/4" - 16		9,3	44	10,7	64	22		
M24791-10-10KR	16	- 10	5/8"	7/8" - 14		12,5	53,5	12,5	70	25		
M24791-12-12KR	19	- 12	3/4"	1.1/16" - 12		15	62	14,1	96	32		

KR:CRIMPED-BACK KOMPACT ROBUST NUT

SAE STANDARD CONNECTIONS

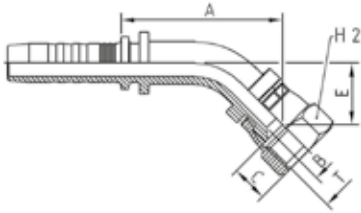


M22542/M22543

45° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516 / ISO
12151-5

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M22542-03-04	5	- 3	3/16"	7/16" - 20		4	35	8,7	14,5	17		
M22542-04-04	6	- 4	1/4"	7/16" - 20		4	35,5	8,7	14,5	17		
M22542-04-05	6	- 4	1/4"	1/2" - 20		4	35,5	9,1	14,5	17		
M22543-04-06	6	- 4	1/4"	9/16" - 18		4	35,5	9,8	14	19		
M22542-05-05	8	- 5	5/16"	1/2" - 20		5,5	37,5	9,1	14	17		
M22542-05-06	8	- 5	5/16"	9/16" - 18		7	38	9,2	14,5	19		
M22542-06-06	10	- 6	3/8"	9/16" - 18		7	42	9,2	16,5	19		
M22543-06-08	10	- 6	3/8"	3/4" - 16		7	41	10,1	14	22		
M22543-06-10	10	- 6	3/8"	7/8" - 14		9,3	42,5	12,4	15,5	27		
M22542-08-06	12	- 8	1/2"	9/16" - 18		7	43	9,2	16,5	19		
M22542-08-08	12	- 8	1/2"	3/4" - 16		9,3	52	10,2	20	22		
M22543-08-10	12	- 8	1/2"	7/8" - 14		9,3	49,5	12,4	17	27		
M22543-08-12	12	- 8	1/2"	1.1/16" - 12		12,5	49,5	14,1	17	32		
M22542-10-10	16	- 10	5/8"	7/8" - 14		12,5	62	12,3	25,5	27		
M22543-10-12	16	- 10	5/8"	1.1/16" - 12		12,5	60	14,1	24	32		
M22542-12-08	19	- 12	3/4"	3/4" - 16		9,3	53,5	10,2	20	22		
M22542-12-10	19	- 12	3/4"	7/8" - 14		12,5	63,5	12,3	25	27		
M22542-12-12	19	- 12	3/4"	1.1/16" - 12		15	70	14,2	27,5	32		
M22542-12-14	19	- 12	3/4"	1.3/16" - 12		15	69,5	14,3	27,5	36		
M22542-12-16	19	- 12	3/4"	1.5/16" - 12		19,8	70	15	27,5	38		
M22542-16-12	25	- 16	1"	1.1/16" - 12		15	72,5	14,2	27,5	32		
M22542-16-16	25	- 16	1"	1.5/16" - 12		19,8	84	15	32	38		
M22542-16-20	25	- 16	1"	1.5/8" - 12		26	90	16,2	36	50		
M22542-20-20	31	- 20	1.1/4"	1.5/8" - 12		26	103,5	16,2	41,5	50		
M22542-20-24	31	- 20	1.1/4"	1.7/8" - 12		32	106,5	18,8	44,5	60		
M22542-24-24	38	- 24	1.1/2"	1.7/8" - 12		32	119	18,8	46,5	60		
M22542-32-32	51	- 32	2"	2.1/2" - 12		44	163	24	68	75		

M22542: THRUST-WIRE NUT - M22543: SLIP-ON NUT



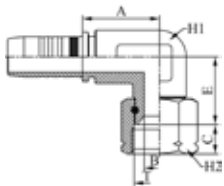
SAE STANDARD CONNECTIONS

M22541KR

45° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M22541-04-04KR	6	- 4	1/4"	7/16" - 20		4,2	34,5	8,9	13,5	15		
M22541-04-05KR	6	- 4	1/4"	1/2" - 20		4	35	9,4	14	17		
M22541-06-06KR	10	- 6	3/8"	9/16" - 18		7	42	9,5	16	17		
M22541-08-08KR	12	- 8	1/2"	3/4" - 16		9,3	52	10,7	20	22		
M22541-10-10KR	16	- 10	5/8"	7/8" - 14		12,5	61	12,5	22,5	25		
M22541-12-12KR	19	- 12	3/4"	1.1/16" - 12		15	69	14,1	26,5	32		

KR:CRIMPED-BACK KOMPACT ROBUST NUT



SAE STANDARD CONNECTIONS

M22582F

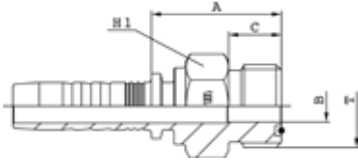
90° JIC FEMALE COMPACT ELBOW 37° CONE SEAT SAE J516 / ISO 12151-5 (THRUST-WIRE NUT)

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H1	H2
M22582-04-04F	6	- 4	1/4"	7/16" - 20		4	20	8,7	20,5	14	17	
M22582-04-06F	6	- 4	1/4"	9/16" - 18		7	20	9,2	21,5	14	19	
M22582-06-06F	10	- 6	3/8"	9/16" - 18		7	23	9,2	24	19	19	
M22582-06-08F	10	- 6	3/8"	3/4" - 16		9,3	26,5	10,2	28	22	22	
M22582-08-08F	12	- 8	1/2"	3/4" - 16		9,3	25	10,2	28	22	22	
M22582-08-10F	12	- 8	1/2"	7/8" - 14		12,5	25	12,3	29	22	27	
M22582-12-12F	19	- 12	3/4"	1.1/16" - 12		15	37,5	14,2	33	27	32	
M22582-16-16F	25	- 16	1"	1.5/16" - 12		20	52	15	40	36	38	

SAE STANDARD CONNECTIONS

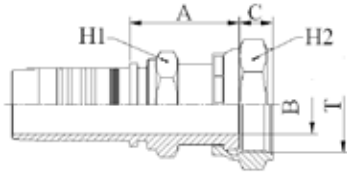
M12410

ORFS MALE - SAE J516 / ISO 12151-1



PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	H1		
M12410-04-04	6	-4	1/4"	9/16" - 18		4	24	9,8	16		
M12410-04-06	6	-4	1/4"	11/16" - 16		6,7	26,5	11,2	19		
M12410-05-06	8	-5	5/16"	11/16" - 16		6,7	27	11,2	19		
M12410-06-06	10	-6	3/8"	11/16" - 16		6,7	27,5	11,2	19		
M12410-06-08	10	-6	3/8"	13/16" - 16		9,3	30	12,8	22		
M12410-08-06	12	-8	1/2"	11/16" - 16		6,7	29	11,2	22		
M12410-08-08	12	-8	1/2"	13/16" - 16		9,3	30,5	12,8	22		
M12410-08-10	12	-8	1/2"	1" - 14		12,5	35	15,5	27		
M12410-08-12	12	-8	1/2"	1.3/16" - 12		15	37,5	17	32		
M12410-10-08	16	-10	5/8"	13/16" - 16		9,3	30,5	12,8	22		
M12410-10-10	16	-10	5/8"	1" - 14		12,5	34,5	15,5	27		
M12410-10-12	16	-10	5/8"	1.3/16" - 12		15	37,5	17	32		
M12410-12-12	19	-12	3/4"	1.3/16" - 12		15	39	17	32		
M12410-12-16	19	-12	3/4"	1.7/16" - 12		19,8	40,5	17,5	38		
M12410-16-16	25	-16	1"	1.7/16" - 12		19,8	42	17,5	38		
M12410-16-20	25	-16	1"	1.11/16" - 12		26	44	17,5	46		
M12410-20-20	31	-20	1.1/4"	1.11/16" - 12		26	46,5	17,5	46		
M12410-24-24	38	-24	1.1/2"	2" - 12		32	48,5	17,5	55		

SAE STANDARD CONNECTIONS

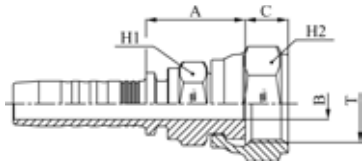


M22411

ORFS FEMALE - SAE J516 / ISO 12151-1 PULLBACK TYPE
(CRIMPED BACK-NUT)

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	H1	H2	
M22411-04-04	6	- 4	1/4"	9/16" - 18		4	27,5	8	13	19		
M22411-04-06	6	- 4	1/4"	11/16" - 16		7	30	9,5	16	22		
M22411-04-08	6	- 4	1/4"	13/16" - 16		9,3	35,5	11	19	24		
M22411-05-04	8	- 5	5/16"	9/16" - 18		4	28,5	8	16	19		
M22411-05-06	8	- 5	5/16"	11/16" - 16		7	30,5	9,5	16	22		
M22411-06-04	10	- 6	3/8"	9/16" - 18		4	29	8	16	19		
M22411-06-06	10	- 6	3/8"	11/16" - 16		7	31	9,5	16	22		
M22411-06-08	10	- 6	3/8"	13/16" - 16		9,3	36,5	11	19	24		
M22411-08-06	12	- 8	1/2"	11/16" - 16		7	32	9,5	19	22		
M22411-08-08	12	- 8	1/2"	13/16" - 16		9,3	37	11	19	24		
M22411-08-10	12	- 8	1/2"	1" - 14		11,5	39	13,5	24	30		
M22411-08-12	12	- 8	1/2"	1.3/16" - 12		13,9	44	14,5	28	36		
M22411-10-08	16	- 10	5/8"	13/16" - 16		9,3	37	11	24	24		
M22411-10-10	16	- 10	5/8"	1" - 14		11,5	39	13,5	24	30		
M22411-10-12	16	- 10	5/8"	1.3/16" - 12		13,9	44	14,5	28	36		
M22411-12-10	19	- 12	3/4"	1" - 14		11,5	41,5	13,5	28	30		
M22411-12-12	19	- 12	3/4"	1.3/16" - 12		13,9	45,5	14,5	28	36		
M22411-12-16	19	- 12	3/4"	1.7/16" - 12		19,8	48,5	15	36	41		
M22411-16-12	25	- 16	1"	1.3/16" - 12		13,9	48	13,5	36	36		
M22411-16-16	25	- 16	1"	1.7/16" - 12		19,8	49,5	15	36	41		
M22411-16-20	25	- 16	1"	1.11/16" - 12		26	49,5	14,8	41	50		
M22411-20-20	31	- 20	1.1/4"	1.11/16" - 12		26	52	14,8	41	50		
M22411-20-24	31	- 20	1.1/4"	2" - 12		32	54	15,8	50	60		
M22411-24-24	38	- 24	1.1/2"	2" - 12		32	54	15,8	50	60		

SAE STANDARD CONNECTIONS

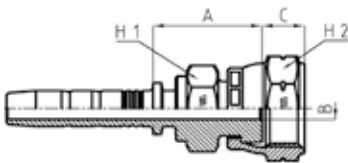


M27411

ORFS FEMALE - SAE J516 / ISO 12151-1 SHORT TYPE
(CRIMPED BACK-NUT)

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	H1	H2	
M27411-04-04	6	-4	1/4"	9/16" - 18		4	20,5	8	13	19		
M27411-04-06	6	-4	1/4"	11/16" - 16		7	22	9,5	16	22		
M27411-05-06	8	-5	5/16"	11/16" - 16		7	25,5	9,5	16	22		
M27411-06-06	10	-6	3/8"	11/16" - 16		7	26	9,5	16	22		
M27411-06-08	10	-6	3/8"	13/16" - 16		9,3	26,5	11	19	24		
M27411-08-08	12	-8	1/2"	13/16" - 16		9,3	26,5	11	19	24		
M27411-08-10	12	-8	1/2"	1" - 14		11,5	27,5	12,5	24	30		
M27411-08-12	12	-8	1/2"	1.3/16" - 12		13,9	31	13,5	28	36		
M27411-10-10	16	-10	5/8"	1" - 14		11,5	28	12,5	24	30		
M27411-10-12	16	-10	5/8"	1.3/16" - 12		13,9	31	13,5	28	36		
M27411-12-12	19	-12	3/4"	1.3/16" - 12		13,9	32,5	13,5	28	36		
M27411-16-16	25	-16	1"	1.7/16" - 12		19,8	36,5	13,5	36	41		

SAE STANDARD CONNECTIONS



M27411KR

ORFS FEMALE - SAE J516 / ISO 12151-1 SHORT TYPE

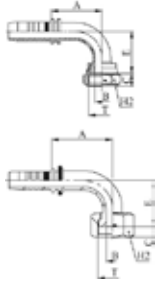
PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	H1	H2	
M27411-04-04KR	6	-4	1/4"	9/16" - 18		4	20,5	8	14	17		
M27411-06-06KR	10	-6	3/8"	11/16" - 16		7	23	9,5	17	22		
M27411-08-08KR	12	-8	1/2"	13/16" - 16		9,3	27	11	19	24		

KR:CRIMPED-BACK KOMPACT ROBUST NUT

SAE STANDARD CONNECTIONS

M22491/M22493

90° ORFS FEMALE SWEPT ELBOW - SAE J516 / ISO 12151-1



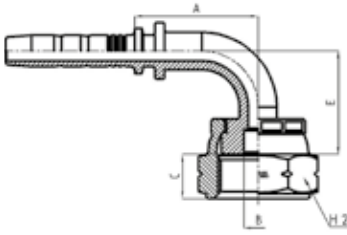
PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	E	H2		
M22493-04-04	6	-4	1/4"	9/16" - 18		4	27,5	8,2	22	17		
M22493-04-06	6	-4	1/4"	11/16" - 16		7	27,5	9,5	22	22		
M22493-05-06	8	-5	5/16"	11/16" - 16		7	32	9,5	23	22		
M22491-06-04	10	-6	3/8"	9/16" - 18		4	28	8	23	19		
M22493-06-06	10	-6	3/8"	11/16" - 16		6	30	9,5	24	22		
M22493-06-08	10	-6	3/8"	13/16" - 16		9,3	30	11	26,5	24		
M22491-08-06	12	-8	1/2"	11/16" - 16		7	30	9,5	24,5	22		
M22493-08-08	12	-8	1/2"	13/16" - 16		9	40,5	11	30	24		
M22493-08-10	12	-8	1/2"	1" - 14		11,5	40	13,5	30,5	30		
M22493-08-12	12	-8	1/2"	1.3/16" - 12		13,9	39,5	14,5	37,5	36		
M22491-10-08	16	-10	5/8"	13/16" - 16		9,3	41	11	34	24		
M22493-10-10	16	-10	5/8"	1" - 14		11,5	48	13,5	37,5	30		
M22491-10-10032	16	-10	5/8"	1" - 14		11	42	7,5	32	30		
M22493-10-12	16	-10	5/8"	1.3/16" - 12		13,9	48	14,5	41	36		
M22491-12-10	19	-12	3/4"	1" - 14		11,5	49	12,5	38,5	30		
M22493-12-12	19	-12	3/4"	1.3/16" - 12		13,9	56,5	14,5	48	36		
M22493-12-16	19	-12	3/4"	1.7/16" - 12		19,8	56,5	14,8	47,5	41		
M22491-16-12	25	-16	1"	1.3/16" - 12		13,9	57,5	13,5	48	36		
M22493-16-16	25	-16	1"	1.7/16" - 12		19,8	71,5	14,8	56	41		
M22493-16-20	25	-16	1"	1.11/16" - 12		26	71,5	14,8	58,5	50		
M22493-20-20	31	-20	1.1/4"	1.11/16" - 12		26	83	14,8	66	50		
M22493-24-24	38	-24	1.1/2"	2" - 12		32	102	14,8	79,5	60		

M22491: CRIMPED BACK-NUT / M22493: SLIP-ON NUT

SAE STANDARD CONNECTIONS

M22491KR

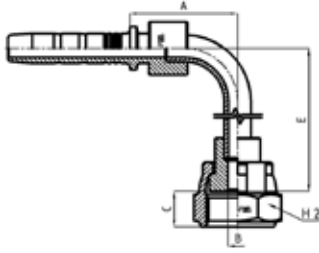
90° ORFS FEMALE SWEPT ELBOW - SAE J516 / ISO 12151-1



PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	E	H2	
M22491-04-04KR	6	- 4	1/4"	9/16" - 18	4,2	54	8	22	17		
M22491-04-06KR	6	- 4	1/4"	11/16" - 16	6	26,3	9,5	22	22		
M22491-06-06KR	10	- 6	3/8"	11/16" - 16	6	29	9,5	24	22		
M22491-06-08KR	10	- 6	3/8"	13/16" - 16	9	35,5	11	28,5	24		
M22491-08-08KR	12	- 8	1/2"	13/16" - 16	9	40,5	11	30,5	24		

KR:CRIMPED-BACK KOMPACT ROBUST NUT

SAE STANDARD CONNECTIONS



M24491 LONG DROP

90° ORFS FEMALE LONG DROP ELBOW - SAE J516 / ISO 12151-1
(CRIMPED-BACK NUT)

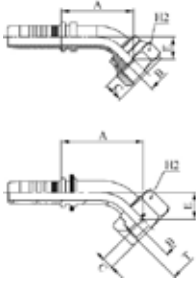
PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M24491-04-04	6	- 4	1/4"	9/16" - 18		4,4	25	8	46	17		
M24491-04-06	6	- 4	1/4"	11/16" - 16		7	26,5	9,5	53,5	22		
M24491-05-06	8	- 5	5/16"	11/16" - 16		6,7	31,5	9,5	54	22		
M24491-06-06	10	- 6	3/8"	11/16" - 16		6,7	32	9,5	54	22		
M24491-06-08	10	- 6	3/8"	13/16" - 16		6,7	32	11	54	24		
M24491-08-08	12	- 8	1/2"	13/16" - 16		9,6	37	11	64	24		
M24491-08-10	12	- 8	1/2"	1" - 14		9,6	37	12,5	64,5	30		
M24491-10-10	16	- 10	5/8"	1" - 14		12	41	13	70	30		
M24491-10-12	16	- 10	5/8"	1.3/16" - 12		12,7	41	13,5	73	36		
M24491-12-12	19	- 12	3/4"	1.3/16" - 12		15	58,5	13,5	96	36		
M24491-16-16	25	- 16	1"	1.7/16" - 12		19,8	71,5	13,5	114	41		
M24491-20-20	31	- 20	1.1/4"	1.11/16" - 12		26	82,5	13,6	129	50		

All items are made from brazing with the exception of M24491-04-06, M24491-12-12, M24491-16-16 and M24491-20-20

SAE STANDARD CONNECTIONS

M22441/M22443

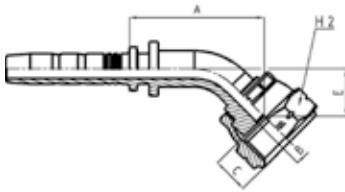
45° ORFS FEMALE SWEPT ELBOW - SAE J516 / ISO 12151-1



PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	E	H2	
M22443-04-04	6	-4	1/4"	9/16" - 18	4	31	8,2	10,5	17		
M22443-04-06	6	-4	1/4"	11/16" - 16	7	31	9,5	10,5	22		
M22443-05-06	8	-5	5/16"	11/16" - 16	7	34	9,5	10,5	22		
M22443-06-06	10	-6	3/8"	11/16" - 16	6	32,5	9,5	11	22		
M22443-06-08	10	-6	3/8"	13/16" - 16	9,3	34	11	12,5	24		
M22441-08-06	12	-8	1/2"	11/16" - 16	7	32,5	9,5	11	22		
M22443-08-08	12	-8	1/2"	13/16" - 16	9	42	11	13	24		
M22443-08-10	12	-8	1/2"	1" - 14	11,5	42	13,5	13,5	30		
M22443-08-12	12	-8	1/2"	1.3/16" - 12	13,9	46,5	14,5	18,5	36		
M22443-10-10	16	-10	5/8"	1" - 14	11,5	49	13,5	16	30		
M22443-10-12	16	-10	5/8"	1.3/16" - 12	13,9	51,5	14,5	18,5	36		
M22441-12-10	19	-12	3/4"	1" - 14	11,5	51	12,5	16,5	30		
M22443-12-12	19	-12	3/4"	1.3/16" - 12	13,9	60,5	14,5	21,5	36		
M22443-12-16	19	-12	3/4"	1.7/16" - 12	19,8	60	14,8	21	41		
M22441-16-12	25	-16	1"	1.3/16" - 12	13,9	66	13,5	21,5	36		
M22443-16-16	25	-16	1"	1.7/16" - 12	19,8	72	14,8	23,5	41		
M22443-16-20	25	-16	1"	1.11/16" - 12	26	74	14,8	25	50		
M22443-20-20	31	-20	1.1/4"	1.11/16" - 12	26	82	14,8	27	50		
M22443-24-24	38	-24	1.1/2"	2" - 12	32	98	14,8	31,5	60		

M22441: CRIMPED BACK-NUT / M22443: SLIP-ON NUT

SAE STANDARD CONNECTIONS



M22441KR

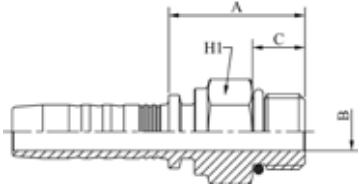
45° ORFS FEMALE SWEEP ELBOW - SAE J516 / ISO 12151-1

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M22441-04-04KR	6	- 4	1/4"	9/16" - 18		4,2	30	8	10,5	17		
M22441-06-06KR	10	- 6	3/8"	11/16" - 16		6	31,5	9,5	11	22		
M22441-08-08KR	12	- 8	1/2"	13/16" - 16		9	42,5	11	13,5	24		

SAE STANDARD CONNECTIONS

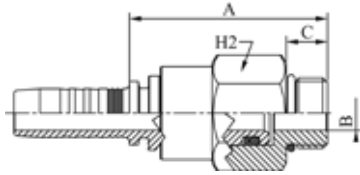
M13010

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



PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	H1		
M13010-04-04	6	-4	1/4"	7/16" - 20	4,4	24	9,1	14			
M13010-04-06	6	-4	1/4"	9/16" - 18	7,5	24,5	9,9	17			
M13010-06-06	10	-6	3/8"	9/16" - 18	7,5	25,5	9,9	17			
M13010-06-08	10	-6	3/8"	3/4" - 16	9,9	28,5	11,1	22			
M13010-06-10	10	-6	3/8"	7/8" - 14	12,3	31,5	12,7	25			
M13010-08-08	12	-8	1/2"	3/4" - 16	9,9	29	11,1	22			
M13010-08-10	12	-8	1/2"	7/8" - 14	12,3	32	12,7	25			
M13010-08-12	12	-8	1/2"	1.1/16" - 12	15,5	38,5	15,1	32			
M13010-10-10	16	-10	5/8"	7/8" - 14	12,5	32	12,7	25			
M13010-10-12	16	-10	5/8"	1.1/16" - 12	15,5	37,5	15,1	32			
M13010-12-12	19	-12	3/4"	1.1/16" - 12	15,5	39,5	15,1	32			
M13010-12-16	19	-12	3/4"	1.5/16" - 12	21,5	40	15,1	38			
M13010-16-16	25	-16	1"	1.5/16" - 12	21,5	41	15,1	38			
M13010-20-20	31	-20	1.1/4"	1.5/8" - 12	27,5	43,5	15,1	46			

SAE STANDARD CONNECTIONS

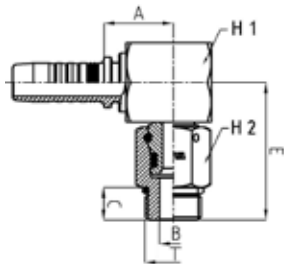


M14310

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

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	H2			
M14310-04-04	6	-4	1/4"	7/16" - 20		4	43	9,1	17			
M14310-04-06	6	-4	1/4"	9/16" - 18		7	44	9,9	22			
M14310-06-06	10	-6	3/8"	9/16" - 18		7	48	9,9	22			
M14310-06-08	10	-6	3/8"	3/4" - 16		9,3	47	11,1	22			
M14310-08-08	12	-8	1/2"	3/4" - 16		9,3	53	11,1	27			
M14310-08-10	12	-8	1/2"	7/8" - 14		9,3	41,5	13	27			
M14310-08-12	12	-8	1/2"	1.1/16" - 12		12,5	49,5	15	32			
M14310-10-10	16	-10	5/8"	7/8" - 14		9,3	41,5	13	27			
M14310-12-12	19	-12	3/4"	1.1/16" - 12		12,5	50,5	15	32			

Not to be used as a live swivel



SAE STANDARD CONNECTIONS

M14390

90° SAE SWIVEL MALE O-RING BOSS TYPE - SAE J516 / ISO 11926

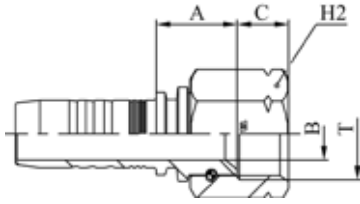
PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	E	H1	H2
M14390-06-06	10	-6	3/8"	9/16" - 18		5,7	20	9,9	40	22	17
M14390-06-08	10	-6	3/8"	3/4" - 16		9,3	20	11,1	44,5	22	22
M14390-08-08	12	-8	1/2"	3/4" - 16		9,3	23,5	11,1	47	27	22
M14390-08-10	12	-8	1/2"	7/8" - 14		9,8	23,5	13	47	27	27
M14390-10-10	16	-10	5/8"	7/8" - 14		9,8	23,5	13	47	27	27
M14390-12-12	19	-12	3/4"	1.1/16" - 12		13	28	15	58,5	34	32

Brazed solution - Not to be used as a live swivel

SAE STANDARD CONNECTIONS

M22612

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

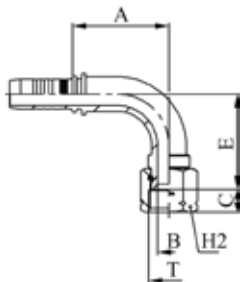


PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	H2		
M22612-04-04	6	- 4	1/4"	7/16" - 20		4	15,5	8,7	17			
M22612-05-06	8	- 5	5/16"	5/8" - 18		7	16	10,8	22			
M22612-06-06	10	- 6	3/8"	5/8" - 18		7	16,5	10,8	22			
M22612-12-12	19	- 12	3/4"	1.1/16" - 14		15	22,5	14,4	32			

SAE STANDARD CONNECTIONS

M22692

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

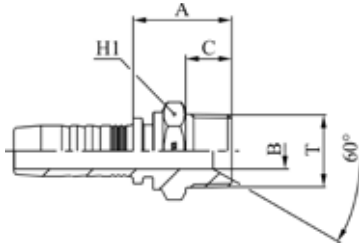


PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M22692-04-04	6	- 4	1/4"	7/16" - 20		4	28,5	8,7	27	17		
M22692-06-06	10	- 6	3/8"	5/8" - 18		7	35,5	10,8	33	22		
M22692-12-12	19	- 12	3/4"	1.1/16" - 14		15	62	14,4	58	32		

SAE STANDARD CONNECTIONS

M12810

NPTF MALE 60° CONE SEAT - SAE J516/J514

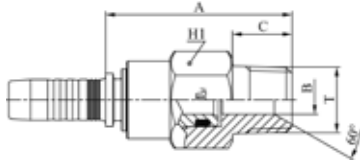


PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C			
M12810-03-02	5	-3	3/16"	1/8" - 27		3	23,5	10	12			
M12810-03-04	5	-3	3/16"	1/4" - 18		5,5	29	14,5	14			
M12810-04-02	6	-4	1/4"	1/8" - 27		4	24	10	12			
M12810-04-04	6	-4	1/4"	1/4" - 18		5,5	29	14,5	14			
M12810-04-06	6	-4	1/4"	3/8" - 18		9,3	27,5	14,5	19			
M12810-04-08	6	-4	1/4"	1/2" - 14		9,3	33,5	19,2	24			
M12810-05-04	8	-5	5/16"	1/4" - 18		5,5	29,5	14,5	14			
M12810-05-06	8	-5	5/16"	3/8" - 18		9,3	32	14,5	19			
M12810-06-04	10	-6	3/8"	1/4" - 18		5,5	30	14,5	14			
M12810-06-06	10	-6	3/8"	3/8" - 18		9,3	28,5	14,5	19			
M12810-06-08	10	-6	3/8"	1/2" - 14		12,5	34,5	19,2	24			
M12810-08-06	12	-8	1/2"	3/8" - 18		9,3	29	14,5	19			
M12810-08-08	12	-8	1/2"	1/2" - 14		12,5	35	19,2	24			
M12810-08-12	12	-8	1/2"	3/4" - 14		15,5	35,5	19,2	27			
M12810-10-08	16	-10	5/8"	1/2" - 14		12,5	38,5	19,2	24			
M12810-10-12	16	-10	5/8"	3/4" - 14		16	40	19,2	27			
M12810-12-08	19	-12	3/4"	1/2" - 14		12,5	36,5	19,2	27			
M12810-12-12	19	-12	3/4"	3/4" - 14		16	36,5	19,2	27			
M12810-12-16	19	-12	3/4"	1" - 11,5		19,8	46	24,2	36			
M12810-16-12	25	-16	1"	3/4" - 14		15,5	39	19,2	32			
M12810-16-16	25	-16	1"	1" - 11,5		19,8	44	24,2	36			
M12810-16-20	25	-16	1"	1.1/4" - 11,5		26	56,5	25	46			
M12810-20-20	31	-20	1.1/4"	1.1/4" - 11,5		26	56,5	25	46			
M12810-24-24	38	-24	1.1/2"	1.1/2" - 11,5		32	57,5	26	50			
M12810-32-32	51	-32	2"	2" - 11,5		45	64,5	26,5	65			
M12810-40-40	63	-40	2.1/2"	2.1/2" - 8		55,4	78	39,9	80			
M12810-48-48	76	-48	3"	3" - 8		68,9	86	41,5	100			

SAE STANDARD CONNECTIONS

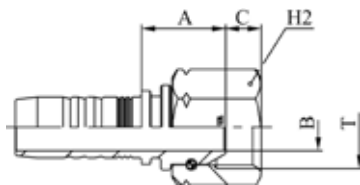
M14110R

NPTF SWIVEL MALE 60° CONE SEAT - SAE J516/J514



PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C			
M14110-04-02R	6	-4	1/4"	1/8" - 27		3	42	10	17			
M14110-04-04R	6	-4	1/4"	1/4" - 18		4	46,5	14,5	17			
M14110-04-06R	6	-4	1/4"	3/8" - 18		7	46,5	14,5	19			
M14110-06-04R	10	-6	3/8"	1/4" - 18		4	50,5	14,5	22			
M14110-06-06R	10	-6	3/8"	3/8" - 18		7	50,5	14,5	22			
M14110-06-08R	10	-6	3/8"	1/2" - 14		9,3	55	19,2	24			
M14110-08-06R	12	-8	1/2"	3/8" - 18		7	54,5	14,5	27			
M14110-08-08R	12	-8	1/2"	1/2" - 14		9,3	59	19,2	27			
M14110-12-12R	19	-12	3/4"	3/4" - 14		16	58	19,2	32			
M14110-16-16R	25	-16	1"	1" - 11,5		19,8	66	24,2	38			

Not to be used as a live swivel



SAE STANDARD CONNECTIONS

M22812

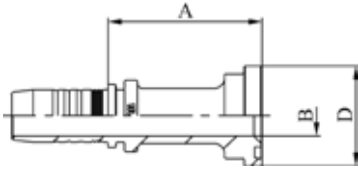
NPSM FEMALE 60° CONE - SAE J516/J514 (THRUST-WIRE NUT)

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C			
M22812-04-04	6	-4	1/4"	1/4" - 18		4	17,5	4,2	19			
M22812-06-04	10	-6	3/8"	1/4" - 18		4,1	18	4,2	19			
M22812-06-06	10	-6	3/8"	3/8" - 18		7	21	6	22			
M22812-08-08	12	-8	1/2"	1/2" - 14		9,3	23	6,5	27			
M22812-12-12	19	-12	3/4"	3/4" - 14		15	24,5	9	32			
M22812-16-16	25	-16	1"	1" - 11,5		19,8	27,5	10,5	38			

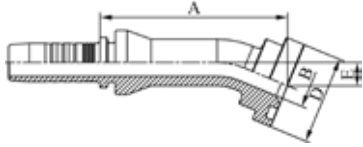
SAE STANDARD CONNECTIONS

M23311

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



PART. REF.	HOSE BORE			Flange		DIMENSIONS mm						
	DN	Dash	inch	Inch		B	A	D				
M23311-08-08	12	- 8	1/2"	1/2"		9,3	51	30,3				
M23311-08-12	12	- 8	1/2"	3/4"		15,1	58	38				
M23311-10-08	16	- 10	5/8"	1/2"		9,3	51	30,3				
M23311-10-12	16	- 10	5/8"	3/4"		15	65,5	38				
M23311-10-24	16	- 10	5/8"	1.1/2"		32	69,5	60,5				
M23311-12-12	19	- 12	3/4"	3/4"		15	58	38				
M23311-12-16	19	- 12	3/4"	1"		20	58	44,6				
M23311-12-20	19	- 12	3/4"	1.1/4"		26	69,5	51				
M23311-16-12	25	- 16	1"	3/4"		15	60,5	38				
M23311-16-16	25	- 16	1"	1"		19,8	64,5	44,6				
M23311-16-20	25	- 16	1"	1.1/4"		26	70,5	51				
M23311-20-12	31	- 20	1.1/4"	3/4"		15	61	38				
M23311-20-16	31	- 20	1.1/4"	1"		19,8	64,5	44,6				
M23311-20-20	31	- 20	1.1/4"	1.1/4"		26	70,5	51				
M23311-20-24	31	- 20	1.1/4"	1.1/2"		32	72,5	60,5				
M23311-20-32	31	- 20	1.1/4"	2"		42	75,5	71,6				
M23311-24-24	38	- 24	1.1/2"	1.1/2"		32	75,5	60,5				
M23311-24-32	38	- 24	1.1/2"	2"		42	75,5	71,6				
M23311-32-32	51	- 32	2"	2"		42	79	71,6				
M23311-32-40	51	- 32	2"	2.1/2"		56	81	84,3				
M23311-38-40	60	- 38	2.3/8"	2.1/2"		50,5	84	84,3				
M23311-40-32	63	- 40	2.1/2"	2"		42	78,5	71,6				
M23311-40-40	63	- 40	2.1/2"	2.1/2"		55,4	84	84,3				
M23311-40-48	63	- 40	2.1/2"	3"		68,9	79	101,6				
M23311-40-56	63	- 40	2.1/2"	3.1/2"		79	90,5	114,3				
M23311-40-64	63	- 40	2.1/2"	4"		90	96,5	127				
M23311-48-48	76	- 48	3"	3"		68,9	85,5	101,6				
M23311-56-56	89	- 56	3.1/2"	3.1/2"		79	94,5	114,3				
M23311-64-64	102	- 64	4"	4"		90	100,5	127				



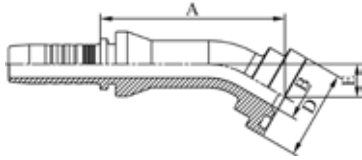
SAE STANDARD CONNECTIONS

M23321

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

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm					
	DN	Dash	inch		B	A	D	E		
M23321-08-08	12	- 8	1/2"	1/2"	9,3	64	30,3	8		
M23321-12-12	19	- 12	3/4"	3/4"	15	74,5	38	10		
M23321-12-16	19	- 12	3/4"	1"	20	74,5	44,6	10		
M23321-16-16	25	- 16	1"	1"	19,8	89	44,6	11,5		
M23321-16-20	25	- 16	1"	1.1/4"	26	88,5	51	11,5		
M23321-16-24	25	- 16	1"	1.1/2"	32	88,5	60,5	12		
M23321-20-20	31	- 20	1.1/4"	1.1/4"	26	100	51	12		
M23321-20-20018	31	- 20	1.1/4"	1.1/4"	26	99	51	18		
M23321-20-24	31	- 20	1.1/4"	1.1/2"	32	102	60,5	13		
M23321-24-24	38	- 24	1.1/2"	1.1/2"	32	116,5	60,5	14		
M23321-24-24023	38	- 24	1.1/2"	1.1/2"	32	115	60,5	23		
M23321-24-32	38	- 24	1.1/2"	2"	42	116,5	71,6	14		
M23321-32-32	51	- 32	2"	2"	42	134,5	71,6	15		
M23321-40-40	63	- 40	2.1/2"	2.1/2"	52	80	84,3	16,5		
M23321-40-48	63	- 40	2.1/2"	3"	61	107,5	101,6	20,5		
M23321-48-48	76	- 48	3"	3"	61	111	101,6	20,5		

All items are made from solid with the exception of M23321-40-40, M23321-40-48, M23321-48-48



SAE STANDARD CONNECTIONS

M23331

30° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3

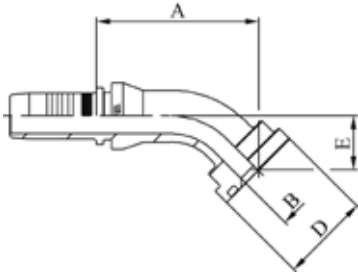
PART. REF.	HOSE BORE			Flange		DIMENSIONS mm						
	DN	Dash	inch			Inch	B	A	D			
M23331-08-08	12	- 8	1/2"	1/2"		9,3	62,5	30,3	11			
M23331-08-12	12	- 8	1/2"	3/4"		15	63,5	38	11,5			
M23331-12-12	19	- 12	3/4"	3/4"		15	73	38	14			
M23331-12-16	19	- 12	3/4"	1"		20	73	44,6	14			
M23331-16-16	25	- 16	1"	1"		19,8	87	44,6	16,5			
M23331-16-20	25	- 16	1"	1.1/4"		26	87	51	16,5			
M23331-20-20	31	- 20	1.1/4"	1.1/4"		26	98	51	17,5			
M23331-20-24	31	- 20	1.1/4"	1.1/2"		32	100	60,5	18,5			
M23331-20-24044	31	- 20	1.1/4"	1.1/2"		32	131,5	60,5	44			
M23331-24-24	38	- 24	1.1/2"	1.1/2"		32	114,5	60,5	20			
M23331-24-32	38	- 24	1.1/2"	2"		42	114,5	71,6	20			
M23331-32-32	51	- 32	2"	2"		42	132	71,6	22			
M23331-40-40	63	- 40	2.1/2"	2.1/2"		52	87,5	84,3	24			
M23331-40-48	63	- 40	2.1/2"	3"		52	85	101,6	24,5			
M23331-48-48	76	- 48	3"	3"		61	117,5	101,6	31,5			

All items are made from solid with the exception of M23331-40-40, M23331-40-48, M23331-48-48

SAE STANDARD CONNECTIONS

M23341

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



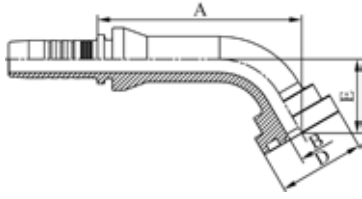
PART. REF.	HOSE BORE			Flange		DIMENSIONS mm						
	DN	Dash	inch	Inch		B	A	D	E			
M23341-06-08	10	- 6	3/8"	1/2"		9,3	52,5	30	17,5			
M23341-08-08	12	- 8	1/2"	1/2"		9,3	58,5	30,3	18,5			
M23341-08-12	12	- 8	1/2"	3/4"		15	59,5	38	19			
M23341-08-16	12	- 8	1/2"	1"		19,8	59,5	44,6	19			
M23341-10-12	16	- 10	5/8"	3/4"		15	61	38	22			
M23341-12-12	19	- 12	3/4"	3/4"		15	71	38	26			
M23341-12-16	19	- 12	3/4"	1"		20	68,5	44,6	23			
M23341-16-12	25	- 16	1"	3/4"		15	74,5	38	23			
M23341-16-16	25	- 16	1"	1"		19,8	81,5	44,6	27,5			
M23341-16-16032	25	- 16	1"	1"		19,8	86	44,5	32			
M23341-16-20	25	- 16	1"	1.1/4"		26	81,5	51	27,5			
M23341-20-16	31	- 20	1.1/4"	1"		19,8	84,5	44,6	29,5			
M23341-20-20	31	- 20	1.1/4"	1.1/4"		26	92	51	29,5			
M23341-20-20038	31	- 20	1.1/4"	1.1/4"		26	100,5	50,9	38			
M23341-20-24	31	- 20	1.1/4"	1.1/2"		32	93,5	60,5	31			
M23341-24-24	38	- 24	1.1/2"	1.1/2"		32	107,5	60,5	34,5			
M23341-24-24044	38	- 24	1.1/2"	1.1/2"		32	117	60,5	44			
M23341-24-32	38	- 24	1.1/2"	2"		42	107,5	71,6	34,5			
M23341-32-20	51	- 32	2"	1.1/4"		26	128,5	51	32			
M23341-32-32	51	- 32	2"	2"		42	124	71,6	39			
M23341-32-32056	51	- 32	2"	2"		42	141	71,5	56			
M23341-32-40	51	- 32	2"	2.1/2"		56	136,5	84,3	49,5			
M23341-40-32	63	- 40	2.1/2"	2"		42	152	71,6	48,5			
M23341-40-40	63	- 40	2.1/2"	2.1/2"		52	95	84,3	48,5			
M23341-40-48	63	- 40	2.1/2"	3"		61	117,5	101,6	53,5			
M23341-48-48	76	- 48	3"	3"		58	125,5	101,6	53,5			
M23341-56-56	89	- 56	3.1/2"	3.1/2"		79	139	114,3	68			
M23341-56-64	89	- 56	3.1/2"	4"		79	124,5	127	53,5			
M23341-64-64	102	- 64	4"	4"		90	132	127	56,5			

All items are made from solid with the exception of M23341-40-40, M23341-40-48, M23341-48-48, M23341-56-56, M23341-56-64, M23341-64-64.

SAE STANDARD CONNECTIONS

M23361

60° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3



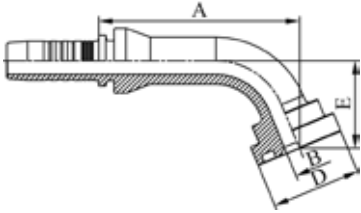
PART. REF.	HOSE BORE			Flange	DIMENSIONS mm								
	DN	Dash	inch		Inch	B	A	D	E				
M23361-08-08	12	- 8	1/2"	1/2"		9,3	71,5	30,3	26				
M23361-08-12	12	- 8	1/2"	3/4"		15	72	38	26,5				
M23361-12-12	19	- 12	3/4"	3/4"		15	87	38	33				
M23361-12-16	19	- 12	3/4"	1"		20	87	44,6	33				
M23361-16-16	25	- 16	1"	1"		19,8	104	44,6	39				
M23361-16-20	25	- 16	1"	1.1/4"		26	104	51	39				
M23361-20-20	31	- 20	1.1/4"	1.1/4"		26	120	51	43				
M23361-20-20065	31	- 20	1.1/4"	1.1/4"		26	107,5	51	65				
M23361-20-24	31	- 20	1.1/4"	1.1/2"		32	121	60,5	44,5				
M23361-24-20	38	- 24	1.1/2"	1.1/4"		26	136,5	51	46,5				
M23361-24-24	38	- 24	1.1/2"	1.1/2"		32	143,5	60,5	50,5				
M23361-24-32	38	- 24	1.1/2"	2"		42	143,5	71,6	51				
M23361-32-32	51	- 32	2"	2"		42	129	71,6	58				
M23361-40-40	63	- 40	2.1/2"	2.1/2"		52	94,5	84,3	67				
M23361-40-48	63	- 40	2.1/2"	3"		52	87,5	101,6	54,5				
M23361-48-48	76	- 48	3"	3"		61	128,5	101,6	79				

All items are made from solid with the exception of M23361-40-40, M23361-40-48, M23361-48-48.

SAE STANDARD CONNECTIONS

M23371

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

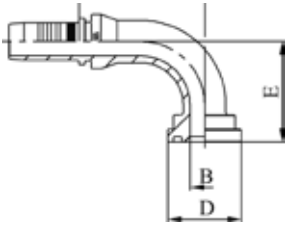


PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E		
M23371-08-08	12	- 8	1/2"	1/2"	9,3	68	30,3	29,5			
M23371-08-12	12	- 8	1/2"	3/4"	15	68,5	38	30,5			
M23371-08-16	12	- 8	1/2"	1"	19,8	68,5	44,6	30,5			
M23371-12-12	19	- 12	3/4"	3/4"	15	82	38	38			
M23371-12-16	19	- 12	3/4"	1"	20	82	44,6	38			
M23371-12-20	19	- 12	3/4"	1.1/4"	26	82	51	38			
M23371-16-16	25	- 16	1"	1"	19,8	98,5	44,6	45			
M23371-16-20	25	- 16	1"	1.1/4"	26	98,5	51	45			
M23371-20-20	31	- 20	1.1/4"	1.1/4"	26	114	51	50			
M23371-20-24	31	- 20	1.1/4"	1.1/2"	32	115	60,5	52			
M23371-24-24	38	- 24	1.1/2"	1.1/2"	32	136,5	60,5	59			
M23371-24-32	38	- 24	1.1/2"	2"	42	136,5	71,6	59			
M23371-32-32	51	- 32	2"	2"	42	162	71,6	68,5			
M23371-32-32085	51	- 32	2"	2"	42	150,5	71,6	85			
M23371-32-40	51	- 32	2"	2.1/2"	56	171,5	84,3	83,5			
M23371-40-40	63	- 40	2.1/2"	2.1/2"	52	95	84,3	78			
M23371-40-48	63	- 40	2.1/2"	3"	52	90,5	101,6	64,5			

All items are made from solid with the exception of M23371-40-40, M23371-40-48.

M23391

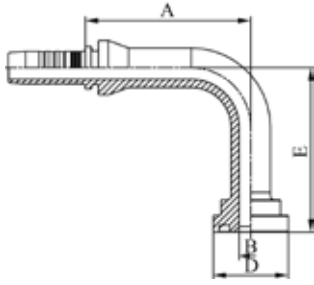
90° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3



PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	E			
M23391-06-08	10	- 6	3/8"	1/2"		9,3	44,5	30	34,5			
M23391-08-08	12	- 8	1/2"	1/2"		9,3	54,5	30,3	40			
M23391-08-12	12	- 8	1/2"	3/4"		15	54,5	38	41			
M23391-08-16	12	- 8	1/2"	1"		19,8	54,5	44,6	66			
M23391-10-08	16	- 10	5/8"	1/2"		9,3	56	30,3	46,5			
M23391-10-12	16	- 10	5/8"	3/4"		15	56	38	47,5			
M23391-12-12	19	- 12	3/4"	3/4"		15	64,5	38	52			
M23391-12-16	19	- 12	3/4"	1"		20	64,5	44,6	52			
M23391-12-20	19	- 12	3/4"	1.1/4"		26	64,5	51	52			
M23391-16-12	25	- 16	1"	3/4"		15	71	38	52			
M23391-16-16	25	- 16	1"	1"		19,8	77,5	44,6	62			
M23391-16-20	25	- 16	1"	1.1/4"		26	77,5	51	62			
M23391-16-24	25	- 16	1"	1.1/2"		32	77	60,5	64			
M23391-20-16	31	- 20	1.1/4"	1"		19,8	80	44,6	66			
M23391-20-20	31	- 20	1.1/4"	1.1/4"		26	90,5	51	70			
M23391-20-24	31	- 20	1.1/4"	1.1/2"		32	90,5	60,5	72			
M23391-20-32	31	- 20	1.1/4"	2"		42	93,5	71,6	76			
M23391-24-20	38	- 24	1.1/2"	1.1/4"		26	104,5	51	75			
M23391-24-24	38	- 24	1.1/2"	1.1/2"		32	108	60,5	84			
M23391-24-32	38	- 24	1.1/2"	2"		42	108	71,6	84			
M23391-32-24	51	- 32	2"	1.1/2"		32	133	60,5	84			
M23391-32-32	51	- 32	2"	2"		42	129	71,6	99			
M23391-32-40	51	- 32	2"	2.1/2"		56	132,5	84,3	116			
M23391-40-32	63	- 40	2.1/2"	2"		42	149,5	71,6	114			
M23391-40-40	63	- 40	2.1/2"	2.1/2"		52	88	84,3	119			
M23391-40-48	63	- 40	2.1/2"	3"		61	120	101,6	140			
M23391-48-48	76	- 48	3"	3"		58	123	101,6	140			
M23391-48-56	76	- 48	3"	3.1/2"		61	123	114,3	115			
M23391-56-56	89	- 56	3.1/2"	3.1/2"		79	134,5	114,3	160			
M23391-64-64	102	- 64	4"	4"		90	153,5	127	158,5			

All items are made from solid with the exception of M23391-40-40, M23391-40-48, M23391-48-48, M23391-48-56, M23391-56-56, M23391-64-64.

SAE STANDARD CONNECTIONS



M23391 LONG DROP

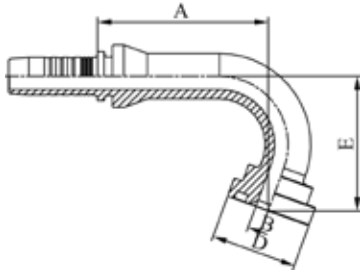
90° LONG DROP ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm				
	DN	Dash	inch	Inch	B	A	D	E	
M23391-06-08041	10	- 6	3/8"	1/2"	9,3	44,5	30	41	
M23391-12-12058	19	- 12	3/4"	3/4"	15	64,5	38	58	
M23391-16-16070	25	- 16	1"	1"	19,8	77,5	44,5	70	
M23391-16-20117	25	- 16	1"	1.1/4"	26	77,5	51	117	
M23391-16-24107	25	- 16	1"	1.1/2"	32	77	60,5	107	
M23391-20-20091	31	- 20	1.1/4"	1.1/4"	26	90,5	51	91	
M23391-20-20100	31	- 20	1.1/4"	1.1/4"	26	90,5	51	100	
M23391-20-20112	31	- 20	1.1/4"	1.1/4"	26	90,5	51	112	
M23391-20-20130	31	- 20	1.1/4"	1.1/4"	26	90,5	51	130	
M23391-20-20168	31	- 20	1.1/4"	1.1/4"	26	90,5	51	168	
M23391-20-24118	31	- 20	1.1/4"	1.1/2"	32	90,5	60,5	118	
M23391-20-24130	31	- 20	1.1/4"	1.1/2"	32	90,5	60,5	130	
M23391-24-24104	38	- 24	1.1/2"	1.1/2"	32	108	60,5	104	
M23391-24-24148	38	- 24	1.1/2"	1.1/2"	32	108	60,5	148	
M23391-24-24172	38	- 24	1.1/2"	1.1/2"	32	108	60,5	172	
M23391-24-32115	38	- 24	1.1/2"	2"	42	108	71,6	115	
M23391-24-32172	38	- 24	1.1/2"	2"	42	108	71,6	172	
M23391-32-32138	51	- 32	2"	2"	42	129	71,5	138	
M23391-32-32203	51	- 32	2"	2"	42	129	71,6	203	

SAE STANDARD CONNECTIONS

M23301P

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

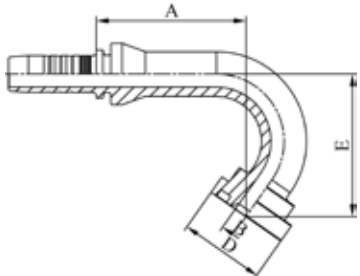


PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	E			
M23301-08-12P	12	- 8	1/2"	3/4"		15	53	38	48			
M23301-12-12P	19	- 12	3/4"	3/4"		15	89	38	62			
M23301-12-16P	19	- 12	3/4"	1"		20	89	44,6	62			
M23301-16-16P	25	- 16	1"	1"		19,8	88,5	44,6	79			
M23301-16-20133P	25	- 16	1"	1.1/4"		26	69	51	133			
M23301-20-20P	31	- 20	1.1/4"	1.1/4"		26	102	51	91			
M23301-20-24P	31	- 20	1.1/4"	1.1/2"		32	96,5	60,5	93			
M23301-24-24119P	38	- 24	1.1/2"	1.1/2"		32	105,5	60,5	119			
M23301-32-32P	51	- 32	2"	2"		42	142	71,6	123			

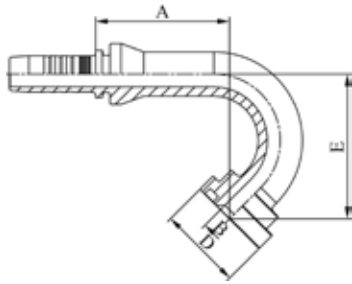
SAE STANDARD CONNECTIONS

M23301S

125° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3



PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	E			
M23301-32-32151S	51	- 32	2"	2"		42	118,5	71,6	151			



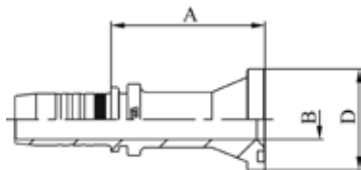
SAE STANDARD CONNECTIONS

M23301T

135° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	E			
M23301-12-12T	19	- 12	3/4"	3/4"		15	74,5	38	70			
M23301-12-16T	19	- 12	3/4"	1"		20	74,5	44,6	70			
M23301-16-16T	25	- 16	1"	1"		19,8	70	44,6	88,5			

FITTINGS
F 2-52



SAE STANDARD CONNECTIONS

M23611

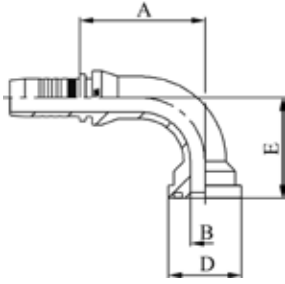
ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D			
M23611-08-08	12	- 8	1/2"	1/2"		9,3	52	31,8			
M23611-08-12	12	- 8	1/2"	3/4"		15	68,5	41,5			
M23611-10-08	16	- 10	5/8"	1/2"		9,3	52	31,8			
M23611-10-12	16	- 10	5/8"	3/4"		15	70	41,5			
M23611-10-16	16	- 10	5/8"	1"		20	80	47,7			
M23611-12-12	19	- 12	3/4"	3/4"		15	69	41,5			
M23611-12-16	19	- 12	3/4"	1"		20	81	47,7			
M23611-16-16	25	- 16	1"	1"		19,8	82,5	47,7			
M23611-16-20	25	- 16	1"	1.1/4"		26	90	54,2			
M23611-20-16	31	- 20	1.1/4"	1"		19,8	82,5	47,7			
M23611-20-20	31	- 20	1.1/4"	1.1/4"		26	84,5	54,2			
M23611-20-24	31	- 20	1.1/4"	1.1/2"		32	90,5	63,7			
M23611-24-24	38	- 24	1.1/2"	1.1/2"		32	92,5	63,6			
M23611-32-32	51	- 32	2"	2"		42	109	79,5			

SAE STANDARD CONNECTIONS

M23691

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

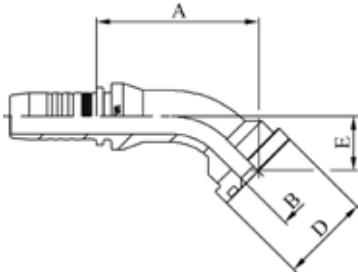


PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E		
M23691-08-08	12	- 8	1/2"	1/2"	9,3	54,5	31,8	45			
M23691-08-08040	12	- 8	1/2"	1/2"	9,3	54,5	31,7	41			
M23691-08-12	12	- 8	1/2"	3/4"	15	54,5	41,5	53			
M23691-10-08	16	- 10	5/8"	1/2"	9,3	57,5	31,8	45			
M23691-10-12	16	- 10	5/8"	3/4"	15	53,5	41,5	60,5			
M23691-10-16	16	- 10	5/8"	1"	19,8	56	47,7	64			
M23691-12-12	19	- 12	3/4"	3/4"	15	64	41,5	59			
M23691-12-16	19	- 12	3/4"	1"	20	64,5	47,7	65			
M23691-16-16	25	- 16	1"	1"	19,8	73,5	47,7	68			
M23691-16-20	25	- 16	1"	1.1/4"	26	73,5	54,2	75			
M23691-20-16	31	- 20	1.1/4"	1"	19,8	82,5	47,7	68			
M23691-20-20	31	- 20	1.1/4"	1.1/4"	26	85,5	54,2	81			
M23691-20-20090	31	- 20	1.1/4"	1.1/4"	26	85,5	54,1	90			
M23691-20-24	31	- 20	1.1/4"	1.1/2"	32	85,5	63,7	91,5			
M23691-24-24	38	- 24	1.1/2"	1.1/2"	32	106	63,7	94,5			
M23691-24-24104	38	- 24	1.1/2"	1.1/2"	32	106	63,7	104			
M23691-24-32	38	- 24	1.1/2"	2"	42	106	79,6	110,5			
M23691-32-32	51	- 32	2"	2"	42	138	79,6	132			
M23691-32-32138	51	- 32	2"	2"	42	138	79,6	138			

SAE STANDARD CONNECTIONS

M23641

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

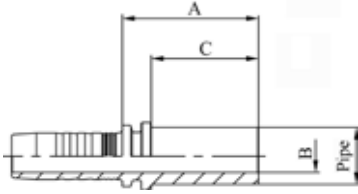


PART. REF.	HOSE BORE			Flange		DIMENSIONS mm						
	DN	Dash	inch	Inch		B	A	D	E			
M23641-08-08	12	- 8	1/2"	1/2"		9,3	59	31,7	19			
M23641-08-12	12	- 8	1/2"	3/4"		15	68	41,5	27,5			
M23641-10-08	16	- 10	5/8"	1/2"		9,3	62,5	31,8	23,5			
M23641-10-12	16	- 10	5/8"	3/4"		15	67,5	41,5	31			
M23641-12-12	19	- 12	3/4"	3/4"		15	72,5	41,5	28			
M23641-12-16	19	- 12	3/4"	1"		20	77	47,7	32,5			
M23641-16-12	25	- 16	1"	3/4"		15	80	41,5	30			
M23641-16-16	25	- 16	1"	1"		19,8	83,5	47,7	32,5			
M23641-16-20	25	- 16	1"	1.1/4"		26	88,5	54,2	37,5			
M23641-20-20	31	- 20	1.1/4"	1.1/4"		26	95	54,2	37,5			
M23641-20-24	31	- 20	1.1/4"	1.1/2"		32	102,5	63,7	45			
M23641-24-24	38	- 24	1.1/2"	1.1/2"		32	118	63,7	44			
M23641-24-32	38	- 24	1.1/2"	2"		42	129	79,6	55,5			
M23641-32-32	51	- 32	2"	2"		42	151,5	79,6	60,5			
M23641-32-32056	51	- 32	2"	2"		42	147,5	79,6	56,5			

DIN STANDARD CONNECTIONS

M22010

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

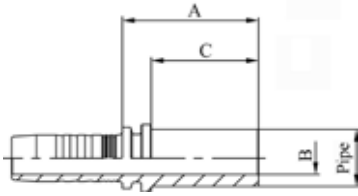


PART. REF.	HOSE BORE			Pipe	DIMENSIONS mm						
	DN	Dash	inch		mm	B	A	C			
M22010-03-04	5	-3	3/16"	4	2	29,5	22				
M22010-03-06	5	-3	3/16"	6	3	29,5	22				
M22010-04-06	6	-4	1/4"	6	3	30	22				
M22010-05-08	8	-5	5/16"	8	5,5	30	22				
M22010-05-10	8	-5	5/16"	10	7	31	23				
M22010-06-10	10	-6	3/8"	10	7	31,5	23				
M22010-06-12	10	-6	3/8"	12	8	31,5	23				
M22010-06-15	10	-6	3/8"	15	10,5	33,5	25				
M22010-08-12	12	-8	1/2"	12	8	32	23				
M22010-08-15	12	-8	1/2"	15	10,5	34	25				
M22010-08-18	12	-8	1/2"	18	12,5	35	26				
M22010-10-18	16	-10	5/8"	18	12,5	35	26				
M22010-10-22	16	-10	5/8"	22	15	37	28				
M22010-12-18	19	-12	3/4"	18	12,5	36,5	26				
M22010-12-22	19	-12	3/4"	22	15	38,5	28				
M22010-16-28	25	-16	1"	28	19,8	41,5	30				
M22010-20-35	31	-20	1.1/4"	35	26	48,5	36				
M22010-24-42	38	-24	1.1/2"	42	32	52,5	40				

DIN STANDARD CONNECTIONS

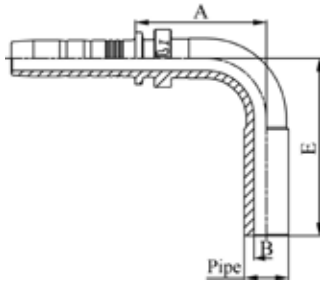
M22110

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



PART. REF.	HOSE BORE			Pipe	DIMENSIONS mm						
	DN	Dash	inch		mm	B	A	C			
M22110-03-08	5	- 3	3/16"	8	3	31	24				
M22110-03-10	5	- 3	3/16"	10	3	29,5	22				
M22110-04-08	6	- 4	1/4"	8	4	32	24				
M22110-04-10	6	- 4	1/4"	10	4	34	26				
M22110-04-12	6	- 4	1/4"	12	7	34	26				
M22110-05-12	8	- 5	5/16"	12	7	34	26				
M22110-06-14	10	- 6	3/8"	14	8	37,5	29				
M22110-08-14	12	- 8	1/2"	14	9,3	38	29				
M22110-08-16	12	- 8	1/2"	16	10,5	39	30				
M22110-10-20	16	- 10	5/8"	20	12,5	45	36				
M22110-12-20	19	- 12	3/4"	20	15	46,5	36				
M22110-12-25	19	- 12	3/4"	25	15	50,5	40				
M22110-16-25	25	- 16	1"	25	15	51,5	40				
M22110-16-30	25	- 16	1"	30	19,8	55,5	44				
M22110-16-38	25	- 16	1"	38	26	61,5	50				
M22110-20-30	31	- 20	1.1/4"	30	20,5	56,5	44				
M22110-20-38	31	- 20	1.1/4"	38	26	62,5	50				
M22110-24-38	38	- 24	1.1/2"	38	26	62,5	50				

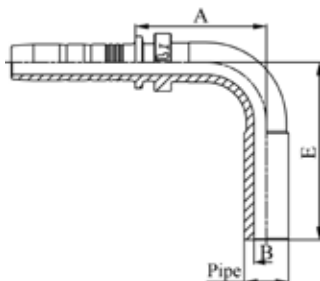
DIN STANDARD CONNECTIONS



M22090

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

PART. REF.	HOSE BORE			Pipe	DIMENSIONS mm							
	DN	Dash	inch		mm	B	A	E				
M22090-03-06	5	-3	3/16"	6		3	22,5	34				
M22090-04-06	6	-4	1/4"	6		3	23	34				
M22090-05-10	8	-5	5/16"	10		7	29,5	40				
M22090-06-10	10	-6	3/8"	10		7	33	42,5				
M22090-06-12	10	-6	3/8"	12		8	34	45				
M22090-08-12	12	-8	1/2"	12		8	34,5	45				
M22090-08-15	12	-8	1/2"	15		10,5	42	52				
M22090-08-18	12	-8	1/2"	18		12,5	42	55				
M22090-10-18	16	-10	5/8"	18		12,5	49	59				
M22090-10-22	16	-10	5/8"	22		15	53,5	63				
M22090-12-22	19	-12	3/4"	22		15	54,5	63				
M22090-16-28	25	-16	1"	28		19,8	67,5	75				
M22090-20-35	31	-20	1.1/4"	35		26	80,5	94				

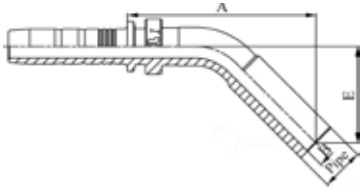


DIN STANDARD CONNECTIONS

M22190

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

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

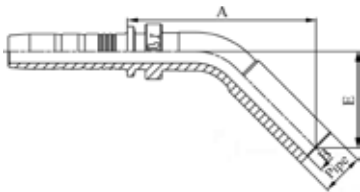


DIN STANDARD CONNECTIONS

M22040

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

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



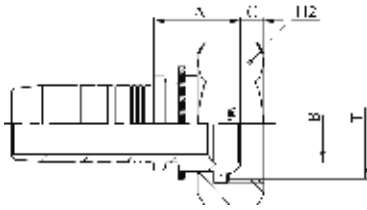
DIN STANDARD CONNECTIONS

M22140

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

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

DIN STANDARD CONNECTIONS

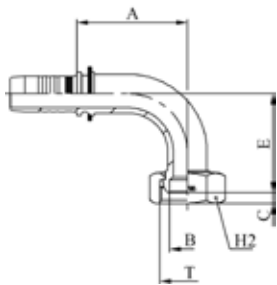


M21013

METRIC FEMALE 60° CONE - DIN 20078/3863

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	H2		
M21013-10-30	16	- 10	5/8"	M 30x1,5		20	20	6	36			
M21013-12-30	19	- 12	3/4"	M 30x1,5		20	21	6	36			
M21013-16-38	25	- 16	1"	M 38x1,5		26	23	7,5	46			
M21013-20-45	31	- 20	1.1/4"	M 45x1,5		33	23,5	8	50			
M21013-24-52	38	- 24	1.1/2"	M 52x1,5		40	25	8	60			

DIN STANDARD CONNECTIONS



M21093

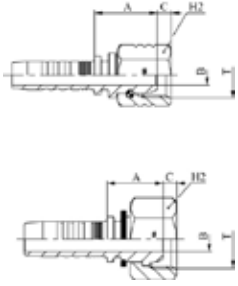
90° METRIC FEMALE SWEPT ELBOW 60° CONE - DIN 20078/3863

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M21093-12-30	19	- 12	3/4"	M 30x1,5		20	61	6	54,5	36		
M21093-16-38	25	- 16	1"	M 38x1,5		26	76,5	7,5	63	46		
M21093-20-45	31	- 20	1.1/4"	M 45x1,5		33	92	8	81	50		

DIN STANDARD CONNECTIONS

M21312/M21313

METRIC FEMALE MULTISEAL - DIN 20078/3868



FITTINGS F 2-60

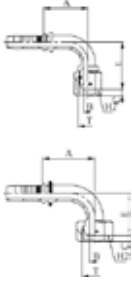
PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	H2	
M21313-03-12	5	- 3	3/16"	M 12x1,5	6	3	18,5	3,2	14			
M21312-04-12	6	- 4	1/4"	M 12x1,5	6	4	19,5	4	17			
M21313-04-14	6	- 4	1/4"	M 14x1,5	8	4	19,5	3	17			
M21313-04-16	6	- 4	1/4"	M 16x1,5	10	4	19,5	4	19			
M21313-05-16	8	- 5	5/16"	M 16x1,5	10	5,5	19,5	4	19			
M21313-05-18	8	- 5	5/16"	M 18x1,5	12	5,5	19,5	4	22			
M21312-06-14	10	- 6	3/8"	M 14x1,5	8	4	19,5	3,9	17			
M21312-06-16	10	- 6	3/8"	M 16x1,5	10	7	21,5	5	19			
M21313-06-18	10	- 6	3/8"	M 18x1,5	12	7	20	4	22			
M21313-06-22	10	- 6	3/8"	M 22x1,5	15	7	21	4,7	27			
M21312-08-18	12	- 8	1/2"	M 18x1,5	12	7	23	5,9	22			
M21313-08-22	12	- 8	1/2"	M 22x1,5	15	9,3	21,5	4,7	27			
M21312-10-22	16	- 10	5/8"	M 22x1,5	15	9,3	23,5	5,5	27			
M21313-10-26	16	- 10	5/8"	M 26x1,5	18	12,5	22	5	32			

M21312: THRUST-WIRE NUT / M21313: SLIP-ON NUT

DIN STANDARD CONNECTIONS

M21392/M21393

90° METRIC FEMALE SWEPT ELBOW MULTISEAL DIN 20078/3868



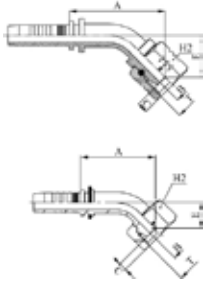
PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	E	H2
M21393-03-12	5	- 3	3/16"	M 12x1,5	6	3	26	3,2	27	14		
M21392-04-12	6	- 4	1/4"	M 12x1,5	6	4	28	4	30,5	17		
M21393-04-14	6	- 4	1/4"	M 14x1,5	8	4	29,5	3	29,5	17		
M21393-04-16	6	- 4	1/4"	M 16x1,5	10	4	29,5	4	29,5	19		
M21393-05-16	8	- 5	5/16"	M 16x1,5	10	5,5	32	4	29	19		
M21393-05-18	8	- 5	5/16"	M 18x1,5	12	7	32	4	30,5	22		
M21392-06-16	10	- 6	3/8"	M 16x1,5	10	7	35,5	5	38	19		
M21393-06-18	10	- 6	3/8"	M 18x1,5	12	7	36,5	4	31,5	22		
M21393-06-22	10	- 6	3/8"	M 22x1,5	15	7	36,5	4,7	32	27		
M21393-08-22	12	- 8	1/2"	M 22x1,5	15	9,3	45	4,7	36,5	27		
M21393-10-26	16	- 10	5/8"	M 26x1,5	18	12,5	51,5	5	50	32		
M21392-12-26	19	- 12	3/4"	M 26x1,5	18	15	61,5	2,3	63	32		

M21392: THRUST-WIRE NUT / M21393: SLIP-ON NUT

DIN STANDARD CONNECTIONS

M21342/M21343

45° METRIC FEMALE SWEPT ELBOW MULTISEAL DIN 20078/3868



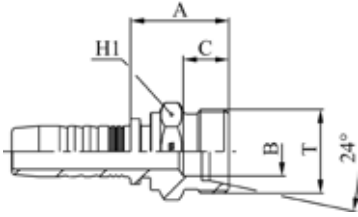
PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	E	H2
M21343-04-14	6	-4	1/4"	M 14x1,5	8	4	36,5	3	15	17		
M21343-04-16	6	-4	1/4"	M 16x1,5	10	4	36,5	4	15	19		
M21342-05-14	8	-5	5/16"	M 14x1,5	8	4	40	3,9	19,5	17		
M21343-05-16	8	-5	5/16"	M 16x1,5	10	5,5	39	4	15	19		
M21342-06-16	10	-6	3/8"	M 16x1,5	10	7	46	5	20	19		
M21343-06-18	10	-6	3/8"	M 18x1,5	12	7	42	4	15,5	22		
M21343-06-22	10	-6	3/8"	M 22x1,5	15	7	42,5	4,7	15,5	27		
M21343-08-22	12	-8	1/2"	M 22x1,5	15	9,3	49,5	4,7	17	27		
M21343-10-26	16	-10	5/8"	M 26x1,5	18	12,5	60	5	24	32		

M21342: THRUST-WIRE NUT / M21343: SLIP-ON NUT

DIN STANDARD CONNECTIONS

M11110

METRIC MALE 24° CONE SEAT LIGHT DUTY - DIN 20066 / ISO 12151-2

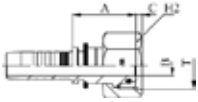
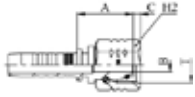


PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A			
M11110-03-12	5	-3	3/16"	M 12x1,5	6	3	21	10	14			
M11110-04-12	6	-4	1/4"	M 12x1,5	6	4	21,5	10	14			
M11110-04-14	6	-4	1/4"	M 14x1,5	8	4	21,5	10	14			
M11110-04-16	6	-4	1/4"	M 16x1,5	10	7	23,5	11	17			
M11110-04-18	6	-4	1/4"	M 18x1,5	12	9	23,5	11	19			
M11110-05-16	8	-5	5/16"	M 16x1,5	10	7	24	11	17			
M11110-05-18	8	-5	5/16"	M 18x1,5	12	9	24	11	19			
M11110-06-16	10	-6	3/8"	M 16x1,5	10	7	24	11	17			
M11110-06-18	10	-6	3/8"	M 18x1,5	12	9	24,5	11	19			
M11110-06-22	10	-6	3/8"	M 22x1,5	15	10	25,5	12	22			
M11110-06-26	10	-6	3/8"	M 26x1,5	18	12,5	26,5	12	27			
M11110-08-16	12	-8	1/2"	M 16x1,5	10	7	24,5	11	22			
M11110-08-18	12	-8	1/2"	M 18x1,5	12	9,3	24,5	11	22			
M11110-08-22	12	-8	1/2"	M 22x1,5	15	10	25,5	12	22			
M11110-08-26	12	-8	1/2"	M 26x1,5	18	12,5	26,5	12	27			
M11110-10-22	16	-10	5/8"	M 22x1,5	15	10	25,5	12	22			
M11110-10-26	16	-10	5/8"	M 26x1,5	18	12,5	26,5	12	27			
M11110-10-30	16	-10	5/8"	M 30x2	22	15	28,5	14	30			
M11110-12-26	19	-12	3/4"	M 26x1,5	18	15	28	12	27			
M11110-12-30	19	-12	3/4"	M 30x2	22	15	30	14	30			
M11110-12-36	19	-12	3/4"	M 36x2	28	19,8	31	14	36			
M11110-16-36	25	-16	1"	M 36x2	28	19,8	32,5	14	36			
M11110-20-45	31	-20	1.1/4"	M 45x2	35	26	40,5	16	46			
M11110-24-52	38	-24	1.1/2"	M 52x2	42	32	43	16	55			

DIN STANDARD CONNECTIONS

M21512/M21513

METRIC O-RING FEMALE 24° CONE LIGHT DUTY - DIN 20066 / ISO 12151-2



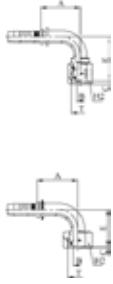
PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	H2	
M21513-03-12	5	- 3	3/16"	M 12x1,5	6	3	22	0,7	14			
M21513-03-14	5	- 3	3/16"	M 14x1,5	8	4	24,5	1,3	17			
M21512-04-12	6	- 4	1/4"	M 12x1,5	6	3	21	2,2	17			
M21513-04-14	6	- 4	1/4"	M 14x1,5	8	4	22	1,3	17			
M21513-04-16	6	- 4	1/4"	M 16x1,5	10	6	22,5	1,8	19			
M21513-04-18	6	- 4	1/4"	M 18x1,5	12	7	22	2	22			
M21512-05-14	8	- 5	5/16"	M 14x1,5	8	4	20	2,9	17			
M21513-05-16	8	- 5	5/16"	M 16x1,5	10	6	22,5	1,8	19			
M21513-05-18	8	- 5	5/16"	M 18x1,5	12	7	22	2	22			
M21512-06-16	10	- 6	3/8"	M 16x1,5	10	6	23	3	19			
M21513-06-18	10	- 6	3/8"	M 18x1,5	12	7	22,5	2	22			
M21513-06-22	10	- 6	3/8"	M 22x1,5	15	9,3	25	1,5	27			
M21512-08-18	12	- 8	1/2"	M 18x1,5	12	7	29	2,9	22			
M21513-08-22	12	- 8	1/2"	M 22x1,5	15	9,3	25,5	1,5	27			
M21513-08-26	12	- 8	1/2"	M 26x1,5	18	12,5	26	2	32			
M21512-10-18	16	- 10	5/8"	M 18x1,5	12	7	29	2,9	22			
M21512-10-22	16	- 10	5/8"	M 22x1,5	15	9,5	26,5	2,4	27			
M21513-10-26	16	- 10	5/8"	M 26x1,5	18	12,5	26	2	32			
M21513-10-30	16	- 10	5/8"	M 30x2	22	15	34	3	36			
M21513-10-36	16	- 10	5/8"	M 36x2	28	20	30,5	3,7	41			
M21512-12-22	19	- 12	3/4"	M 22x1,5		9,5	31	2,4	27			
M21512-12-26	19	- 12	3/4"	M 26x1,5	18	12,5	31	2,3	32			
M21513-12-30	19	- 12	3/4"	M 30x2	22	15	28	3	36			
M21513-12-36	19	- 12	3/4"	M 36x2	28	20	28,5	3,7	41			
M21512-16-30	25	- 16	1"	M 30x2	22	15	34	4,2	36			
M21513-16-36	25	- 16	1"	M 36x2	28	19,8	29,5	3,7	41			
M21513-16-45	25	- 16	1"	M 45x2	35	26	39	4	50			
M21512-20-36	31	- 20	1.1/4"	M 36x2	28	19,8	35,5	5	41			
M21513-20-45	31	- 20	1.1/4"	M 45x2	35	26	33	4	50			
M21513-20-52	31	- 20	1.1/4"	M 52x2	42	32	32,5	4,5	60			
M21512-24-45	38	- 24	1.1/2"	M 45x2	35	26	42,5	5,8	50			
M21513-24-52	38	- 24	1.1/2"	M 52x2	42	32	33	4,5	60			
M21512-32-52	51	- 32	2"	M 52x2	42	32	50,5	5,6	60			

M21512: THRUST-WIRE NUT / M21513: SLIP-ON NUT

DIN STANDARD CONNECTIONS

M21592/M21593

90° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE LIGHT DUTY
DIN 20066 / ISO 12151-2



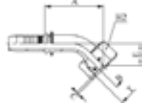
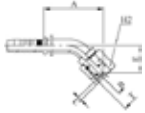
PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	E	H2
M21593-03-12	5	- 3	3/16"	M 12x1,5	6	3	26	0,7	30	14		
M21593-03-14	5	- 3	3/16"	M 14x1,5	8	4	29	1,3	31,5	17		
M21592-04-12	6	- 4	1/4"	M 12x1,5	6	3	28,5	2,2	32,5	17		
M21593-04-14	6	- 4	1/4"	M 14x1,5	8	4	29,5	1,3	31,5	17		
M21593-04-16	6	- 4	1/4"	M 16x1,5	10	6	29,5	1,8	32	19		
M21593-04-18	6	- 4	1/4"	M 18x1,5	12	7	29,5	2	33	22		
M21592-05-14	8	- 5	5/16"	M 14x1,5	8	4	31	2,9	33	17		
M21593-05-16	8	- 5	5/16"	M 16x1,5	10	6	32	1,8	32,5	19		
M21593-05-18	8	- 5	5/16"	M 18x1,5	12	7	32	2	32,5	22		
M21593-05-22	8	- 5	5/16"	M 22x1,5	15	9,3	36	1,5	35	27		
M21592-06-16	10	- 6	3/8"	M 16x1,5	10	6	35,5	3	40	19		
M21593-06-18	10	- 6	3/8"	M 18x1,5	12	7	36,5	2	33,5	22		
M21593-06-22	10	- 6	3/8"	M 22x1,5	15	9,3	36,5	1,5	35	27		
M21592-08-18	12	- 8	1/2"	M 18x1,5	12	7	44	2,9	48	22		
M21593-08-22	12	- 8	1/2"	M 22x1,5	15	9,3	45	1,5	39,5	27		
M21593-08-26	12	- 8	1/2"	M 26x1,5	18	12,5	45	2	40	32		
M21592-10-22	16	- 10	5/8"	M 22x1,5	15	9,3	53,5	3	57,5	27		
M21593-10-26	16	- 10	5/8"	M 26x1,5	18	12,5	51,5	2	53	32		
M21593-10-30	16	- 10	5/8"	M 30x2	22	15	51,5	3	54	36		
M21592-12-26	19	- 12	3/4"	M 26x1,5	18	12,5	61,5	2,3	63	32		
M21593-12-30	19	- 12	3/4"	M 30x2	22	15	61,5	3	59,5	36		
M21593-12-36	19	- 12	3/4"	M 36x2	28	19,8	61,5	3,7	61	41		
M21592-16-30	25	- 16	1"	M 30x2	22	15	79,5	4,2	80,5	36		
M21593-16-36	25	- 16	1"	M 36x2	28	19,8	76,5	3,7	69,5	41		
M21593-16-45	25	- 16	1"	M 45x2	35	26	79	4	72	50		
M21592-20-36	31	- 20	1.1/4"	M 36x2	28	19,8	93,5	5	92	41		
M21593-20-45	31	- 20	1.1/4"	M 45x2	35	26	93,5	4	81	50		
M21592-24-36	38	- 24	1.1/2"	M 36x2	28	19,8	97	5	68	41		
M21593-24-52	38	- 24	1.1/2"	M 52x2	42	32	107,5	4,5	98	60		
M21592-32-52	51	- 32	2"	M 52x2	42	32	131	5,6	119	60		

M21592: THRUST-WIRE NUT / M21593: SLIP-ON NUT

DIN STANDARD CONNECTIONS

M21542/M21543

45° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE LIGHT DUTY
DIN 20066 / ISO 12151-2



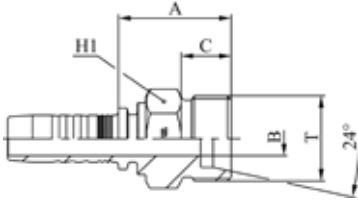
PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	E	H2
M21543-03-12	5	- 3	3/16"	M 12x1,5	6	3	35	0,7	16	14		
M21542-04-12	6	- 4	1/4"	M 12x1,5	6	3	39	2,2	18	17		
M21543-04-14	6	- 4	1/4"	M 14x1,5	8	4	38	1,3	16,5	17		
M21543-04-16	6	- 4	1/4"	M 16x1,5	10	6	38	1,8	17	19		
M21543-04-18	6	- 4	1/4"	M 18x1,5	12	7	38,5	2	17,5	22		
M21543-05-16	8	- 5	5/16"	M 16x1,5	10	6	41,5	1,8	17,5	19		
M21543-05-18	8	- 5	5/16"	M 18x1,5	12	7	41,5	2	17	22		
M21542-06-16	10	- 6	3/8"	M 16x1,5	10	6	47,5	3	21,5	19		
M21543-06-18	10	- 6	3/8"	M 18x1,5	12	7	43,5	2	16,5	22		
M21543-06-22	10	- 6	3/8"	M 22x1,5	15	9,3	45	1,5	18	27		
M21542-08-18	12	- 8	1/2"	M 18x1,5	12	7	56,5	2,9	25	22		
M21543-08-22	12	- 8	1/2"	M 22x1,5	15	9,3	52	1,5	19	27		
M21543-08-26	12	- 8	1/2"	M 26x1,5	18	12,5	52,5	2	19,5	32		
M21542-10-22	16	- 10	5/8"	M 22x1,5	15	9,3	65,5	3	29	27		
M21543-10-26	16	- 10	5/8"	M 26x1,5	18	12,5	62	2	26,5	32		
M21542-12-26	19	- 12	3/4"	M 26x1,5	18	12,5	73	2,3	31	32		
M21543-12-30	19	- 12	3/4"	M 30x2	22	15	71	3	28,5	36		
M21543-12-36	19	- 12	3/4"	M 36x2	28	19,8	72	3,7	30	41		
M21543-16-36	25	- 16	1"	M 36x2	28	19,8	85	3,7	32	41		
M21542-20-36	31	- 20	1.1/4"	M 36x2	28	19,8	107,5	5	44	41		
M21543-20-45	31	- 20	1.1/4"	M 45x2	35	26	100	4	36	50		
M21543-20-52	31	- 20	1.1/4"	M 52x2	42	32	100	4,5	42	60		
M21542-24-36	38	- 24	1.1/2"	M 36x2	28	19,8	113	5	34,5	41		
M21543-24-52	38	- 24	1.1/2"	M 52x2	42	32	117	4,5	44,5	60		

M21542: THRUST-WIRE NUT / M21543: SLIP-ON NUT

DIN STANDARD CONNECTIONS

M11210

METRIC MALE 24° CONE SEAT HEAVY DUTY - DIN 20066 / ISO 12151-2

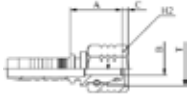


PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A			
M11210-04-16	6	- 4	1/4"	M 16x1,5	8	5,5	25,5	12	17			
M11210-04-18	6	- 4	1/4"	M 18x1,5	10	6	26,5	12	19			
M11210-04-20	6	- 4	1/4"	M 20x1,5	12	7	29	12	22			
M11210-05-16	8	- 5	5/16"	M 16x1,5	8	5,5	26	12	17			
M11210-05-18	8	- 5	5/16"	M 18x1,5	10	7	26,5	12	19			
M11210-05-20	8	- 5	5/16"	M 20x1,5	12	7	29	12	22			
M11210-06-18	10	- 6	3/8"	M 18x1,5	10	7	27	12	19			
M11210-06-20	10	- 6	3/8"	M 20x1,5	12	7	29	12	22			
M11210-06-22	10	- 6	3/8"	M 22x1,5	14	8	31	14	22			
M11210-08-20	12	- 8	1/2"	M 20x1,5	12	9,3	29,5	12	22			
M11210-08-22	12	- 8	1/2"	M 22x1,5	14	9,3	31,5	14	22			
M11210-08-24	12	- 8	1/2"	M 24x1,5	16	9,3	31,5	14	24			
M11210-10-30	16	- 10	5/8"	M 30x2	20	15	35,5	16	30			
M11210-10-36	16	- 10	5/8"	M 36x2	25	19,8	40	18	36			
M11210-12-30	19	- 12	3/4"	M 30x2	20	15	37	16	30			
M11210-12-36	19	- 12	3/4"	M 36x2	25	19,8	41	18	36			
M11210-16-36	25	- 16	1"	M 36x2	25	19,8	42,5	18	36			
M11210-16-42	25	- 16	1"	M 42x2	30	25	44,5	20	46			
M11210-20-52	31	- 20	1.1/4"	M 52x2	38	30	51	22	55			

DIN STANDARD CONNECTIONS

M21612/M21613

METRIC O-RING FEMALE 24° CONE HEAVY DUTY - DIN 20066 / ISO 12151-2



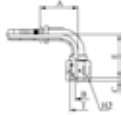
PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	H2	
M21613-03-14	5	- 3	3/16"	M 14x1,5	6	2,5	25,5	3,5	17			
M21613-03-16	5	- 3	3/16"	M 16x1,5	8	3	21,5	3,4	19			
M21613-04-14	6	- 4	1/4"	M 14x1,5	6	3	23,5	1,9	17			
M21613-04-16	6	- 4	1/4"	M 16x1,5	8	4	22	3,4	19			
M21613-04-18	6	- 4	1/4"	M 18x1,5	10	4	28	2,5	22			
M21613-04-20	6	- 4	1/4"	M 20x1,5	12	7	26	2	24			
M21613-05-18	8	- 5	5/16"	M 18x1,5	10	5,5	28	2,5	22			
M21613-05-20	8	- 5	5/16"	M 20x1,5	12	5,5	25	2	24			
M21613-06-18	10	- 6	3/8"	M 18x1,5	10	7	28,5	2,5	22			
M21613-06-20	10	- 6	3/8"	M 20x1,5	12	7	25,5	2	24			
M21613-06-22	10	- 6	3/8"	M 22x1,5	14	7	32,5	3	27			
M21613-06-24	10	- 6	3/8"	M 24x1,5	16	7	32	4	30			
M21612-08-20	12	- 8	1/2"	M 20x1,5	12	7	29	2,5	24			
M21612-08-22	12	- 8	1/2"	M 22x1,5	14	7	27	2,5	27			
M21613-08-24	12	- 8	1/2"	M 24x1,5	16	9,3	26,5	4	30			
M21613-08-30	12	- 8	1/2"	M 30x2	20	12,5	37	3,5	36			
M21612-10-24	16	- 10	5/8"	M 24x1,5	16	9,3	29,5	4	30			
M21613-10-30	16	- 10	5/8"	M 30x2	20	12,5	30,5	3,5	36			
M21613-10-36	16	- 10	5/8"	M 36x2	25	15	40	4,5	41			
M21612-12-24	19	- 12	3/4"	M 24x1,5	16	9,3	30,5	4	30			
M21612-12-30	19	- 12	3/4"	M 30x2	20	12,5	33,5	2,2	36			
M21613-12-36	19	- 12	3/4"	M 36x2	25	15	34	4,5	41			
M21612-16-30	25	- 16	1"	M 30x2	20	12,5	34,5	2,2	36			
M21612-16-36	25	- 16	1"	M 36x2	25	15	35,5	1,7	41			
M21613-16-42	25	- 16	1"	M 42x2	30	19,8	35,5	6,3	50			
M21613-20-52	31	- 20	1.1/4"	M 52x2	38	26	37,5	8	60			
M21613-24-52	38	- 24	1.1/2"	M 52x2	38	26	49,5	8	60			

M21612: THRUST-WIRE NUT / M21613: SLIP-ON NUT

DIN STANDARD CONNECTIONS

M21692/M21693

90° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY
DIN 20066 / ISO 12151-2



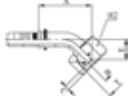
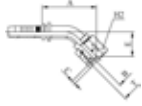
PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	E	H2
M21693-03-14	5	- 3	3/16"	M 14x1,5	6	3	26	3,5	30	17		
M21693-03-16	5	- 3	3/16"	M 16x1,5	8	3	26	3,4	29,5	19		
M21693-04-14	6	- 4	1/4"	M 14x1,5	6	3	29,5	1,9	32,5	17		
M21693-04-16	6	- 4	1/4"	M 16x1,5	8	4	29,5	3,4	29,5	19		
M21693-04-18	6	- 4	1/4"	M 18x1,5	10	4	29,5	2,5	31	22		
M21693-04-20	6	- 4	1/4"	M 20x1,5	12	5,5	29,5	2	34,5	24		
M21693-05-18	8	- 5	5/16"	M 18x1,5	10	4	32	2,5	33,5	22		
M21693-05-20	8	- 5	5/16"	M 20x1,5	12	5,5	32	2	34	24		
M21692-06-18	10	- 6	3/8"	M 18x1,5	10	4	35,5	3,9	42,5	22		
M21693-06-20	10	- 6	3/8"	M 20x1,5	12	7	36,5	2	35	24		
M21693-06-22	10	- 6	3/8"	M 22x1,5	14	7	36,5	3	37	27		
M21693-06-24	10	- 6	3/8"	M 24x1,5	16	9,3	36,5	4	36	30		
M21692-08-22	12	- 8	1/2"	M 22x1,5	14	7	44	2,5	48,5	27		
M21693-08-24	12	- 8	1/2"	M 24x1,5	16	9,3	45	4	40,5	30		
M21693-08-30	12	- 8	1/2"	M 30x2	20	12,5	45	3,5	44,5	36		
M21692-10-24	16	- 10	5/8"	M 24x1,5	16	9,3	53,5	4	58,5	30		
M21693-10-30	16	- 10	5/8"	M 30x2	20	12,5	51,5	3,5	57,5	36		
M21692-12-30	19	- 12	3/4"	M 30x2	20	12,5	61,5	2,2	67,5	36		
M21693-12-36	19	- 12	3/4"	M 36x2	25	15	61,5	4,5	64,5	41		
M21692-16-36	25	- 16	1"	M 36x2	25	15	79,5	1,7	86	41		
M21693-16-42	25	- 16	1"	M 42x2	30	19,8	79	6,3	74,5	50		
M21693-20-52	31	- 20	1.1/4"	M 52x2	38	26	93,5	8	85,5	60		
M21692-24-52	38	- 24	1.1/2"	M 52x2	38	24,7	91,5	8,8	95,5	60		

M21692: THRUST-WIRE NUT / M21693: SLIP-ON NUT

DIN STANDARD CONNECTIONS

M21642/M21643

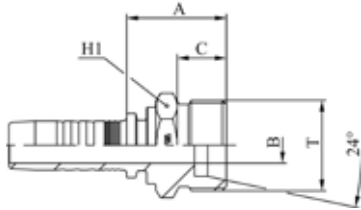
45° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY
DIN 20066 / ISO 12151-2



PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	E	H2
M21643-04-14	6	-4	1/4"	M 14x1,5	6	3	38,5	1,9	17,5	17		
M21643-04-16	6	-4	1/4"	M 16x1,5	8	4	36,5	3,4	15	19		
M21643-04-18	6	-4	1/4"	M 18x1,5	10	4	37,5	2,5	16,5	22		
M21643-05-18	8	-5	5/16"	M 18x1,5	10	4	42,5	2,5	18	22		
M21643-05-20	8	-5	5/16"	M 20x1,5	12	5,5	42	2	18,5	24		
M21642-06-18	10	-6	3/8"	M 18x1,5	10	4	49	3,9	23	22		
M21643-06-20	10	-6	3/8"	M 20x1,5	12	7	45	2,5	18	24		
M21643-06-22	10	-6	3/8"	M 22x1,5	14	7	45,5	3	18,5	27		
M21642-08-22	12	-8	1/2"	M 22x1,5	14	7	57,5	2,5	25,5	27		
M21643-08-24	12	-8	1/2"	M 24x1,5	16	9,3	52,5	4	20	30		
M21643-10-30	16	-10	5/8"	M 30x2	20	12,5	65,5	3,5	29,5	36		
M21642-12-30	19	-12	3/4"	M 30x2	20	12,5	76,5	2,2	34	36		
M21643-12-36	19	-12	3/4"	M 36x2	25	15	75	4,5	32,5	41		
M21642-16-36	25	-16	1"	M 36x2	25	15	98	1,7	43,5	41		
M21643-16-42	25	-16	1"	M 42x2	30	19,8	90	6,3	35,5	50		
M21643-20-52	31	-20	1.1/4"	M 52x2	38	26	103	8	39,5	60		
M21642-24-52	38	-24	1.1/2"	M 52x2	38	24,7	111	8,8	48	60		

M21642: THRUST-WIRE NUT / M21643: SLIP-ON NUT

NF STANDARD CONNECTIONS

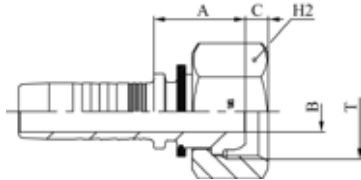


M11710

FRENCH METRIC MALE 24° CONE SEAT MILLIMETRIC TYPE

PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	H1	
M11710-10-2718	16	- 10	5/8"	M 27x1,5	18	12,5	28,5	14	28			
M11710-10-2720	16	- 10	5/8"	M 27x1,5	20	12,5	28,5	14	28			
M11710-12-30	19	- 12	3/4"	M 30x1,5	22	15	30	14	30			
M11710-12-33	19	- 12	3/4"	M 33x1,5	25	15	31	14	34			

NF STANDARD CONNECTIONS

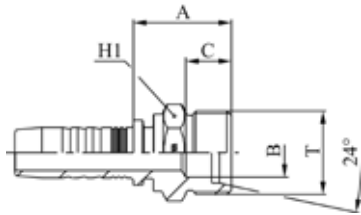


M21713

FRENCH METRIC FEMALE MILLIMETRIC TYPE (SLIP-ON NUT)

PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	H2	
M21713-10-2718	16	- 10	5/8"	M 27x1,5	18	12,5	21,5	5	32			
M21713-10-2720	16	- 10	5/8"	M 27x1,5	20	12,5	21,5	5	32			
M21713-12-30	19	- 12	3/4"	M 30x1,5	22	15	25,5	2	36			
M21713-12-33	19	- 12	3/4"	M 33x1,5	25	15	25,5	2	38			
M21713-16-36	25	- 16	1"	M 36x1,5	28	19,8	28	4,7	41			
M21713-16-39	25	- 16	1"	M 39x1,5	30	19,8	28,5	4,2	46			

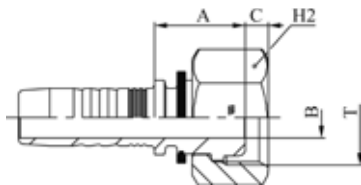
NF STANDARD CONNECTIONS



M11810

FRENCH METRIC MALE 24° CONE SEAT GAZ TYPE

PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	H1	
M11810-05-20	8	- 5	5/16"	M 20x1,5	13,25	8	27	12	22			
M11810-06-20	10	- 6	3/8"	M 20x1,5	13,25	8	27,5	12	22			
M11810-06-24	10	- 6	3/8"	M 24x1,5	16,75	12	28	12	24			
M11810-08-24	12	- 8	1/2"	M 24x1,5	16,75	12	28,5	12	24			
M11810-10-30	16	- 10	5/8"	M 30x1,5	21,25	15	31,5	14	30			
M11810-12-36	19	- 12	3/4"	M 36x1,5	26,75	21	34	14	36			
M11810-16-45	25	- 16	1"	M 45x1,5	33,5	26	39,5	16	46			



NF STANDARD CONNECTIONS

M21813

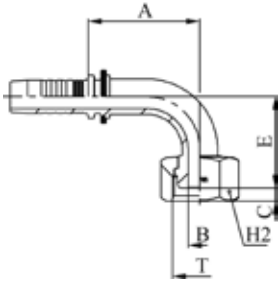
FRENCH METRIC FEMALE GAZ TYPE (SLIP-ON NUT)

PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	H2	
M21813-04-20	6	- 4	1/4"	M 20x1,5	13,25	7	22	4	24			
M21813-05-20	8	- 5	5/16"	M 20x1,5	13,25	7	22	4	24			
M21813-06-20	10	- 6	3/8"	M 20x1,5	13,25	7	22,5	4	24			
M21813-06-24	10	- 6	3/8"	M 24x1,5	16,75	9,3	25,5	3,5	30			
M21813-08-24	12	- 8	1/2"	M 24x1,5	16,75	9,3	26	3,5	30			
M21813-08-30	12	- 8	1/2"	M 30x1,5	21,25	12,5	23,5	2	36			
M21813-10-30	16	- 10	5/8"	M 30x1,5	21,25	12,5	23,5	2	36			
M21813-12-36	19	- 12	3/4"	M 36x1,5	26,75	15	27	4,7	41			
M21813-16-45	25	- 16	1"	M 45x1,5	33,5	19,8	27	4,5	50			

NF STANDARD CONNECTIONS

M21893

90° FRENCH METRIC FEMALE GAZ TYPE (SLIP-ON NUT)

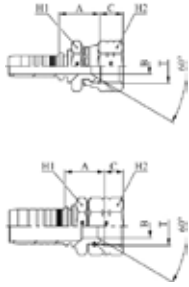


PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M21893-05-20	8	- 5	5/16"	M 20x1,5	13,25	7	32	4	29,5	24		
M21893-06-20	10	- 6	3/8"	M 20x1,5	13,25	7	36,5	4	33,5	24		
M21893-08-24	12	- 8	1/2"	M 24x1,5	16,75	12	45	3,5	41	30		
M21893-10-30	16	- 10	5/8"	M 30x1,5	21,25	12,5	51,5	2	53,5	36		
M21893-12-36	19	- 12	3/4"	M 36x1,5	26,75	15	61,5	4,7	60	41		

JIS STANDARD CONNECTIONS

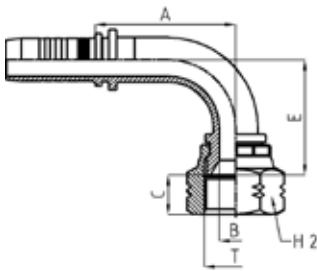
M24011/M24012

JIS METRIC FEMALE 60° CONE SEAT (KOMATSU) JIS B 8363



PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	H1	H2	
M24011-04-14	6	- 4	1/4"	M 14x1,5	4	23	10,5	19	19		
M24011-04-18	6	- 4	1/4"	M 18x1,5	7	22,5	11,5	24	24		
M24011-05-16	8	- 5	5/16"	M 16x1,5	5,5	22,5	9,3	21	21		
M24011-06-14	10	- 6	3/8"	M 14x1,5	4	23,5	10,5	19	19		
M24011-06-18	10	- 6	3/8"	M 18x1,5	7	23,5	11,5	24	24		
M24011-08-22	12	- 8	1/2"	M 22x1,5	9,3	25	13	27	27		
M24011-10-24	16	- 10	5/8"	M 24x1,5	12,5	26,5	15,1	32	32		
M24011-12-30	19	- 12	3/4"	M 30x1,5	15	31,5	18,3	36	36		
M24011-16-33	25	- 16	1"	M 33x1,5	19,8	33,5	21,3	41	41		
M24011-20-36	31	- 20	1.1/4"	M 36x1,5	19,8	41	20	46	46		
M24012-24-42	38	- 24	1.1/2"	M 42x1,5	26	44	18,8	55	55		

M24011: CRIMPED-BACK NUT / M24012: THRUST-WIRE NUT

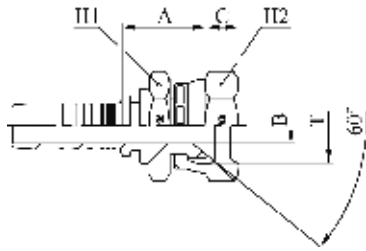


JIS STANDARD CONNECTIONS

M24091

90° JIS METRIC FEMALE 60° CONE SEAT

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm					
	DN	Dash	inch		T	B	A	C	E	H2
M24091-04-14	6	- 4	1/4"	M 14x1,5	4	29	10,5	28,5	19	
M24091-06-18	10	- 6	3/8"	M 18x1,5	7	35,5	11,5	34	24	
M24091-08-22	12	- 8	1/2"	M 22x1,5	9,3	44	13	40	27	
M24091-10-24	16	- 10	5/8"	M 24x1,5	12,5	53,5	15,2	47	32	
M24091-12-30	19	- 12	3/4"	M 30x1,5	15	61,5	18,3	56,5	36	



JIS STANDARD CONNECTIONS

M23811

JIS BSP FEMALE 60° CONE SEAT (TOYOTA) - JIS B 8363
(CRIMPED-BACK NUT)

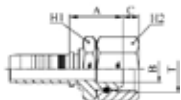
PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	H1	H2	
M23811-04-04	6	- 4	1/4"	1/4" - 19		4	18,5	8,3	19	19		
M23811-06-06	10	- 6	3/8"	3/8" - 19		7	23	10	22	22		
M23811-08-08	12	- 8	1/2"	1/2" - 14		9,3	22	11,5	27	27		
M23811-12-12	19	- 12	3/4"	3/4" - 14		15	26	13,5	32	32		
M23811-16-16	25	- 16	1"	1" - 11		19,8	30,5	14,5	38	38		



JIS STANDARD CONNECTIONS

M20711/M20712

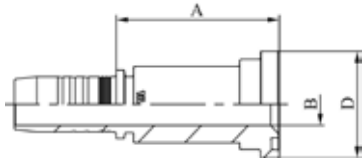
JIS BSP FEMALE 60° CONE (NISSAN) - JIS B 8363



PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	H1	H2	
M20711-04-04	6	- 4	1/4"	1/4" - 19		4	22,5	4,5	19	19		
M20711-06-06	10	- 6	3/8"	3/8" - 19		7	24,5	6,4	22	22		
M20711-08-08	12	- 8	1/2"	1/2" - 14		9,3	26,5	6,7	27	27		
M20712-10-08	16	- 10	5/8"	1/2" - 14		9,3	29	6,5	27	27		
M20712-10-12	16	- 10	5/8"	3/4" - 14		15	30,5	9	32	32		
M20711-12-12	19	- 12	3/4"	3/4" - 14		15	30	8,9	32	32		
M20712-16-16	25	- 16	1"	1" - 11		19,8	35,5	10,5	38	38		
M20712-20-20	31	- 20	1.1/4"	1.1/4" - 11		26	44,5	12,5	50	50		

M20711: CRIMPED-BACK NUT / M20712: THRUST-WIRE NUT

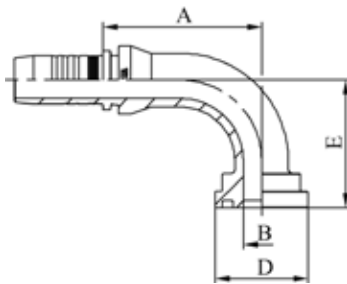
ORIGINAL EQUIPMENT CONNECTIONS



M24111

STRAIGHT KOMATSU FLANGE

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

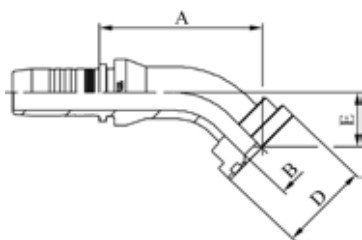


ORIGINAL EQUIPMENT CONNECTIONS

M24191

90° KOMATSU FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	E			
M24191-10-10	16	- 10	5/8"	5/8"		14	56	34	47,5			
M24191-12-10	19	- 12	3/4"	5/8"		14	56	34	47,5			



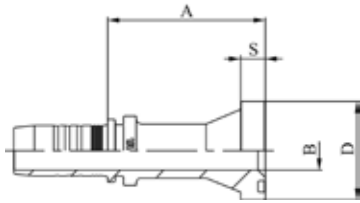
ORIGINAL EQUIPMENT CONNECTIONS

M24141

45° KOMATSU FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	E			
M24141-10-10	16	- 10	5/8"	5/8"		14	61	34	22			

ORIGINAL EQUIPMENT CONNECTIONS

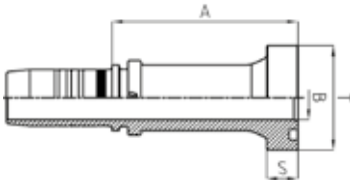


M23911

STRAIGHT SUPERCAT FLANGE

PART. REF.	HOSE BORE			Flange		DIMENSIONS mm						
	DN	Dash	inch			Inch	B	A	D			
M23911-12-12	19	- 12	3/4"	3/4"		15	74,5	41,5	14,3			
M23911-12-16	19	- 12	3/4"	1"		19,8	83,5	47,7	14,3			
M23911-16-16	25	- 16	1"	1"		19,8	87	47,7	14,3			
M23911-16-20	25	- 16	1"	1.1/4"		26	92,5	54	14,3			
M23911-20-20	31	- 20	1.1/4"	1.1/4"		26	86	54	14,3			
M23911-24-24	38	- 24	1.1/2"	1.1/2"		32	94	63,6	14,3			

ORIGINAL EQUIPMENT CONNECTIONS



M23911CT

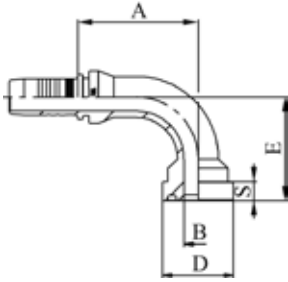
STRAIGHT REALCAT FLANGE

PART. REF.	HOSE BORE			Flange		DIMENSIONS mm						
	DN	Dash	inch			Inch	B	A	D			
M23911-16-16CT	25	- 16	1"	1"		19,8	85	47,7	14,3			
M23911-20-20CT	31	- 20	1.1/4"	1.1/4"		26	88,5	54	14,3			
M23911-24-24CT	38	- 24	1.1/2"	1.1/2"		32	93	63,6	14,3			

ORIGINAL EQUIPMENT CONNECTIONS

M23991

90° SUPERCAT FLANGE

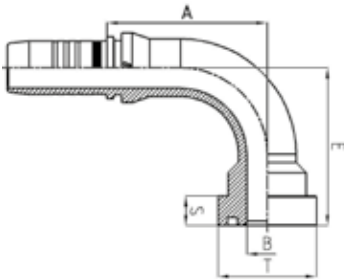


PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	S	
M23991-12-12	19	- 12	3/4"	3/4"	15	64,5	41,5	64,5	14,3		
M23991-16-16	25	- 16	1"	1"	19,8	77,5	47,7	76,5	14,3		
M23991-16-20	25	- 16	1"	1.1/4"	26	75,5	54	80,5	14,3		
M23991-20-20	31	- 20	1.1/4"	1.1/4"	26	85,5	54	87	14,3		
M23991-20-24	31	- 20	1.1/4"	1.1/2"	32	85,5	63,7	93	14,3		

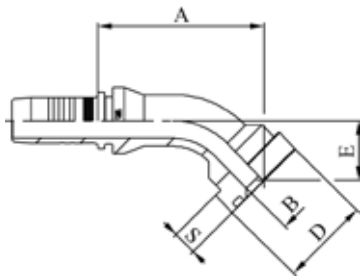
ORIGINAL EQUIPMENT CONNECTIONS

M23991CT

90° REALCAT FLANGE



PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	S	
M23991-16-16CT	25	- 16	1"	1"	19,8	77,5	47,7	76,5	14,3		
M23991-16-20CT	25	- 16	1"	1.1/4"	26	75,5	54	80,5	14,3		
M23991-20-20CT	31	- 20	1.1/4"	1.1/4"	26	85,5	54	87	14,3		
M23991-24-24CT	38	- 24	1.1/2"	1.1/2"	32	106	63,7	96	14,3		

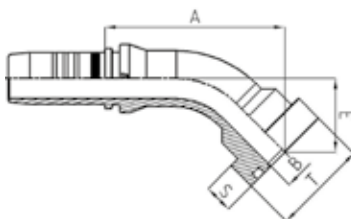


ORIGINAL EQUIPMENT CONNECTIONS

M23941

45° SUPERCAT FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	S	
M23941-12-12	19	- 12	3/4"	3/4"	15	77	41,5	32	14,3		
M23941-16-16	25	- 16	1"	1"	19,8	89,5	47,7	36,5	14,3		
M23941-16-20	25	- 16	1"	1"	26	92,5	54	40,5	14,3		
M23941-20-20	31	- 20	1.1/4"	1.1/4"	26	99	54	41,5	14,3		
M23941-24-24	38	- 24	1.1/2"	1.1/2"	32	119	63,6	45,5	14,3		

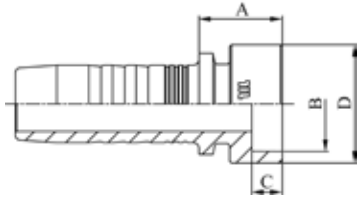


ORIGINAL EQUIPMENT CONNECTIONS

M23941CT

45° REALCAT FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	S	
M23941-16-16CT	25	- 16	1"	1"	19,8	89,5	47,7	36,5	14,3		
M23941-16-20CT	25	- 16	1"	1.1/4"	26	93	54	40,5	14,3		
M23941-20-20CT	31	- 20	1.1/4"	1.1/4"	26	99	54	41,5	14,3		
M23941-24-24CT	38	- 24	1.1/2"	1.1/2"	32	119	63,7	45	14,3		



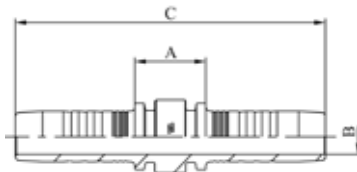
TAIL

M..IP..

BRAZING TAIL

FITTINGS
F 2-80

PART. REF.	HOSE BORE			DIMENSIONS mm							
	DN	Dash	inch	B	A	C	D				
M03IP06	5	- 3	3/16"	6	11,5	5	10				
M04IP08	6	- 4	1/4"	8	13	5	12				
M05IP10	8	- 5	5/16"	10	13,5	6	14				
M06IP14	10	- 6	3/8"	14	13,5	6	18				
M06IP12	10	- 6	3/8"	12	13,5	6	16				
M08IP15	12	- 8	1/2"	15	14	6	20				
M08IP16	12	- 8	1/2"	16	14	6	20				
M10IP18	16	- 10	5/8"	18	15	7	23				
M12IP22	19	- 12	3/4"	22	16	7	26				
M16IP28	25	- 16	1"	28	18,5	8	34				
M20IP35	31	- 20	1.1/4"	35	20,5	9	40				
M24IP40	38	- 24	1.1/2"	40	21,5	9	50				
M32IP50	51	- 32	2"	50	23	10	60				
M40IP60	63	- 40	2.1/2"	61	19	7	73				
M48IP70	76	- 48	3"	70	38	10	89				

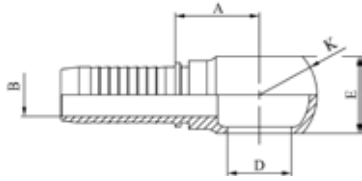


DOUBLE CONNECTOR

M10050

DOUBLE CONNECTOR

PART. REF.	HOSE BORE			DIMENSIONS mm							
	DN	Dash	inch	B	A	C					
M10050-03-03	5	- 3	3/16"	3	15,5	58,2					
M10050-04-04	6	- 4	1/4"	4	14	69					
M10050-05-05	8	- 5	5/16"	5,5	14	70					
M10050-06-06	10	- 6	3/8"	7	14,5	73,5					
M10050-08-08	12	- 8	1/2"	9,3	15,5	77,9					
M10050-10-10	16	- 10	5/8"	12,5	15,5	84					
M10050-12-12	19	- 12	3/4"	15	18,5	91,5					
M10050-16-16	25	- 16	1"	19,8	22,5	119					
M10050-20-20	31	- 20	1.1/4"	26	23	128,1					
M10050-24-24	38	- 24	1.1/2"	32	23,5	147,5					

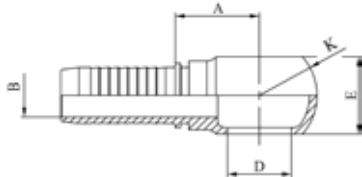


BANJO CONNECTIONS

O20910

METRIC BANJO - DIN 7642

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	D	E	K		
O20910-04-12	6	- 4	1/4"	M 12x1,5		4,4	22,5	12	12	20		
O20910-04-14	6	- 4	1/4"	M 14x1,5		4,4	23,5	14	14	24		
O20910-05-14	8	- 5	5/16"	M 14x1,5		5,6	23,5	14	14	24		
O20910-06-14	10	- 6	3/8"	M 14x1,5		7,1	25	14	14	24		
O20910-06-16	10	- 6	3/8"	M 16x1,5		7,1	25	16	16	28		
O20910-06-18	10	- 6	3/8"	M 18x1,5		7,1	27	18	20	32		
O20910-08-18	12	- 8	1/2"	M 18x1,5		9,8	28	18	20	32		
O20910-08-22	12	- 8	1/2"	M 22x1,5		9,8	31	22	25	39		
O20910-10-22	16	- 10	5/8"	M 22x1,5		12,7	31	22	25	39		
O20910-12-26	19	- 12	3/4"	M 26x1,5		15,5	34,5	26	30	46		



BANJO CONNECTIONS

O20310

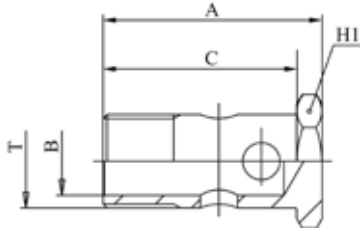
BSP BANJO

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	D	E	K		
O20310-04-04	6	- 4	1/4"	1/4" - 19		4,4	22	13,2	15	24		
O20310-04-06	6	- 4	1/4"	3/8" - 19		4,4	23,5	16,7	18	28		
O20310-05-04	8	- 5	5/16"	1/4" - 19		5	23	13,2	14	24		
O20310-05-06	8	- 5	5/16"	3/8" - 19		5,6	23	16,7	20	29		
O20310-06-06	10	- 6	3/8"	3/8" - 19		7	24,5	16,7	20	29		
O20310-06-08	10	- 6	3/8"	1/2" - 19		7,1	27	21	25	38		
O20310-08-08	12	- 8	1/2"	1/2" - 14		9,8	27,5	21	25	38		
O20310-10-10	16	- 10	5/8"	5/8" - 14		12,7	29,5	23	27	40		
O20310-12-12	19	- 12	3/4"	3/4" - 14		15,5	36,5	26,5	31	48		
O20310-16-16	25	- 16	1"	1" - 11		20,5	40,5	33,3	42	60		

BOLT

O80810

METRIC BOLT - DIN 7643

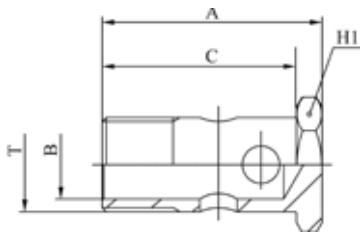


PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	H1			
O80810-12				M 12x1,5		7	29	24	17			
O80810-14				M 14x1,5		9	31	26	19			
O80810-16				M 16x1,5		11	33	28	22			
O80810-18				M 18x1,5		13	37	32	24			
O80810-22				M 22x1,5		16	45	39	27			
O80810-26				M 26x1,5		20	51	45	32			

BOLT

O80210

BSP BOLT



PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	H1			
O80210-04				1/4" - 19		6	34,5	28,5	17			
O80210-06				3/8" - 19		9	45,5	38,5	22			
O80210-08				1/2" - 14		13	52	44	27			
O80210-10				5/8" - 14		15	56,5	48,5	30			
O80210-12				3/4" - 14		18	64	54	32			
O80210-16				1" - 11		24	77,5	68,5	41			



INTERLOCK PLUS

FITTING CODE	SECTION	PAGE
JO29	3	31
M01500	3	1
M01600	3	1
M01800-M01810	3	2
M30050	3	30
M30510	3	2
M31210	3	18
M32410	3	6
M32510	3	4
M32810	3	11
M33010	3	11
M40812	3	3
M40842	3	4
M40892	3	3
M41243 LONG DROP	3	20
M41293 LONG DROP	3	20
M41612-M41613	3	18
M41642-M41643	3	19
M41692-M41693	3	19
M42411	3	7
M42412	3	7
M42441	3	9
M42442	3	10
M42443	3	10
M42491	3	8
M42492	3	8
M42493	3	9
M42512	3	5
M42542	3	6
M42592	3	5
M43310	3	12

FITTING CODE	SECTION	PAGE
M43320	3	12
M43330	3	13
M43340	3	13
M43390	3	14
M43610	3	15
M43630	3	16
M43640	3	16
M43660	3	17
M43690	3	17
M43710	3	21
M43740	3	21
M43790	3	21
M43910	3	22
M43910CT	3	22
M43920	3	23
M43930	3	23
M43940	3	24
M43940CT	3	24
M43960	3	25
M43970	3	25
M43990	3	26
M43990 LONG DROP	3	27
M43990CT	3	26
M44492 LONG DROP	3	10
M48410	3	27
M48490	3	28
M48510	3	28
M48540	3	29
M48590	3	29
M49510WL	3	30

INTERLOCK PLUS

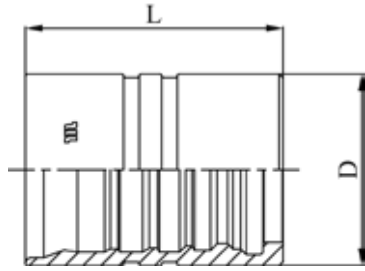
DN	5	6	8	10	12	16	19	25	31	38	51	60	63	76	89	102
Inch	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	2 3/8"	2 1/2"	3"	3 1/2"	4"
Size	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	-38	-40	-48	-56	-64

FERRULES

M01500																	
M01600																	
M01800 / M01810																	

FITTINGS

BSP																	
SAE (JIC)																	
SAE (ORFS)																	
SAE																	
SAE (NPTF-NPSM)																	
SAE FLANGE CODE 61																	
SAE FLANGE CODE 62																	
DIN METRIC 24° CONE HEAVY TYPE																	
ORIGINAL EQUIPMENT CONNECTIONS																	
XTRAFRANGE																	

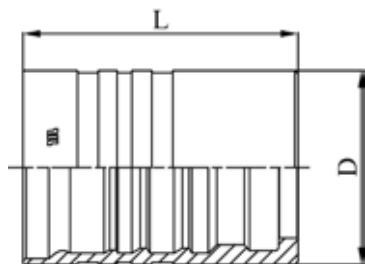


FERRULE

M01500

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

PART. REF.	HOSE BORE			DIMENSIONS mm							
	DN	Dash	inch			D	L				
M01500-10	16	- 10	5/8"			35	40,9				
M01500-12	19	- 12	3/4"			40	51,4				
M01500-16	25	- 16	1"			48	64,5				
M01500-20	31	- 20	1.1/4"			57	84				
M01500-24	38	- 24	1.1/2"			64,3	94				
M01500-32	51	- 32	2"			83,5	107				
M01500-40	63	- 40	2.1/2"			100	135				
M01500-48	76	- 48	3"			107	125				



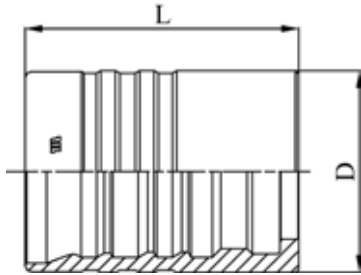
FERRULE

M01600

DOUBLE SKIVE FERRULE FOR HEAVY DUTY SPIRAL HOSES (6 PLY)

PART. REF.	HOSE BORE			DIMENSIONS mm							
	DN	Dash	inch			D	L				
M01600-20	31	- 20	1.1/4"			60	85				
M01600-24	38	- 24	1.1/2"			69	96				

FERRULE

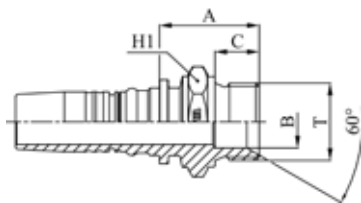


M01800/M01810

DOUBLE SKIVE FERRULE FOR EXTRA DUTY SPIRAL HOSES (6 PLY)

FITTINGS F 3-2

PART. REF.	HOSE BORE			DIMENSIONS mm							
	DN	Dash	inch			D	L				
M01800-20	31	- 20	1.1/4"			65	88,2				
M01800-32	51	- 32	2"			86,5	108				
M01810-40	63	- 40	2.1/2"			103	135				
M01810-48	76	- 48	3"			113,5	125				



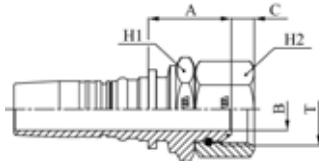
BS STANDARD CONNECTIONS

M30510

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

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	H1			
M30510-12-12	19	- 12	3/4"	3/4" - 14		17	37	16	32			
M30510-12-16	19	- 12	3/4"	1" - 11		22,5	43	19	41			
M30510-16-16	25	- 16	1"	1" - 11		22,5	43	19	41			
M30510-16-20	25	- 16	1"	1.1/4" - 11		28,5	48	20	50			
M30510-20-20	31	- 20	1.1/4"	1.1/4" - 11		28,5	50,5	20	50			
M30510-24-24	38	- 24	1.1/2"	1.1/2" - 11		33,5	54,5	22	55			
M30510-32-32	51	- 32	2"	2" - 11		42	58	25	70			

BS STANDARD CONNECTIONS

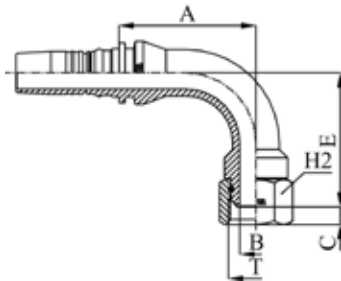


M40812

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

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	H1	H2	
M40812-12-12	19	- 12	3/4"	3/4" - 14		14,5	39	8,5	32	32		
M40812-12-16	19	- 12	3/4"	1" - 11		19	36,5	10,6	32	41		
M40812-16-12	25	- 16	1"	3/4" - 14		15	35	8,5	41	32		
M40812-16-16	25	- 16	1"	1" - 11		19,5	44,5	10,6	41	41		
M40812-16-20	25	- 16	1"	1.1/4" - 11		26,1	41	10,5	41	50		
M40812-20-16	31	- 20	1.1/4"	1" - 11		19	44,5	10,6	50	41		
M40812-20-20	31	- 20	1.1/4"	1.1/4" - 11		26,1	52,5	10,5	50	50		
M40812-20-24	31	- 20	1.1/4"	1.1/2" - 11		32,1	46	12,5	50	60		
M40812-24-20	38	- 24	1.1/2"	1.1/4" - 11		26,1	48,5	10,5	60	50		
M40812-24-24	38	- 24	1.1/2"	1.1/2" - 11		32,1	51,5	12,5	60	60		
M40812-32-32	51	- 32	2"	2" - 11		42	51,5	16,1	70	70		

BS STANDARD CONNECTIONS



M40892

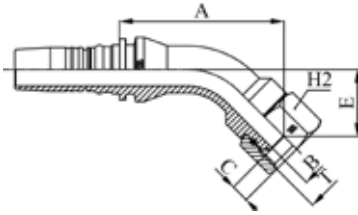
90° BSP O-RING FEMALE SWEPT ELBOW 60° CONE BS5200 / ISO 12151-6 (THRUST-WIRE NUT)

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M40892-12-12	19	- 12	3/4"	3/4" - 14		14,5	72,5	8,5	70	32		
M40892-12-16	19	- 12	3/4"	1" - 11		19	72,5	10,6	71	41		
M40892-16-16	25	- 16	1"	1" - 11		19,5	82	10,6	80,5	41		
M40892-16-20	25	- 16	1"	1.1/4" - 11		26,1	95	10,5	78,5	50		
M40892-20-20	31	- 20	1.1/4"	1.1/4" - 11		26,1	98,5	10,5	98	50		
M40892-20-24	31	- 20	1.1/4"	1.1/2" - 11		32,1	98,5	12,5	84,5	60		
M40892-24-24	38	- 24	1.1/2"	1.1/2" - 11		32,1	111,5	12,5	109	60		
M40892-32-32	51	- 32	2"	2" - 11		42	143	16,1	140,5	70		

BS STANDARD CONNECTIONS

M40842

45° BSP O-RING FEMALE SWEPT ELBOW 60° CONE BS5200 / ISO 12151-6 (THRUST-WIRE NUT)

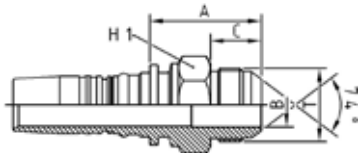


PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M40842-12-12	19	- 12	3/4"	3/4" - 14		14,5	88	8,5	35	32		
M40842-12-16	19	- 12	3/4"	1" - 11		19	89,5	10,6	36,5	41		
M40842-16-12	25	- 16	1"	3/4" - 14		15	105,5	8,5	36	32		
M40842-16-16	25	- 16	1"	1" - 11		19,5	97	10,6	40	41		
M40842-16-20	25	- 16	1"	1.1/4" - 11		26,1	108,5	10,5	38	50		
M40842-20-16	31	- 20	1.1/4"	1" - 11		19	118	10,6	47,5	41		
M40842-20-20	31	- 20	1.1/4"	1.1/4" - 11		26,1	120	10,5	49,5	50		
M40842-20-24	31	- 20	1.1/4"	1.1/2" - 11		32,1	114,5	12,5	40	60		
M40842-24-24	38	- 24	1.1/2"	1.1/2" - 11		32,1	126,5	12,5	50	60		
M40842-32-32	51	- 32	2"	2" - 11		42	162,5	16,1	66,5	70		

SAE STANDARD CONNECTIONS

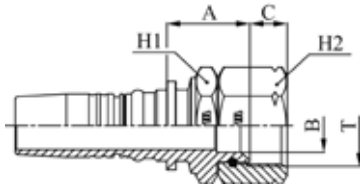
M32510

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



PART. REF.	HOSE BORE			Thread		DIMENSIONS mm					
	DN	Dash	inch			T	B	A	C	H1	
M32510-10-10	16	- 10	5/8"	7/8" - 14		12	41	19,5	27		
M32510-12-12	19	- 12	3/4"	1.1/16" - 12		15	45,5	22	32		
M32510-16-16	25	- 16	1"	1.5/16" - 12		20	50,5	23	38		
M32510-16-20	25	- 16	1"	1.5/8" - 12		26	57	24,3	42		
M32510-20-20	31	- 20	1.1/4"	1.5/8" - 12		26,1	66	24,3	46		
M32510-24-24	38	- 24	1.1/2"	1.7/8" - 12		32,1	64	27,5	50		
M32510-32-32	51	- 32	2"	2.1/2" - 12		42	81	34	70		

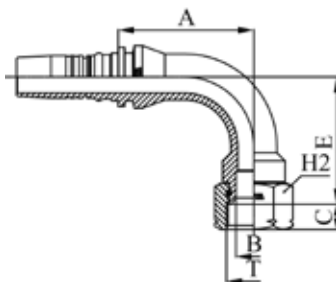
SAE STANDARD CONNECTIONS



M42512

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

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	H1	H2	
M42512-12-12	19	- 12	3/4"	1.1/16" - 12		15	36	14,2	32	32		
M42512-12-16	19	- 12	3/4"	1.5/16" - 12		21,7	32,5	15,2	41	41		
M42512-16-16	25	- 16	1"	1.5/16" - 12		21,7	40,5	15,2	41	41		
M42512-16-20	25	- 16	1"	1.5/8" - 12		26,1	44	16,2	50	50		
M42512-20-20	31	- 20	1.1/4"	1.5/8" - 12		26,1	51,5	16,2	50	50		
M42512-20-24	31	- 20	1.1/4"	1.7/8" - 12		30,5	51	18,8	55	60		
M42512-24-24	38	- 24	1.1/2"	1.7/8" - 12		31	54,5	18,8	55	60		
M42512-32-32	51	- 32	2"	2.1/2" - 12		42	54	24	70	75		

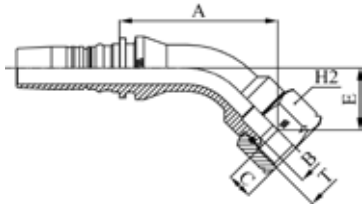


SAE STANDARD CONNECTIONS

M42592

90° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5 (THRUST-WIRE NUT)

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M42592-12-12	19	- 12	3/4"	1.1/16" - 12		15	72,5	14,2	66	32		
M42592-12-16	19	- 12	3/4"	1.5/16" - 12		21,7	72,5	15,2	71,5	41		
M42592-16-16	25	- 16	1"	1.5/16" - 12		21,7	82,5	15,2	77,5	41		
M42592-16-20	25	- 16	1"	1.5/8" - 12		26,1	90,5	16,2	76,5	50		
M42592-20-20	31	- 20	1.1/4"	1.5/8" - 12		26,1	98,5	16,2	92	50		
M42592-20-24	31	- 20	1.1/4"	1.7/8" - 12		32,1	101,5	18,8	108	60		
M42592-24-24	38	- 24	1.1/2"	1.7/8" - 12		32,1	111,5	18,8	106	60		
M42592-32-32	51	- 32	2"	2.1/2" - 12		42	144,5	24	137	75		



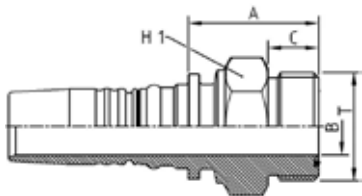
SAE STANDARD CONNECTIONS

M42542

45° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5 (THRUST-WIRE NUT)

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M42542-12-12	19	- 12	3/4"	1.1/16" - 12		15	86	14,2	33	32		
M42542-16-16	25	- 16	1"	1.5/16" - 12		21,7	95	15,2	37	41		
M42542-16-20	25	- 16	1"	1.5/8" - 12		26,1	102,5	16,2	36,5	50		
M42542-20-20	31	- 20	1.1/4"	1.5/8" - 12		26,1	115,5	16,2	45	50		
M42542-24-24	38	- 24	1.1/2"	1.7/8" - 12		32,1	126,5	18,8	50	60		
M42542-32-32	51	- 32	2"	2.1/2" - 12		42	161,5	24	63,5	75		

FITTINGS F 3-6



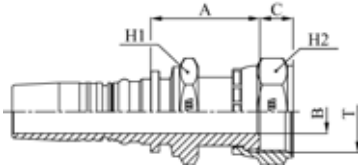
SAE STANDARD CONNECTIONS

M32410

ORFS MALE - SAE J516 / ISO 12151-1

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm					
	DN	Dash	inch			T	B	A	C	H1	
M32410-10-08	16	- 10	5/8"	13/16" - 16		9,3	33	12,8	27		
M32410-10-10	16	- 10	5/8"	1" - 14		12	36	15,5	27		
M32410-10-12	16	- 10	5/8"	1.3/16" - 12		15	39	17	32		
M32410-12-12	19	- 12	3/4"	1.3/16" - 12		14,5	40,5	17	32		
M32410-12-16	19	- 12	3/4"	1.7/16" - 12		19,8	42,5	17,5	38		
M32410-16-16	25	- 16	1"	1.7/16" - 12		19,5	45	17,5	41		
M32410-16-20	25	- 16	1"	1.11/16" - 12		25	48	17,5	46		
M32410-20-16	31	- 20	1.1/4"	1.7/16" - 12		19,5	47	17,5	50		
M32410-20-20	31	- 20	1.1/4"	1.11/16" - 12		25	50,5	17,5	46		
M32410-24-24	38	- 24	1.1/2"	2" - 12		31	53	17,5	55		
M32410-32-24	51	- 32	2"	2" - 12		31	53	17,5	70		

SAE STANDARD CONNECTIONS

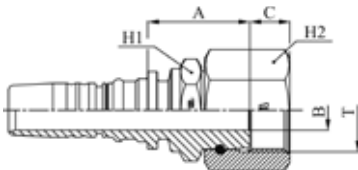


M42411

ORFS FEMALE - SAE J516 / ISO 12151-1 PULLBACK TYPE (CRIMPED BACK-NUT)

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	H1	H2	
M42411-10-10	16	- 10	5/8"	1" - 14		11,5	40,5	12,5	24	30		
M42411-12-12	19	- 12	3/4"	1.3/16" - 12		14,5	48	13,5	32	36		
M42411-12-16	19	- 12	3/4"	1.7/16" - 12		19	50	13,5	36	41		
M42411-16-12	25	- 16	1"	1.3/16" - 12		14,3	50	13,5	41	36		
M42411-16-16	25	- 16	1"	1.7/16" - 12		19,5	51,5	13,5	41	41		
M42411-16-20	25	- 16	1"	1.11/16" - 12		26	48,5	14,8	41	50		
M42411-20-20	31	- 20	1.1/4"	1.11/16" - 12		25	55	14,8	50	50		
M42411-24-24	38	- 24	1.1/2"	2" - 12		31	58	15,8	60	60		

SAE STANDARD CONNECTIONS



M42412

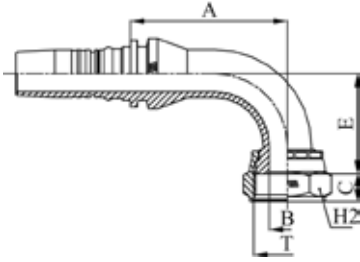
ORFS FEMALE - SAE J516 / ISO 12151-1 HEAVY TYPE (THRUST-WIRE NUT)

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	H1	H2	
M42412-12-12	19	- 12	3/4"	1.3/16" - 12		14,5	37	14,1	32	36		
M42412-12-16	19	- 12	3/4"	1.7/16" - 12		19,8	41	15	41	46		
M42412-16-16	25	- 16	1"	1.7/16" - 12		19,5	42	15	41	46		
M42412-16-20	25	- 16	1"	1.11/16" - 12		26	50	15,1	46	55		
M42412-20-20	31	- 20	1.1/4"	1.11/16" - 12		25	52	15,1	50	55		
M42412-20-24	31	- 20	1.1/4"	2" - 12		31	53	15	55	60		
M42412-24-24	38	- 24	1.1/2"	2" - 12		31	55	15	60	60		

SAE STANDARD CONNECTIONS

M42491

90° ORFS FEMALE SWEPT ELBOW - SAE J516 / ISO 12151-1
(CRIMPED BACK-NUT)

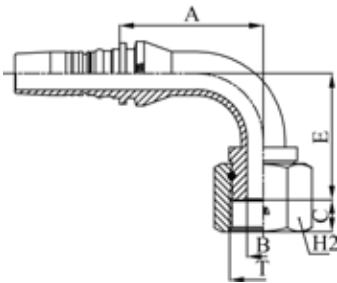


PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M42491-10-12	16	- 10	5/8"	1.3/16" - 12		14,3	51	13,5	47	36		
M42491-12-12	19	- 12	3/4"	1.3/16" - 12		14,5	65	13,5	48	36		
M42491-12-12109	19	- 12	3/4"	1.3/16" - 12		14,5	65	13,5	109	36		
M42491-12-16	19	- 12	3/4"	1.7/16" - 12		19	70	13,5	53	41		
M42491-16-16	25	- 16	1"	1.7/16" - 12		19,5	85	13,5	57	41		
M42491-16-16128	25	- 16	1"	1.7/16" - 12		19,5	85	13,5	128	41		
M42491-16-20	25	- 16	1"	1.11/16" - 12		24	85	14,8	58	50		
M42491-20-20	31	- 20	1.1/4"	1.11/16" - 12		25	98,5	14,8	65	50		
M42491-24-24	38	- 24	1.1/2"	2" - 12		31	115,5	15,8	79,5	60		

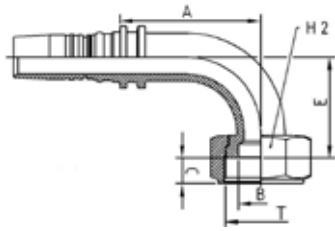
SAE STANDARD CONNECTIONS

M42492

90° ORFS FEMALE SWEPT ELBOW - SAE J516 / ISO 12151-1 HEAVY
TYPE (THRUST-WIRE-NUT)



PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M42492-12-12	19	- 12	3/4"	1.3/16" - 12		14,5	72,5	14,1	70,5	36		
M42492-16-16	25	- 16	1"	1.7/16" - 12		19,5	82,5	15	84,5	46		
M42492-20-20	31	- 20	1.1/4"	1.11/16" - 12		25	98,5	15,1	98	55		
M42492-24-24	38	- 24	1.1/2"	2" - 12		31	111,5	15	109	60		

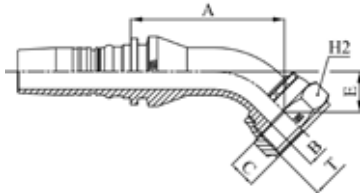


SAE STANDARD CONNECTIONS

M42493

90° ORFS FEMALE SWEPT ELBOW - SAE J516 / ISO 12151-1 (SLIP-ON NUT)

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M42493-12-16	19	- 12	3/4"	1.7/16" - 12		19,8	67	14,8	53	41		
M42493-16-20	25	- 16	1"	1.11/16" - 12		26	81,5	14,8	58,5	50		
M42493-20-24	31	- 20	1.1/4"	2" - 12		32	100	14,8	70,5	60		

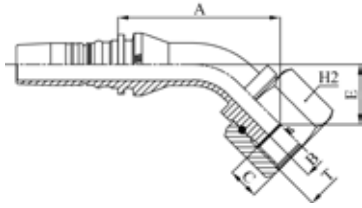


SAE STANDARD CONNECTIONS

M42441

45° ORFS FEMALE SWEPT ELBOW - SAE J516 / ISO 12151-1 (CRIMPED BACK-NUT)

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M42441-10-12	16	- 10	5/8"	1.3/16" - 12		14,3	56	13,5	21,5	36		
M42441-12-12	19	- 12	3/4"	1.3/16" - 12		14,5	69	13,5	21,5	36		
M42441-12-16	19	- 12	3/4"	1.7/16" - 12		19	77,5	13,5	25	41		
M42441-16-16	25	- 16	1"	1.7/16" - 12		19,5	86	13,5	24	41		
M42441-20-20	31	- 20	1.1/4"	1.11/16" - 12		25	96,5	14,8	26	50		
M42441-24-24	38	- 24	1.1/2"	2" - 12		31	112	15,8	31,5	60		

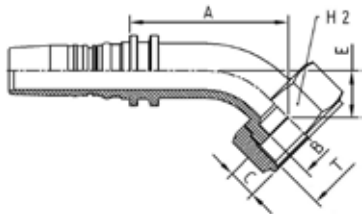


SAE STANDARD CONNECTIONS

M42442

45° ORFS FEMALE SWEPT ELBOW - SAE J516 / ISO 12151-1 HEAVY TYPE (THRUST-WIRE-NUT)

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	E	H2	
M42442-12-12	19	- 12	3/4"	1.3/16" - 12	14,5	89	14	36	36		
M42442-16-16	25	- 16	1"	1.7/16" - 12	19,5	100	15	42,5	46		
M42442-20-20	31	- 20	1.1/4"	1.11/16" - 12	25	119,5	15,1	49,5	55		
M42442-24-24	38	- 24	1.1/2"	2" - 12	31	128,5	15	52	60		

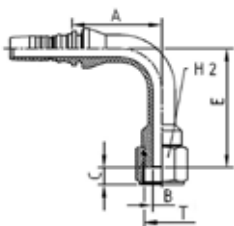


SAE STANDARD CONNECTIONS

M42443

45° ORFS FEMALE SWEPT ELBOW - SAE J516 / ISO 12151-1 (SLIP-ON NUT)

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	E	H2	
M42443-12-16	19	- 12	3/4"	1.7/16" - 12	19,8	71	14,8	23,5	41		
M42443-16-20	25	- 16	1"	1.11/16" - 12	26	81	14,8	24	50		
M42443-20-24	31	- 20	1.1/4"	2" - 12	32	99	14,8	29	60		



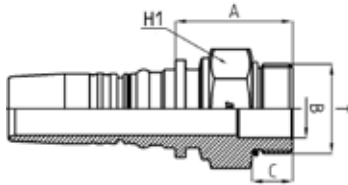
SAE STANDARD CONNECTIONS

M44492 LONG DROP

90° ORFS FEMALE LONG DROP ELBOW - SAE J516 / ISO 12151-1 (THRUST-WIRE NUT)

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	E	H2	
M44492-12-12	19	- 12	3/4"	1.3/16" - 12	14,5	72,5	14,1	96	36		
M44492-20-20	31	- 20	1.1/4"	1.11/16" - 12	25	98,5	15,1	129	55		

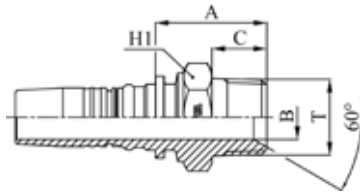
SAE STANDARD CONNECTIONS



M33010

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

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	H1		
M33010-12-12	19	- 12	3/4"	1.1/16" - 12	15,5	42	15,1	32			
M33010-16-16	25	- 16	1"	1.5/16" - 12	21,5	43,5	15,1	38			
M33010-20-20	31	- 20	1.1/4"	1.5/8" - 12	27,5	47,5	15,1	46			



SAE STANDARD CONNECTIONS

M32810

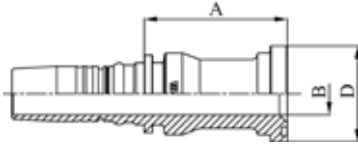
NPTF MALE 60° CONE SEAT - SAE J516/J514

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	H1		
M32810-10-12	16	- 10	5/8"	3/4" - 14	16	40,7	19,2	27			
M32810-12-12	19	- 12	3/4"	3/4" - 14	16	42,9	19,2	32			
M32810-16-16	25	- 16	1"	1" - 11,5	19,5	50,5	24,2	38			
M32810-20-20	31	- 20	1.1/4"	1.1/4" - 11,5	26,1	61	25	46			
M32810-24-24	38	- 24	1.1/2"	1.1/2" - 11,5	32,1	62,5	26	50			
M32810-24-32	38	- 24	1.1/2"	2" - 11,5	42	67	26,5	70			
M32810-32-32	51	- 32	2"	2" - 11,5	42	67	26,5	70			
M32810-40-40	63	- 40	2.1/2"	2.1/2" - 8	51,5	94,5	43	80			
M32810-48-48	76	- 48	3"	3" - 8	62,5	123,5	51,5	100			

SAE STANDARD CONNECTIONS

M43310

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

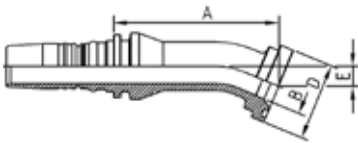


PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch	Inch	B	A	D				
M43310-10-16	16	- 10	5/8"	1"	20	64	44,6				
M43310-12-12	19	- 12	3/4"	3/4"	16	60	38				
M43310-12-16	19	- 12	3/4"	1"	20	65,5	44,6				
M43310-16-12	25	- 16	1"	3/4"	16	67	38				
M43310-16-16	25	- 16	1"	1"	20	66,5	44,6				
M43310-16-20	25	- 16	1"	1.1/4"	26,1	73	51				
M43310-20-20	31	- 20	1.1/4"	1.1/4"	26,1	75	51				
M43310-20-24	31	- 20	1.1/4"	1.1/2"	32,1	80	60,5				
M43310-24-24	38	- 24	1.1/2"	1.1/2"	32,1	80,5	60,5				
M43310-24-32	38	- 24	1.1/2"	2"	42	88,5	71,6				
M43310-32-24	38	- 24	1.1/2"	2"	32,1	104	60,5				
M43310-32-32	51	- 32	2"	2"	42	82,5	71,6				
M43310-40-40	63	- 40	2.1/2"	2.1/2"	51,5	92,5	84,3				
M43310-48-48	76	- 48	3"	3"	62,5	101	101,6				

SAE STANDARD CONNECTIONS

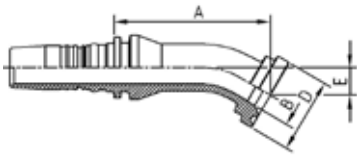
M43320

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



PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch	Inch	B	A	D	E			
M43320-16-16	25	- 16	1"	1"	20	94,5	44,6	11,5			

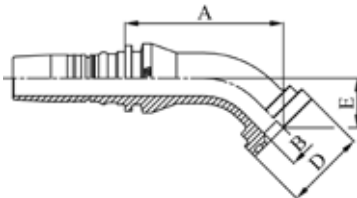
SAE STANDARD CONNECTIONS



M43330

30° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E		
M43330-16-16	25	- 16	1"	1"	20	93	44,6	16,5			
M43330-20-20	31	- 20	1.1/4"	1.1/4"	26,1	106,5	51	17,5			
M43330-24-24	38	- 24	1.1/2"	1.1/2"	32,1	118	60,5	20			
M43330-32-32	51	- 32	2"	2"	42	137	71,6	22			



SAE STANDARD CONNECTIONS

M43340

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

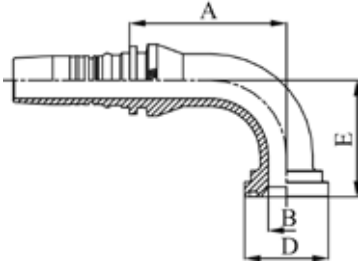
PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E		
M43340-12-12	19	- 12	3/4"	3/4"	16	75,5	38	26			
M43340-12-16	19	- 12	3/4"	1"	20	76	44,6	23			
M43340-16-16	25	- 16	1"	1"	20	87	44,6	27,5			
M43340-16-16032	25	- 16	1"	1"	20	92	44,5	32			
M43340-16-20	25	- 16	1"	1.1/4"	26	87,5	51	27,5			
M43340-20-20	31	- 20	1.1/4"	1.1/4"	26,1	100,5	51	29,5			
M43340-20-20038	31	- 20	1.1/4"	1.1/4"	26,1	109	50,9	38			
M43340-20-24	31	- 20	1.1/4"	1.1/2"	32,1	101,5	60,5	31			
M43340-24-24	38	- 24	1.1/2"	1.1/2"	32,1	111	60,5	34,5			
M43340-24-24044	38	- 24	1.1/2"	1.1/2"	32,1	120	60,5	44			
M43340-24-32	38	- 24	1.1/2"	2"	42	113	71,6	34,5			
M43340-32-32	51	- 32	2"	2"	42	128,5	71,6	39			
M43340-32-32056	51	- 32	2"	2"	42	146	71,6	56			
M43340-48-48	76	- 48	3"	3"	59	147,5	101,6	53			

All items are made from solid with the exception of M43340-48-48

SAE STANDARD CONNECTIONS

M43390

90° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3



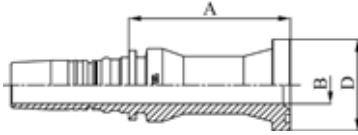
PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E		
M43390-10-16	16	- 10	5/8"	1"	20	71	44,6	52			
M43390-12-12	19	- 12	3/4"	3/4"	16	72	38	52			
M43390-12-12058	19	- 12	3/4"	3/4"	16	72	38	58			
M43390-12-16	19	- 12	3/4"	1"	20	72,5	44,6	52			
M43390-16-16	25	- 16	1"	1"	20	83,5	44,6	62			
M43390-16-16070	25	- 16	1"	1"	20	83,5	44,5	70			
M43390-16-20	25	- 16	1"	1.1/4"	26	83,5	51	62			
M43390-20-16	31	- 20	1.1/4"	1"	19,8	96,5	44,6	66			
M43390-20-20	31	- 20	1.1/4"	1.1/4"	26,1	99	51	70			
M43390-20-20090	31	- 20	1.1/4"	1.1/4"	26,1	99	50,9	90			
M43390-20-24	31	- 20	1.1/4"	1.1/2"	32,1	98,5	60,5	72			
M43390-24-24	38	- 24	1.1/2"	1.1/2"	32,1	111,5	60,5	84			
M43390-24-24104	38	- 24	1.1/2"	1.1/2"	32,1	111,5	60,5	104			
M43390-24-32	38	- 24	1.1/2"	2"	42	111,5	71,6	84			
M43390-32-32	51	- 32	2"	2"	42	133,5	71,6	99			
M43390-32-32138	51	- 32	2"	2"	42	133,5	71,5	138			
M43390-48-48	76	- 48	3"	3"	59	145	101,6	140			

All items are made from solid with the exception of M43390-48-48

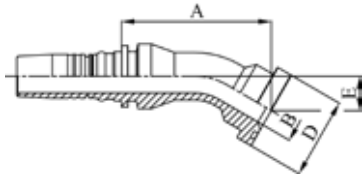
SAE STANDARD CONNECTIONS

M43610

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



PART. REF.	HOSE BORE			Flange		DIMENSIONS mm						
	DN	Dash	inch	Inch		B	A	D				
M43610-10-12	16	- 10	5/8"	3/4"		16	65	41,5				
M43610-10-16	16	- 10	5/8"	1"		20	81,5	47,7				
M43610-12-12	19	- 12	3/4"	3/4"		16	71,5	41,4				
M43610-12-16	19	- 12	3/4"	1"		20	83,5	47,7				
M43610-16-12	25	- 16	1"	3/4"		16	80,5	41,4				
M43610-16-16	25	- 16	1"	1"		20	84,5	47,7				
M43610-16-20	25	- 16	1"	1.1/4"		26	89	54,2				
M43610-20-16	31	- 20	1.1/4"	1"		20	87	47,7				
M43610-20-20	31	- 20	1.1/4"	1.1/4"		26,1	91	54,2				
M43610-20-24	31	- 20	1.1/4"	1.1/2"		32,1	97	63,7				
M43610-24-20	38	- 24	1.1/2"	1.1/4"		26	101	54,2				
M43610-24-24	38	- 24	1.1/2"	1.1/2"		32,1	97,5	63,7				
M43610-24-32	38	- 24	1.1/2"	2"		42	113	79,6				
M43610-32-24	51	- 32	2"	1.1/2"		32,1	117	63,7				
M43610-32-32	51	- 32	2"	2"		42	112,5	79,6				
M43610-40-40	63	- 40	2.1/2"	2.1/2"		51,5	126,5	107,9				
M43610-48-48	76	- 48	3"	3"		62,5	167	131,9				

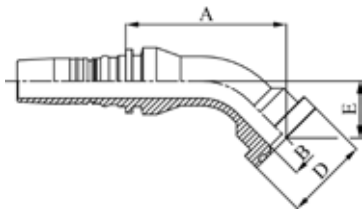


SAE STANDARD CONNECTIONS

M43630

30° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm								
	DN	Dash	inch		Inch	B	A	D	E				
M43630-12-12	19	- 12	3/4"	3/4"		16	87	41,4	17,5				
M43630-16-12	25	- 16	1"	3/4"		16	93	41,4	17				
M43630-16-16	25	- 16	1"	1"		20	98,5	47,7	20				
M43630-20-20	31	- 20	1.1/4"	1.1/4"		26,1	115,5	54,2	23				
M43630-24-24	38	- 24	1.1/2"	1.1/2"		32	133,5	63,7	27				
M43630-32-32	51	- 32	2"	2"		42	167	79,6	36,5				

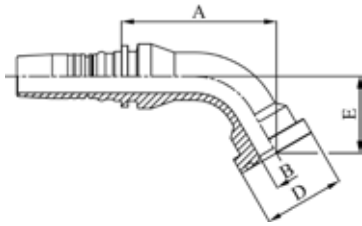


SAE STANDARD CONNECTIONS

M43640

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

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm								
	DN	Dash	inch		Inch	B	A	D	E				
M43640-10-12	16	- 10	5/8"	3/4"		16	71	41,4	31				
M43640-10-16	16	- 10	5/8"	1"		20	83,5	47,7	32,5				
M43640-12-12	19	- 12	3/4"	3/4"		16	79	41,4	26				
M43640-12-16	19	- 12	3/4"	1"		20	85,5	47,7	32,5				
M43640-16-12	25	- 16	1"	3/4"		16	87	41,4	28				
M43640-16-16	25	- 16	1"	1"		20	91,5	47,7	32,5				
M43640-16-20	25	- 16	1"	1.1/4"		26	93,5	54,2	37,5				
M43640-20-16	31	- 20	1.1/4"	1"		20	106,5	47,7	36				
M43640-20-20	31	- 20	1.1/4"	1.1/4"		26,1	108	54,2	37,5				
M43640-20-24	31	- 20	1.1/4"	1.1/2"		32,1	115	63,7	45				
M43640-24-20	38	- 24	1.1/2"	1.1/4"		26	124,5	54,2	43				
M43640-24-24	38	- 24	1.1/2"	1.1/2"		32	124,5	63,7	44				
M43640-24-32	38	- 24	1.1/2"	2"		42	135,5	79,6	55,5				
M43640-32-32	51	- 32	2"	2"		42	154	79,6	60,5				
M43640-32-32056	51	- 32	2"	2"		42	150	79,6	56,5				

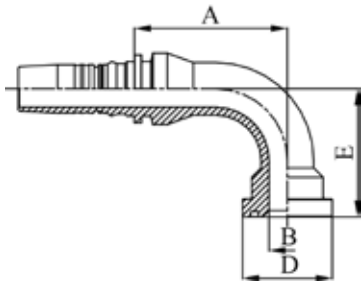


SAE STANDARD CONNECTIONS

M43660

60° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E		
M43660-12-12	19	- 12	3/4"	3/4"	16	98,5	41,4	39			
M43660-12-16	19	- 12	3/4"	1"	20	101	47,7	44			
M43660-16-16	25	- 16	1"	1"	20	107	47,7	52			
M43660-20-20	31	- 20	1.1/4"	1.1/4"	26,1	130	54,2	59			
M43660-20-24	31	- 20	1.1/4"	1.1/2"	32,1	136,5	63,7	66			
M43660-24-24	38	- 24	1.1/2"	1.1/2"	32	154	63,7	61,5			
M43660-32-32	51	- 32	2"	2"	42	197,5	79,6	85			



SAE STANDARD CONNECTIONS

M43690

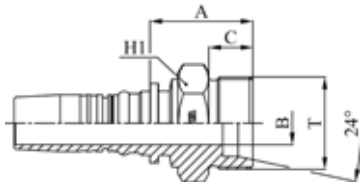
90° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E		
M43690-10-12	16	- 10	5/8"	3/4"	16	56,5	41,4	60,5			
M43690-12-12	19	- 12	3/4"	3/4"	16	72,5	41,4	59			
M43690-12-16	19	- 12	3/4"	1"	20	72,5	47,7	65			
M43690-16-12	25	- 16	1"	3/4"	16	81,5	41,4	62			
M43690-16-16	25	- 16	1"	1"	20	81	47,7	68			
M43690-16-20	25	- 16	1"	1.1/4"	26	78,5	54,2	76			
M43690-20-16	31	- 20	1.1/4"	1"	20	98,5	47,7	79			
M43690-20-20	31	- 20	1.1/4"	1.1/4"	26,1	98,5	54,2	81			
M43690-20-20090	31	- 20	1.1/4"	1.1/4"	26,1	98,5	54,1	90			
M43690-20-24	31	- 20	1.1/4"	1.1/2"	32,1	98,5	63,7	91,5			
M43690-24-20	38	- 24	1.1/2"	1.1/4"	26	111	54,2	91			
M43690-24-24	38	- 24	1.1/2"	1.1/2"	32	112,5	63,7	94,5			
M43690-24-24104	38	- 24	1.1/2"	1.1/2"	32	112,5	63,7	104			
M43690-24-32	38	- 24	1.1/2"	2"	42	112,5	79,6	110,5			
M43690-32-32	51	- 32	2"	2"	42	140,5	79,6	132			
M43690-32-32138	51	- 32	2"	2"	42	140,5	79,6	138			

DIN STANDARD CONNECTIONS

M31210

METRIC MALE 24° CONE SEAT HEAVY DUTY - DIN 20066 / ISO 12151-2

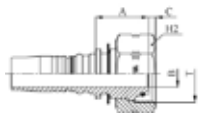
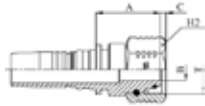


PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	H1	
M31210-10-30	16	- 10	5/8"	M 30x2	20	12	37	16	30			
M31210-12-30	19	- 12	3/4"	M 30x2	20	14,5	38,5	16	32			
M31210-12-36	19	- 12	3/4"	M 36x2	25	14,5	43,5	18	36			
M31210-16-36	25	- 16	1"	M 36x2	25	19,5	45	18	36			
M31210-16-42	25	- 16	1"	M 42x2	30	19,5	47	20	46			
M31210-20-52	31	- 20	1.1/4"	M 52x2	38	25	55	22	55			
M31210-24-52	38	- 24	1.1/2"	M 52x2	38	31	55,5	22	55			

DIN STANDARD CONNECTIONS

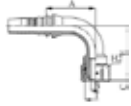
M41612/M41613

METRIC O-RING FEMALE 24° CONE HEAVY DUTY - DIN 20066 / ISO 12151-2



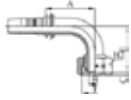
PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	H2	
M41612-10-24	16	- 10	5/8"	M 24x1,5	16	9,3	31	4	30			
M41613-10-30	16	- 10	5/8"	M 30x2	20	12	37	3,5	36			
M41612-12-30	19	- 12	3/4"	M 30x2	20	12,5	44	3,2	36			
M41613-12-36	19	- 12	3/4"	M 36x2	25	14,5	42	3,4	41			
M41613-12-42	19	- 12	3/4"	M 42x2	30	19	36	6,3	50			
M41612-16-36	25	- 16	1"	M 36x2	25	16	47	4,1	41			
M41613-16-42	25	- 16	1"	M 42x2	30	19,5	46,5	5,3	50			
M41613-16-52	25	- 16	1"	M 52x2	38	26,1	49,5	8	60			
M41612-20-42	31	- 20	1.1/4"	M 42x2	30	19	47,5	6	50			
M41613-20-52	31	- 20	1.1/4"	M 52x2	38	26,1	41,5	8	60			
M41612-24-52	38	- 24	1.1/2"	M 52x2	38	29	52,5	8,8	60			

M41612: THRUST-WIRE NUT - M41613: SLIP-ON NUT



DIN STANDARD CONNECTIONS

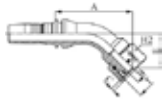
M41692/M41693



**90° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY
DIN 20066 / ISO 12151-2**

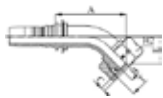
PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	E	H2
M41693-10-30	16	- 10	5/8"	M 30x2	20	12	52,5	3,5	57,5	36		
M41692-12-30	19	- 12	3/4"	M 30x2	25	12,5	64	3,2	68,5	36		
M41693-12-36	19	- 12	3/4"	M 36x2	25	14,5	67	3,4	67,5	41		
M41692-16-36	25	- 16	1"	M 36x2	25	16	81,5	4,1	89	41		
M41693-16-42	25	- 16	1"	M 42x2	30	19,5	81,5	5,3	75,5	50		
M41692-20-42	31	- 20	1.1/4"	M 42x2	30	19,1	103,5	6	90	50		
M41693-20-52	31	- 20	1.1/4"	M 52x2	38	26,1	100	8	86,5	60		

M41692: THRUST-WIRE NUT - M41693: SLIP-ON NUT



DIN STANDARD CONNECTIONS

M41642/M41643

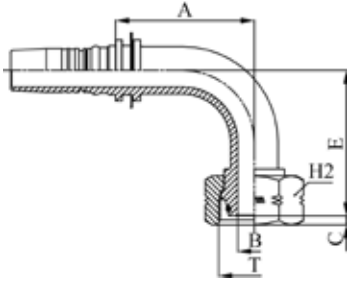


**45° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY
DIN 20066 / ISO 12151-2**

PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	E	H2
M41643-10-30	16	- 10	5/8"	M 30x2	20	12	66,5	3,5	29,5	36		
M41642-12-30	19	- 12	3/4"	M 30x2	20	12,5	79	3,2	35	36		
M41643-12-36	19	- 12	3/4"	M 36x2	25	14,5	81	3,4	33,5	41		
M41642-16-36	25	- 16	1"	M 36x2	25	16	103	4,1	45,5	41		
M41643-16-42	25	- 16	1"	M 42x2	30	19,5	93	5,3	36	50		
M41642-20-42	31	- 20	1.1/4"	M 42x2	30	19,1	116,5	6	44,5	50		
M41643-20-52	31	- 20	1.1/4"	M 52x2	38	26,1	110	8	40	60		
M41642-24-52	38	- 24	1.1/2"	M 52x2	38	29	128	8,8	51,5	60		

M41642: THRUST-WIRE NUT - M41643: SLIP-ON NUT

DIN STANDARD CONNECTIONS

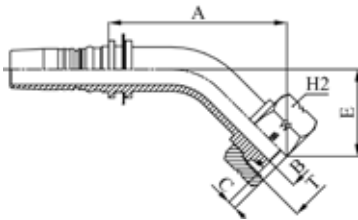


M41293 LONG DROP

90° METRIC O-RING FEMALE MEDIUM/LONG DROP ELBOW 24°
CONE HEAVY DUTY DIN 20066 / ISO 12151-2 (SLIP-ON NUT)

PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	E	H2
M41293-10-30	16	- 10	5/8"	M 30x2	20	12	53	3,5	60	36		
M41293-12-36	19	- 12	3/4"	M 36x2	25	14,5	67	3,4	67,5	41		
M41293-16-42	25	- 16	1"	M 42x2	30	19,5	81,5	5,3	86	50		
M41293-20-52	31	- 20	1.1/4"	M 52x2	38	26,1	100	8	92	60		

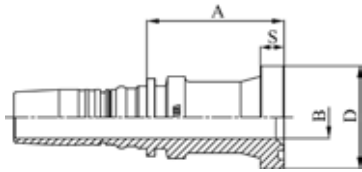
DIN STANDARD CONNECTIONS



M41243 LONG DROP

45° METRIC O-RING FEMALE MEDIUM/LONG DROP ELBOW 24°
CONE HEAVY DUTY DIN 20066/ ISO 12151-2 (SLIP-ON NUT)

PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	E	H2
M41243-10-30	16	- 10	5/8"	M 30x2	20	12	77,5	3,5	35	36		
M41243-12-36	19	- 12	3/4"	M 36x2	25	14,5	101	3,4	45	41		
M41243-16-42	25	- 16	1"	M 42x2	30	19,5	112	5,3	55	50		
M41243-20-52	31	- 20	1.1/4"	M 52x2	38	26,1	133	8	63	60		

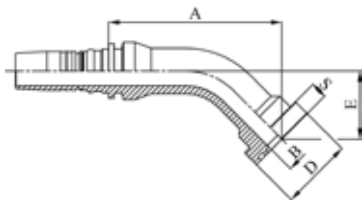


ORIGINAL EQUIPMENT CONNECTIONS

M43710

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

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

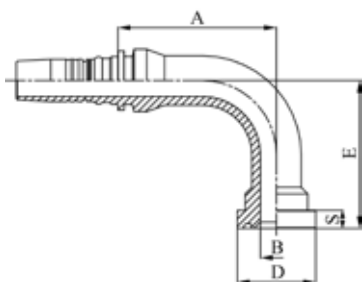


ORIGINAL EQUIPMENT CONNECTIONS

M43740

45° FLANGE PLUS (SAE J518 CODE 62 - ISO 6162-2 PORT COMPATIBLE)

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



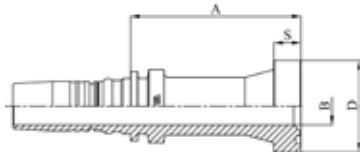
ORIGINAL EQUIPMENT CONNECTIONS

M43790

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

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	S	
M43790-10-12	16	- 10	5/8"	3/4"	16	61,5	41,4	60,5	9		
M43790-12-12	19	- 12	3/4"	3/4"	14,5	93	41,4	75	10		
M43790-16-16	25	- 16	1"	1"	19,5	90	47,7	90	11		
M43790-20-20	31	- 20	1.1/4"	1.1/4"	25	115	54,2	110	12		

ORIGINAL EQUIPMENT CONNECTIONS

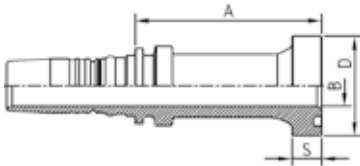


M43910

STRAIGHT SUPERCAT SERIES FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	S			
M43910-12-12	19	- 12	3/4"	3/4"		16	77	41,5	14,3			
M43910-12-16	19	- 12	3/4"	1"		20	88,5	47,7	14,3			
M43910-16-16	25	- 16	1"	1"		20	89,5	47,7	14,3			
M43910-16-20	25	- 16	1"	1.1/4"		26	93,5	54	14,3			
M43910-20-20	31	- 20	1.1/4"	1.1/4"		26,1	95	54	14,3			
M43910-20-24	31	- 20	1.1/4"	1.1/2"		32,1	98,5	63,6	14,3			
M43910-24-24	38	- 24	1.1/2"	1.1/2"		32,1	99	63,6	14,3			
M43910-24-32	38	- 24	1.1/2"	2"		42	115	79,3	14,3			
M43910-32-24	51	- 32	2"	1.1/2"		32,1	119,5	63,6	14,3			
M43910-32-32	51	- 32	2"	2"		42	114,5	79,3	14,3			

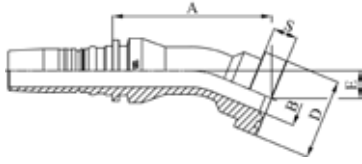
ORIGINAL EQUIPMENT CONNECTIONS



M43910CT

STRAIGHT REALCAT FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	S			
M43910-16-16CT	25	- 16	1"	1"		19,5	89,5	47,7	14,3			
M43910-20-20CT	31	- 20	1.1/4"	1.1/4"		25	95	54	14,3			
M43910-20-24CT	31	- 20	1.1/4"	1.1/2"		31	98	63,6	14,3			
M43910-24-24CT	38	- 24	1.1/2"	1.1/2"		31	99	63,6	14,3			

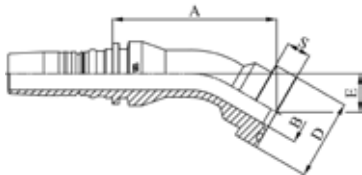


ORIGINAL EQUIPMENT CONNECTIONS

M43920

22,5° SUPERCAT SERIES FLANGE

PART. REF.	HOSE BORE			Flange		DIMENSIONS mm						
	DN	Dash	inch			Inch	B	A	D	E		
M43920-12-12	19	- 12	3/4"	3/4"		16	94	41,5	14,5	14,3		
M43920-12-16	19	- 12	3/4"	1"		20	101,5	47,7	16,5	14,3		
M43920-16-16	25	- 16	1"	1"		20	110,5	47,7	16,5	14,3		
M43920-16-20	25	- 16	1"	1.1/4"		26,1	115,5	54	19	14,3		
M43920-20-20	31	- 20	1.1/4"	1.1/4"		26,1	122	54	18	14,3		
M43920-20-24	31	- 20	1.1/4"	1.1/2"		32	139	63,7	23	14,3		
M43920-24-24	38	- 24	1.1/2"	1.1/2"		32	138	63,7	20	14,3		



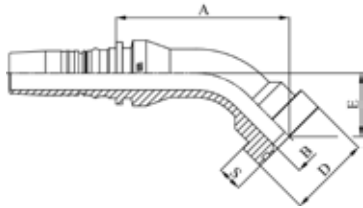
ORIGINAL EQUIPMENT CONNECTIONS

M43930

30° SUPERCAT SERIES FLANGE

PART. REF.	HOSE BORE			Flange		DIMENSIONS mm						
	DN	Dash	inch			Inch	B	A	D	E		
M43930-12-12	19	- 12	3/4"	3/4"		16	92	41,5	20	14,3		
M43930-12-16	19	- 12	3/4"	1"		20	99	47,7	22,5	14,3		
M43930-16-16	25	- 16	1"	1"		20	108	47,7	23	14,3		
M43930-16-20	25	- 16	1"	1.1/4"		26,1	112,5	54	26	14,3		
M43930-20-20	31	- 20	1.1/4"	1.1/4"		26,1	119,5	54	25	14,3		
M43930-20-24	31	- 20	1.1/4"	1.1/2"		32	135,5	63,7	32	14,3		
M43930-24-24	38	- 24	1.1/2"	1.1/2"		32	135	63,7	28	14,3		
M43930-24-32	38	- 24	1.1/2"	2"		42	151,5	79,3	36	14,3		
M43930-32-32	51	- 32	2"	2"		42	171,5	79,3	37,5	14,3		

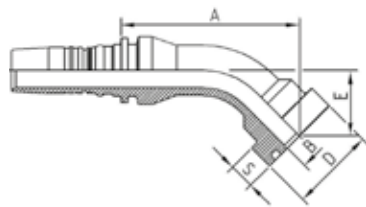
ORIGINAL EQUIPMENT CONNECTIONS



M43940

45° SUPERCAT SERIES FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	S	
M43940-12-12	19	- 12	3/4"	3/4"	16	85	41,5	32	14,3		
M43940-12-16	19	- 12	3/4"	1"	20	91,5	47,7	35,5	14,3		
M43940-16-16	25	- 16	1"	1"	20	100,5	47,7	36,5	14,3		
M43940-16-20	25	- 16	1"	1.1/4"	26,1	103,5	54	40,5	14,3		
M43940-20-20	31	- 20	1.1/4"	1.1/4"	26,1	110,5	54	40,5	14,3		
M43940-20-24	31	- 20	1.1/4"	1.1/2"	32	124,5	63,7	50,5	14,3		
M43940-24-24	38	- 24	1.1/2"	1.1/2"	32	125,5	63,7	45,5	14,3		
M43940-24-32	38	- 24	1.1/2"	2"	42	139,5	79,3	56,5	14,3		
M43940-32-32	51	- 32	2"	2"	42	158,5	79,3	61,5	14,3		

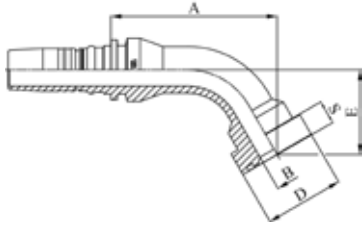


ORIGINAL EQUIPMENT CONNECTIONS

M43940CT

45° REALCAT FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	S	
M43940-16-16CT	25	- 16	1"	1"	19,5	100,5	47,7	36,5	14,3		
M43940-16-20CT	25	- 16	1"	1.1/4"	25	103,5	54	40,5	14,3		
M43940-20-20CT	31	- 20	1.1/4"	1.1/4"	25	110,5	54	40,5	14,3		
M43940-20-24CT	31	- 20	1.1/4"	1.1/2"	31	124,5	63,7	50,5	14,3		
M43940-24-24CT	38	- 24	1.1/2"	1.1/2"	31	125,5	63,7	45	14,3		

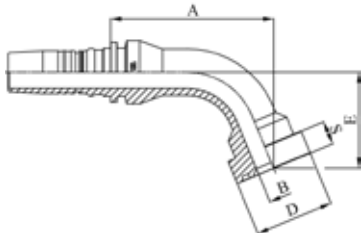


ORIGINAL EQUIPMENT CONNECTIONS

M43960

60° SUPERCAT SERIES FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	E	S		
M43960-12-12	19	- 12	3/4"	3/4"		16	101	41,5	44	14,3		
M43960-12-16	19	- 12	3/4"	1"		20	106	47,7	48	14,3		
M43960-16-16	25	- 16	1"	1"		20	122	47,7	51	14,3		
M43960-16-16055	25	- 16	1"	1"		20	102,5	47,7	55	14,3		
M43960-16-20	25	- 16	1"	1.1/4"		26,1	122	54	55	14,3		
M43960-20-20	31	- 20	1.1/4"	1.1/4"		26,1	136	54	56	14,3		
M43960-20-24	31	- 20	1.1/4"	1.1/2"		32	149	63,7	69	14,3		
M43960-24-24	38	- 24	1.1/2"	1.1/2"		32	154,5	63,7	63	14,3		
M43960-32-32	51	- 32	2"	2"		42	202	79,3	86,5	14,3		
M43960-32-32150	51	- 32	2"	2"		42	196,5	79,3	150	14,3		

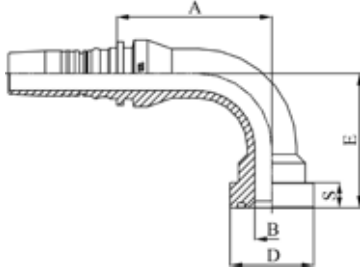


ORIGINAL EQUIPMENT CONNECTIONS

M43970

67,5° SUPERCAT SERIES FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	E	S		
M43970-12-12	19	- 12	3/4"	3/4"		16	95	41,5	49,5	14,3		
M43970-12-16	19	- 12	3/4"	1"		20	99,5	47,7	54	14,3		
M43970-16-16	25	- 16	1"	1"		20	115	47,7	58	14,3		
M43970-16-20	25	- 16	1"	1.1/4"		26,1	114,5	54	62	14,3		
M43970-20-20	31	- 20	1.1/4"	1.1/4"		26,1	128	54	64	14,3		
M43970-20-24	31	- 20	1.1/4"	1.1/2"		32	139,5	63,7	78	14,3		
M43970-24-24	38	- 24	1.1/2"	1.1/2"		32	146	63,7	72	14,3		
M43970-32-32	51	- 32	2"	2"		42	189,5	79,3	99	14,3		

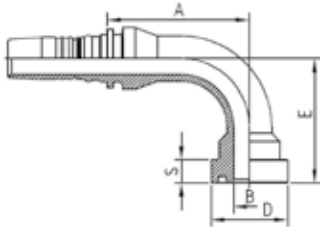


ORIGINAL EQUIPMENT CONNECTIONS

M43990

90° SUPERCAT SERIES FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	S	
M43990-12-12	19	- 12	3/4"	3/4"	16	72,5	41,5	64,5	14,3		
M43990-12-16	19	- 12	3/4"	1"	20	75	47,7	69,5	14,3		
M43990-16-16	25	- 16	1"	1"	20	88,5	47,7	76,5	14,3		
M43990-16-20	25	- 16	1"	1.1/4"	26,1	86,5	54	80,5	14,3		
M43990-20-20	31	- 20	1.1/4"	1.1/4"	26,1	98,5	54	85	14,3		
M43990-20-24	31	- 20	1.1/4"	1.1/2"	32	104	63,7	101	14,3		
M43990-24-24	38	- 24	1.1/2"	1.1/2"	32	112,5	63,7	96	14,3		
M43990-24-32	38	- 24	1.1/2"	2"	42	115	79,3	112	14,3		
M43990-32-32	51	- 32	2"	2"	42	144	79,3	133,5	14,3		



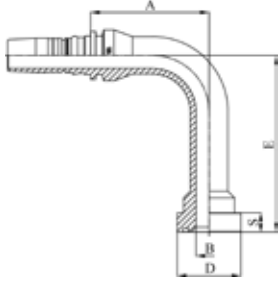
ORIGINAL EQUIPMENT CONNECTIONS

M43990CT

90° REALCAT FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	S	
M43990-16-16CT	25	- 16	1"	1"	19,5	88,5	47,7	76,5	14,3		
M43990-16-20CT	25	- 16	1"	1.1/4"	25	86,5	54	80,5	14,3		
M43990-20-20CT	31	- 20	1.1/4"	1.1/4"	25	98,5	54	85	14,3		
M43990-24-24CT	38	- 24	1.1/2"	1.1/2"	31	112,5	63,7	96	14,3		

ORIGINAL EQUIPMENT CONNECTIONS

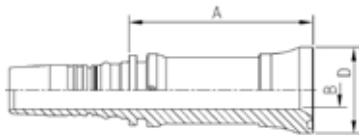


M43990 LONG DROP

90° LONG DROP SUPERCAT SERIES FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	S	
M43990-16-16132	25	- 16	1"	1"	20	88,5	47,7	132	14,3		
M43990-16-16150	25	- 16	1"	1"	20	88,5	47,7	150	14,3		
M43990-16-20150	25	- 16	1"	1.1/4"	26,1	88,5	54	150	14,3		
M43990-20-20092	31	- 20	1.1/4"	1.1/4"	26,1	98,5	54	92	14,3		
M43990-20-20150	31	- 20	1.1/4"	1.1/4"	26,1	98,5	54	150	14,3		
M43990-20-24135	31	- 20	1.1/4"	1.1/2"	32	98,5	63,7	135	14,3		
M43990-24-24106	38	- 24	1.1/2"	1.1/2"	32	112,5	63,7	106	14,3		

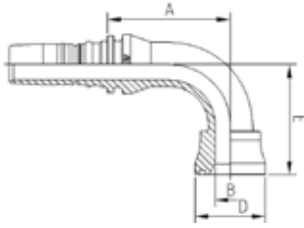
XTRAF LANGE



M48410

XTRAF LANGE/61 (ISO6162-1/SAE J518 CODE 61 PORT COMPATIBLE)

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D			
M48410-16-16	25	- 16	1"	1"	19,5	94,5	44,5				
M48410-20-20	31	- 20	1.1/4"	1.1/4"	25	103,5	50,5				
M48410-24-24	38	- 24	1.1/2"	1.1/2"	31	116	60,5				
M48410-32-32	51	- 32	2"	2"	41	101	71,6				
M48410-40-40	63	- 40	2.1/2"	2.1/2"	51,5	103	84,4				



XTRAFLLANGE

M48490

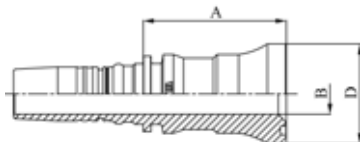
90° XTRAFLLANGE/61 (ISO6162-1/SAE J518 CODE 61 PORT COMPATIBLE)

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	E			
M48490-16-16	25	- 16	1"	1"	19,5	77,5	44,5	69,5				
M48490-20-20	31	- 20	1.1/4"	1.1/4"	25	107	50,5	90				
M48490-24-24	38	- 24	1.1/2"	1.1/2"	31	112	60,5	104				
M48490-32-32	51	- 32	2"	2"	41	145	71,6	138				

XTRAFLLANGE

M48510

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

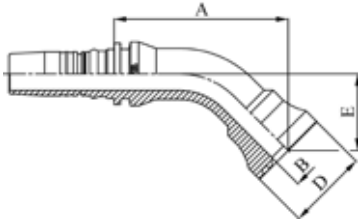


PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D				
M48510-12-12	19	- 12	3/4"	3/4"	14,5	64	41,4					
M48510-16-16	25	- 16	1"	1"	19,5	68,5	47,7					
M48510-20-20	31	- 20	1.1/4"	1.1/4"	25	88	54,4					
M48510-24-24	38	- 24	1.1/2"	1.1/2"	31	102	63,7					
M48510-32-32	51	- 32	2"	2"	41	128,5	79,6					
M48510-40-40	63	- 40	2.1/2"	2.1/2"	51,5	148,5	99,2					

XTRAFLANGE

M48540

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

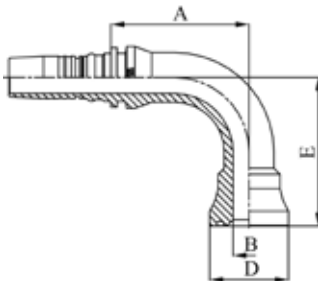


PART. REF.	HOSE BORE			Flange	DIMENSIONS mm								
	DN	Dash	inch		Inch	B	A	D	E				
M48540-12-12	19	- 12	3/4"	3/4"		14,5	92,5	41,4	38				
M48540-16-16	25	- 16	1"	1"		19,5	101,5	47,7	45				
M48540-20-20	31	- 20	1.1/4"	1.1/4"		25	138	54,4	62,5				
M48540-24-24	38	- 24	1.1/2"	1.1/2"		31	155	63,7	71,5				
M48540-32-32	51	- 32	2"	2"		39	193,5	79,6	92,5				

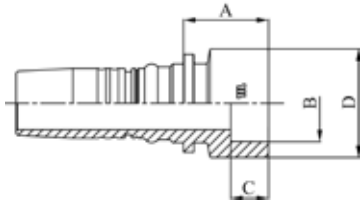
XTRAFLANGE

M48590

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



PART. REF.	HOSE BORE			Flange	DIMENSIONS mm								
	DN	Dash	inch		Inch	B	A	D	E				
M48590-12-12	19	- 12	3/4"	3/4"		14,5	75,5	41,4	75				
M48590-16-16	25	- 16	1"	1"		19,5	83,5	47,7	90				
M48590-20-20	31	- 20	1.1/4"	1.1/4"		25	107	54,4	120				
M48590-24-24	38	- 24	1.1/2"	1.1/2"		31	122	63,7	140				
M48590-32-32	51	- 32	2"	2"		39	147,5	79,6	178				



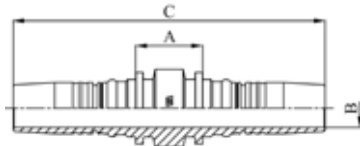
TAIL

M49510WL

WELDING TAIL

PART. REF.	HOSE BORE			DIMENSIONS mm								
	DN	Dash	inch			B	A	C	D			
M49510-10-18WL	16	- 10	5/8"			18,1	20,5	10	26			
M49510-12-22WL	19	- 12	3/4"			22,1	27,5	12	34			
M49510-16-28WL	25	- 16	1"			28,1	31,5	14	40			
M49510-20-35WL	31	- 20	1.1/4"			35,1	33	14	49			

FITTINGS
F 3-30



DOUBLE CONNECTOR

M30050

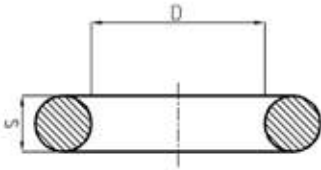
DOUBLE CONNECTOR

PART. REF.	HOSE BORE			DIMENSIONS mm								
	DN	Dash	inch			B	A	C				
M30050-20-20	31	- 20	1.1/4"			25	42	206				
M30050-24-24	38	- 24	1.1/2"			31	43,1	229,1				
M30050-32-32	51	- 32	2"			41	43	244,7				

O-RING

JO29

OPTIONAL INTERLOCK PLUS O-RING



PART. REF.	HOSE BORE			DIMENSIONS mm								
	DN	Dash	inch			D	S					
JO29161218	16	- 10	5/8"			12,4	1,8					
JO29191618	19	- 12	3/4"			15,6	1,8					
JO29262218	25	- 16	1"			22	1,8					
JO29322818	31	- 20	1.1/4"			28,3	1,8					
JO29383518	38	- 24	1.1/2"			34,6	1,8					
JO29514718	51	- 32	2"			47,4	1,8					
JO29605718	63	- 40	2.1/2"			57,9	1,8					
JO29737018	76	- 48	3"			69,6	1,8					



INTERLOCK PLUS STAINLESS STEEL

FITTING CODE	SECTION	PAGE
IM01500	3	33
IM01600	3	33
IM01800/IM01810	3	34
IM30510	3	34
IM31210	3	44
IM32510	3	36
IM32810	3	40
IM40812	3	35
IM40842	3	35
IM40892	3	3
IM41613	3	44
IM41643	3	45
IM41692/IM41693	3	45
IM42412	3	38
IM42442	3	39
IM42492	3	39
IM42512	3	37
IM42542	3	37
IM42592	3	38
IM43310	3	40
IM43340	3	41
IM43390	3	41
IM43610	3	42
IM43640	3	43
IM43690	3	43
IM43910	3	46
IM43940	3	46
IM43990	3	47

INTERLOCK PLUS STAINLESS STEEL

DN	5	6	8	10	12	16	19	25	31	38	51	60	63	76	89	102
Inch	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	2 3/8"	2 1/2"	3"	3 1/2"	4"
Size	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	-38	-40	-48	-56	-64

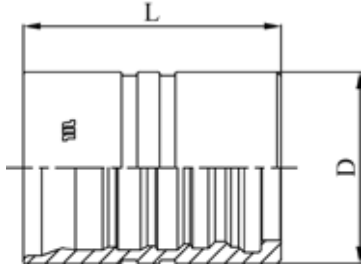
FERRULES

IM01500																	
IM01600																	
IM01800 / IM01810																	

FITTINGS

BSP																	
SAE (JIC)																	
SAE (ORFS)																	
SAE (NPTF)																	
SAE FLANGE CODE 61																	
SAE FLANGE CODE 62																	
DIN METRIC 24° CONE HEAVY TYPE																	
ORIGINAL EQUIPMENT CONNECTIONS																	

FITTINGS F 3-V

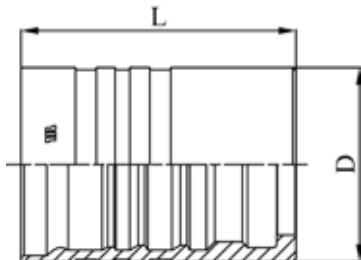


FERRULE

IM01500

**DOUBLE SKIVE FERRULE FOR HEAVY DUTY SPIRAL HOSES (4 PLY)
STAINLESS STEEL**

PART. REF.	HOSE BORE			DIMENSIONS mm								
	DN	Dash	inch			D	L					
IM01500-10	16	- 10	5/8"			35	40,9					
IM01500-12	19	- 12	3/4"			40	51,4					
IM01500-16	25	- 16	1"			48	64,5					
IM01500-20	31	- 20	1.1/4"			57	84					
IM01500-24	38	- 24	1.1/2"			64,3	94					
IM01500-32	51	- 32	2"			83,5	107					
IM01500-40	63	- 40	2.1/2"			100	135					
IM01500-48	76	- 48	3"			107	125					

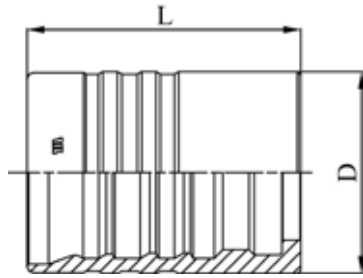


FERRULE

IM01600

**DOUBLE SKIVE FERRULE FOR HEAVY DUTY SPIRAL HOSES (6 PLY)
STAINLESS STEEL**

PART. REF.	HOSE BORE			DIMENSIONS mm								
	DN	Dash	inch			D	L					
IM01600-20	31	- 20	1.1/4"			60	85					
IM01600-24	38	- 24	1.1/2"			69	96					



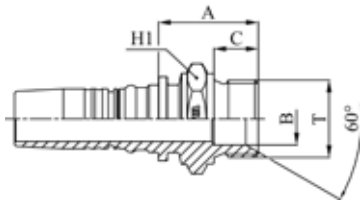
FERRULE

IM01800/IM01810

DOUBLE SKIVE FERRULE FOR EXTRA DUTY SPIRAL HOSES (6 PLY)
STAINLESS STEEL

PART. REF.	HOSE BORE			DIMENSIONS mm							
	DN	Dash	inch			D	L				
IM01800-20	31	- 20	1.1/4"			64,5	88,2				
IM01800-32	51	- 32	2"			86,5	108				
IM01810-40	63	- 40	2.1/2"			103	135				
IM01810-48	76	- 48	3"			113,5	125				

FITTINGS
F 3-34

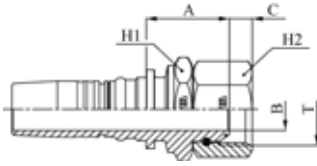


BS STANDARD CONNECTIONS

IM30510

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

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm					
	DN	Dash	inch		T	B	A	C	H1	
IM30510-12-12	19	- 12	3/4"	3/4" - 14	17	37	16	32		
IM30510-16-16	25	- 16	1"	1" - 11	22,5	43	19	41		
IM30510-20-20	31	- 20	1.1/4"	1.1/4" - 11	28,5	50,5	20	50		
IM30510-24-24	38	- 24	1.1/2"	1.1/2" - 11	33,5	54,5	22	55		
IM30510-32-32	51	- 32	2"	2" - 11	42	58	25	70		

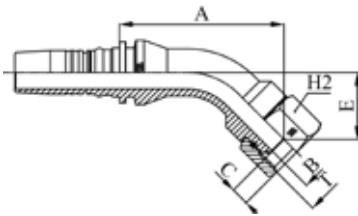


BS STANDARD CONNECTIONS

IM40812

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

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	H1	H2	
IM40812-12-12	19	- 12	3/4"	3/4" - 14		14,5	39	8,5	32	32		
IM40812-16-16	25	- 16	1"	1" - 11		19,5	44,5	10,6	41	41		
IM40812-20-20	31	- 20	1.1/4"	1.1/4" - 11		26,1	52,5	10,5	50	50		
IM40812-24-24	38	- 24	1.1/2"	1.1/2" - 11		32,1	51,5	12,5	60	60		
IM40812-32-32	38	- 24	1.1/2"	1.1/2" - 11		42	51,5	16,1	70	70		



BS STANDARD CONNECTIONS

IM40842

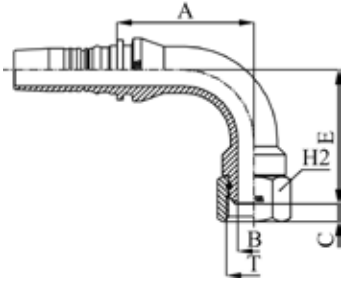
45° BSP O-RING FEMALE SWEPT ELBOW 60° CONE BS5200 / ISO 12151-6 (THRUST-WIRE NUT) STAINLESS STEEL

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
IM40842-12-12	19	- 12	3/4"	3/4" - 14		14,5	88	8,5	35	32		
IM40842-16-16	25	- 16	1"	1" - 11		19,5	97	10,6	40	41		
IM40842-20-20	31	- 20	1.1/4"	1.1/4" - 11		26,1	120	10,5	49,5	50		
IM40842-24-24	38	- 24	1.1/2"	1.1/2" - 11		32,1	126,5	12,5	50	60		
IM40842-32-32	51	- 32	2"	2" - 11,5		42	162,5	16,1	66,5	70		

BS STANDARD CONNECTIONS

IM40892

90° BSP O-RING FEMALE SWEPT ELBOW 60° CONE BS5200 / ISO 12151-6 (THRUST-WIRE NUT) STAINLESS STEEL

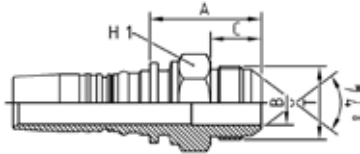


PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
IM40892-12-12	19	- 12	3/4"	3/4" - 14		14,5	72,5	8,5	70	32		
IM40892-16-16	25	- 16	1"	1" - 11		19,5	82	10,6	80,5	41		
IM40892-20-20	31	- 20	1.1/4"	1.1/4" - 11		26,1	98,5	10,5	98	50		
IM40892-24-24	38	- 24	1.1/2"	1.1/2" - 11		32,1	111,5	12,5	109	60		
IM40892-32-32	51	- 32	2"	2" - 11,5		42	143	16,1	140,5	70		

SAE STANDARD CONNECTIONS

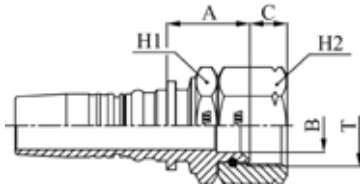
IM32510

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



PART. REF.	HOSE BORE			Thread		DIMENSIONS mm					
	DN	Dash	inch			T	B	A	C	H1	
IM32510-10-10	16	- 10	5/8"	7/8" - 14		12	41	19,5	27		
IM32510-12-12	19	- 12	3/4"	1.1/16" - 12		15	45,5	22	32		
IM32510-16-16	25	- 16	1"	1.5/16" - 12		20	50,5	23	38		
IM32510-20-20	31	- 20	1.1/4"	1.5/8" - 12		26,1	66	24,3	46		
IM32510-24-24	38	- 24	1.1/2"	1.7/8" - 12		32,1	64	27,5	50		
IM32510-32-32	51	- 32	2"	2.1/2" - 12		42	81	34	70		

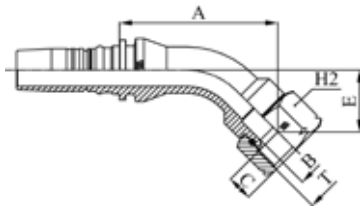
SAE STANDARD CONNECTIONS



IM42512

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

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	H1	H2	
IM42512-12-12	19	- 12	3/4"	1.1/16" - 12		15	36	16	32	32		
IM42512-16-16	25	- 16	1"	1.5/16" - 12		21,7	40,5	15,2	41	41		
IM42512-20-20	31	- 20	1.1/4"	1.5/8" - 12		26,1	51,5	16,2	50	50		
IM42512-24-24	38	- 24	1.1/2"	1.7/8" - 12		31	54,5	18,8	55	60		
IM42512-32-32	51	- 32	2"	2.1/2" - 8		42	54	24	70	75		

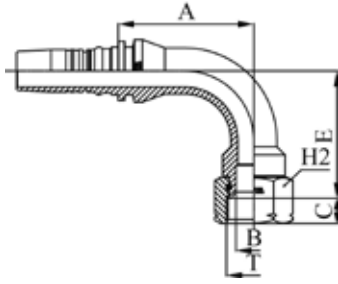


SAE STANDARD CONNECTIONS

IM42542

45° JIC FEMALE SWEEP ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5 (THRUST-WIRE NUT) STAINLESS STEEL

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
IM42542-12-12	19	- 12	3/4"	1.1/16" - 12		15	86	16	33	32		
IM42542-16-16	25	- 16	1"	1.5/16" - 12		21,7	95	15,2	37	41		
IM42542-20-20	31	- 20	1.1/4"	1.5/8" - 12		26,1	115,5	16,2	45	50		
IM42542-24-24	38	- 24	1.1/2"	1.7/8" - 12		32,1	126,5	18,8	50	60		

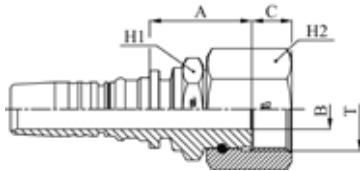


SAE STANDARD CONNECTIONS

IM42592

90° JIC FEMALE SWEEP ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5 (THRUST-WIRE NUT) STAINLESS STEEL

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
IM42592-12-12	19	- 12	3/4"	1.1/16" - 12		15	72,5	16	66	32		
IM42592-12-16	19	- 12	3/4"	1.5/16" - 12		21,7	72,5	15,2	71,5	41		
IM42592-16-16	25	- 16	1"	1.5/16" - 12		21,7	82,5	15,2	77,5	41		
IM42592-20-20	31	- 20	1.1/4"	1.5/8" - 12		26,1	98,5	16,2	92	50		
IM42592-24-24	38	- 24	1.1/2"	1.7/8" - 12		32,1	111,5	18,8	106	60		
IM42592-32-32	51	- 32	2"	2.1/2" - 8		42	144,5	24	137	75		

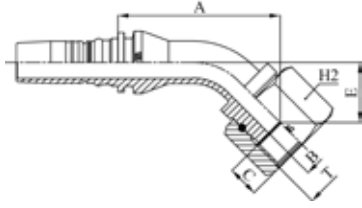


SAE STANDARD CONNECTIONS

IM42412

ORFS FEMALE - SAE J516 / ISO 12151-1 HEAVY TYPE (THRUST-WIRE NUT)

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	H1	H2	
IM42412-12-12	19	- 12	3/4"	1.3/16" - 12		14,5	37		32	36		
IM42412-16-16	25	- 16	1"	1.7/16" - 12		19,5	42	15	41	46		
IM42412-20-20	31	- 20	1.1/4"	1.11/16" - 12		25	52	15,1	50	55		
IM42412-24-24	38	- 24	1.1/2"	2" - 12		31	55	15	60	60		

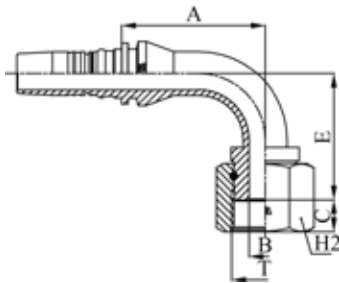


SAE STANDARD CONNECTIONS

IM42442

45° ORFS FEMALE SWEPT ELBOW - SAE J516 / ISO 12151-1 HEAVY TYPE (THRUST-WIRE-NUT) STAINLESS STEEL

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
IM42442-12-12	19	- 12	3/4"	1.3/16" - 12		14,5	89	13,9	36	36		
IM42442-16-16	25	- 16	1"	1.7/16" - 12		19,5	100	15	42,5	46		
IM42442-20-20	31	- 20	1.1/4"	1.11/16" - 12		25	119,5	15,1	49,5	55		
IM42442-24-24	38	- 24	1.1/2"	2" - 12		31	128,5	15	52	60		



SAE STANDARD CONNECTIONS

IM42492

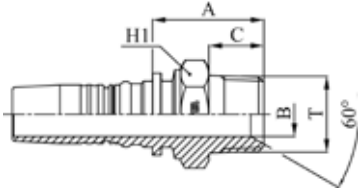
90° ORFS FEMALE SWEPT ELBOW - SAE J516 / ISO 12151-1 HEAVY TYPE (THRUST-WIRE-NUT) STAINLESS STEEL

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
IM42492-12-12	19	- 12	3/4"	1.3/16" - 12		14,5	72,5	13,9	70,5	36		
IM42492-16-16	25	- 16	1"	1.7/16" - 12		19,5	82,5	15	84,5	46		
IM42492-20-20	31	- 20	1.1/4"	1.11/16" - 12		25	98,5	15,1	98	55		
IM42492-24-24	38	- 24	1.1/2"	2" - 12		31	111,5	15	109	60		

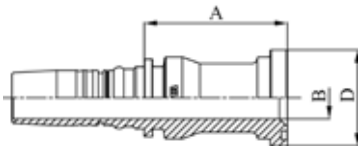
SAE STANDARD CONNECTIONS

IM32810

NPTF MALE 60° CONE SEAT - SAE J516/J514 (STAINLESS STEEL)



PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	H1			
IM32810-10-08	16	- 10	5/8"	1/2" - 14		12	39,5	19,2	24			
IM32810-10-12	16	- 10	5/8"	3/4" - 14		16	40,5	19,2	27			
IM32810-12-12	19	- 12	3/4"	3/4" - 14		16	43	19,2	32			
IM32810-16-16	25	- 16	1"	1" - 11,5		19,5	50,5	24,2	38			
IM32810-20-20	31	- 20	1.1/4"	1.1/4" - 11,5		26,1	61	25	46			
IM32810-24-24	38	- 24	1.1/2"	1.1/2" - 11,5		32,1	62,5	26	50			
IM32810-32-32	51	- 32	2"	2" - 11		42	67	26,5	70			
IM32810-40-40	63	- 40	2.1/2"	2.1/2" - 8		51,5	94,5	43	80			
IM32810-48-48	76	- 48	3"	3" - 8		62,5	123,5	51,5	100			

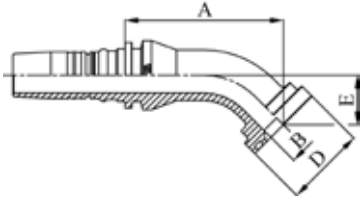


SAE STANDARD CONNECTIONS

IM43310

ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3 (STAINLESS STEEL)

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D				
IM43310-12-12	19	- 12	3/4"	3/4"		16	60	38				
IM43310-16-16	25	- 16	1"	1"		20	66,5	44,6				
IM43310-20-20	31	- 20	1.1/4"	1.1/4"		26,1	75	51				
IM43310-24-24	38	- 24	1.1/2"	1.1/2"		32,1	80,5	60,5				
IM43310-32-32	51	- 32	2"	2"		42	83	71,6				

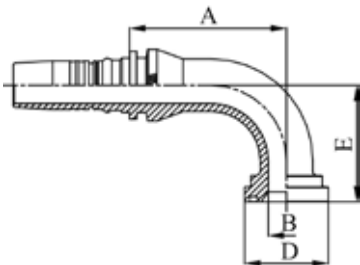


SAE STANDARD CONNECTIONS

IM43340

45° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3 (STAINLESS STEEL)

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	E			
IM43340-12-12	19	- 12	3/4"	3/4"	16	75,5	38	23				
IM43340-16-16	25	- 16	1"	1"	20	87	44,6	27,3				
IM43340-20-20	31	- 20	1.1/4"	1.1/4"	26,1	100,5	51	29,5				
IM43340-24-24	38	- 24	1.1/2"	1.1/2"	32,1	111	60,5	34,5				
IM43340-32-32	51	- 32	2"	2"	42	128,5	71,6	39				

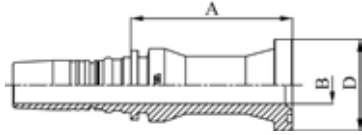


SAE STANDARD CONNECTIONS

IM43390

90° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3 (STAINLESS STEEL)

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	E			
IM43390-12-12	19	- 12	3/4"	3/4"	16	72	38	52				
IM43390-16-16	25	- 16	1"	1"	20	83,5	44,6	62				
IM43390-20-20	31	- 20	1.1/4"	1.1/4"	26,1	99	51	70				
IM43390-24-24	38	- 24	1.1/2"	1.1/2"	32,1	111,5	60,5	84				
IM43390-32-32	51	- 32	2"	2"	42	133,5	71,6	99				



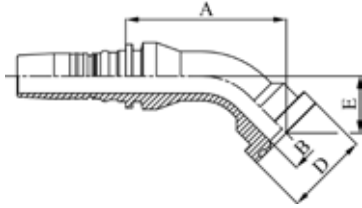
SAE STANDARD CONNECTIONS

IM43610

ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3 (STAINLESS STEEL)

PART. REF.	HOSE BORE			Flange		DIMENSIONS mm						
	DN	Dash	inch	Inch		B	A	D				
IM43610-10-12	16	- 10	5/8"	3/4"		16	65	41,5				
IM43610-10-16	16	- 10	5/8"	1"		20	81,5	47,7				
IM43610-12-12	19	- 12	3/4"	3/4"		16	71,5	41,4				
IM43610-12-16	19	- 12	3/4"	1"		20	83,5	47,7				
IM43610-16-12	25	- 16	1"	3/4"		16	80,3	41,4				
IM43610-16-16	25	- 16	1"	1"		20	84,5	47,7				
IM43610-16-20	25	- 16	1"	1.1/4"		26	89	54,2				
IM43610-20-16	31	- 20	1.1/4"	1"		20	87	47,7				
IM43610-20-20	31	- 20	1.1/4"	1.1/4"		26,1	91	54,2				
IM43610-20-24	31	- 20	1.1/4"	1.1/2"		32,1	97	63,7				
IM43610-24-20	38	- 24	1.1/2"	1.1/4"		26	101	54,2				
IM43610-24-24	38	- 24	1.1/2"	1.1/2"		32,1	97,5	63,7				
IM43610-24-32	38	- 24	1.1/2"	2"		42	113	79,6				
IM43610-32-24	51	- 32	2"	1.1/2"		32,1	117	63,7				
IM43610-32-32	51	- 32	2"	2"		42	113	79,6				
IM43610-40-40	63	- 40	2.1/2"	2.1/2"		51,5	126,5	107,9				
IM43610-48-48	76	- 48	3"	3"		62,5	167	131,9				

FITTINGS
 F 3-42

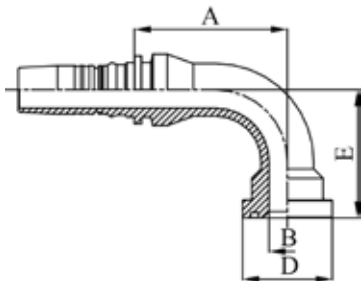


SAE STANDARD CONNECTIONS

IM43640

45° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3 (STAINLESS STEEL)

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	E			
IM43640-12-12	19	- 12	3/4"	3/4"	16	81	41,4	28				
IM43640-16-16	25	- 16	1"	1"	20	91,5	47,7	32,5				
IM43640-20-20	31	- 20	1.1/4"	1.1/4"	26	108	54,2	37,5				
IM43640-24-24	38	- 24	1.1/2"	1.1/2"	32	124,5	63,7	44				
IM43640-32-32	51	- 32	2"	2"	42	154	79,6	60,5				



SAE STANDARD CONNECTIONS

IM43690

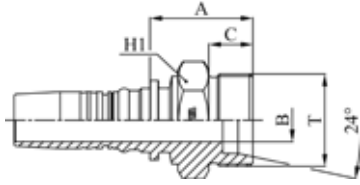
90° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3 (STAINLESS STEEL)

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	E			
IM43690-10-12	16	- 10	5/8"	3/4"	16	57,5	41,4	60,5				
IM43690-12-12	19	- 12	3/4"	3/4"	16	72,4	41,4	59				
IM43690-16-16	25	- 16	1"	1"	20	81	47,7	68				
IM43690-20-20	31	- 20	1.1/4"	1.1/4"	26	98,5	54,2	81				
IM43690-24-24	38	- 24	1.1/2"	1.1/2"	32	112,5	63,7	94,5				
IM43690-32-32	51	- 32	2"	2"	42	140,5	79,6	132				

DIN STANDARD CONNECTIONS

IM31210

METRIC MALE 24° CONE SEAT HEAVY DUTY - DIN 20066 / ISO 12151-2 (STAINLESS STEEL)

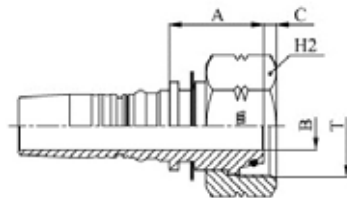


PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	H1	
IM31210-10-30	16	- 10	5/8"	M 30x2	20	12	37	16	30			
IM31210-12-36	19	- 12	3/4"	M 36x2	25	14,5	43,5	18	36			
IM31210-16-42	25	- 16	1"	M 42x2	30	19,5	46,8	20	46			
IM31210-20-52	31	- 20	1.1/4"	M 52x2	38	25	55	22	55			

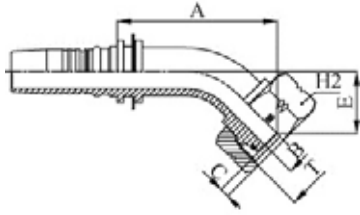
DIN STANDARD CONNECTIONS

IM41613

METRIC O-RING FEMALE 24° CONE HEAVY DUTY - DIN 20066 / ISO 12151-2 (STAINLESS STEEL)



PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	H2	
IM41613-10-30	16	- 10	5/8"	M 30x2	20	12	37	3,5	36			
IM41613-12-36	19	- 12	3/4"	M 36x2	25	14,5	42	3,4	41			
IM41613-16-42	25	- 16	1"	M 42x2	30	19,5	46,5	5,3	50			
IM41613-20-52	31	- 20	1.1/4"	M 52x2	38	26,1	41,5	8	60			

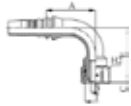


DIN STANDARD CONNECTIONS

IM41643

**45° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY
DIN 20066 / ISO 12151-2 (STAINLESS STEEL)**

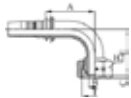
PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	E	H2
IM41643-10-30	16	- 10	5/8"	M 30x2	20	12	66,5	3,5	29,5	36		
IM41643-12-36	19	- 12	3/4"	M 36x2	25	14,5	81	3,4	33,5	41		
IM41643-16-42	25	- 16	1"	M 42x2	30	19,5	93	5,3	36	50		
IM41643-20-52	31	- 20	1.1/4"	M 52x2	38	26,1	110	8	40	60		



DIN STANDARD CONNECTIONS

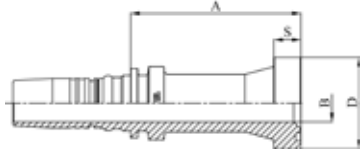
IM41692/IM41693

**90° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY
DIN 20066 / ISO 12151-2 (STAINLESS STEEL)**



PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	E	H2
IM41693-10-30	16	- 10	5/8"	M 30x2	20	12	52,5	3,5	57,5	36		
IM41693-12-36	19	- 12	3/4"	M 36x2	25	14,5	67	3,4	67,5	41		
IM41693-16-42	25	- 16	1"	M 42x2	30	19,5	81,5	5,3	75,5	50		
IM41692-20-42	31	- 20	1.1/4"	M 42x2	30	19,1	103,5	6,1	90	50		
IM41693-20-52	31	- 20	1.1/4"	M 52x2	38	26	100	8	86,5	60		

M41692: THRUST-WIRE NUT - M41693: SLIP-ON NUT



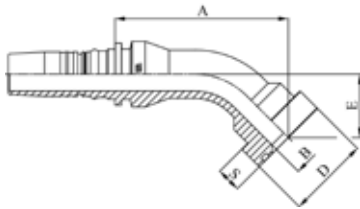
ORIGINAL EQUIPMENT CONNECTIONS

IM43910

STRAIGHT SUPERCAT SERIES FLANGE (STAINLESS STEEL)

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	S			
IM43910-12-12	19	- 12	3/4"	3/4"		16	77	41,5	14,3			
IM43910-16-16	25	- 16	1"	1"		20	89,5	47,7	14,3			
IM43910-20-20	31	- 20	1.1/4"	1.1/4"		26	95	54	14,3			
IM43910-24-24	38	- 24	1.1/2"	1.1/2"		32,1	99	63,6	14,3			
IM43910-32-32	51	- 32	2"	2"		42	114	79,3	14,3			

FITTINGS
F 3-46



ORIGINAL EQUIPMENT CONNECTIONS

IM43940

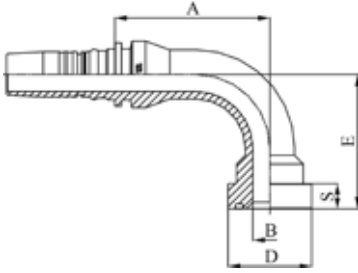
45° SUPERCAT SERIES FLANGE (STAINLESS STEEL)

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	E	S		
IM43940-12-12	19	- 12	3/4"	3/4"		16	85	41,5	32	14,3		
IM43940-16-16	25	- 16	1"	1"		20	100,5	47,7	36,5	14,3		
IM43940-20-20	31	- 20	1.1/4"	1.1/4"		26,1	110,5	54	40,5	14,3		
IM43940-24-24	38	- 24	1.1/2"	1.1/2"		32	125,5	63,7	45,5	14,3		
IM43940-32-32	51	- 32	2"	2"		42	158,5	79,3	61,5	14,3		

ORIGINAL EQUIPMENT CONNECTIONS

IM43990

90° SUPERCAT SERIES FLANGE (STAINLESS STEEL)



PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	S	
IM43990-12-12	19	- 12	3/4"	3/4"	16	72,5	41,5	64,5	14,3		
IM43990-16-16	25	- 16	1"	1"	20	88,5	47,7	76,5	14,3		
IM43990-20-20	31	- 20	1.1/4"	1.1/4"	26,1	98,5	54	85	14,3		
IM43990-24-24	38	- 24	1.1/2"	1.1/2"	32	112,5	63,7	96	14,3		
IM43990-32-32	51	- 32	2"	2"	42	144	79,3	133,5	14,3		



INTERLOCK SUPER

FITTING CODE	SECTION	PAGE
JO29 IS	4	2
M02700	4	1
M02800	4	1
MB3610	4	2
MB8510	4	2

INTERLOCK SUPER

DN	5	6	8	10	12	16	19	25	31	38	51	60	63	76	89	102
Inch	$\frac{3}{16}$ "	$\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	2"	$2\frac{3}{8}$ "	$2\frac{1}{2}$ "	3"	$3\frac{1}{2}$ "	4"
Size	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	-38	-40	-48	-56	-64

FERRULES

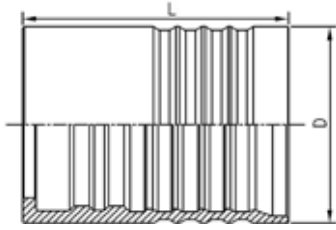
M02700																
M02800																

FITTINGS

SAE FLANGE CODE 62																
XTRAFLANGE																

FITTINGS
F 4-11

FERRULE

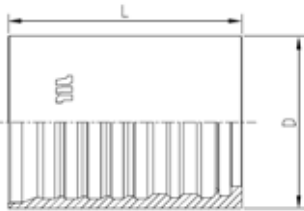


M02700

DOUBLE SKIVE FERRULE EXD.8WS

PART. REF.	HOSE BORE			DIMENSIONS mm							
	DN	Dash	inch			D	L				
M02700-48	76	- 48	3"			122	165				

FERRULE

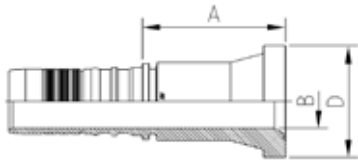


M02800

DOUBLE SKIVE FERRULE FOR HEAVY DUTY SPIRAL HOSES (8 PLY)

PART. REF.	HOSE BORE			DIMENSIONS mm							
	DN	Dash	inch			D	L				
M02800-48	76	- 48	3"			122	165				
M02800-56	89	- 56	3.1/2"			149	236,7				

SAE STANDARD CONNECTIONS

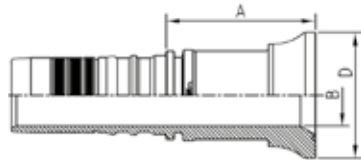


MB3610

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

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D				
MB3610-48-48	76	- 48	3"	3"	62,5	169	131,9					

XTRAFRANGE

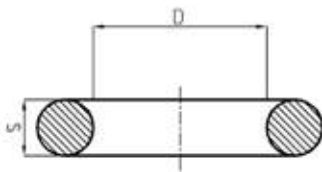


MB8510

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

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D				
MB8510-48-48	76	- 48	3"	3"	62,5	152	128					

O-RING



JO29

INTERLOCK SUPER O-RING

PART. REF.	HOSE BORE			DIMENSIONS mm							
	DN	Dash	inch	D	S						
JO29757026	76	- 48	3"	69,5	2,6						
JO29878226	89	- 56	3.1/2"	82,2	2,6						
JO291029535	102	- 64	4"	94,8	3,5						



XTRALOCK

FITTING CODE	SECTION	PAGE
M01750	5	1
M01800	5	1
M52810-M57810	5	2
M53510	5	2
M68510	5	4
M68540	5	5
M68590	5	5
M68610	5	3
M68640	5	4
M68690	5	3

XTRALOCK

DN	5	6	8	10	12	16	19	25	31	38	51	60	63	76	89	102
Inch	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	2 3/8"	2 1/2"	3"	3 1/2"	4"
Size	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	-38	-40	-48	-56	-64

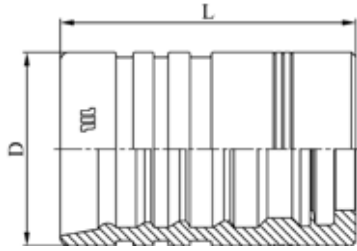
FERRULES

M01750																	
M01800																	

FITTINGS

SAE (NPTF-NPSM)																	
SAE FLANGE CODE 62																	
XTRAFLLANGE																	

FITTINGS F 5-11

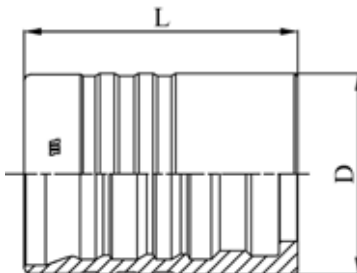


FERRULE

M01750

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

PART. REF.	HOSE BORE			DIMENSIONS mm							
	DN	Dash	inch			D	L				
M01750-12	19	- 12	3/4"			45,1	69				



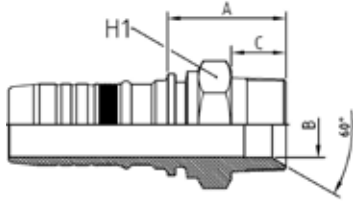
FERRULE

M01800

DOUBLE SKIVE FERRULE FOR EXTRA DUTY SPIRAL HOSES (6 PLY)

PART. REF.	HOSE BORE			DIMENSIONS mm							
	DN	Dash	inch			D	L				
M01800-16	25	- 16	1"			53,5	69				
M01800-24	38	- 24	1.1/2"			73	97,8				

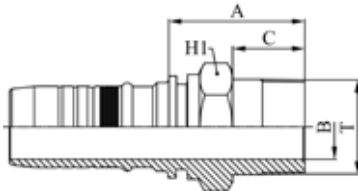
SAE STANDARD CONNECTION



M52810/M57810

NPTF MALE 60° CONE SEAT - SAE J516/J514 ANSI B1.20.3

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C			
M52810-12-12	19	- 12	3/4"	3/4" - 14		15	49,4	21	32			
M57810-16-16	25	- 16	1"	1" - 11		19	60,4	24,2	41			
M57810-20-20	31	- 20	1.1/4"	1.1/4" - 11		26,1	63,9	28	46			
M57810-24-24	38	- 24	1.1/2"	1.1/2" - 11		32,1	70,4	30	55			
M57810-32-32	51	- 32	2"	2" - 11		42	75,5	35	70			
M57810-40-40	63	- 40	2.1/2"	2.1/2" - 8		55,4	94,7	43	80			
M57810-48-48	76	- 48	3"	3" - 8		62,5	123,5	51,5	100			

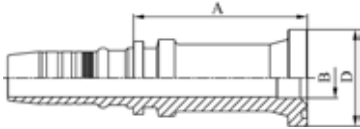


SAE STANDARD CONNECTIONS

M53510

NPT MALE - ANSI B1.20.1

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C			
M53510-32-32	51	- 32	2"	2" - 11,5		41	119,5	55	70			
M53510-40-40	63	- 40	2.1/2"	2.1/2" - 8		51,5	135	63	80			
M53510-48-48	76	- 48	3"	3" - 8		62,5	143,5	71,5	100			

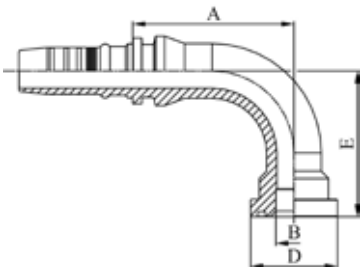


SAE STANDARD CONNECTIONS

M68610

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

PART. REF.	HOSE BORE			Flange		DIMENSIONS mm						
	DN	Dash	inch	Inch		B	A	D				
M68610-12-12	19	- 12	3/4"	3/4"		16	74	41,4				
M68610-12-16	19	- 12	3/4"	1"		20	85,5	47,7				
M68610-16-16	25	- 16	1"	1"		20	85	47,7				
M68610-20-20	31	- 20	1.1/4"	1.1/4"		26,1	91	54,2				
M68610-24-24	38	- 24	1.1/2"	1.1/2"		32,1	97,5	63,7				
M68610-32-32	51	- 32	2"	2"		42	112,5	79,6				
M68610-32-40	51	- 32	2"	2.1/2"		51,5	124	107,8				
M68610-40-32	63	- 40	2.1/2"	2"		41	115	79,6				
M68610-40-40	63	- 40	2.1/2"	2.1/2"		51,5	126,5	107,9				
M68610-48-48	76	- 48	3"	3"		62,5	167	131,9				



SAE STANDARD CONNECTIONS

M68690

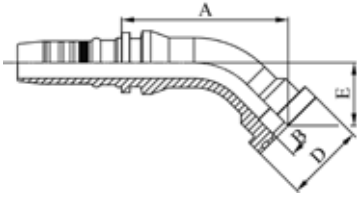
90° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			Flange		DIMENSIONS mm						
	DN	Dash	inch	Inch		B	A	D	E			
M68690-12-12	19	- 12	3/4"	3/4"		16	75	41,4	59			
M68690-16-16	25	- 16	1"	1"		20	87	47,7	80			
M68690-20-20	31	- 20	1.1/4"	1.1/4"		24	110	54,2	93			
M68690-24-24	38	- 24	1.1/2"	1.1/2"		30,5	124,5	63,7	109,5			
M68690-32-32	51	- 32	2"	2"		42	148	79,6	135,5			

SAE STANDARD CONNECTIONS

M68640

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

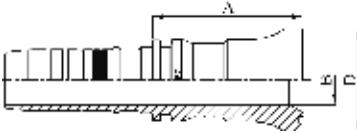


PART. REF.	HOSE BORE			Flange		DIMENSIONS mm					
	DN	Dash	inch	Inch	B	A	D	E			
M68640-12-16	19	- 12	3/4"	1"	20	88	47,7	32			
M68640-16-16	25	- 16	1"	1"	20	98,5	47,7	38			
M68640-20-20	31	- 20	1.1/4"	1.1/4"	24	121,5	54,2	43,5			
M68640-24-24	38	- 24	1.1/2"	1.1/2"	30,5	136	63,7	50			
M68640-32-32	51	- 32	2"	2"	42	160	79,6	61			

XTRAFRANGE

M68510

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

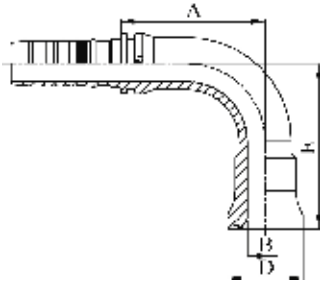


PART. REF.	HOSE BORE			Flange		DIMENSIONS mm					
	DN	Dash	inch	Inch	B	A	D				
M68510-16-16	25	- 16	1"	1"	20	69,5	47,7				
M68510-20-20	31	- 20	1.1/4"	1.1/4"	24	88	54,4				
M68510-20-24	31	- 20	1.1/4"	1.1/2"	30,5	100	63,7				
M68510-24-24	38	- 24	1.1/2"	1.1/2"	30,5	102	63,7				
M68510-32-32	51	- 32	2"	2"	41	129	79,6				
M68510-40-40	63	- 40	2.1/2"	2.1/2"	51,5	149	99,2				

XTRAFLANGE

M68590

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

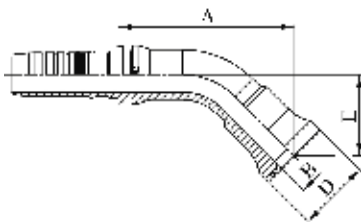


PART. REF.	HOSE BORE			Flange		DIMENSIONS mm						
	DN	Dash	inch	Inch		B	A	D	E			
M68590-16-16	25	- 16	1"	1"		20	84	47,7	90			
M68590-20-20	31	- 20	1.1/4"	1.1/4"		24	107	54,4	120			
M68590-24-24	38	- 24	1.1/2"	1.1/2"		30,5	122	63,7	140			
M68590-24-32	38	- 24	1.1/2"	2"		39	122	79,6	170			
M68590-32-32	51	- 32	2"	2"		39	147,5	79,6	178			

XTRAFLANGE

M68540

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



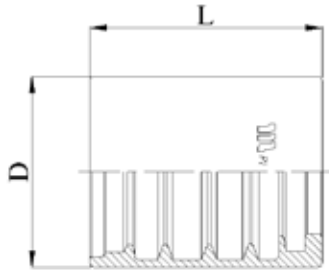
PART. REF.	HOSE BORE			Flange		DIMENSIONS mm						
	DN	Dash	inch	Inch		B	A	D	E			
M68540-16-16	25	- 16	1"	1"		20	103	47,7	45			
M68540-20-20	31	- 20	1.1/4"	1.1/4"		24	138	54,4	62,5			
M68540-24-24	38	- 24	1.1/2"	1.1/2"		30,5	155	63,7	71,5			
M68540-24-32	38	- 24	1.1/2"	2"		39	176,5	79,6	93			
M68540-32-32	51	- 32	2"	2"		39	193,5	79,6	92,5			



SPIRALFIT

FITTING CODE	SECTION	PAGE
M05400	6	1
M05500	6	1
M70050	6	26
M70510	6	2
M71210	6	17
M72410	6	6
M72510	6	4
M72810	6	9
M73010	6	9
M80812	6	2
M80842	6	3
M80892	6	3
M81612	6	17
M81642-M81643	6	18
M81692-M81693	6	18
M82412	6	7
M82442	6	8
M82492	6	7
M82542	6	5
M82592	6	5
M82712	6	4
M83301P	6	16
M83311	6	10
M83321	6	10
M83331	6	11
M83341	6	11

FITTING CODE	SECTION	PAGE
M83361	6	12
M83371	6	12
M83391	6	13
M83611	6	14
M83631	6	14
M83641	6	15
M83661	6	15
M83691	6	16
M83711	6	19
M83741	6	19
M83791	6	19
M83911	6	20
M83921	6	20
M83931	6	21
M83941	6	21
M83961	6	22
M83971	6	22
M83991	6	23
M83991 LONG DROP	6	23
M84492	6	8
M84792	6	6
M88511	6	24
M88541	6	24
M88591	6	25
M89510WL	6	25

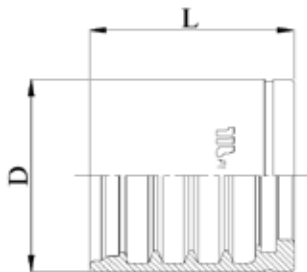


FERRULE

M05400

NO-SKIVE FERRULE FOR HEAVY DUTY SPIRAL HOSES (4 PLY)

PART. REF.	HOSE BORE			DIMENSIONS mm								
	DN	Dash	inch			D	L					
M05400-10	16	- 10	5/8"			40	44,3					
M05400-12	19	- 12	3/4"			43,8	53,3					
M05400-16	25	- 16	1"			52	64,3					
M05400-20	31	- 20	1.1/4"			59,3	72					
M05400-24	38	- 24	1.1/2"			68,5	78					
M05400-32	51	- 32	2"			84,6	97,1					
M05400-40	63	- 40	2.1/2"			97	116					
M05400-48	76	- 48	3"			109,8	124					
M05400-56	89	- 56	3.1/2"			127,7	123,5					
M05400-64	102	- 64	4"			145	126,5					



FERRULE

M05500

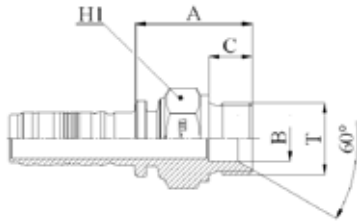
NO-SKIVE FERRULE FOR HEAVY DUTY SPIRAL HOSES (4-6 PLY)

PART. REF.	HOSE BORE			DIMENSIONS mm								
	DN	Dash	inch			D	L					
M05500-20	31	- 20	1.1/4"			66	70					
M05500-24	38	- 24	1.1/2"			75	79					
M05500-32	51	- 32	2"			90	98,1					

BS STANDARD CONNECTIONS

M70510

BSP MALE PARALLEL 60° CONE SEAT - BS5200 / ISO 12151-6

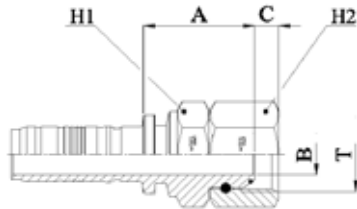


PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	H1		
M70510-12-12	19	- 12	3/4"	3/4" - 14		16,8	43,5	16	32			
M70510-12-16	19	- 12	3/4"	1" - 11		22,2	49,5	19	41			
M70510-16-16	25	- 16	1"	1" - 11		22,2	51	19	41			
M70510-16-20	25	- 16	1"	1.1/4" - 11		28,5	56	20	50			
M70510-20-20	31	- 20	1.1/4"	1.1/4" - 11		28,5	56,5	20	50			
M70510-24-24	38	- 24	1.1/2"	1.1/2" - 11		33,5	60,5	22	55			
M70510-32-32	51	- 32	2"	2" - 11		42	64	25	70			

BS STANDARD CONNECTIONS

M80812

BSP O-RING FEMALE 60° CONE - BS5200 / ISO 12151-6

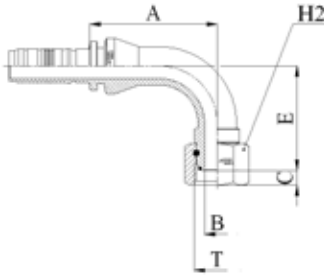


PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	H1	H2	
M80812-12-12	19	- 12	3/4"	3/4" - 14		14,5	39,5	8,5	32	32		
M80812-12-16	19	- 12	3/4"	1" - 11		19,5	44	10,6	41	41		
M80812-16-12	25	- 16	1"	3/4" - 14		15	44,5	8,5	41	32		
M80812-16-16	25	- 16	1"	1" - 11		19,5	45,5	10,6	41	41		
M80812-16-20	25	- 16	1"	1.1/4" - 11		26,1	50,5	10,5	50	50		
M80812-20-16	31	- 20	1.1/4"	1" - 11		19	48	10,6	50	41		
M80812-20-20	31	- 20	1.1/4"	1.1/4" - 11		26,1	50,5	10,5	50	50		
M80812-20-24	31	- 20	1.1/4"	1.1/2" - 11		32,1	50	12,5	50	60		
M80812-24-20	38	- 24	1.1/2"	1.1/4" - 11		26,1	52	10,5	55	50		
M80812-24-24	38	- 24	1.1/2"	1.1/2" - 11		32,1	52	12,5	60	60		
M80812-32-32	51	- 32	2"	2" - 11		42	53,5	16,1	70	70		

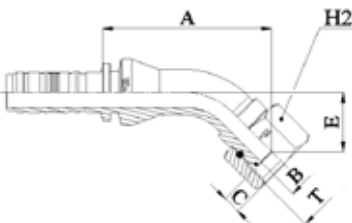
BS STANDARD CONNECTIONS

M80892

90° BSP O-RING FEMALE SWEPT ELBOW 60° CONE - BS5200 / ISO 12151-6



PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M80892-12-12	19	- 12	3/4"	3/4" - 14		14,5	73,5	8,5	60	32		
M80892-12-12050	19	- 12	3/4"	3/4" - 14		14,5	67,5	8,5	50	32		
M80892-12-16	19	- 12	3/4"	1" - 11		19,5	73,5	10,6	62	41		
M80892-16-12	25	- 16	1"	3/4" - 14		15	90	8,5	70	32		
M80892-16-16	25	- 16	1"	1" - 11		19,5	83	10,6	76	41		
M80892-16-16058	25	- 16	1"	1" - 11		19,5	74,5	10,6	58,5	41		
M80892-16-20	25	- 16	1"	1.1/4" - 11		26,1	96	10,5	78,5	50		
M80892-20-16	31	- 20	1.1/4"	1" - 11		19,5	90	10,6	76	41		
M80892-20-20	31	- 20	1.1/4"	1.1/4" - 11		26	88	10,5	83,5	50		
M80892-20-24	31	- 20	1.1/4"	1.1/2" - 11		32	88	12,5	92	60		
M80892-24-24	38	- 24	1.1/2"	1.1/2" - 11		32	103	12,5	98,5	60		
M80892-32-32	51	- 32	2"	2" - 11		42	135,9	16,1	140,5	70		



BS STANDARD CONNECTIONS

M80842

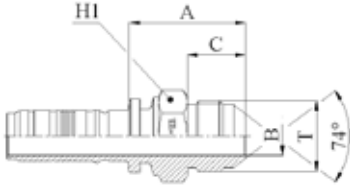
45° BSP O-RING FEMALE SWEPT ELBOW 60° CONE BS5200 / ISO 12151-6

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M80842-12-12	19	- 12	3/4"	3/4" - 14		14,5	82,5	8,5	29	32		
M80842-12-16	19	- 12	3/4"	1" - 11		19,5	84	10,6	30	41		
M80842-16-12	25	- 16	1"	3/4" - 14		15	106,5	8,5	36	32		
M80842-16-16	25	- 16	1"	1" - 11		19,5	95	10,6	36,5	41		
M80842-16-16028	25	- 16	1"	1" - 11		19,5	84	10,6	28	41		
M80842-16-20	25	- 16	1"	1.1/4" - 11		26,1	109,5	10,5	38	50		
M80842-20-16	31	- 20	1.1/4"	1" - 11		19,5	102	10,6	36,5	41		
M80842-20-20	31	- 20	1.1/4"	1.1/4" - 11		26	99	10,5	39	50		
M80842-20-24	31	- 20	1.1/4"	1.1/2" - 11		32	114	12,5	54	60		
M80842-24-24	38	- 24	1.1/2"	1.1/2" - 11		32	112,5	12,5	45	60		
M80842-32-32	51	- 32	2"	2" - 11		42	155	16,1	66	70		

SAE STANDARD CONNECTIONS

M72510

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

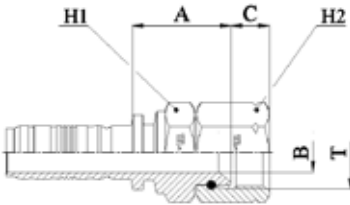


PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	H1			
M72510-12-12	19	- 12	3/4"	1.1/16" - 12		14,5	44,5	22	30			
M72510-16-16	25	- 16	1"	1.5/16" - 12		19,5	51,5	23	38			
M72510-20-20	31	- 20	1.1/4"	1.5/8" - 12		26,1	56	24,3	46			
M72510-24-24	38	- 24	1.1/2"	1.7/8" - 12		32,1	60	27,5	50			
M72510-32-32	51	- 32	2"	2.1/2" - 12		42	75,5	34	65			

SAE STANDARD CONNECTIONS

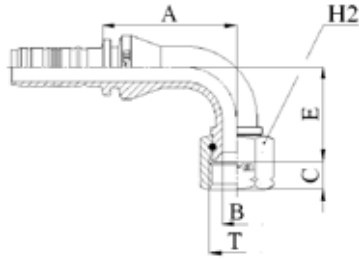
M82712

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



PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	H1	H2		
M82712-12-12	19	- 12	3/4"	1.1/16" - 12		14,5	36,5	14,2	32	32		
M82712-12-16	19	- 12	3/4"	1.5/16" - 12		19,5	36,5	15,2	32	41		
M82712-16-16	25	- 16	1"	1.5/16" - 12		19,5	41,5	15,2	41	41		
M82712-16-20	25	- 16	1"	1.5/8" - 12		26,1	46,5	16,2	41	50		
M82712-20-20	31	- 20	1.1/4"	1.5/8" - 12		26,1	51,5	16,2	50	50		
M82712-20-24	31	- 20	1.1/4"	1.7/8" - 12		32	54,5	18,8	55	60		
M82712-24-24	38	- 24	1.1/2"	1.7/8" - 12		32,1	54,5	18,8	55	60		
M82712-32-32	51	- 32	2"	2.1/2" - 12		42	56	24	65	75		

SAE STANDARD CONNECTIONS

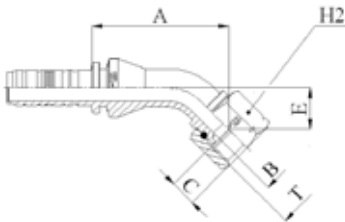


M82592

90° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E		
M82592-12-12	19	- 12	3/4"	1.1/16" - 12		14,5	67,5	14,2	47,5	32		
M82592-12-16	19	- 12	3/4"	1.5/16" - 12		19,8	73,5	15,2	57,5	41		
M82592-16-12	25	- 16	1"	1.1/16" - 12		14,5	76,5	14,2	47,5	32		
M82592-16-16	25	- 16	1"	1.5/16" - 12		19,5	74,5	15,2	55,5	41		
M82592-20-20	31	- 20	1.1/4"	1.5/8" - 12		26	88	16,2	86,5	50		
M82592-20-24	31	- 20	1.1/4"	1.7/8" - 12		32	88	18,8	90,5	60		
M82592-24-24	38	- 24	1.1/2"	1.7/8" - 12		32,1	105	18,8	101	60		
M82592-32-32	51	- 32	2"	2.1/2" - 12		42	145	24	139	75		

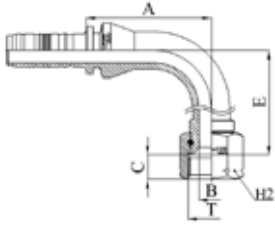
SAE STANDARD CONNECTIONS



M82542

45° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E		
M82542-12-12	19	- 12	3/4"	1.1/16" - 12		14,5	75	14,2	22,5	32		
M82542-16-16	25	- 16	1"	1.5/16" - 12		19,5	81,5	15,2	26	41		
M82542-20-20	31	- 20	1.1/4"	1.5/8" - 12		26	101	16,2	41,5	50		
M82542-24-24	38	- 24	1.1/2"	1.7/8" - 12		32,1	121,5	18,8	48,5	60		
M82542-32-32	51	- 32	2"	2.1/2" - 12		42	162	24	63,5	75		



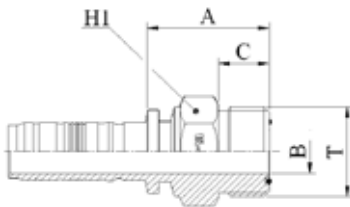
SAE STANDARD CONNECTIONS

M84792

90° JIC FEMALE LONG DROP ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M84792-12-12	19	- 12	3/4"	1.1/16" - 12		14,5	73,5	14,2	94,5	32		
M84792-16-16	25	- 16	1"	1.5/16" - 12		19,5	81	15,2	114	41		
M84792-20-20	31	- 20	1.1/4"	1.5/8" - 12		26	88	16,2	129	50		
M84792-24-24	38	- 24	1.1/2"	1.7/8" - 12		32,1	105	18,8	141	60		
M84792-32-32	38	- 24	1.1/2"	2.1/2" - 12		42	145	24	222	75		

FITTINGS F 66



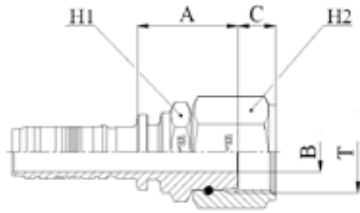
SAE STANDARD CONNECTIONS

M72410

ORFS MALE - SAE J516 / ISO 12151-1

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm					
	DN	Dash	inch			T	B	A	C	H1	
M72410-12-12	19	- 12	3/4"	1.3/16" - 12		14,5	41	17	32		
M72410-16-16	25	- 16	1"	1.7/16" - 12		19,5	46	17,5	41		
M72410-20-20	31	- 20	1.1/4"	1.11/16" - 12		26	50,5	17,5	46		
M72410-24-24	38	- 24	1.1/2"	2" - 12		32	53	17,5	55		

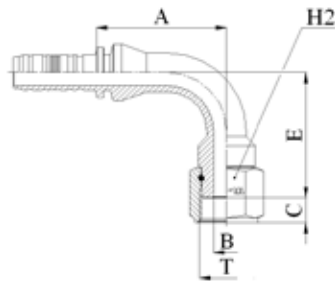
SAE STANDARD CONNECTIONS



M82412

ORFS FEMALE SAE J516/ISO 12151.1

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	H1	H2	
M82412-12-12	19	- 12	3/4"	1.3/16" - 12		14,5	38	14,1	32	36		
M82412-12-16	19	- 12	3/4"	1.7/16" - 12		19,5	42	15	41	46		
M82412-16-16	25	- 16	1"	1.7/16" - 12		19,5	43	15	41	46		
M82412-20-20	31	- 20	1.1/4"	1.11/16" - 12		25	52,5	15,1	50	55		
M82412-24-24	38	- 24	1.1/2"	2" - 12		30,5	55	15	60	60		

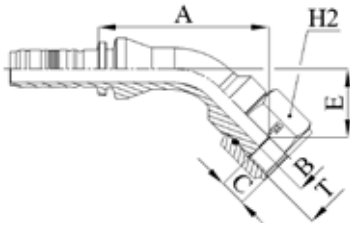


SAE STANDARD CONNECTIONS

M82492

90° ORFS FEMALE SWEPT ELBOW SAE J516/ISO 12151-1

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M82492-12-12	19	- 12	3/4"	1.3/16" - 12		14,5	73,5	14,1	70,5	36		
M82492-12-16	19	- 12	3/4"	1.7/16" - 12		19,5	86	15	71	46		
M82492-16-12	25	- 16	1"	1.3/16" - 12		14,5	89,5	14,1	70,5	36		
M82492-16-16	25	- 16	1"	1.7/16" - 12		19,5	83	15	84,5	46		
M82492-20-20	31	- 20	1.1/4"	1.11/16" - 12		25	99	15,1	98	55		
M82492-24-24	38	- 24	1.1/2"	2" - 12		32	105	15	104	60		



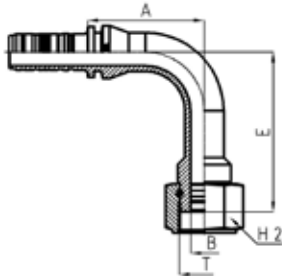
SAE STANDARD CONNECTIONS

M82442

45° ORFS FEMALE SWEPT ELBOW SAE J516/ISO 12151-1

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M82442-12-12	19	- 12	3/4"	1.3/16" - 12		14,5	90	14,1	36	36		
M82442-12-16	19	- 12	3/4"	1.7/16" - 12		19,5	90,5	15	36,5	46		
M82442-16-16	25	- 16	1"	1.7/16" - 12		19,5	101	15	42,5	46		
M82442-20-20	31	- 20	1.1/4"	1.11/16" - 12		25	120	15,1	49,5	55		
M82442-24-24	38	- 24	1.1/2"	2" - 12		32	123,5	15	50,5	60		

FITTINGS F 6-8



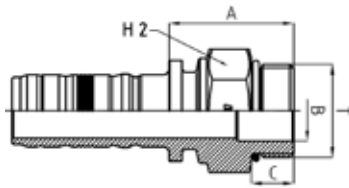
SAE STANDARD CONNECTIONS

M84492

90° ORFS FEMALE LONG DROP ELBOW - SAE J516 / ISO 12151-1
(THURST- WIRE NUT)

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
M84492-12-12	19	- 12	3/4"	1.3/16" - 12		14,5	73,5	14,1	96	36		
M84492-16-16	25	- 16	1"	1.7/16" - 12		19,5	83	15	114	46		
M84492-20-20	31	- 20	1.1/4"	1.11/16" - 12		25	99	15,1	129	55		

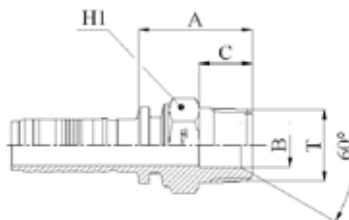
SAE STANDARD CONNECTIONS



M73010

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

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C			
M73010-12-12	19	- 12	3/4"	1.1/16" - 12		15,5	42,5	15,1	32			
M73010-16-16	25	- 16	1"	1.5/16" - 12		21,5	44,5	15,1	38			
M73010-20-20	31	- 20	1.1/4"	1.5/8" - 12		27,5	47,5	15,1	46			

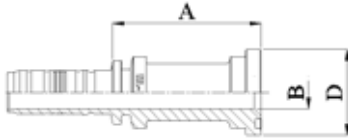


SAE STANDARD CONNECTIONS

M72810

NPTF MALE 60° CONE SEAT - SAE J516/J514

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C			
M72810-12-12	19	- 12	3/4"	3/4" - 14		16	41,5	19,2	30			
M72810-16-16	25	- 16	1"	1" - 11,5		19,5	52	24,2	38			
M72810-20-20	31	- 20	1.1/4"	1.1/4" - 11,5		25	61,5	25	46			
M72810-24-24	38	- 24	1.1/2"	1.1/2" - 11,5		30,5	60,5	26	50			
M72810-32-32	51	- 32	2"	2" - 11,5		41	67,5	26,5	65			
M72810-48-48	76	- 48	3"	3" - 8		62,5	121,5	51,5	100			



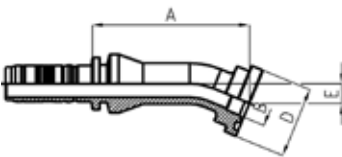
SAE STANDARD CONNECTIONS

M83311

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

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D				
M83311-12-12	19	- 12	3/4"	3/4"		14,5	66,5	38				
M83311-12-16	19	- 12	3/4"	1"		19,5	52,5	44,6				
M83311-16-12	25	- 16	1"	3/4"		14,5	67,5	38				
M83311-16-16	25	- 16	1"	1"		19,5	67,5	44,6				
M83311-16-20	25	- 16	1"	1.1/4"		26	53,5	51				
M83311-20-16	31	- 20	1.1/4"	1"		19,5	69	44,6				
M83311-20-20	31	- 20	1.1/4"	1.1/4"		26	75	51				
M83311-20-24	31	- 20	1.1/4"	1.1/2"		32	60	60,5				
M83311-24-24	38	- 24	1.1/2"	1.1/2"		32	78,5	60,5				
M83311-24-32	38	- 24	1.1/2"	2"		42	60,5	71,6				
M83311-32-32	51	- 32	2"	2"		42	82,5	71,6				
M83311-40-40	63	- 40	2.1/2"	2.1/2"		51,5	93	84,3				
M83311-48-48	76	- 48	3"	3"		62,5	88,5	101,6				
M83311-56-56	89	- 56	3.1/2"	3.1/2"		76	98,5	114,3				
M83311-64-64	102	- 64	4"	4"		89	105	127				

SAE STANDARD CONNECTIONS

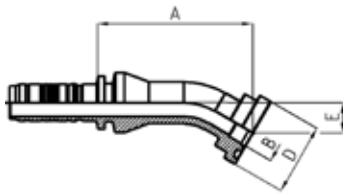


M83321

22,5° ISO/SAE CODE 61 FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	E			
M83321-12-12	19	- 12	3/4"	3/4"		16	84,5	38	11			
M83321-16-16	25	- 16	1"	1"		19,5	93	44,6	14			
M83321-16-20	25	- 16	1"	1.1/4"		26	101	51	15			
M83321-20-20	31	- 20	1.1/4"	1.1/4"		26	94,5	51	15			
M83321-24-24	38	- 24	1.1/2"	1.1/2"		32	112,5	60,5	18			
M83321-32-32	51	- 32	2"	2"		42	158	71,6	22			

SAE STANDARD CONNECTIONS

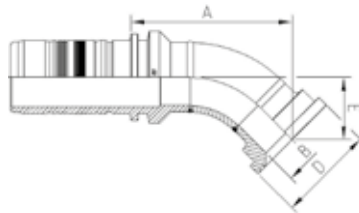


M83331

30° ISO/SAE CODE 61 FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		B	A	D	E			
M83331-12-12	19	- 12	3/4"	3/4"	16	82,5	38	16			
M83331-12-16	19	- 12	3/4"	1"	19,5	83,5	44,6	19			
M83331-16-16	25	- 16	1"	1"	19,5	91,1	44,6	19			
M83331-24-24	38	- 24	1.1/2"	1.1/2"	32	109,5	60,5	25			
M83331-24-32	38	- 24	1.1/2"	2"	42	111,5	71,6	32			
M83331-32-32	51	- 32	2"	2"	42	154	71,6	32			

SAE STANDARD CONNECTIONS



M83341

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

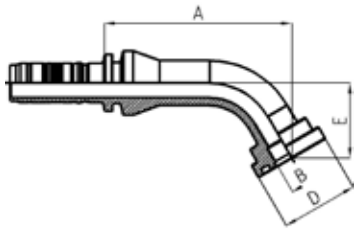
PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		B	A	D	E			
M83341-12-12	19	- 12	3/4"	3/4"	16	78	38	24,5			
M83341-12-16	19	- 12	3/4"	1"	19,5	78	44,6	24,5			
M83341-16-12	25	- 16	1"	3/4"	16	90,5	38	24,5			
M83341-16-16	25	- 16	1"	1"	19,5	86,5	44,6	26,5			
M83341-16-20	25	- 16	1"	1.1/4"	26	92	51	32			
M83341-20-16	31	- 20	1.1/4"	1"	19,5	90,5	44,6	26,5			
M83341-20-20	31	- 20	1.1/4"	1.1/4"	26	87,5	51	29			
M83341-20-24	31	- 20	1.1/4"	1.1/2"	32	88,5	60,5	30			
M83341-24-24	38	- 24	1.1/2"	1.1/2"	32	102,5	60,5	38			
M83341-24-32	38	- 24	1.1/2"	2"	42	102,5	71,6	38			
M83341-32-32	51	- 32	2"	2"	42	143,5	71,6	52			
M83341-40-40	63	- 40	2.1/2"	2.1/2"	49,2	131	84,3	44,5			
M83341-48-48	76	- 48	3"	3"	59	147	101,6	53			
M83341-56-56	89	- 56	3.1/2"	3.1/2"	73,7	169	114,3	68			

All items are made from solid with the exception of M83341-40-40, M83341-48-48 and M83341-56-56

SAE STANDARD CONNECTIONS

M83361

60° ISO/SAE CODE 61 FLANGE

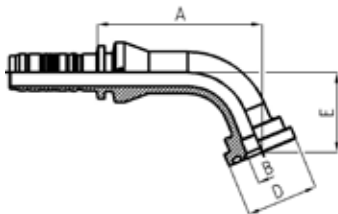


PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	E			
M83361-12-12	19	- 12	3/4"	3/4"		16	92,5	38	37			
M83361-12-16	19	- 12	3/4"	1"		19,5	106,5	44,6	44			
M83361-16-16	25	- 16	1"	1"		19,5	104,3	44,6	44			
M83361-24-24	38	- 24	1.1/2"	1.1/2"		32	129	60,5	53			
M83361-24-32	38	- 24	1.1/2"	2"		42	123	71,6	75			
M83361-32-32	51	- 32	2"	2"		42	188	71,6	75			

SAE STANDARD CONNECTIONS

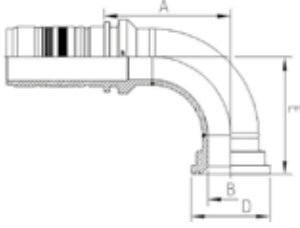
M83371

67,5° ISO/SAE CODE 61 FLANGE



PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	E			
M83371-12-12	19	- 12	3/4"	3/4"		16	87,5	38	42			
M83371-16-16	25	- 16	1"	1"		19,5	97,5	44,6	51			
M83371-24-24	38	- 24	1.1/2"	1.1/2"		32	122	60,5	61			

SAE STANDARD CONNECTIONS



M83391

90° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3

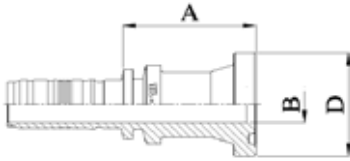
PART. REF.	HOSE BORE			Flange		DIMENSIONS mm						
	DN	Dash	inch			Inch	B	A	D	E		
M83391-12-12	19	- 12	3/4"	3/4"		16	72,5	38	58			
M83391-12-16	19	- 12	3/4"	1"		19,5	72,5	44,6	70			
M83391-12-16054	19	- 12	3/4"	1"		19,5	72,5	44,6	54			
M83391-16-12	25	- 16	1"	3/4"		16	85	38	58			
M83391-16-16	25	- 16	1"	1"		19,5	82	44,6	60			
M83391-16-20	25	- 16	1"	1.1/4"		26	82	51	68			
M83391-20-16	31	- 20	1.1/4"	1"		19,5	86	44,6	60			
M83391-20-20	31	- 20	1.1/4"	1.1/4"		26	85	51	67			
M83391-20-24	31	- 20	1.1/4"	1.1/2"		32	85	60,5	69			
M83391-24-24	38	- 24	1.1/2"	1.1/2"		32	96,5	60,5	81			
M83391-24-32	38	- 24	1.1/2"	2"		42	101,5	71,6	84			
M83391-32-32	51	- 32	2"	2"		42	135,5	71,6	120			
M83391-40-40	63	- 40	2.1/2"	2.1/2"		49,2	128	84,3	118			
M83391-48-48	76	- 48	3"	3"		59	144,5	101,6	140			
M83391-56-56	89	- 56	3.1/2"	3.1/2"		73,7	164	114,3	160			

All items are made from solid with the exception of M83391-40-40, M83391-48-48 and M83391-56-56

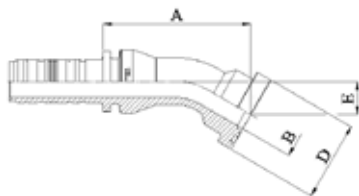
SAE STANDARD CONNECTIONS

M83611

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



PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D				
M83611-12-12	19	- 12	3/4"	3/4"		14,5	53,5	41,4				
M83611-12-16	19	- 12	3/4"	1"		19,5	59,5	47,7				
M83611-16-12	25	- 16	1"	3/4"		16	62,5	41,4				
M83611-16-16	25	- 16	1"	1"		19,5	63,5	47,7				
M83611-16-20	25	- 16	1"	1.1/4"		26	70	54,2				
M83611-20-16	31	- 20	1.1/4"	1"		19,5	62	47,7				
M83611-20-20	31	- 20	1.1/4"	1.1/4"		26	66	54,2				
M83611-20-24	31	- 20	1.1/4"	1.1/2"		32	74,5	63,7				
M83611-24-20	38	- 24	1.1/2"	1.1/4"		26	66,5	54,2				
M83611-24-24	38	- 24	1.1/2"	1.1/2"		32	74,5	63,7				
M83611-24-32	38	- 24	1.1/2"	2"		42	88,5	79,6				
M83611-32-24	51	- 32	2"	1.1/2"		32	91,5	63,7				
M83611-32-32	51	- 32	2"	2"		42	91,5	79,6				

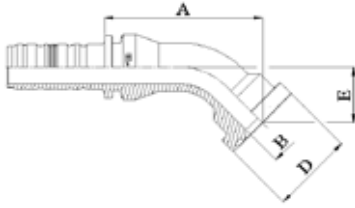


SAE STANDARD CONNECTIONS

M83631

30° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	E			
M83631-12-12	19	- 12	3/4"	3/4"		16	78,5	41,4	17,5			
M83631-16-16	25	- 16	1"	1"		19,5	89	47,7	20			
M83631-20-20	31	- 20	1.1/4"	1.1/4"		26	90,5	54,2	22,5			
M83631-24-24	38	- 24	1.1/2"	1.1/2"		32	104,5	63,7	27			
M83631-32-32	51	- 32	2"	2"		42	139,5	79,6	35			

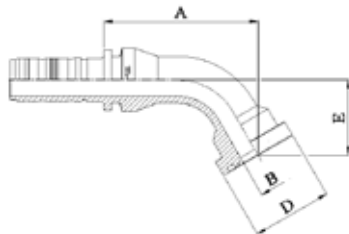


SAE STANDARD CONNECTIONS

M83641

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

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E		
M83641-12-12	19	- 12	3/4"	3/4"	16	81,5	41,4	28			
M83641-12-16	19	- 12	3/4"	1"	19,5	85,5	47,7	32,5			
M83641-16-12	25	- 16	1"	3/4"	16	87,5	41,4	28			
M83641-16-16	25	- 16	1"	1"	19,5	92	47,7	32,5			
M83641-16-20	25	- 16	1"	1.1/4"	26	97	54,2	37			
M83641-20-16	31	- 20	1.1/4"	1"	19,5	95,5	47,7	31,5			
M83641-20-20	31	- 20	1.1/4"	1.1/4"	26	96,5	54,2	38			
M83641-20-24	31	- 20	1.1/4"	1.1/2"	32	104,5	63,7	44,5			
M83641-24-20	38	- 24	1.1/2"	1.1/4"	26	110,5	54,2	38			
M83641-24-24	38	- 24	1.1/2"	1.1/2"	32	109,5	63,7	44			
M83641-24-32	38	- 24	1.1/2"	2"	42	121,5	79,6	56			
M83641-32-32	51	- 32	2"	2"	42	148	79,6	59			



SAE STANDARD CONNECTIONS

M83661

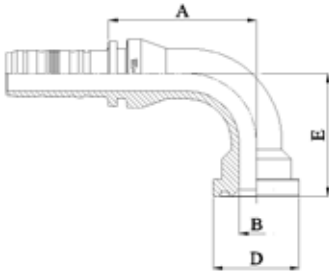
60° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E		
M83661-12-12	19	- 12	3/4"	3/4"	16	81	41,4	39			
M83661-12-16	19	- 12	3/4"	1"	19,5	84	47,7	44			
M83661-16-16	25	- 16	1"	1"	19,5	92	47,7	45			
M83661-20-20	31	- 20	1.1/4"	1.1/4"	26	97,5	54,2	55			
M83661-20-24	31	- 20	1.1/4"	1.1/2"	32	101,5	63,7	62			
M83661-24-24	38	- 24	1.1/2"	1.1/2"	32	110,5	63,7	61,5			
M83661-32-32	51	- 32	2"	2"	42	151	79,6	85			

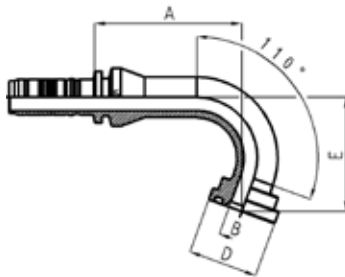
SAE STANDARD CONNECTIONS

M83691

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



PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E		
M83691-12-12	19	- 12	3/4"	3/4"	16	72,5	41,4	59			
M83691-12-16	19	- 12	3/4"	1"	19,5	72,6	47,7	65			
M83691-16-12	25	- 16	1"	3/4"	16	82	41,4	62			
M83691-16-16	25	- 16	1"	1"	19,5	82	47,7	68			
M83691-16-20	25	- 16	1"	1.1/4"	26	82	54,2	90			
M83691-16-20075	25	- 16	1"	1.1/4"	26	82	54,2	75			
M83691-20-16	31	- 20	1.1/4"	1"	19,5	86	47,7	68			
M83691-20-20	31	- 20	1.1/4"	1.1/4"	26	85	54,2	90			
M83691-20-24	31	- 20	1.1/4"	1.1/2"	32	85	63,7	104			
M83691-24-20	38	- 24	1.1/2"	1.1/4"	26	99	54,2	90			
M83691-24-24	38	- 24	1.1/2"	1.1/2"	32	98	63,7	104			
M83691-24-32	38	- 24	1.1/2"	2"	42	98	79,6	138			
M83691-32-32	51	- 32	2"	2"	42	136	79,6	138			



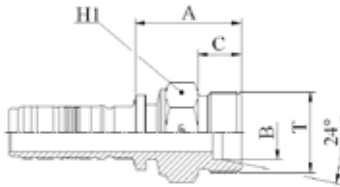
SAE STANDARD CONNECTIONS

M83301...P

110° ISO/SAE CODE 61 FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E		
M83301-12-12P	19	- 12	3/4"	3/4"	16	80	38	62			
M83301-16-16P	25	- 16	1"	1"	19,5	91,5	44,6	79			
M83301-20-20P	31	- 20	1.1/4"	1.1/4"	26	121,5	51	91			
M83301-24-24P	38	- 24	1.1/2"	1.1/2"	32	124,8	60,5	109			
M83301-32-32P	51	- 32	2"	2"	42	146,5	71,6	140			

DIN STANDARD CONNECTIONS

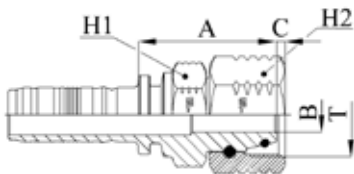


M71210

METRIC MALE 24° CONE SEAT HEAVY DUTY
- DIN 20066 / ISO 12151-2

PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	H1	
M71210-12-30	19	- 12	3/4"	M 30x2	20	14,5	39,5	16	32			
M71210-12-36	19	- 12	3/4"	M 36x2	25	14,5	44,5	18	36			
M71210-16-36	25	- 16	1"	M 36x2	25	19,5	46	18	36			
M71210-16-42	25	- 16	1"	M 42x2	30	19,5	47,5	20	46			
M71210-20-52	31	- 20	1.1/4"	M 52x2	38	25	55	22	55			
M71210-24-52	38	- 24	1.1/2"	M 52x2	38	30,5	55,5	22	55			

DIN STANDARD CONNECTIONS

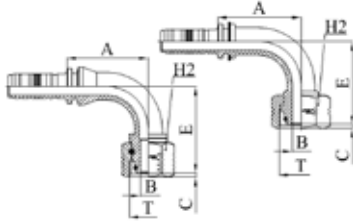


M81612

METRIC O-RING FEMALE 24° CONE HEAVY DUTY - DIN 20066 /
ISO 12151-2

PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	H1	H2
M81612-12-30	19	- 12	3/4"	M 30x2	20	12,5	49,5	3,2	32	36		
M81612-12-36	19	- 12	3/4"	M 36x2	25	14,5	52	4,1	36	41		
M81612-12-42	19	- 12	3/4"	M 42x2	30	19,5	52,5	6	41	50		
M81612-16-36	25	- 16	1"	M 36x2	25	16	56	4,1	41	41		
M81612-16-42	25	- 16	1"	M 42x2	30	19,5	54,5	6	41	50		
M81612-16-52	25	- 16	1"	M 52x2	38	25	56	8,8	50	60		
M81612-20-42	31	- 20	1.1/4"	M 42x2	30	19,5	56	6,1	46	50		
M81612-20-52	31	- 20	1.1/4"	M 52x2	38	25	57	8,8	50	60		
M81612-24-52	38	- 24	1.1/2"	M 52x2	38	26,1	58	8,8	55	60		

DIN STANDARD CONNECTIONS

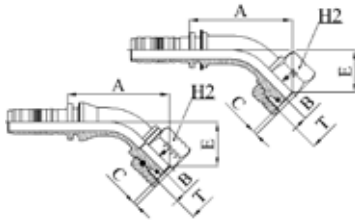


M81692/M81693

90° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY
DIN 20066 / ISO 12151-2

PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	E	H2
M81692-12-30	19	- 12	3/4"	M 30x2	20	12,5	64,5	3,2	68,5	36		
M81693-12-36	19	- 12	3/4"	M 36x2	25	14,5	68	3,4	67,5	41		
M81692-16-36	25	- 16	1"	M 36x2	25	15	83	4,1	87,5	41		
M81693-16-42	25	- 16	1"	M 42x2	30	19,5	82,5	5,3	75,5	50		
M81692-20-42	31	- 20	1.1/4"	M 42x2	30	19,1	102	6	90	50		
M81693-20-52	31	- 20	1.1/4"	M 52x2	38	26,1	101	8	86,5	60		

M81692: THRUST-WIRE NUT - M81693: SLIP-ON NUT



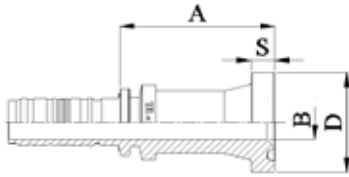
DIN STANDARD CONNECTIONS

M81642/M81643

45° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY
DIN 20066 / ISO 12151-2

PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	E	H2
M81642-12-30	19	- 12	3/4"	M 30x2	20	12,5	80	3,2	35	36		
M81643-12-36	19	- 12	3/4"	M 36x2	25	14,5	82	3,4	33,5	41		
M81642-16-36	25	- 16	1"	M 36x2	25	15	103	4,1	44,5	41		
M81643-16-42	25	- 16	1"	M 42x2	30	19,5	94	5,3	36	50		
M81642-20-42	31	- 20	1.1/4"	M 42x2	30	19,1	117,5	6	44	50		
M81643-20-52	31	- 20	1.1/4"	M 52x2	38	26,1	111	8	40	60		

M81642: THRUST-WIRE NUT - M81643: SLIP-ON NUT

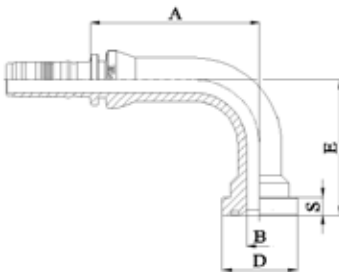


ORIGINAL EQUIPMENT CONNECTIONS

M83711

FLANGE PLUS (SAE J518 -2 / ISO 6162-2 PORT COMPATIBLE)

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	S		
M83711-12-12	19	- 12	3/4"	3/4"		14,5	65	41,4	10		
M83711-16-16	25	- 16	1"	1"		19,5	65	47,7	11		
M83711-20-20	31	- 20	1.1/4"	1.1/4"		25	81	54,2	12		

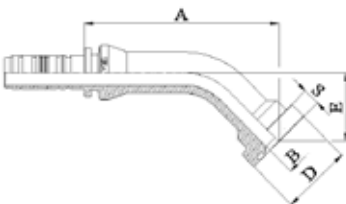


ORIGINAL EQUIPMENT CONNECTIONS

M83791

90° FLANGE PLUS (SAE J518 -2/ ISO 6162-2 PORT COMPATIBLE)

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm					
	DN	Dash	inch		Inch	B	A	D	E	S
M83791-12-12	19	- 12	3/4"	3/4"		14,5	93,5	41,4	75	10
M83791-16-16	25	- 16	1"	1"		19,5	91	47,7	90	11
M83791-20-20	31	- 20	1.1/4"	1.1/4"		25	115	54,2	110	12



ORIGINAL EQUIPMENT CONNECTIONS

M83741

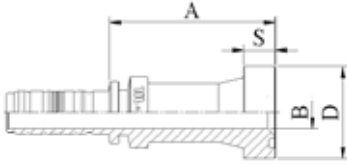
45° FLANGE PLUS (SAE J518-2/ISO 6162-2 PORT COMPATIBLE)

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm					
	DN	Dash	inch		Inch	B	A	D	E	S
M83741-12-12	19	- 12	3/4"	3/4"		14,5	114	41,4	40	10
M83741-16-16	25	- 16	1"	1"		19,5	107,5	47,7	43	11
M83741-20-20	31	- 20	1.1/4"	1.1/4"		25	133,5	54,2	50	12

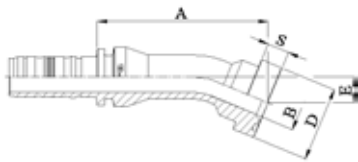
ORIGINAL EQUIPMENT CONNECTIONS

M83911

STRAIGHT SUPERCAT SERIES FLANGE



PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	S		
M83911-12-12	19	- 12	3/4"	3/4"		14,5	75	41,5	14,3		
M83911-12-16	19	- 12	3/4"	1"		19,5	80,5	47,7	14,3		
M83911-16-16	25	- 16	1"	1"		19,5	80	47,7	14,3		
M83911-16-20	25	- 16	1"	1.1/4"		26	84	54	14,3		
M83911-20-20	31	- 20	1.1/4"	1.1/4"		26	80,5	54	14,3		
M83911-20-24	31	- 20	1.1/4"	1.1/2"		32	84	63,6	14,3		
M83911-24-24	38	- 24	1.1/2"	1.1/2"		32	84,5	63,6	14,3		
M83911-24-32	38	- 24	1.1/2"	2"		42	107,5	79,3	14,3		
M83911-32-24	51	- 32	2"	1.1/2"		32	95,5	63,6	14,3		
M83911-32-32	51	- 32	2"	2"		42	110,5	79,3	14,3		

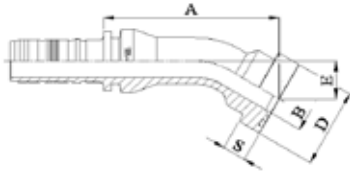


ORIGINAL EQUIPMENT CONNECTIONS

M83921

22,5° SUPERCAT SERIES FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	S	
M83921-12-12	19	- 12	3/4"	3/4"		16	101,5	41,5	16	14,3	
M83921-12-16	19	- 12	3/4"	1"		19,5	98	47,7	16,5	14,3	
M83921-16-16	25	- 16	1"	1"		19,5	108,5	47,7	16,5	14,3	
M83921-16-20	25	- 16	1"	1.1/4"		26	113	54	18,5	14,3	
M83921-20-20	31	- 20	1.1/4"	1.1/4"		26	120,5	54	18	14,3	
M83921-20-24	31	- 20	1.1/4"	1.1/2"		32	119	63,7	21	14,3	
M83921-24-24	38	- 24	1.1/2"	1.1/2"		32	123,5	63,7	20	14,3	

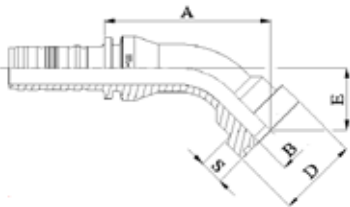


ORIGINAL EQUIPMENT CONNECTIONS

M83931

30° SUPERCAT SERIES FLANGE

PART. REF.	HOSE BORE			Flange		DIMENSIONS mm						
	DN	Dash	inch			Inch	B	A	D	E	S	
M83931-12-12	19	- 12	3/4"	3/4"		16	99	41,5	22	14,3		
M83931-12-16	19	- 12	3/4"	1"		19,5	99,5	47,7	22,5	14,3		
M83931-16-16	25	- 16	1"	1"		19,5	106	47,7	23	14,3		
M83931-16-20	25	- 16	1"	1.1/4"		26	110	54	26	14,3		
M83931-20-20	31	- 20	1.1/4"	1.1/4"		26	117,5	54	25	14,3		
M83931-20-24	31	- 20	1.1/4"	1.1/2"		32	115,5	63,7	29	14,3		
M83931-24-24	38	- 24	1.1/2"	1.1/2"		32	120,5	63,7	28	14,3		
M83931-24-32	38	- 24	1.1/2"	2"		42	134,5	79,3	36	14,3		
M83931-32-32	51	- 32	2"	2"		42	163,5	79,3	37,5	14,3		

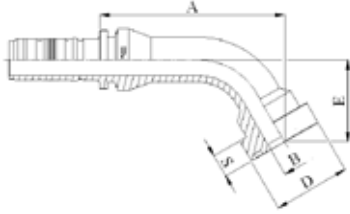


ORIGINAL EQUIPMENT CONNECTIONS

M83941

45° SUPERCAT SERIES FLANGE

PART. REF.	HOSE BORE			Flange		DIMENSIONS mm						
	DN	Dash	inch			Inch	B	A	D	E	S	
M83941-12-12	19	- 12	3/4"	3/4"		16	91,5	41,5	34,5	14,3		
M83941-12-16	19	- 12	3/4"	1"		19,5	92	47,7	35,5	14,3		
M83941-16-16	25	- 16	1"	1"		19,5	98	47,7	36,5	14,3		
M83941-16-20	25	- 16	1"	1.1/4"		26	101	54	40,5	14,3		
M83941-20-20	31	- 20	1.1/4"	1.1/4"		26	109	54	40	14,3		
M83941-20-24	31	- 20	1.1/4"	1.1/2"		32	106	63,7	46	14,3		
M83941-24-24	38	- 24	1.1/2"	1.1/2"		32	111	63,7	45,5	14,3		
M83941-24-32	38	- 24	1.1/2"	2"		42	122	79,3	56,5	14,3		
M83941-32-32	51	- 32	2"	2"		42	150,5	79,3	61,5	14,3		

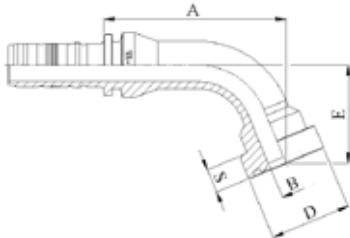


ORIGINAL EQUIPMENT CONNECTIONS

M83961

60° SUPERCAT SERIES FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	S	
M83961-12-12	19	- 12	3/4"	3/4"	16	106,5	41,5	47	14,3		
M83961-12-16	19	- 12	3/4"	1"	19,5	107	47,7	48	14,3		
M83961-16-16	25	- 16	1"	1"	19,5	114	47,7	51	14,3		
M83961-16-16055	25	- 16	1"	1"	19,5	100	47,7	55	14,3		
M83961-16-20	25	- 16	1"	1.1/4"	26	116,5	54	54	14,3		
M83961-20-20	31	- 20	1.1/4"	1.1/4"	26	130	54	54,5	14,3		
M83961-20-24	31	- 20	1.1/4"	1.1/2"	32	126	63,7	63,5	14,3		
M83961-24-24	38	- 24	1.1/2"	1.1/2"	32	140	63,7	63	14,3		
M83961-32-32	51	- 32	2"	2"	42	194	79,3	86,5	14,3		
M83961-32-32150	51	- 32	2"	2"	42	198	79,3	150	14,3		

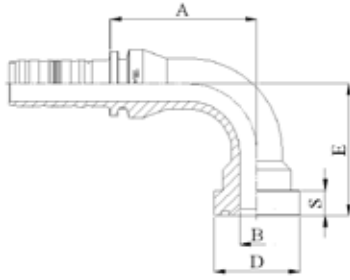


ORIGINAL EQUIPMENT CONNECTIONS

M83971

67,5° SUPERCAT SERIES FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	S	
M83971-12-12	19	- 12	3/4"	3/4"	16	100	41,5	53	14,3		
M83971-12-16	19	- 12	3/4"	1"	19,5	100,5	47,7	54	14,3		
M83971-16-16	25	- 16	1"	1"	19,5	107	47,7	58	14,3		
M83971-16-20	25	- 16	1"	1.1/4"	26	109	54	62	14,3		
M83971-20-20	31	- 20	1.1/4"	1.1/4"	26	123	54	62	14,3		
M83971-20-24	31	- 20	1.1/4"	1.1/2"	32	117,5	63,7	71,5	14,3		
M83971-24-24	38	- 24	1.1/2"	1.1/2"	32	131	63,7	72	14,3		
M83971-32-32	51	- 32	2"	2"	42	181,5	79,3	99	14,3		

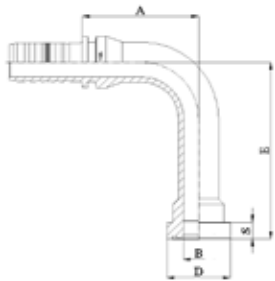


ORIGINAL EQUIPMENT CONNECTIONS

M83991

90° SUPERCAT SERIES FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	S	
M83991-12-12	19	- 12	3/4"	3/4"	16	76	41,5	68,5	14,3		
M83991-12-16	19	- 12	3/4"	1"	19,5	76	47,7	69,5	14,3		
M83991-16-16	25	- 16	1"	1"	19,5	82	47,7	73,5	14,3		
M83991-16-20	25	- 16	1"	1.1/4"	26	82	54	78,5	14,3		
M83991-20-20	31	- 20	1.1/4"	1.1/4"	26	94	54	82	14,3		
M83991-20-24	31	- 20	1.1/4"	1.1/2"	32	85	63,7	92	14,3		
M83991-24-24	38	- 24	1.1/2"	1.1/2"	32	98	63,7	96	14,3		
M83991-24-32	38	- 24	1.1/2"	2"	42	98	79,3	112	14,3		
M83991-32-32	51	- 32	2"	2"	42	136	79,3	133,5	14,3		



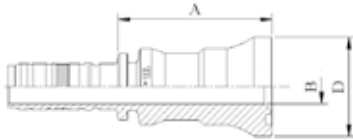
ORIGINAL EQUIPMENT CONNECTIONS

M83991 LONG DROP

90° LONG DROP SUPERCAT SERIES FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	S	
M83991-16-16132	25	- 16	1"	1"	19,5	86	47,7	132	14,3		
M83991-16-16150	25	- 16	1"	1"	19,5	86	47,7	150	14,3		
M83991-16-20150	25	- 16	1"	1.1/4"	26	82	54	150	14,3		
M83991-20-20092	31	- 20	1.1/4"	1.1/4"	26,1	99	54	92	14,3		
M83991-20-20150	31	- 20	1.1/4"	1.1/4"	26,1	99	54	150	14,3		
M83991-20-24135	31	- 20	1.1/4"	1.1/2"	32	98,5	63,7	135	14,3		
M83991-24-24106	38	- 24	1.1/2"	1.1/2"	32	112,5	63,7	106	14,3		

XTRAFLLANGE



M88511

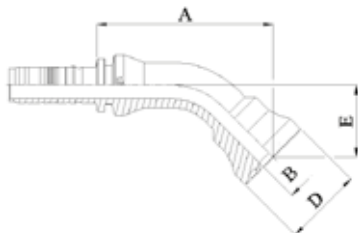
XTRAFLLANGE/62 (SAE J518 -2/ ISO 6162-2 PORT COMPATIBLE)

FITTINGS

F 6-24

PART. REF.	HOSE BORE			Flange		DIMENSIONS mm						
	DN	Dash	inch	Inch		B	A	D				
M88511-12-12	19	- 12	3/4"	3/4"		14,5	65,5	41,4				
M88511-16-16	25	- 16	1"	1"		19,5	69	47,7				
M88511-20-20	31	- 20	1.1/4"	1.1/4"		25	88	54,4				
M88511-24-24	38	- 24	1.1/2"	1.1/2"		30,5	102	63,7				
M88511-32-32	51	- 32	2"	2"		41	129,5	79,6				

XTRAFLLANGE



M88541

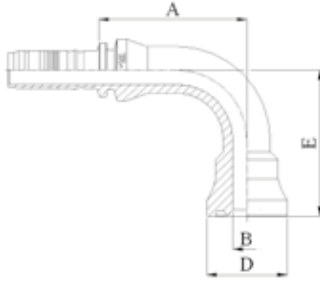
45° XTRAFLLANGE/62 (SAE J518 -2/ ISO 6162-2 PORT COMPATIBLE)

PART. REF.	HOSE BORE			Flange		DIMENSIONS mm						
	DN	Dash	inch	Inch		B	A	D	E			
M88541-12-12	19	- 12	3/4"	3/4"		14,5	93,5	41,4	38			
M88541-16-16	25	- 16	1"	1"		19,5	103,5	47,7	45			
M88541-20-20	31	- 20	1.1/4"	1.1/4"		25	138	54,4	62,5			
M88541-24-24	38	- 24	1.1/2"	1.1/2"		30,5	155	63,7	71,5			
M88541-32-32	51	- 32	2"	2"		39	194,5	79,6	92,5			

XTRAFLANGE

M88591

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

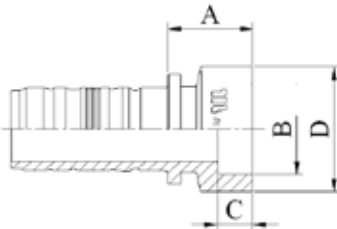


PART. REF.	HOSE BORE			Flange		DIMENSIONS mm						
	DN	Dash	inch	Inch		B	A	D	E			
M88591-12-12	19	- 12	3/4"	3/4"		14,5	76,5	41,4	75			
M88591-16-16	25	- 16	1"	1"		19,5	84,5	47,7	90			
M88591-20-20	31	- 20	1.1/4"	1.1/4"		25	107	54,4	120			
M88591-24-24	38	- 24	1.1/2"	1.1/2"		30,5	122	63,7	140			
M88591-32-32	51	- 32	2"	2"		39	148,5	79,6	178			

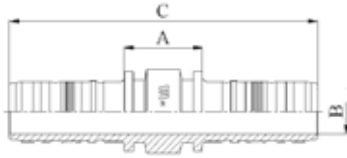
TAIL

M89510WL

WELDING TAIL



PART. REF.	HOSE BORE			DIMENSIONS mm								
	DN	Dash	inch			B	A	C	D			
M89510-12-22WL	19	- 12	3/4"			22,1	28,5	12	34			
M89510-16-28WL	25	- 16	1"			28,1	32,5	14	40			
M89510-20-35WL	31	- 20	1.1/4"			35,1	33	14	49			



DOUBLE CONNECTOR

M70050

DOUBLE CONNECTOR

PART. REF.	HOSE BORE			DIMENSIONS mm								
	DN	Dash	inch			B	A	C				
M70050-20-20	31	- 20	1.1/4"			25	42,5	166,2				
M70050-24-24	38	- 24	1.1/2"			30,5	43	178,9				
M70050-32-32	51	- 32	2"			41	45,5	220,8				



PUSHLOCK

FITTING CODE	SECTION	PAGE
L10510	7	1
L20513	7	1
L20543	7	2
L20593	7	2

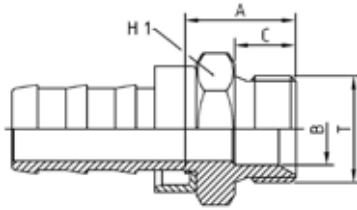
PUSHLOCK

DN	5	6	8	10	12	16	19	25	31	38	51	60	63	76	89	102
Inch	$\frac{3}{16}$ "	$\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	2"	$2\frac{3}{8}$ "	$2\frac{1}{2}$ "	3"	$3\frac{1}{2}$ "	4"
Size	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32	-38	-40	-48	-56	-64

FITTINGS

BSP																	
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BS STANDARD CONNECTIONS

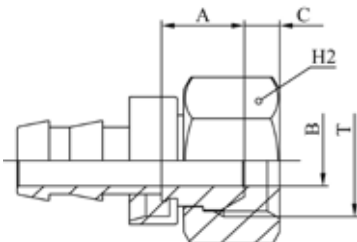


L10510

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

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C			
L10510-04-04	6	-4	1/4"	1/4" - 19		5	20,5	11	19			
L10510-04-06	6	-4	1/4"	3/8" - 19		8	22,5	12	22			
L10510-06-06	10	-6	3/8"	3/8" - 19		8	23	12	22			
L10510-08-08	12	-8	1/2"	1/2" - 14		11	27	14	27			
L10510-10-10	16	-10	5/8"	5/8" - 14		14,5	28,5	16	30			
L10510-12-12	19	-12	3/4"	3/4" - 14		17	30,5	16	32			
L10510-16-16	25	-16	1"	1" - 11		22,5	34,5	19	41			

No ferrule needed



BS STANDARD CONNECTIONS

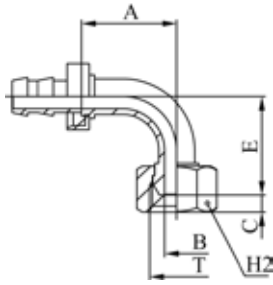
L20513

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

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C			
L20513-04-04	6	-4	1/4"	1/4" - 19		4	12,5	5,8	19			
L20513-04-06	6	-4	1/4"	3/8" - 19		7	14,6	6,2	22			
L20513-06-06	10	-6	3/8"	3/8" - 19		7	15	6,2	22			
L20513-08-08	12	-8	1/2"	1/2" - 14		9,5	16,5	6,5	27			
L20513-10-10	16	-10	5/8"	5/8" - 14		12	16	9	28			
L20513-12-12	19	-12	3/4"	3/4" - 14		16	18	9	32			
L20513-12-16	19	-12	3/4"	1" - 11		19	19,5	11	38			
L20513-16-16	25	-16	1"	1" - 11		19	19,5	11	38			

No ferrule needed

BS STANDARD CONNECTIONS

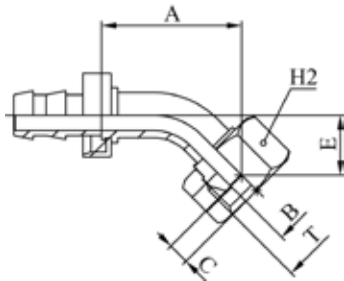


L20593

90° BSP FEMALE SWEPT ELBOW 60° CONE - BS5200/ISO 12151-6 (SLIP-ON NUT)

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
L20593-04-04	6	-4	1/4"	1/4" - 19		4	26	5,8	24	19		
L20593-06-06	10	-6	3/8"	3/8" - 19		7	35	6,2	30,5	22		
L20593-08-08	12	-8	1/2"	1/2" - 14		9,5	38	6,5	38,5	27		
L20593-10-10	16	-10	5/8"	5/8" - 14		12	45,5	9	41	28		
L20593-12-12	19	-12	3/4"	3/4" - 14		16	48,5	9	46,5	32		
L20593-12-16	19	-12	3/4"	1" - 11		19	48,5	11	48,5	38		
L20593-16-16	25	-16	1"	1" - 11		19	54	11	54	38		

No ferrule needed



BS STANDARD CONNECTIONS

L20543

45° BSP FEMALE SWEPT ELBOW 60° CONE - BS5200/ISO 12151-6 (SLIP-ON NUT)

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	H2	
L20543-04-04	6	-4	1/4"	1/4" - 19		4	31	5,8	12	19		
L20543-06-06	10	-6	3/8"	3/8" - 19		7	38,5	6,2	14,5	22		
L20543-08-08	12	-8	1/2"	1/2" - 14		9,5	44	6,5	18,5	27		
L20543-10-10	16	-10	5/8"	5/8" - 14		12	50,5	9	19	28		
L20543-12-12	19	-12	3/4"	3/4" - 14		16	53	9	21	32		
L20543-16-16	25	-16	1"	1" - 11		19	56	11	23,5	38		

No ferrule needed



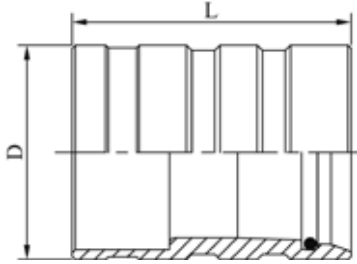
ACCESSORIES

FITTING CODE	SECTION	PAGE
O820	8	1
O83308	8	2
O83607	8	3
O83609	8	2
O88507	8	3
O88407	8	4

ACCESSORIES

O820

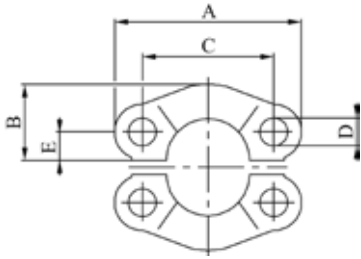
ANTI-KINK SLEEVE



PART. REF.	HOSE BORE			DIMENSIONS mm							
	DN	Dash	inch			D	L				
O82040-12	19	- 12	3/4"			45	67				
O82040-16	25	- 16	1"			52	81				
O82068-16	25	- 16	1"			55	75				
O82062-20	31	- 20	1.1/4"			64	83				
O82060-20	31	- 20	1.1/4"			64	84				
O82068-20	31	- 20	1.1/4"			65,5	83				
O82068-24	38	- 24	1.1/2"			73	99				
O82060-24	38	- 24	1.1/2"			72	102				
O82068-32	51	- 32	2"			86,5	116				
O82068-40	63	- 40	2.1/2"			100,5	148,5				
O82068-48	76	- 48	3"			112	158				

ACCESSORIES

083308

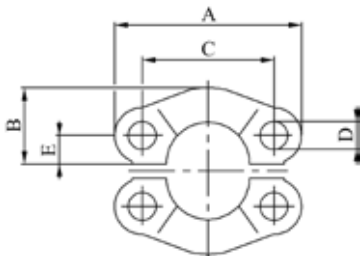


ISO/SAE CODE 61 SPLIT FLANGE CLAMPS - SAE J518 / ISO 6162-1

PART. REF.	HOSE BORE			DIMENSIONS mm							
	DN	Dash	inch	B	A	C	D	E			
O83308-08				22,8	54	38,1	8,8	8,7			
O83308-12				25,9	65	47,6	10,8	11,1			
O83308-16				29,2	70	52,4	10,8	13,1			
O83308-20				36,3	79	58,7	12	15,1			
O83308-24				41,1	94	69,8	13,5	17,9			
O83308-32				48,2	102	77,8	13,5	21,4			
O83308-40				54,1	114	88,9	13,5	25,4			
O83308-48				65,3	135	106,4	16,8	31			
O83308-56				70	152	120,6	17	34,8			
O83308-64				75	160	130,2	17	38,9			

ACCESSORIES

083609



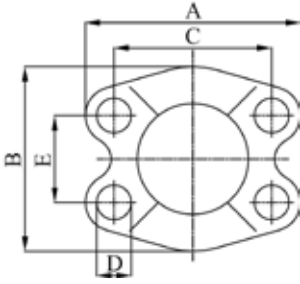
ISO/SAE CODE 62 SPLIT FLANGE CLAMPS - SAE J518 / ISO 6162-2

PART. REF.	HOSE BORE			DIMENSIONS mm							
	DN	Dash	inch	B	A	C	D	E			
O83609-08				23,6	56	40,5	8,8	9,1			
O83609-12				30	71	50,8	11	11,9			
O83609-16				34,8	81	57,1	13	13,9			
O83609-20				38,6	95	66,7	15	15,9			
O83609-24				47,5	113	79,4	17	18,3			
O83609-32				56,9	133	96,8	21	22,2			

ACCESSORIES

O83607

ONE-PIECE FLANGE CLAMP ISO 6162-2 / SAE J518 CODE 62

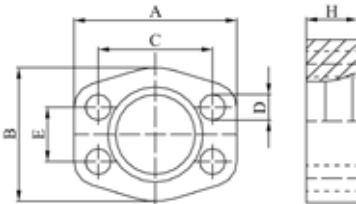


PART. REF.	HOSE BORE			DIMENSIONS mm							
	DN	Dash	inch	B	A	C	D	E			
O83607-12	19	- 12	3/4"	60	72	50,8	10,5	23,8			
O83607-16	25	- 16	1"	70	81	57,2	13	27,8			
O83607-20	31	- 20	1.1/4"	78	96	66,7	15	31,8			
O83607-24	38	- 24	1.1/2"	96	113	79,4	17	36,5			
O83607-32	51	- 32	2"	114	134	96,8	21	44,4			
O83607-40	63	- 40	2.1/2"	150	175	123,8	25	58,7			
O83607-48	76	- 48	3"	178	210	152,4	32	71,4			

ACCESSORIES

O88507

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

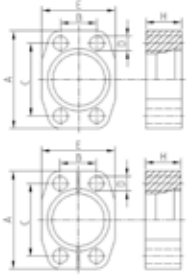


PART. REF.	HOSE BORE			DIMENSIONS mm							
	DN	Dash	inch	B	A	C	D	E	H		
O88507-12				60	71,5	50,8	11	23,8	21,5		
O88507-16				66,7	80	57,2	13	27,8	24		
O88507-20				78	95	66,7	15	31,7	30		
O88507-24				94	112	79,4	17	36,5	36		
O88507-32				114	133	96,8	21	44,5	47		
O88507-40				150	180	123,8	26	58,8	55		
O88507-48				176	210,3	152,4	31	71,4	60		

ACCESSORIES

O88407

ONE-PIECE XTRAFANGE 61 CLAMP/SPLIT XTRAFANGE/61 CLAMP



PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	C	D	E	H	
O88407-16				1"		26,2	70,5	52,4	10,6	53	25,7	
O88407-20				1.1/4"		30,2	80	58,7	12	64	26,8	
O88407-24				1.1/2"		35,7	94	69,9	13,3	77	33,6	
O88407-32				2"		42,9	102	77,8	13,3	88	35	
O88407-40				2.1/2"		50,8	114	88,9	13,3	102	44,3	

O88407-32 and O88407-40 : SPLIT XTRAFANGE/61 CLAMP



OPF

FITTING CODE	SECTION	PAGE
OPF10510	9	2
OPF10710	9	2
OPF11110	9	30
OPF11210	9	34
OPF12410	9	16
OPF12510	9	9
OPF12810	9	23
OPF13010	9	21
OPF14110R	9	24
OPF14310	9	22
OPF14390	9	22
OPF20512-OPF20513	9	3
OPF20542-OPF20543	9	5
OPF20592-OPF20593	9	4
OPF20612-OPF20613	9	8
OPF20711	9	38
OPF20812-OPF20813	9	6
OPF20842-OPF20843	9	7
OPF20882F	9	7
OPF20892-OPF20893	9	6
OPF21312-OPF21313	9	29
OPF21392-OPF21393	9	29
OPF21512-OPF21513	9	31
OPF21542-OPF21543	9	33
OPF21592-OPF21593	9	32
OPF21612-OPF21613	9	35
OPF21642-OPF21643	9	37
OPF21692-OPF21693	9	36
OPF22010	9	28

FITTING CODE	SECTION	PAGE
OPF22411	9	17
OPF22441-OPF22443	9	20
OPF22491-OPF22493	9	18
OPF22541KR	9	15
OPF22542-OPF22543	9	14
OPF22582F	9	16
OPF22591KR	9	12
OPF22592-OPF22593	9	11
OPF22612	9	23
OPF22711-KR-K	9	10
OPF22712	9	9
OPF22812	9	24
OPF23311	9	25
OPF23321	9	25
OPF23331	9	26
OPF23341	9	26
OPF23361	9	27
OPF23371	9	27
OPF23391	9	28
OPF23811	9	38
OPF24011	9	37
OPF24111	9	39
OPF24141	9	39
OPF24191	9	39
OPF24491 LONG DROP	9	19
OPF24791KR	9	13
OPF24792-OPF24793 LONG DROP	9	12
OPF3100	9	1

OPF

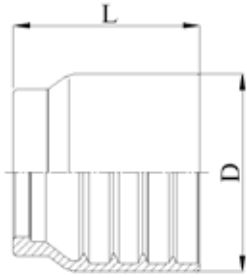
DN	5	6	8	10	12	16	19	25	31	38	51
Inch	$\frac{3}{16}$ "	$\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	2"
Size	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32

FERRULES

OPF3100											
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FITTINGS

BSP											
SAE (JIC)											
SAE (ORFS)											
SAE (O-RING BOSS)											
SAE (NPTF-NPSM)											
SAE FLANGE CODE 61											
DIN STANDPIPE											
DIN METRIC MULTISEAL											
DIN METRIC 24° CONE LIGHT TYPE											
DIN METRIC 24° CONE HEAVY TYPE											
JIS											
ORIGINAL EQUIPMENT CONNECTIONS											



FERRULE

OPF3100

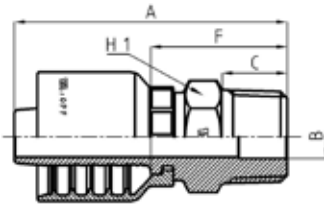
**NO-SKIVE FLAT CRIMP
FERRULE FOR BRAIDED HOSES**

PART. REF.	HOSE BORE			DIMENSIONS mm								
	DN	Dash	inch			D	L					
OPF3100-03	5	-3	3/16"			21	21					
OPF3100-04	6	-4	1/4"			23	27,5					
OPF3100-05	8	-5	5/16"			24	27					
OPF3100-06	10	-6	3/8"			26,5	29,5					
OPF3100-08	12	-8	1/2"			29,4	31					
OPF3100-10	16	-10	5/8"			33	33					
OPF3100-12	19	-12	3/4"			37,2	35					
OPF3100-16	25	-16	1"			46	42					

BS STANDARD CONNECTIONS

OPF10710

BSP MALE TAPERED

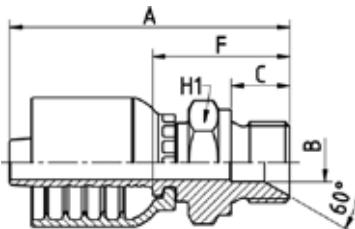


PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	F	H1	
OPF10710-08A08	12	- 8	1/2"	1/2" - 14	10	62	15	31	22		
OPF10710-10A12	16	- 10	5/8"	3/4" - 14	17	68,5	17	34	27		

BS STANDARD CONNECTIONS

OPF10510

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

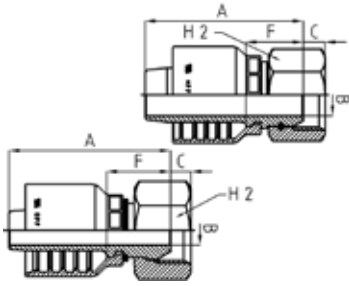


PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	F	H1	
OPF10510-03A02	5	- 3	3/16"	1/8" - 28	3,5	44	10	22,5	14		
OPF10510-04A02	6	- 4	1/4"	1/8" - 28	3,5	50	10	22,5	14		
OPF10510-04A04	6	- 4	1/4"	1/4" - 19	5	53	11	25,5	19		
OPF10510-04A06	6	- 4	1/4"	3/8" - 19	8	54,5	12	27	22		
OPF10510-05A04	8	- 5	5/16"	1/4" - 19	5	54	11	26	19		
OPF10510-05A06	8	- 5	5/16"	3/8" - 19	8	55,5	12	27,5	22		
OPF10510-06A04	10	- 6	3/8"	1/4" - 19	5	55,5	11	26	19		
OPF10510-06A06	10	- 6	3/8"	3/8" - 19	8	57,5	12	28	22		
OPF10510-06A08	10	- 6	3/8"	1/2" - 14	11	60	14	30,5	27		
OPF10510-08A06	12	- 8	1/2"	3/8" - 19	8	59	12	28	22		
OPF10510-08A08	12	- 8	1/2"	1/2" - 14	11	62	14	31	27		
OPF10510-08A10	12	- 8	1/2"	5/8" - 14	14,5	64	16	33	30		
OPF10510-08A12	12	- 8	1/2"	3/4" - 14	17	65	16	34	32		
OPF10510-10A10	16	- 10	5/8"	5/8" - 14	14,5	67,5	16	33	30		
OPF10510-10A12	16	- 10	5/8"	3/4" - 14	17	68,5	16	34	32		
OPF10510-12A12	19	- 12	3/4"	3/4" - 14	17	72	16	35,5	32		
OPF10510-12A16	19	- 12	3/4"	1" - 11	22,5	76	19	39,5	41		
OPF10510-16A16	25	- 16	1"	1" - 11	22,5	89	19	41	41		
OPF10510-16A20	25	- 16	1"	1.1/4" - 11	28,5	93	20	45	50		

BS STANDARD CONNECTIONS

OPF20512/OPF20513

BSP FEMALE 60° CONE - BS5200 / ISO 12151-6



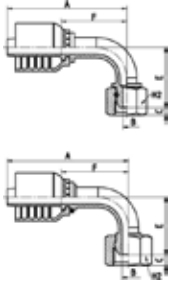
PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	F	H2	
OPF20512-03A02	5	- 3	3/16"	1/8" - 28	3	37	4,4	16	14		
OPF20513-03A04	5	- 3	3/16"	1/4" - 19	4	38	5,4	16,5	19		
OPF20512-04A02	6	- 4	1/4"	1/8" - 28	3,1	44	4,4	16,5	14		
OPF20513-04A04	6	- 4	1/4"	1/4" - 19	4	44,5	5,4	17	19		
OPF20513-04A06	6	- 4	1/4"	3/8" - 19	7	45,5	6	19	22		
OPF20512-05A04	8	- 5	5/16"	1/4" - 19	4,1	45,5	4,2	17,5	19		
OPF20513-05A06	8	- 5	5/16"	3/8" - 19	7	47	6	19	22		
OPF20512-06A04	10	- 6	3/8"	1/4" - 19	4,1	47,5	4,2	18	19		
OPF20513-06A06	10	- 6	3/8"	3/8" - 19	7	49	6	19,5	22		
OPF20513-06A08	10	- 6	3/8"	1/2" - 14	9,3	49,5	6,3	20	27		
OPF20512-08A06	12	- 8	1/2"	3/8" - 19	7,1	52	6	21	22		
OPF20513-08A08	12	- 8	1/2"	1/2" - 14	9,3	51,5	6,3	20,5	27		
OPF20512-08A10	12	- 8	1/2"	5/8" - 14	12,1	53	10,2	22	28		
OPF20512-08A12	12	- 8	1/2"	3/4" - 14	15	56	9	24,5	32		
OPF20512-10A10	16	- 10	5/8"	5/8" - 14	12,5	56	10,2	21,5	28		
OPF20512-10A12	16	- 10	5/8"	3/4" - 14	15	57,5	9	23	32		
OPF20512-12A12	19	- 12	3/4"	3/4" - 14	15	61	9	24,5	32		
OPF20512-12A16	19	- 12	3/4"	1" - 11	19,8	62,5	10,5	26	38		
OPF20512-16A16	25	- 16	1"	1" - 11	19,8	75,5	10,5	27,5	38		

OPF20512: THRUST-WIRE NUT / OPF20513: SLIP-ON NUT

BS STANDARD CONNECTIONS

OPF20592/OPF20593

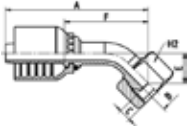
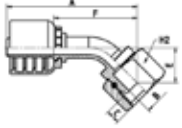
90° BSP FEMALE ELBOW 60° CONE - BS5200 / ISO 12151-6



PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	E	F	H2	
OPF20592-03A02	5	- 3	3/16"	1/8" - 28		3	43	4,4	26	21,5	14	
OPF20592-04A02	6	- 4	1/4"	1/8" - 28		3,1	56	4,4	27	28,5	14	
OPF20593-04A04	6	- 4	1/4"	1/4" - 19		4	57	5,4	29	29,5	19	
OPF20593-04A06	6	- 4	1/4"	3/8" - 19		7	57	6	31	29,5	22	
OPF20592-05A04	8	- 5	5/16"	1/4" - 19		4	54,5	4,1	29,5	26,5	19	
OPF20593-05A06	8	- 5	5/16"	3/8" - 19		7	60	6	27,5	32	22	
OPF20593-06A06	10	- 6	3/8"	3/8" - 19		7	66	6	31,5	36,5	22	
OPF20593-06A08	10	- 6	3/8"	1/2" - 14		9,3	66	6,3	32	36,5	27	
OPF20592-08A06	12	- 8	1/2"	3/8" - 19		7,1	76	6	41	45	22	
OPF20593-08A08	12	- 8	1/2"	1/2" - 14		9,3	76	6,3	36,5	45	27	
OPF20592-08A10	12	- 8	1/2"	5/8" - 14		12,1	75,5	10,2	44	44	28	
OPF20592-08A12	12	- 8	1/2"	3/4" - 14		15	75,5	9	45,5	44	32	
OPF20592-10A10	16	- 10	5/8"	5/8" - 14		12,5	88	10,2	53,5	53,5	28	
OPF20592-10A12	16	- 10	5/8"	3/4" - 14		15	88	9	55	53,5	32	
OPF20592-12A12	19	- 12	3/4"	3/4" - 14		15	98	9	59,5	61,5	32	
OPF20592-12A16	19	- 12	3/4"	1" - 11		19,8	98	10,5	62	61,5	38	
OPF20592-16A16	25	- 16	1"	1" - 11		19,8	127,5	10,5	76	79,5	38	

OPF20592: THRUST-WIRE NUT / OPF20593: SLIP-ON NUT

BS STANDARD CONNECTIONS

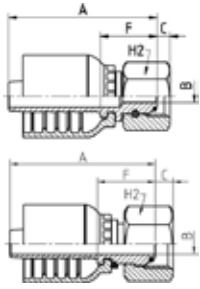


OPF20542/OPF20543

45° BSP FEMALE ELBOW 60° CONE - BS5200 / ISO 12151-6

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	F	H2
OPF20543-04A04	6	- 4	1/4"	1/4" - 19		4	63,5	5,4	15	36	19	
OPF20543-04A06	6	- 4	1/4"	3/8" - 19		7	65	6	16	37,5	22	
OPF20543-05A06	8	- 5	5/16"	3/8" - 19		7	66	6	13,5	38	22	
OPF20543-06A06	10	- 6	3/8"	3/8" - 19		7	71,5	6	15,5	42	22	
OPF20543-06A08	10	- 6	3/8"	1/2" - 14		9,3	72	6,3	16	42,5	27	
OPF20543-08A08	12	- 8	1/2"	1/2" - 14		9,3	81	6,3	17	49,5	27	
OPF20542-08A10	12	- 8	1/2"	5/8" - 14		12,1	85,5	10,2	22,5	54,5	28	
OPF20542-10A10	16	- 10	5/8"	5/8" - 14		12,5	97,5	10,2	26	63	28	
OPF20542-10A12	16	- 10	5/8"	3/4" - 14		15	98	9	27	64	32	
OPF20542-12A12	19	- 12	3/4"	3/4" - 14		15	107	9	28,5	70,5	32	
OPF20542-12A16	19	- 12	3/4"	1" - 11		19,8	109	10,5	30	72,5	38	
OPF20542-16A16	25	- 16	1"	1" - 11		19,8	139,5	10,5	36,5	91	38	

OPF20542: THRUST-WIRE NUT / OPF20543: SLIP-ON NUT



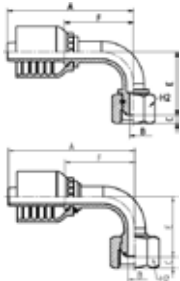
BS STANDARD CONNECTIONS

OPF20812/OPF20813

BSP O-RING FEMALE 60° CONE - BS5200 / ISO 12151-6

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	F	H2	
OPF20813-04A04	6	- 4	1/4"	1/4" - 19		4	44,5	5,4	17	19		
OPF20812-06A04	10	- 6	3/8"	1/4" - 19		4,1	47,5	4,1	18	19		
OPF20813-06A06	10	- 6	3/8"	3/8" - 19		7	49	6	19,5	22		
OPF20813-08A08	12	- 8	1/2"	1/2" - 14		9,3	51,5	6,3	20,5	27		
OPF20812-10A10	16	- 10	5/8"	5/8" - 14		12,5	56,5	9,7	22	28		
OPF20812-12A12	19	- 12	3/4"	3/4" - 14		15	61,5	8,5	25	32		
OPF20812-16A16	25	- 16	1"	1" - 11		19,8	75,5	10,6	27,5	38		
OPF20812-16A20	25	- 16	1"	1.1/4" - 11		26,1	79	10,5	31	50		

OPF20812: THRUST-WIRE NUT / OPF20813: SLIP-ON NUT



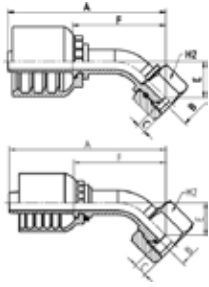
BS STANDARD CONNECTIONS

OPF20892/OPF20893

90° BSP O-RING FEMALE SWEEP ELBOW 60° CONE - BS5200 / ISO 12151-6

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	F	H2
OPF20893-04A04	6	- 4	1/4"	1/4" - 19		4	57	5,4	29	29,5	19	
OPF20892-06A04	10	- 6	3/8"	1/4" - 19		4,1	65	4,1	33	35,5	19	
OPF20893-06A06	10	- 6	3/8"	3/8" - 19		7	66	6	31,5	36,5	22	
OPF20893-08A08	12	- 8	1/2"	1/2" - 14		9,3	76	6,3	36,5	45	27	
OPF20892-10A10	16	- 10	5/8"	5/8" - 14		12,5	87,5	9,7	55	53	28	
OPF20892-12A12	19	- 12	3/4"	3/4" - 14		15	98	8,5	60	61,5	32	
OPF20892-16A16	25	- 16	1"	1" - 11		19,8	127,5	10,6	76	79,5	38	
OPF20892-16A20	25	- 16	1"	1.1/4" - 11		26,1	127,5	10,5	78,5	79,5	50	

OPF20892: THRUST-WIRE NUT / OPF20893: SLIP-ON NUT



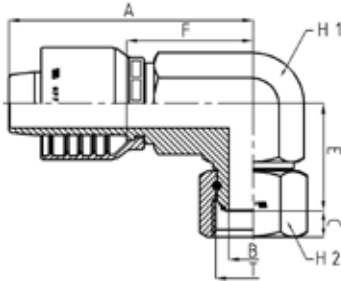
BS STANDARD CONNECTIONS

OPF20842/OPF20843

45° BSP O-RING FEMALE ELBOW 60° CONE BS5200 / ISO 12151-6

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	F	H2
OPF20843-04A04	6	-4	1/4"	1/4" - 19		4	63,5	5,4	14,5	36	19	
OPF20843-06A06	10	-6	3/8"	3/8" - 19		7	71,5	6	15,5	42	22	
OPF20843-08A08	12	-8	1/2"	1/2" - 14		9,3	81	6,3	17	49,5	27	
OPF20842-10A10	16	-10	5/8"	5/8" - 14		12,5	98	9,7	27,5	63,5	28	
OPF20842-12A12	19	-12	3/4"	3/4" - 14		15	107,5	8,5	29	71	32	
OPF20842-16A16	25	-16	1"	1" - 11		19,8	138,5	10,6	35,5	90,5	38	

OPF20842: THRUST-WIRE NUT / OPF20843: SLIP-ON NUT



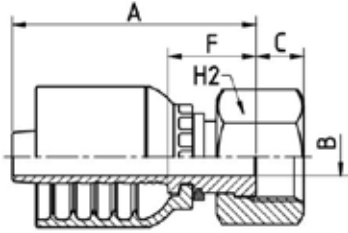
BS STANDARD CONNECTIONS

OPF20882F

90° BSP O-RING FEMALE COMPACT ELBOW 60° CONE BS5200 / ISO 12151-6 (THRUST-WIRE NUT)

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	F	H1
OPF20882-04A04F	6	-4	1/4"	1/4" - 19		4	47,5	4,1	22	20	14	19
OPF20882-06A06F	10	-6	3/8"	3/8" - 19		7	52,5	6	27,5	23	19	22
OPF20882-08A08F	12	-8	1/2"	1/2" - 14		9,3	56	6,5	31	25	22	27
OPF20882-10A10F	16	-10	5/8"	5/8" - 14		12,5	59	9,7	32,5	24,5	24	28
OPF20882-12A12F	19	-12	3/4"	3/4" - 14		15	74	8,5	36	37,5	27	32
OPF20882-16A16F	25	-16	1"	1" - 11		20	100	10,6	44	52	36	38

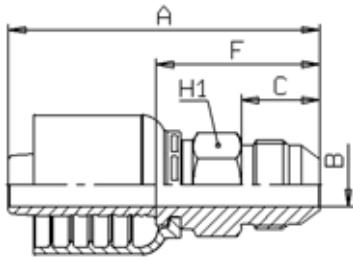
BS STANDARD CONNECTIONS



OPF20612/OPF20613

BSP FEMALE FLAT SEAT (SLIP-ON NUT)

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	F	H2	
OPF20613-04A04	6	-4	1/4"	1/4" - 19		4	42	7,9	14,5	19		
OPF20613-06A06	10	-6	3/8"	3/8" - 19		7	46	9	16,5	22		
OPF20613-06A08	10	-6	3/8"	1/2" - 14		9,3	47	9,8	17,5	27		
OPF20612-08A12	12	-8	1/2"	3/4" - 14		15	52	11,5	21	32		

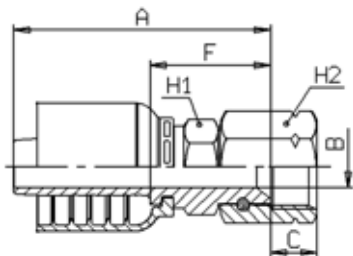


SAE STANDARD CONNECTIONS

OPF12510

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

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	F	H1		
OPF12510-04A04	6	-4	1/4"	7/16" - 20		4	55,5	14	28	12		
OPF12510-04A05	6	-4	1/4"	1/2" - 20		5,5	56,5	14	29	14		
OPF12510-04A06	6	-4	1/4"	9/16" - 18		7	56,5	14	29	17		
OPF12510-05A05	8	-5	5/16"	1/2" - 20		5,5	57	14	29	14		
OPF12510-05A06	8	-5	5/16"	9/16" - 18		7	57	14	29	17		
OPF12510-06A06	10	-6	3/8"	9/16" - 18		7	59	14	29,5	17		
OPF12510-06A08	10	-6	3/8"	3/4" - 16		9,3	63,5	16,5	34	19		
OPF12510-06A10	10	-6	3/8"	7/8" - 14		12,5	68	19,5	38,5	24		
OPF12510-08A06	12	-8	1/2"	9/16" - 18		7	63	14	32	19		
OPF12510-08A08	12	-8	1/2"	3/4" - 16		9,3	65,5	16,5	34,5	19		
OPF12510-08A10	12	-8	1/2"	7/8" - 14		12,5	70	19,5	39	24		
OPF12510-08A12	12	-8	1/2"	1.1/16" - 12		15	74	22	43	27		
OPF12510-10A10	16	-10	5/8"	7/8" - 14		12,5	73,5	19,5	39	24		
OPF12510-10A12	16	-10	5/8"	1.1/16" - 12		15	77	22	42,5	27		
OPF12510-12A10	19	-12	3/4"	7/8" - 14		12,5	78	19,5	41,5	27		
OPF12510-12A12	19	-12	3/4"	1.1/16" - 12		15	80,5	22	44	27		
OPF12510-12A14	19	-12	3/4"	1.3/16" - 12		15	81	22,5	44,5	32		
OPF12510-12A16	19	-12	3/4"	1.5/16" - 12		19,8	83,5	23	47	34		
OPF12510-16A12	25	-16	1"	1.1/16" - 12		15	93	22	45	32		
OPF12510-16A16	25	-16	1"	1.5/16" - 12		19,8	96	23	48	34		
OPF12510-16A20	25	-16	1"	1.5/8" - 12		26	101	24,3	53	42		



SAE STANDARD CONNECTIONS

OPF22712

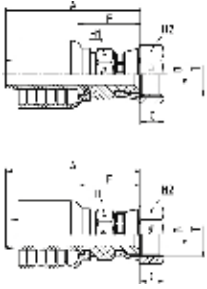
JIC FEMALE 37° CONE SEAT DOUBLE HEXAGON SAE J516 / ISO 12151-5 (THRUST-WIRE NUT)

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	F	H1	H2	
OPF22712-12A14	19	-12	3/4"	1.3/16" - 12		15	69,5	14,3	33	30	36	
OPF22712-16A20	25	-16	1"	1.5/8" - 12		26	91	16,2	43	41	50	

SAE STANDARD CONNECTIONS

OPF22711/OPF22711KR/OPF22711K

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



FITTINGS
F 9-10

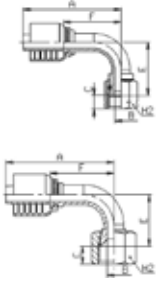
PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	F	H1	H2	
OPF22711-03A04K	5	- 3	3/16"	7/16" - 20	4	41,5	8,9	20	12	15		
OPF22711-04A04KR	6	- 4	1/4"	7/16" - 20	4	48	8,9	20,5	12	15		
OPF22711-04A05KR	6	- 4	1/4"	1/2" - 20	4	48,5	9,4	21	14	17		
OPF22711-04A06KR	6	- 4	1/4"	9/16" - 18	7	49	9,5	21,5	14	17		
OPF22711-05A05KR	8	- 5	5/16"	1/2" - 20	4	49,5	9,4	21,5	17	17		
OPF22711-06A06KR	10	- 6	3/8"	9/16" - 18	7	51,5	9,5	22	17	17		
OPF22711-06A08KR	10	- 6	3/8"	3/4" - 16	9,3	56	10,7	26,5	19	22		
OPF22711-08A06KR	12	- 8	1/2"	9/16" - 18	7	55,5	9,5	24	19	17		
OPF22711-08A08KR	12	- 8	1/2"	3/4" - 16	9,3	58	10,7	27	19	22		
OPF22711-08A10KR	12	- 8	1/2"	7/8" - 14	9,3	60,5	12,5	29,5	22	25		
OPF22711-08A12KR	12	- 8	1/2"	1.1/16" - 12	15	60	14,1	28,5	27	32		
OPF22711-10A08KR	16	- 10	5/8"	3/4" - 16	9,3	62,5	10,7	28,5	22	22		
OPF22711-10A10KR	16	- 10	5/8"	7/8" - 14	9,3	64	12,5	29,5	22	25		
OPF22711-10A12KR	16	- 10	5/8"	1.1/16" - 12	15	63,5	14,1	29	27	32		
OPF22711-12A08KR	19	- 12	3/4"	3/4" - 16	9,3	66	10,7	29,5	27	22		
OPF22711-12A10KR	19	- 12	3/4"	7/8" - 14	12,5	67	12,5	30,5	27	25		
OPF22711-12A12KR	19	- 12	3/4"	1.1/16" - 12	15	66,5	14,1	30	27	32		
OPF22711-12A16	19	- 12	3/4"	1.5/16" - 12	19,8	71	15,3	34,5	32	38		
OPF22711-16A12KR	25	- 16	1"	1.1/16" - 12	15	80,5	14,1	32,5	32	32		
OPF22711-16A16	25	- 16	1"	1.5/16" - 12	19,8	83,5	15,3	35,5	32	38		

KR:CRIMPED-BACK KOMPACT ROBUST NUT

SAE STANDARD CONNECTIONS

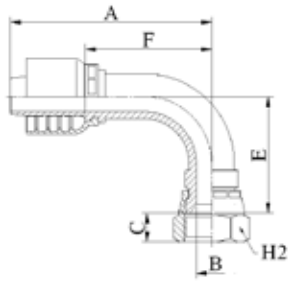
OPF22592/OPF22593

90° JIC FEMALE ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5



PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	E	F	H2	
OPF22593-03A04	5	- 3	3/16"	7/16" - 20		3	47,5	8,5	23,5	26	15	
OPF22592-04A04	6	- 4	1/4"	7/16" - 20		4	56	8,7	27	28,5	17	
OPF22592-04A05	6	- 4	1/4"	1/2" - 20		4	56	9,1	27,5	28,5	17	
OPF22593-04A06	6	- 4	1/4"	9/16" - 18		4	57	9,8	28	29,5	19	
OPF22593-04A08	6	- 4	1/4"	3/4" - 16		7	57	10	30,5	29,5	22	
OPF22592-05A05	8	- 5	5/16"	1/2" - 20		5,5	59	9,1	28	31	17	
OPF22592-05A06	8	- 5	5/16"	9/16" - 18		7	59	9,2	28,5	31	19	
OPF22592-06A05	10	- 6	3/8"	1/2" - 20		5,5	59,5	9,1	26,5	30	17	
OPF22592-06A06	10	- 6	3/8"	9/16" - 18		7	65	9,2	32,5	35,5	19	
OPF22593-06A08	10	- 6	3/8"	3/4" - 16		7	66	10,1	29,5	36,5	22	
OPF22593-06A10	10	- 6	3/8"	7/8" - 14		9,3	66	12,4	31,5	36,5	27	
OPF22592-08A06	12	- 8	1/2"	9/16" - 18		7	68	9,2	33	37	19	
OPF22592-08A08	12	- 8	1/2"	3/4" - 16		9,3	75,5	10,2	41	44	22	
OPF22593-08A10	12	- 8	1/2"	7/8" - 14		9,3	76	12,4	36	45	27	
OPF22593-08A12	12	- 8	1/2"	1.1/16" - 12		12,5	76	14,1	36	45	32	
OPF22592-10A10	16	- 10	5/8"	7/8" - 14		12,5	88	12,3	52,5	53,5	27	
OPF22593-10A12	16	- 10	5/8"	1.1/16" - 12		12,5	86	14,1	50	51,5	32	
OPF22592-12A10	19	- 12	3/4"	7/8" - 14		12,5	91,5	12,3	52,5	55	27	
OPF22592-12A12	19	- 12	3/4"	1.1/16" - 12		15	98	14,2	58	62	32	
OPF22592-12A14	19	- 12	3/4"	1.3/16" - 12		15	99	14,3	58	63	36	
OPF22592-12A16	19	- 12	3/4"	1.5/16" - 12		19,8	99	15	57,5	63	38	
OPF22592-16A16	25	- 16	1"	1.5/16" - 12		19,8	124	15	68,5	76	38	
OPF22592-16A20	25	- 16	1"	1.5/8" - 12		26	125,5	16,2	74,5	77,5	50	

OPF22592: THRUST-WIRE NUT / OPF22593: SLIP-ON NUT



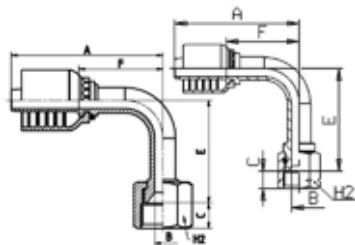
SAE STANDARD CONNECTIONS

OPF22591KR

90° ELBOW JIC FEMALE 37° CONE SEAT SAE J516 / ISO 12151-5
(CRIMPED-BACK NUT)

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	F	H2
OPF22591-04A04KR	6	-4	1/4"	7/16" - 20		4,2	56	8,9	26	28,5	15	
OPF22591-04A05KR	6	-4	1/4"	1/2" - 20		4	56	9,4	26,5	28,5	17	
OPF22591-06A06KR	10	-6	3/8"	9/16" - 18		7	65	9,5	32	35,5	17	
OPF22591-08A08KR	12	-8	1/2"	3/4" - 16		9,3	75,5	10,7	40,5	44	22	
OPF22591-10A10KR	16	-10	5/8"	7/8" - 14		12,5	88	12,5	47	53,5	25	
OPF22591-12A12KR	19	-12	3/4"	1.1/16" - 12		15	98	14,1	57	62	32	

FITTINGS
F 9-12



SAE STANDARD CONNECTIONS

OPF24792/OPF24793 LONG DROP

90° JIC FEMALE LONG DROP ELBOW 37° CONE SEAT - SAE J516 / ISO
12151-5

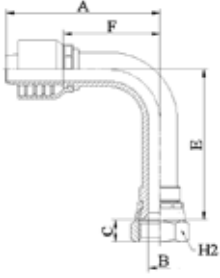
PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	F	H2
OPF24792-04A04	6	-4	1/4"	7/16" - 20		4	56	8,7	45	28,5	17	
OPF24792-04A05	6	-4	1/4"	1/2" - 20		4	56	9,1	45	28,5	17	
OPF24793-04A06	6	-4	1/4"	9/16" - 18		4	57	9,8	55,5	29,5	19	
OPF24792-06A06	10	-6	3/8"	9/16" - 18		7	65	9,2	55	35,5	19	
OPF24793-06A08	10	-6	3/8"	3/4" - 16		7	66	10,1	61,5	36,5	22	
OPF24792-08A08	12	-8	1/2"	3/4" - 16		9,3	75,5	10,2	61	44	22	
OPF24793-08A10	12	-8	1/2"	7/8" - 14		9,3	76	12,4	65	45	27	
OPF24792-10A10	16	-10	5/8"	7/8" - 14		12,5	88	12,3	65,5	53,5	27	
OPF24792-12A12	19	-12	3/4"	1.1/16" - 12		15	98	14,2	94,5	62	32	
OPF24792-16A16	25	-16	1"	1.5/16" - 12		19,8	125,5	15	110	77,5	38	

OPF24792: THRUST-WIRE NUT / OPF24793: SLIP-ON NUT

SAE STANDARD CONNECTIONS

OPF24791KR

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

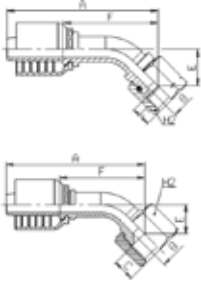


PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	F	H2
OPF24791-04A04KR	6	- 4	1/4"	7/16" - 20		4,2	56	8,9	45	28,5	15	
OPF24791-06A06KR	10	- 6	3/8"	9/16" - 18		7	65	9,5	55	35,5	17	
OPF24791-08A08KR	12	- 8	1/2"	3/4" - 16		9,3	75,5	10,7	64	44	22	
OPF24791-10A10KR	16	- 10	5/8"	7/8" - 14		12,5	88	12,5	70	53,5	25	
OPF24791-12A12KR	19	- 12	3/4"	1.1/16" - 12		15	98	14,1	96	62	32	

SAE STANDARD CONNECTIONS

OPF22542/OPF22543

45° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516 / ISO
12151-5



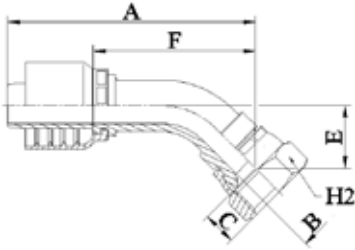
PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	F	H2
OPF22542-04A04	6	- 4	1/4"	7/16" - 20		4	63	8,7	14,5	35,5	17	
OPF22542-04A05	6	- 4	1/4"	1/2" - 20		4	63	9,1	14,5	35,5	17	
OPF22543-04A06	6	- 4	1/4"	9/16" - 18		4	63	9,8	14	35,5	19	
OPF22542-05A05	8	- 5	5/16"	1/2" - 20		5,5	65,5	9,1	14	37,5	17	
OPF22542-05A06	8	- 5	5/16"	9/16" - 18		7	66	9,2	14,5	38	19	
OPF22542-06A06	10	- 6	3/8"	9/16" - 18		7	71,5	9,2	16,5	42	19	
OPF22543-06A08	10	- 6	3/8"	3/4" - 16		7	70,5	10,1	14	41	22	
OPF22543-06A10	10	- 6	3/8"	7/8" - 14		9,3	72	12,4	15,5	42,5	27	
OPF22542-08A08	12	- 8	1/2"	3/4" - 16		9,3	83	10,2	20	52	22	
OPF22543-08A10	12	- 8	1/2"	7/8" - 14		9,3	80,5	12,4	17	49,5	27	
OPF22543-08A12	12	- 8	1/2"	1.1/16" - 12		12,5	80,5	14,1	17	49,5	32	
OPF22542-10A10	16	- 10	5/8"	7/8" - 14		12,5	96,5	12,3	25,5	62	27	
OPF22543-10A12	16	- 10	5/8"	1.1/16" - 12		12,5	94,5	14,1	24	60	32	
OPF22542-12A12	19	- 12	3/4"	1.1/16" - 12		15	106	14,2	27,5	70	32	
OPF22542-12A14	19	- 12	3/4"	1.3/16" - 12		15	106	14,3	27,5	69,5	36	
OPF22542-12A16	19	- 12	3/4"	1.5/16" - 12		19,8	106,5	15	27,5	70	38	
OPF22542-16A12	25	- 16	1"	1.1/16" - 12		15	120,5	14,2	27,5	72,5	32	
OPF22542-16A16	25	- 16	1"	1.5/16" - 12		19,8	132,5	15	32	84	38	
OPF22542-16A20	25	- 16	1"	1.5/8" - 12		26	138	16,2	36	90	50	

OPF22542: THRUST-WIRE NUT / OPF22543: SLIP-ON NUT

SAE STANDARD CONNECTIONS

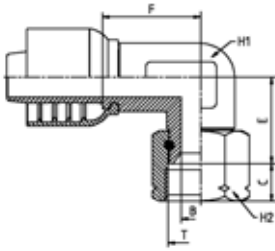
OPF22541KR

45° ELBOW JIC FEMALE 37° CONE SEAT SAE J516 / ISO 12151-5
(CRIMPED-BACK NUT)



PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	F	H2
OPF22541-04A04KR	6	- 4	1/4"	7/16" - 20		4,2	62	8,9	13,5	34,5	15	
OPF22541-04A05KR	6	- 4	1/4"	1/2" - 20		4	62,5	9,4	14	35	17	
OPF22541-06A06KR	10	- 6	3/8"	9/16" - 18		7	71,5	9,5	16	42	17	
OPF22541-08A08KR	12	- 8	1/2"	3/4" - 16		9,3	83	10,7	20	52	22	
OPF22541-10A10KR	16	- 10	5/8"	7/8" - 14		12,5	95,5	12,5	22,5	61	25	
OPF22541-12A12KR	19	- 12	3/4"	1.1/16" - 12		15	105,5	14,1	26,5	69	32	

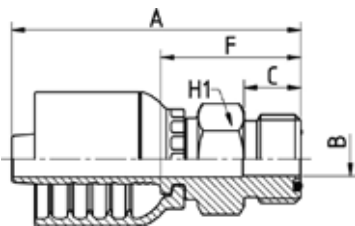
SAE STANDARD CONNECTIONS



OPF22582F

90° JIC FEMALE COMPACT ELBOW 37° CONE SEAT SAE J516 / ISO 12151-5 (THRUST-WIRE NUT)

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	E	F	H1	H2
OPF22582-04A04F	6	-4	1/4"	7/16" - 20	4	47,5	8,7	20,5	20	14	17	
OPF22582-04A06F	6	-4	1/4"	9/16" - 18	7	47,5	9,2	21,5	20	14	19	
OPF22582-06A06F	10	-6	3/8"	9/16" - 18	7	52,5	9,2	24	23	19	19	
OPF22582-06A08F	10	-6	3/8"	3/4" - 16	9,3	56	10,2	28	26,5	22	22	
OPF22582-08A08F	12	-8	1/2"	3/4" - 16	9,3	56	10,2	28	25	22	22	
OPF22582-08A10F	12	-8	1/2"	7/8" - 14	12,5	56	12,3	29	25	22	27	
OPF22582-12A12F	19	-12	3/4"	1.1/16" - 12	15	74	14,2	33	37,5	27	32	
OPF22582-16A16F	25	-16	1"	1.5/16" - 12	20	100	15	40	52	36	38	



SAE STANDARD CONNECTIONS

OPF12410

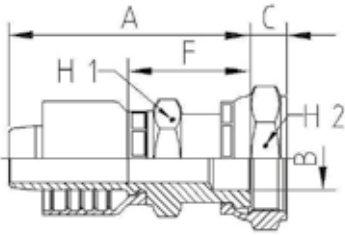
ORFS MALE - SAE J516 / ISO 12151-1

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	F	H1		
OPF12410-04A04	6	-4	1/4"	9/16" - 18	4	51,5	9,8	24	16			
OPF12410-04A06	6	-4	1/4"	11/16" - 16	6,7	54	11,2	26,5	19			
OPF12410-05A06	8	-5	5/16"	11/16" - 16	6,7	55	11,2	27	19			
OPF12410-06A06	10	-6	3/8"	11/16" - 16	6,7	57	11,2	27,5	19			
OPF12410-06A08	10	-6	3/8"	13/16" - 16	9,3	59,5	12,8	30	22			
OPF12410-08A08	12	-8	1/2"	13/16" - 16	9,3	61,5	12,8	30,5	22			
OPF12410-08A10	12	-8	1/2"	1" - 14	12,5	66	15,5	35	27			
OPF12410-10A10	16	-10	5/8"	1" - 14	12,5	69	15,5	34,5	27			
OPF12410-10A12	16	-10	5/8"	1.3/16" - 12	15	72	17	37,5	32			
OPF12410-12A12	19	-12	3/4"	1.3/16" - 12	15	75,5	17	39	32			
OPF12410-12A16	19	-12	3/4"	1.7/16" - 12	19,8	77	17,5	40,5	38			
OPF12410-16A16	25	-16	1"	1.7/16" - 12	19,8	90	17,5	42	38			

SAE STANDARD CONNECTIONS

OPF22411

ORFS FEMALE - SAE J516 / ISO 12151-1 PULL-BACK TYPE

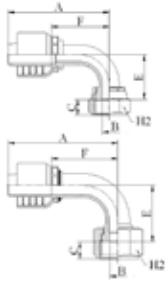


PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	F	H1	H2
OPF22411-04A04	6	-4	1/4"	9/16" - 18	4	55	8	27,5	13	19	
OPF22411-04A06	6	-4	1/4"	11/16" - 16	7	57,5	9,5	30	16	22	
OPF22411-05A06	8	-5	5/16"	11/16" - 16	7	58,5	9,5	30,5	16	22	
OPF22411-06A06	10	-6	3/8"	11/16" - 16	7	60,5	9,5	31	16	22	
OPF22411-06A08	10	-6	3/8"	13/16" - 16	9,3	65	11	35,5	19	24	
OPF22411-08A06	12	-8	1/2"	11/16" - 16	7	63	9,5	32	19	22	
OPF22411-08A08	12	-8	1/2"	13/16" - 16	9,3	67	11	36	19	24	
OPF22411-08A10	12	-8	1/2"	1" - 14	11,5	69,5	13,5	38,5	24	30	
OPF22411-08A12	12	-8	1/2"	1.3/16" - 12	13,9	73	14,5	42	28	36	
OPF22411-10A10	16	-10	5/8"	1" - 14	11,5	73	13,5	38,5	24	30	
OPF22411-10A12	16	-10	5/8"	1.3/16" - 12	13,9	76,5	14,5	42	28	36	
OPF22411-12A10	19	-12	3/4"	1" - 14	11,5	77,5	13,5	41	28	30	
OPF22411-12A12	19	-12	3/4"	1.3/16" - 12	13,9	80	14,5	43,5	28	36	
OPF22411-12A16	19	-12	3/4"	1.7/16" - 12	19,8	82	15	45,5	36	41	
OPF22411-16A12	25	-16	1"	1.3/16" - 12	13,9	94	13,5	48	36	36	
OPF22411-16A16	25	-16	1"	1.7/16" - 12	19,8	94,5	15	46,5	36	41	

SAE STANDARD CONNECTIONS

OPF22491/OPF22493

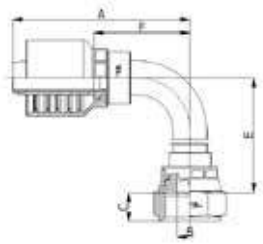
90° ORFS FEMALE SWEPT ELBOW - SAE J516 / ISO 12151-1



PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	E	F	H2
OPF22493-04A04	6	- 4	1/4"	9/16" - 18	4	55	8,2	22	27,5	17	
OPF22493-04A06	6	- 4	1/4"	11/16" - 16	7	55	9,5	22	27,5	22	
OPF22493-05A06	8	- 5	5/16"	11/16" - 16	7	60	9,5	23	32	22	
OPF22493-06A06	10	- 6	3/8"	11/16" - 16	6	59,5	9,5	24	30	22	
OPF22493-06A08	10	- 6	3/8"	13/16" - 16	9,3	59,5	11	26,5	30	24	
OPF22491-08A06	12	- 8	1/2"	11/16" - 16	7	61,5	9,5	24,5	30	22	
OPF22493-08A08	12	- 8	1/2"	13/16" - 16	9	71,5	11	30	40,5	24	
OPF22493-08A10	12	- 8	1/2"	1" - 14	11,5	71	13,5	30,5	40	30	
OPF22493-08A12	12	- 8	1/2"	1.3/16" - 12	13,9	71	14,5	37,5	39,5	36	
OPF22493-10A10	16	- 10	5/8"	1" - 14	11,5	82,5	13,5	37,5	48	30	
OPF22493-10A12	16	- 10	5/8"	1.3/16" - 12	13,9	82,5	14,5	41	48	36	
OPF22491-12A10	19	- 12	3/4"	1" - 14	11,5	85,5	13,5	38	49	30	
OPF22493-12A12	19	- 12	3/4"	1.3/16" - 12	13,9	93	14,5	48	56,5	36	
OPF22493-12A16	19	- 12	3/4"	1.7/16" - 12	19,8	93	14,8	47,5	56,5	41	
OPF22491-16A12	25	- 16	1"	1.3/16" - 12	13,9	106	14,5	48	57,5	36	
OPF22493-16A16	25	- 16	1"	1.7/16" - 12	19,8	119,5	14,8	56	71,5	41	
OPF22493-16A20	25	- 16	1"	1.11/16" - 12	26	119,5	14,8	58,5	71,5	50	

OPF22491: CRIMPED-BACK NUT / OPF22493: SLIP-ON NUT

SAE STANDARD CONNECTIONS



OPF24491 LONG DROP

**90° ORFS FEMALE LONG DROP ELBOW - SAE J516 / ISO 12151-1
(CRIMPED-BACK NUT)**

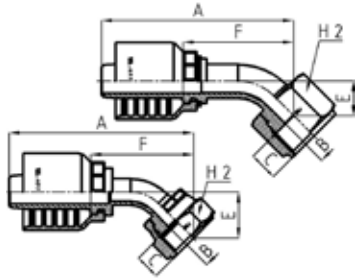
PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	E	F	H2
OPF24491-04A04	6	- 4	1/4"	9/16" - 18	4,4	52,5	8	46	25	17	
OPF24491-06A06	10	- 6	3/8"	11/16" - 16	6,7	61,5	9,5	54	32	22	
OPF24491-06A08	10	- 6	3/8"	13/16" - 16	6,7	61,5	11	54	32	24	
OPF24491-08A08	12	- 8	1/2"	13/16" - 16	9,6	68	11	64	37	24	
OPF24491-08A10	12	- 8	1/2"	1" - 14	9,6	68	12,5	64,5	37	30	
OPF24491-10A10	16	- 10	5/8"	1" - 14	12	75,5	13	70	41	30	
OPF24491-10A12	16	- 10	5/8"	1.3/16" - 12	12,7	75,5	13,5	73	41	36	
OPF24491-12A12	19	- 12	3/4"	1.3/16" - 12	15	95	13,5	96	58,5	36	
OPF24491-16A16	25	- 16	1"	1.7/16" - 12	19,8	119,5	13,5	114	71,5	41	

All items are made from brazing with the exception of OPF24491-12A12 and OPF24491-16A16

SAE STANDARD CONNECTIONS

OPF22441/OPF22443

45° ORFS FEMALE ELBOW - SAE J516 / ISO 12151-1



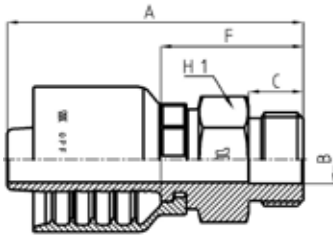
PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	E	F	H2
OPF22443-04A04	6	-4	1/4"	9/16" - 18	4	58,5	8,2	10,5	31	17	
OPF22443-04A06	6	-4	1/4"	11/16" - 16	7	58,5	9,5	10,5	31	22	
OPF22443-05A06	8	-5	5/16"	11/16" - 16	7	62	9,5	10,5	34	22	
OPF22443-06A06	10	-6	3/8"	11/16" - 16	6	61,5	9,5	11	32,5	22	
OPF22443-06A08	10	-6	3/8"	13/16" - 16	9,3	63	11	12,5	34	24	
OPF22441-08A06	12	-8	1/2"	11/16" - 16	7	63,5	9,5	11	32,5	22	
OPF22443-08A08	12	-8	1/2"	13/16" - 16	9	73	11	13	42	24	
OPF22443-08A10	12	-8	1/2"	1" - 14	11,5	73	13,5	13,5	42	30	
OPF22443-08A12	12	-8	1/2"	1.3/16" - 12	13,9	78	14,5	18,5	46,5	36	
OPF22443-10A10	16	-10	5/8"	1" - 14	11,5	83,5	13,5	16	49	30	
OPF22443-10A12	16	-10	5/8"	1.3/16" - 12	13,9	86	14,5	18,5	51,5	36	
OPF22441-12A10	19	-12	3/4"	1" - 14	11,5	87	13,5	16,5	50,5	30	
OPF22443-12A12	19	-12	3/4"	1.3/16" - 12	13,9	97	14,5	21,5	60,5	36	
OPF22443-12A16	19	-12	3/4"	1.7/16" - 12	19,8	96,5	14,8	21	60	41	
OPF22443-16A16	25	-16	1"	1.7/16" - 12	19,8	120	14,8	23,5	72	41	
OPF22443-16A20	25	-16	1"	1.11/16" - 12	26	122	14,8	25	74	50	

OPF22441: CRIMPED-BACK NUT / OPF22443: SLIP-ON NUT

SAE STANDARD CONNECTIONS

OPF13010

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

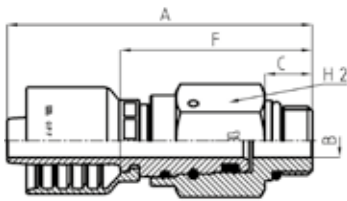


PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	F	H1	
OPF13010-04A04	6	-4	1/4"	7/16" - 20	4,4	51,5	9,1	24	14		
OPF13010-04A06	6	-4	1/4"	9/16" - 18	7,5	52	9,9	24,5	17		
OPF13010-06A06	10	-6	3/8"	9/16" - 18	7,5	55	9,9	25,5	17		
OPF13010-06A08	10	-6	3/8"	3/4" - 16	9,9	58	11,1	28,5	22		
OPF13010-08A08	12	-8	1/2"	3/4" - 16	9,9	60	11,1	29	22		
OPF13010-08A10	12	-8	1/2"	7/8" - 14	12,3	63	12,7	32	25		
OPF13010-10A10	16	-10	5/8"	7/8" - 14	12,5	63	12,7	32	25		
OPF13010-10A12	16	-10	5/8"	1.1/16" - 12	15,5	72	15,1	37,5	32		
OPF13010-12A12	19	-12	3/4"	1.1/16" - 12	15,5	76	15,1	39,5	32		
OPF13010-12A16	19	-12	3/4"	1.5/16" - 12	21,5	76,5	15,1	40	38		
OPF13010-16A16	25	-16	1"	1.5/16" - 12	21,5	89,5	15,1	41	38		

SAE STANDARD CONNECTIONS

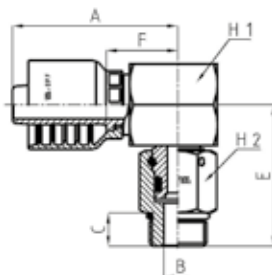
OPF14310

SAE SWIVEL MALE OR.BOSS TYPE



PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	F	H2	
OPF14310-04A04	6	- 4	1/4"	7/16" - 20		4	70,5	9,1	43	17		
OPF14310-04A06	6	- 4	1/4"	9/16" - 18		7	71,5	9,9	44	22		
OPF14310-06A06	10	- 6	3/8"	9/16" - 18		7	77,5	9,9	48	22		
OPF14310-06A08	10	- 6	3/8"	3/4" - 16		9,3	76,5	11,1	47	22		
OPF14310-08A08	12	- 8	1/2"	3/4" - 16		9,3	84	11,1	53	27		
OPF14310-08A10	12	- 8	1/2"	7/8" - 14		9,3	72,4	13	41,5	27		
OPF14310-12A12	19	- 12	3/4"	1.1/16" - 12		12,5	87	15	50,5	32		

Not to be used as a live swivel



SAE STANDARD CONNECTIONS

OPF14390

90° SAE SWIVEL MALE OR.BOSS

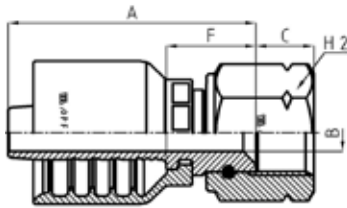
PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	F	H1
OPF14390-06A06	10	- 6	3/8"	9/16" - 18		5,7	49,5	9,9	40	20	22	17
OPF14390-06A08	10	- 6	3/8"	3/4" - 16		9,3	49,5	11,1	44,5	20	22	22
OPF14390-08A08	12	- 8	1/2"	3/4" - 16		9,3	54,5	11,1	47	23,5	27	22
OPF14390-08A10	12	- 8	1/2"	7/8" - 14		9,8	54,5	13	47	23,5	27	27
OPF14390-10A10	16	- 10	5/8"	7/8" - 14		9,8	58	13	47	23,5	27	27
OPF14390-12A12	19	- 12	3/4"	1.1/16" - 12		13	64,5	15	58,5	28	34	32

Not to be used as a live swivel

SAE STANDARD CONNECTIONS

OPF22612

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

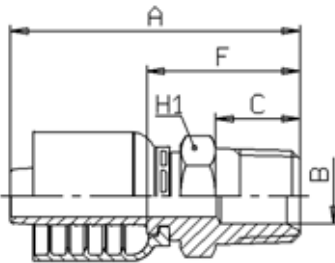


PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	F	H2	
OPF22612-06A06	10	-6	3/8"	9/16" - 18	7	46	10,8	16,5	22		

SAE STANDARD CONNECTIONS

OPF12810

NPTF MALE 60° CONE SEAT - SAE J516/J514

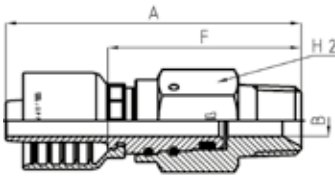


PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	F	H1	
OPF12810-03A02	5	-3	3/16"	1/8" - 27	3	45	10	23,5	12		
OPF12810-03A04	5	-3	3/16"	1/4" - 18	5,5	50,5	14,5	29	14		
OPF12810-04A02	6	-4	1/4"	1/8" - 27	4	51,5	10	24	12		
OPF12810-04A04	6	-4	1/4"	1/4" - 18	5,5	56,5	14,5	29	14		
OPF12810-04A06	6	-4	1/4"	3/8" - 18	9,3	55	14,5	27,5	19		
OPF12810-04A08	6	-4	1/4"	1/2" - 14	9,3	61	19,2	33,5	24		
OPF12810-05A04	8	-5	5/16"	1/4" - 18	5,5	57,5	14,5	29,5	14		
OPF12810-05A06	8	-5	5/16"	3/8" - 18	9,3	60	14,5	32	19		
OPF12810-06A04	10	-6	3/8"	1/4" - 18	5,5	59,5	14,5	30	14		
OPF12810-06A06	10	-6	3/8"	3/8" - 18	9,3	58	14,5	28,5	19		
OPF12810-06A08	10	-6	3/8"	1/2" - 14	12,5	64	19,2	34,5	24		
OPF12810-08A06	12	-8	1/2"	3/8" - 18	9,3	60	14,5	29	19		
OPF12810-08A08	12	-8	1/2"	1/2" - 14	12,5	66	19,2	35	24		
OPF12810-08A12	12	-8	1/2"	3/4" - 14	15,5	66,5	19,2	35,5	27		
OPF12810-10A08	16	-10	5/8"	1/2" - 14	12,5	73	19,2	38,5	24		
OPF12810-10A12	16	-10	5/8"	3/4" - 14	16	74,5	19,2	40	27		
OPF12810-12A08	19	-12	3/4"	1/2" - 14	12,5	73	19,2	36,5	27		
OPF12810-12A12	19	-12	3/4"	3/4" - 14	16	73	19,2	36,5	27		
OPF12810-12A16	19	-12	3/4"	1" - 11,5	19,8	82,5	24,2	46	36		
OPF12810-16A12	25	-16	1"	3/4" - 14	15,5	87	19,2	39	32		
OPF12810-16A16	25	-16	1"	1" - 11,5	19,8	92	24,2	44	36		
OPF12810-16A20	25	-16	1"	1.1/4" - 11,5	26	104,5	25	56,5	46		

SAE STANDARD CONNECTIONS

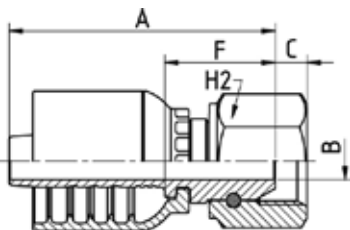
OPF14110R

SWIVEL MALE NPTF



PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	F	H1		
OPF14110-04A02R	6	- 4	1/4"	1/8" - 28		3	69,5	10	42	17		
OPF14110-04A04R	6	- 4	1/4"	1/4" - 18		4	74	14,5	46,5	17		
OPF14110-04A06R	6	- 4	1/4"	3/8" - 18		7	74	14,5	46,5	19		
OPF14110-06A04R	10	- 6	3/8"	1/4" - 18		4	80	14,5	50,5	22		
OPF14110-06A06R	10	- 6	3/8"	3/8" - 18		7	80	14,5	50,5	22		
OPF14110-06A08R	10	- 6	3/8"	1/2" - 14		9,3	84,5	19,2	55	24		
OPF14110-08A08R	12	- 8	1/2"	1/2" - 14		9,3	90	19,2	59	27		
OPF14110-12A12R	19	- 12	3/4"	3/4" - 14		16	94,5	19,2	58	32		
OPF14110-16A16R	25	- 16	1"	1" - 11		19,8	114	24,2	66	38		

Not to be used as a live swivel

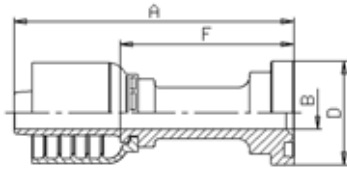


SAE STANDARD CONNECTIONS

OPF22812

NPSM FEMALE 60° CONE - SAE J516/J514 (THRUST-WIRE NUT)

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	F	H2		
OPF22812-04A04	6	- 4	1/4"	1/4" - 18		4	45	4,2	17,5	19		
OPF22812-06A06	10	- 6	3/8"	3/8" - 18		7	50,5	6	21	22		
OPF22812-08A08	12	- 8	1/2"	1/2" - 14		9,3	54	6,5	23	27		
OPF22812-12A12	19	- 12	3/4"	3/4" - 14		15	61	9	24,5	32		
OPF22812-16A16	25	- 16	1"	1" - 11,5		19,8	75,5	10,5	27,5	38		

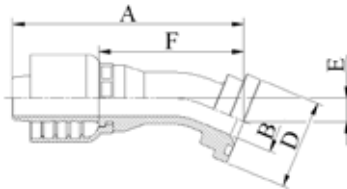


SAE STANDARD CONNECTIONS

OPF23311

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

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	F		
OPF23311-08A08	12	- 8	1/2"	1/2"	9,3	82	30,3	51			
OPF23311-08A12	12	- 8	1/2"	3/4"	15,1	89	38	58			
OPF23311-10A12	16	- 10	5/8"	3/4"	15	100	38	65,5			
OPF23311-12A12	19	- 12	3/4"	3/4"	15	94,5	38	58			
OPF23311-12A16	19	- 12	3/4"	1"	20	94,5	44,6	58			
OPF23311-16A16	25	- 16	1"	1"	19,8	112,5	44,6	64,5			
OPF23311-16A20	25	- 16	1"	1.1/4"	26	118,5	51	70,5			

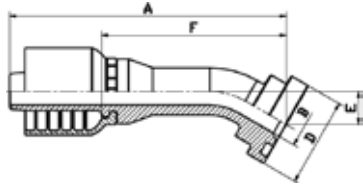


SAE STANDARD CONNECTIONS

OPF23321

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

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm					
	DN	Dash	inch		Inch	B	A	D	E	F
OPF23321-08A08	12	- 8	1/2"	1/2"	9,3	95	30,3	8	64	
OPF23321-12A12	19	- 12	3/4"	3/4"	15	111	38	10	74,5	
OPF23321-12A16	19	- 12	3/4"	1"	20	111	44,6	10	74,5	
OPF23321-16A16	25	- 16	1"	1"	19,8	137	44,6	11,5	89	



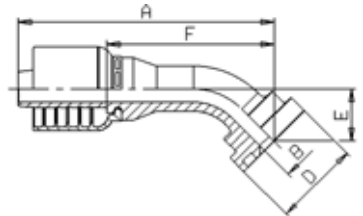
SAE STANDARD CONNECTIONS

OPF23331

30° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	F	
OPF23331-08A08	12	- 8	1/2"	1/2"	9,3	93,5	30,3	11	62,5		
OPF23331-12A12	19	- 12	3/4"	3/4"	15	109,5	38	14	73		
OPF23331-12A16	19	- 12	3/4"	1"	20	109,5	44,6	14	73		
OPF23331-16A16	25	- 16	1"	1"	19,8	135	44,6	16,5	87		

FITTINGS
F 9-26

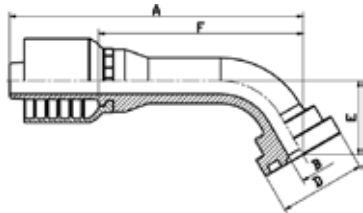


SAE STANDARD CONNECTIONS

OPF23341

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

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	F	
OPF23341-08A08	12	- 8	1/2"	1/2"	9,3	90	30,3	18,5	58,5		
OPF23341-08A12	12	- 8	1/2"	3/4"	15	90,5	38	19	59,5		
OPF23341-10A12	16	- 10	5/8"	3/4"	15	95	38	22	61		
OPF23341-12A12	19	- 12	3/4"	3/4"	15	104,5	38	23	68,5		
OPF23341-12A16	19	- 12	3/4"	1"	20	104,5	44,6	23	68,5		
OPF23341-16A16	25	- 16	1"	1"	19,8	129,5	44,6	27,5	81,5		
OPF23341-16A20	25	- 16	1"	1.1/4"	26	129,5	51	27,5	81,5		

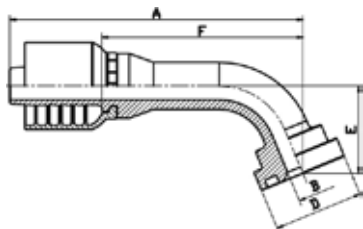


SAE STANDARD CONNECTIONS

OPF23361

60° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	F	
OPF23361-08A08	12	- 8	1/2"	1/2"	9,3	102,5	30,3	26	71,5		
OPF23361-12A12	19	- 12	3/4"	3/4"	15	123,5	38	33	87		
OPF23361-16A16	25	- 16	1"	1"	19,8	152	44,6	39	104		
OPF23361-16A20	25	- 16	1"	1.1/4"	26	152	51	39	104		

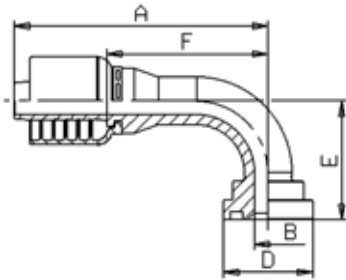


SAE STANDARD CONNECTIONS

OPF23371

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

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	F	
OPF23371-08A08	12	- 8	1/2"	1/2"	9,3	99	30,3	29,5	68		
OPF23371-12A12	19	- 12	3/4"	3/4"	15	118,5	38	38	82		
OPF23371-12A16	19	- 12	3/4"	1"	20	118,5	44,6	38	82		
OPF23371-16A16	25	- 16	1"	1"	19,8	147	44,6	45	98,5		



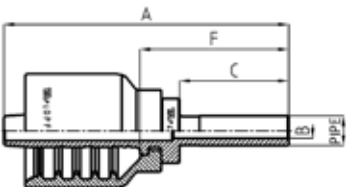
SAE STANDARD CONNECTIONS

OPF23391

90° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	F	
OPF23391-08A08	12	- 8	1/2"	1/2"	9,3	85,5	30,3	40	54,5		
OPF23391-08A12	12	- 8	1/2"	3/4"	15	85,5	38	41	54,5		
OPF23391-10A12	16	- 10	5/8"	3/4"	15	90	38	47,5	56		
OPF23391-12A12	19	- 12	3/4"	3/4"	15	101	38	52	64,5		
OPF23391-12A16	19	- 12	3/4"	1"	20	101	44,6	52	64,5		
OPF23391-16A16	25	- 16	1"	1"	19,8	125,5	44,6	62	77,5		
OPF23391-16A20	25	- 16	1"	1.1/4"	26	125,5	51	62	77,5		

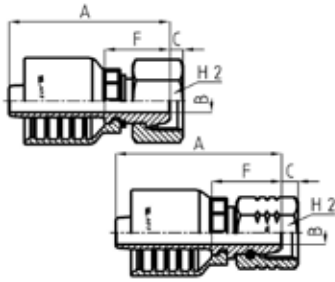
DIN STANDARD CONNECTIONS



OPF22010

METRIC STANDPIPE STRAIGHT L.T.

PART. REF.	HOSE BORE			Pipe	DIMENSIONS mm						
	DN	Dash	inch		mm	B	A	C	F		
OPF22010-04A06	6	- 4	1/4"	6	3	57,5	22	30			
OPF22010-06A10	10	- 6	3/8"	10	7	61	23	31,5			

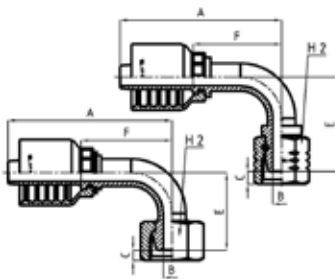


DIN STANDARD CONNECTIONS

OPF21312/OPF21313

METRIC FEMALE MULTISEAL

PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	F	H2
OPF21312-06A16	10	-6	3/8"	M 16x1,5	10	7	51	5	21,5	19		
OPF21313-06A18	10	-6	3/8"	M 18x1,5	12	7	49,5	4	20	22		
OPF21313-08A22	12	-8	1/2"	M 22x1,5	15	9,3	52,5	4,7	21,5	27		

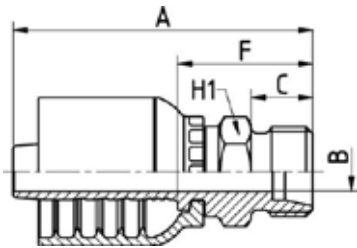


DIN STANDARD CONNECTIONS

OPF21392/OPF21393

90° METRIC FEMALE MULTISEAL

PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	E	F
OPF21392-06A16	10	-6	3/8"	M 16x1,5	10	7	65	5	38	35,5	19	
OPF21393-06A18	10	-6	3/8"	M 18x1,5	12	7	66	4	31,5	36,5	22	



DIN STANDARD CONNECTIONS

OPF11110

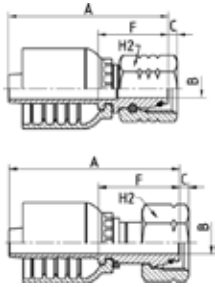
METRIC MALE 24° CONE SEAT LIGHT DUTY - DIN 20066 / ISO 12151-2

PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	F	H1
OPF11110-04A12	6	- 4	1/4"	M 12x1,5	6	4	49	10	21,5	14		
OPF11110-04A14	6	- 4	1/4"	M 14x1,5	8	4	49	10	21,5	14		
OPF11110-04A16	6	- 4	1/4"	M 16x1,5	10	7	51	11	23,5	17		
OPF11110-04A18	6	- 4	1/4"	M 18x1,5	12	9	51	11	23,5	19		
OPF11110-05A16	8	- 5	5/16"	M 16x1,5	10	7	52	11	24	17		
OPF11110-05A18	8	- 5	5/16"	M 18x1,5	12	9	52	11	24	19		
OPF11110-06A16	10	- 6	3/8"	M 16x1,5	10	7	53,5	11	24	17		
OPF11110-06A18	10	- 6	3/8"	M 18x1,5	12	9	54	11	24,5	19		
OPF11110-06A22	10	- 6	3/8"	M 22x1,5	15	10	55	12	25,5	22		
OPF11110-08A22	12	- 8	1/2"	M 22x1,5	15	10	56,5	12	25,5	22		
OPF11110-08A26	12	- 8	1/2"	M 26x1,5	18	12,5	57,5	12	26,5	27		
OPF11110-10A22	16	- 10	5/8"	M 22x1,5	15	10	60	12	25,5	22		
OPF11110-10A26	16	- 10	5/8"	M 26x1,5	18	12,5	61	12	26,5	27		
OPF11110-12A30	19	- 12	3/4"	M 30x2	22	15	66,5	14	30	30		
OPF11110-16A36	25	- 16	1"	M 36x2	28	19,8	80,5	14	32,5	36		

DIN STANDARD CONNECTIONS

OPF21512/OPF21513

METRIC O-RING FEMALE 24° CONE LIGHT DUTY - DIN 20066 / ISO 12151-2



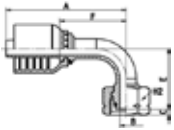
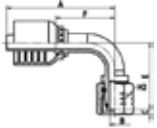
PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	F	H2
OPF21512-04A12	6	-4	1/4"	M 12x1,5	6	3	48,5	2,2	21	17		
OPF21513-04A14	6	-4	1/4"	M 14x1,5	8	4	49,5	1,3	22	17		
OPF21513-04A16	6	-4	1/4"	M 16x1,5	10	6	50	1,8	22,5	19		
OPF21513-04A18	6	-4	1/4"	M 18x1,5	12	7	49,5	2	22	22		
OPF21512-05A14	8	-5	5/16"	M 14x1,5	8	4	48	2,9	20	17		
OPF21513-05A16	8	-5	5/16"	M 16x1,5	10	6	50,5	1,8	22,5	19		
OPF21513-05A18	8	-5	5/16"	M 18x1,5	12	7	50	2	22	22		
OPF21512-06A16	10	-6	3/8"	M 16x1,5	10	6	52,5	3	23	19		
OPF21513-06A18	10	-6	3/8"	M 18x1,5	12	7	52	2	22,5	22		
OPF21513-06A22	10	-6	3/8"	M 22x1,5	15	9,3	54,5	1,5	25	27		
OPF21512-08A18	12	-8	1/2"	M 18x1,5	12	7	60	2,9	29	22		
OPF21513-08A22	12	-8	1/2"	M 22x1,5	15	9,3	56,5	1,5	25,5	27		
OPF21513-08A26	12	-8	1/2"	M 26x1,5	18	12,5	57	2	26	32		
OPF21513-10A26	16	-10	5/8"	M 26x1,5	18	12,5	60,5	2	26	32		
OPF21513-10A30	16	-10	5/8"	M 30x2	22	15	68,5	3	34	36		
OPF21512-12A26	19	-12	3/4"	M 26x1,5	18	12,5	67,5	2,3	31	32		
OPF21513-12A30	19	-12	3/4"	M 30x2	22	15	64,5	3	28	36		
OPF21513-12A36	19	-12	3/4"	M 36x2	28	20	65	3,7	28,5	41		
OPF21513-16A36	25	-16	1"	M 36x2	28	19,8	77,5	3,7	29,5	41		

OPF21512: THRUST-WIRE NUT / OPF21513: SLIP-ON NUT

DIN STANDARD CONNECTIONS

OPF21592/OPF21593

90° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE LIGHT DUTY
DIN 20066 / ISO 12151-2



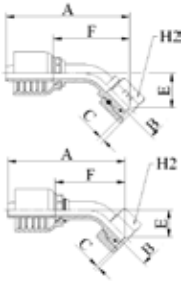
PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	E	F
OPF21593-03A12	5	- 3	3/16"	M 12x1,5	6	3	47,5	0,7	30	26	14	
OPF21592-04A12	6	- 4	1/4"	M 12x1,5	6	3	56	2,2	32,5	28,5	17	
OPF21593-04A14	6	- 4	1/4"	M 14x1,5	8	4	57	1,3	31,5	29,5	17	
OPF21593-04A16	6	- 4	1/4"	M 16x1,5	10	6	57	1,8	32	29,5	19	
OPF21593-04A18	6	- 4	1/4"	M 18x1,5	12	7	57	2	33	29,5	22	
OPF21593-05A16	8	- 5	5/16"	M 16x1,5	10	6	60	1,8	32,5	32	19	
OPF21593-05A18	8	- 5	5/16"	M 18x1,5	12	7	60	2	32,5	32	22	
OPF21592-06A16	10	- 6	3/8"	M 16x1,5	10	6	65	3	40	35,5	19	
OPF21593-06A18	10	- 6	3/8"	M 18x1,5	12	7	66	2	33,5	36,5	22	
OPF21593-06A22	10	- 6	3/8"	M 22x1,5	15	9,3	66	1,5	35	36,5	27	
OPF21592-08A18	12	- 8	1/2"	M 18x1,5	12	7	75	2,9	48	44	22	
OPF21593-08A22	12	- 8	1/2"	M 22x1,5	15	9,3	76	1,5	39,5	45	27	
OPF21593-08A26	12	- 8	1/2"	M 26x1,5	18	12,5	76	2	40	45	32	
OPF21593-10A26	16	- 10	5/8"	M 26x1,5	18	12,5	86	2	53	51,5	32	
OPF21593-10A30	16	- 10	5/8"	M 30x2	22	15	86	3	54	51,5	36	
OPF21593-12A30	19	- 12	3/4"	M 30x2	22	15	97,5	3	59,5	61,5	36	
OPF21593-16A36	25	- 16	1"	M 36x2	28	19,8	125	3,7	69,5	76,5	41	

OPF21592: THRUST-WIRE NUT / OPF21593: SLIP-ON NUT

DIN STANDARD CONNECTIONS

OPF21542/OPF21543

45° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE LIGHT DUTY
DIN 20066 / ISO 12151-2



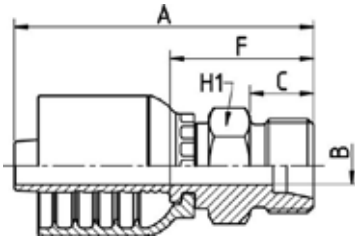
PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	F	H2
OPF21543-04A14	6	- 4	1/4"	M 14x1,5	8	4	65,5	1,3	16,5	38	17	
OPF21543-04A16	6	- 4	1/4"	M 16x1,5	10	6	65,5	1,8	17	38	19	
OPF21543-05A16	8	- 5	5/16"	M 16x1,5	10	6	69,5	1,8	17,5	41,5	19	
OPF21543-05A18	8	- 5	5/16"	M 18x1,5	12	7	69,5	2	17	41,5	22	
OPF21542-06A16	10	- 6	3/8"	M 16x1,5	10	6	77	3	21,5	47,5	19	
OPF21543-06A18	10	- 6	3/8"	M 18x1,5	12	7	73	2	16,5	43,5	22	
OPF21543-06A22	10	- 6	3/8"	M 22x1,5	15	9,3	74	1,5	18	45	27	
OPF21543-08A22	12	- 8	1/2"	M 22x1,5	15	9,3	83	1,5	19	52	27	
OPF21543-10A26	16	- 10	5/8"	M 26x1,5	18	12,5	96,5	2	26,5	62	32	
OPF21543-12A30	19	- 12	3/4"	M 30x2	22	15	107,5	3	28,5	71	36	
OPF21543-16A36	25	- 16	1"	M 36x2	28	19,8	133	3,7	32	85	41	

OPF21542: THRUST-WIRE NUT / OPF21543: SLIP-ON NUT

DIN STANDARD CONNECTIONS

OPF11210

METRIC MALE 24° CONE SEAT HEAVY DUTY - DIN 20066 / ISO 12151-2

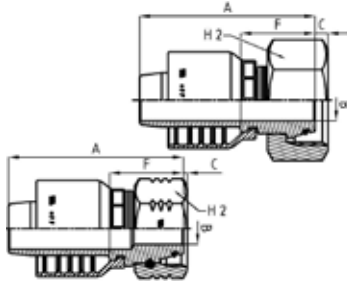


PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	F	H1
OPF11210-04A16	6	- 4	1/4"	M 16x1,5	8	5,5	53	12	25,5	17		
OPF11210-04A18	6	- 4	1/4"	M 18x1,5	10	6	54	12	26,5	19		
OPF11210-04A20	6	- 4	1/4"	M 20x1,5	12	7	56,5	12	29	22		
OPF11210-05A20	8	- 5	5/16"	M 20x1,5	12	7	57	12	29	22		
OPF11210-06A18	10	- 6	3/8"	M 18x1,5	10	7	56,5	12	27	19		
OPF11210-06A20	10	- 6	3/8"	M 20x1,5	12	7	58,5	12	29	22		
OPF11210-06A22	10	- 6	3/8"	M 22x1,5	14	8	60,5	14	31	22		
OPF11210-08A24	12	- 8	1/2"	M 24x1,5	16	9,3	62,5	14	31,5	24		
OPF11210-10A30	16	- 10	5/8"	M 30x2	20	15	70	16	35,5	30		
OPF11210-12A30	19	- 12	3/4"	M 30x2	20	15	73,5	16	37	30		
OPF11210-12A36	19	- 12	3/4"	M 36x2	25	19,8	77,5	18	41	36		
OPF11210-16A36	25	- 16	1"	M 36x2	25	19,8	90,5	18	42,5	36		
OPF11210-16A42	25	- 16	1"	M 42x2	30	25	92,5	20	44,5	46		

DIN STANDARD CONNECTIONS

OPF21612/OPF21613

METRIC O-RING FEMALE 24° CONE HEAVY DUTY - DIN 20066 / ISO 12151-2



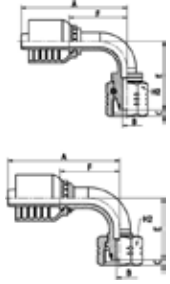
PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	F	H2
OPF21613-03A16	5	- 3	3/16"	M 16x1,5	8	3	43	3,4	21,5	19		
OPF21613-04A14	6	- 4	1/4"	M 14x1,5	6	3	51	1,9	23,5	17		
OPF21613-04A16	6	- 4	1/4"	M 16x1,5	8	4	49,5	3,4	22	19		
OPF21613-04A18	6	- 4	1/4"	M 18x1,5	10	4	55,5	2,5	28	22		
OPF21613-04A20	6	- 4	1/4"	M 20x1,5	12	7	53,5	2	26	24		
OPF21613-05A18	8	- 5	5/16"	M 18x1,5	10	5,5	56	2,5	28	22		
OPF21613-05A20	8	- 5	5/16"	M 20x1,5	12	5,5	53	2	25	24		
OPF21613-06A20	10	- 6	3/8"	M 20x1,5	12	7	54,5	2	25,5	24		
OPF21613-06A22	10	- 6	3/8"	M 22x1,5	14	7	62	3	32,5	27		
OPF21613-08A24	12	- 8	1/2"	M 24x1,5	16	9,3	58	4	26,5	30		
OPF21613-10A30	16	- 10	5/8"	M 30x2	20	12,5	65	3,5	30,5	36		
OPF21612-12A30	19	- 12	3/4"	M 30x2	20	12,5	70	2,2	33,5	36		
OPF21613-12A36	19	- 12	3/4"	M 36x2	25	15	70,5	4,5	34	41		
OPF21612-16A36	25	- 16	1"	M 36x2	25	15	83,5	1,7	35,5	41		
OPF21613-16A42	25	- 16	1"	M 42x2	30	19,8	83,5	6,3	35,5	50		

OPF21612: THRUST-WIRE NUT / OPF21613: SLIP-ON NUT

DIN STANDARD CONNECTIONS

OPF21692/OPF21693

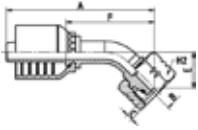
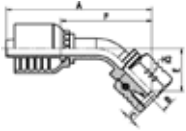
90° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY
DIN 20066 / ISO 12151-2



PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	E	F
OPF21693-04A16	6	- 4	1/4"	M 16x1,5	8	4	57	3,4	29,5	29,5	19	
OPF21693-04A18	6	- 4	1/4"	M 18x1,5	10	4	57	2,5	31	29,5	22	
OPF21693-04A20	6	- 4	1/4"	M 20x1,5	12	5,5	57	2	34,5	29,5	24	
OPF21693-05A20	8	- 5	5/16"	M 20x1,5	12	5,5	60	2	34	32	24	
OPF21693-06A20	10	- 6	3/8"	M 20x1,5	12	7	66	2	35	36,5	24	
OPF21693-06A22	10	- 6	3/8"	M 22x1,5	14	7	66	3	37	36,5	27	
OPF21693-06A24	10	- 6	3/8"	M 24x1,5	16	9,3	66	4	36	36,5	30	
OPF21693-08A24	12	- 8	1/2"	M 24x1,5	16	9,3	76	4	40,5	45	30	
OPF21693-10A30	16	- 10	5/8"	M 30x2	20	12,5	86	3,5	57,5	51,5	36	
OPF21692-12A30	19	- 12	3/4"	M 30x2	20	12,5	98	2,2	67,5	61,5	36	
OPF21693-12A36	19	- 12	3/4"	M 36x2	25	15	97,5	4,5	64,5	61,5	41	
OPF21692-16A36	25	- 16	1"	M 36x2	25	15	127,5	1,7	86	79,5	41	
OPF21693-16A42	25	- 16	1"	M 42x2	30	19,8	127,5	6,3	74,5	79	50	

OPF21692: THRUST-WIRE NUT / OPF21693: SLIP-ON NUT

DIN STANDARD CONNECTIONS

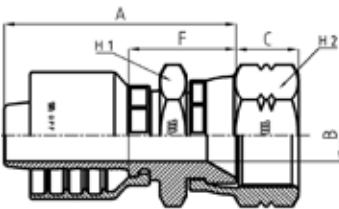


OPF21642/OPF21643

**45° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY
DIN 20066 / ISO 12151-2**

PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	E	F
OPF21643-04A16	6	- 4	1/4"	M 16x1,5	8	4	64	3,4	15	36,5	19	
OPF21643-04A18	6	- 4	1/4"	M 18x1,5	10	4	65	2,5	16,5	37,5	22	
OPF21643-05A20	8	- 5	5/16"	M 20x1,5	12	5,5	70	2	18,5	42	24	
OPF21643-06A20	10	- 6	3/8"	M 20x1,5	12	7	73,5	2	17	44	24	
OPF21643-06A22	10	- 6	3/8"	M 22x1,5	14	7	75	3	18,5	45,5	27	
OPF21643-08A24	12	- 8	1/2"	M 24x1,5	16	9,3	83,5	4	20	52,5	30	
OPF21643-10A30	16	- 10	5/8"	M 30x2	20	12,5	99,5	3,5	29,5	65,5	36	
OPF21642-12A30	19	- 12	3/4"	M 30x2	20	12,5	113	2,2	34	76,5	36	
OPF21643-12A36	19	- 12	3/4"	M 36x2	25	15	111,5	4,5	32,5	75	41	
OPF21643-16A42	25	- 16	1"	M 42x2	30	19,8	138	6,3	35,5	90	50	

OPF21642: THRUST-WIRE NUT / OPF21643: SLIP-ON NUT

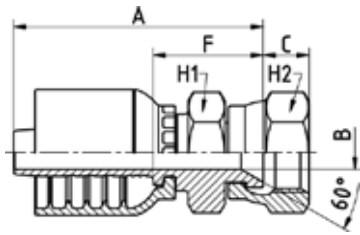


JIS STANDARD CONNECTIONS

OPF24011

JIS METRIC FEMALE (KOMATSU)

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	F	H1	H2
OPF24011-04A14	6	- 4	1/4"	M 14x1,5		4	50,5	10,5	23	19	19	
OPF24011-06A14	10	- 6	3/8"	M 14x1,5		4	53	10,5	23,5	19	19	
OPF24011-06A18	10	- 6	3/8"	M 18x1,5		7	53	11,5	23,5	24	24	
OPF24011-08A22	12	- 8	1/2"	M 22x1,5		9,3	56	13	25	27	27	
OPF24011-10A24	16	- 10	5/8"	M 24x1,5		12,5	61	15,1	26,5	32	32	
OPF24011-12A30	19	- 12	3/4"	M 30x1,5		15	68	18,3	31,5	36	36	
OPF24011-16A33	25	- 16	1"	M 33x1,5		19,8	81,5	21,3	33,5	41	41	

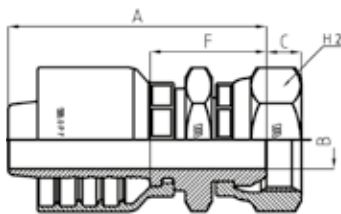


JIS STANDARD CONNECTIONS

OPF23811

JIS BSP FEMALE 60° CONE SEAT (TOYOTA) - JIS B 8363
(CRIMPED-BACK NUT)

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	F	H1	H2
OPF23811-04A04	6	- 4	1/4"	1/4" - 19		4	46	8,3	18,5	19	19	
OPF23811-06A06	10	- 6	3/8"	3/8" - 19		7	52,5	10	23	22	22	
OPF23811-08A08	12	- 8	1/2"	1/2" - 14		9,3	53	11,5	22	27	27	
OPF23811-12A12	19	- 12	3/4"	3/4" - 14		15	62,5	13,5	26	32	32	
OPF23811-16A16	25	- 16	1"	1" - 11		19,8	78,5	14,5	30,5	38	38	

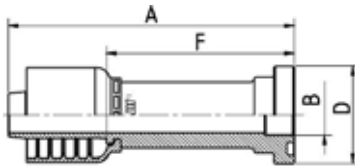


JIS STANDARD CONNECTIONS

OPF20711

JIS BSP FEMALE 60° CONE (NISSAN)
JIS B 8363

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	F	H1	H2
OPF20711-12A12	19	- 12	3/4"	3/4" - 14		15	66,5	8,9	30	32	32	

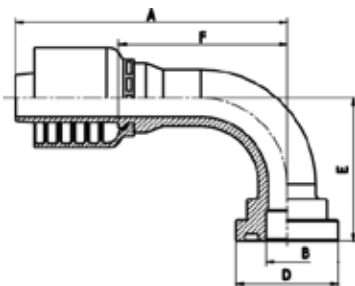


ORIGINAL EQUIPMENT CONNECTIONS

OPF24111

STRAIGHT KOMATSU FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	F			
OPF24111-10A10	16	- 10	5/8"	5/8"	14	100	34	65,5				

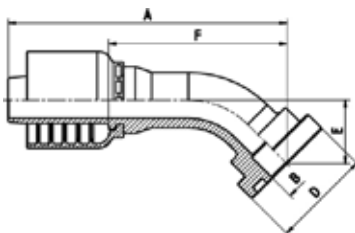


ORIGINAL EQUIPMENT CONNECTIONS

OPF24191

90° KOMATSU FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	E	F		
OPF24191-10A10	16	- 10	5/8"	5/8"	14	90	34	47,5	56			



ORIGINAL EQUIPMENT CONNECTIONS

OPF24141

45° KOMATSU FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	E	F		
OPF24141-10A10	16	- 10	5/8"	5/8"	14	95	34	22	61			



OPK

FITTING CODE	SECTION	PAGE
OPK10510	10	1
OPK11110	10	27
OPK11210	10	31
OPK11710	10	33
OPK11810	10	33
OPK12410	10	14
OPK12510	10	10
OPK12810	10	20
OPK13010	10	19
OPK14110R	10	21
OPK14310	10	19
OPK20512-OPK20513	10	2
OPK20542-OPK20543	10	4
OPK20592-OPK20593	10	3
OPK20812-OPK20813	10	5
OPK20842-OPK20843	10	7
OPK20892-OPK20893	10	6
OPK21512-OPK21513	10	28
OPK21542-OPK21543	10	30
OPK21592-OPK21593	10	29
OPK21612-OPK21613	10	31
OPK21642-OPK21643	10	32
OPK21692-OPK21693	10	32
OPK21813	10	33
OPK22411	10	15
OPK22441-OPK22443	10	18
OPK22491-OPK22493	10	16
OPK22541KR	10	9

FITTING CODE	SECTION	PAGE
OPK22542-OPK22543	10	13
OPK22591KR	10	8
OPK22592-OPK22593	10	11
OPK22711-OPK22711KR	10	8
OPK22712	10	10
OPK22812	10	21
OPK23311	10	22
OPK23321	10	22
OPK23331	10	23
OPK23341	10	23
OPK23361	10	24
OPK23371	10	24
OPK23391	10	25
OPK23611	10	25
OPK23641	10	26
OPK23691	10	26
OPK23811	10	34
OPK23911	10	36
OPK23941	10	37
OPK23991	10	36
OPK24011-OPK24012	10	34
OPK24111	10	35
OPK24141	10	35
OPK24191	10	35
OPK24491 LONG DROP	10	17
OPK24791KR	10	9
OPK24792-OPK24793 LONG DROP	10	12
OPK3610	10	1

OPK

DN	5	6	8	10	12	16	19	25	31	38	51
Inch	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"
Size	-03	-04	-05	-06	-08	-10	-12	-16	-20	-24	-32

FERRULES

OPK3610											
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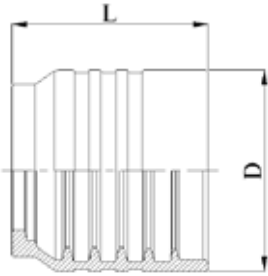
FITTINGS

BSP											
SAE (JIC)											
SAE (ORFS)											
SAE (O-RING BOSS)											
SAE (NPTF-NPSM)											
SAE FLANGE CODE 61											
SAE FLANGE CODE 62											
DIN METRIC 24° CONE LIGHT TYPE											
DIN METRIC 24° CONE HEAVY TYPE											
NF (FRENCH MILLIMETRIC TYPE)											
NF (FRENCH GAZ TYPE)											
JIS											
ORIGINAL EQUIPMENT CONNECTIONS											

FERRULE

OPK3610

NO-SKIVE FERRULE FOR BRAIDED AND SPIRAL HOSES

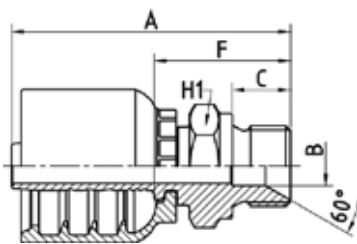


PART. REF.	HOSE BORE			DIMENSIONS mm							
	DN	Dash	inch	D	L						
OPK3610-06	10	- 6	3/8"	29,5	30,7						
OPK3610-08	12	- 8	1/2"	33,4	32						
OPK3610-10	16	- 10	5/8"	37,2	34,8						
OPK3610-12	19	- 12	3/4"	41,1	40						
OPK3610-16	25	- 16	1"	49,1	51						
OPK3610-20	31	- 20	1.1/4"	59,5	54,5						
OPK3610-24	38	- 24	1.1/2"	67	66						
OPK3610-32	51	- 32	2"	81,3	72						

BS STANDARD CONNECTIONS

OPK10510

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

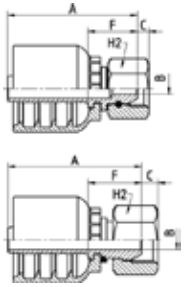


PART. REF.	HOSE BORE			Thread	DIMENSIONS mm					
	DN	Dash	inch		T	B	A	C	F	H1
OPK10510-06A04	10	- 6	3/8"	1/4" - 19	5	55,5	11	26	19	
OPK10510-06A06	10	- 6	3/8"	3/8" - 19	8	57,5	12	28	22	
OPK10510-06A08	10	- 6	3/8"	1/2" - 14	11	60	14	30,5	27	
OPK10510-08A06	12	- 8	1/2"	3/8" - 19	8	59	12	28	22	
OPK10510-08A08	12	- 8	1/2"	1/2" - 14	11	62	14	31	27	
OPK10510-08A10	12	- 8	1/2"	5/8" - 14	14,5	64	16	33	30	
OPK10510-08A12	12	- 8	1/2"	3/4" - 14	17	65	16	34	32	
OPK10510-10A10	16	- 10	5/8"	5/8" - 14	14,5	67,5	16	33	30	
OPK10510-10A12	16	- 10	5/8"	3/4" - 14	17	68,5	16	35,5	32	
OPK10510-12A12	19	- 12	3/4"	3/4" - 14	17	72	16	35,5	32	
OPK10510-12A16	19	- 12	3/4"	1" - 11	22,5	76	19	39,5	41	
OPK10510-16A16	25	- 16	1"	1" - 11	22,5	89	19	41	41	
OPK10510-16A20	25	- 16	1"	1.1/4" - 11	28,5	93	20	45	50	
OPK10510-20A20	31	- 20	1.1/4"	1.1/4" - 11	28,5	99	20	46,5	50	
OPK10510-24A24	38	- 24	1.1/2"	1.1/2" - 11	33,5	111,5	22	49,5	55	
OPK10510-32A32	51	- 32	2"	2" - 11	46	120	25	54	70	

BS STANDARD CONNECTIONS

OPK20512/OPK20513

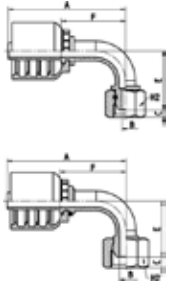
BSP FEMALE 60° CONE - BS5200 / ISO 12151-6



FITTINGS
F 10-2

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	F	H2	
OPK20512-06A04	10	- 6	3/8"	1/4" - 19	4,1	47,5	4,2	18	19		
OPK20513-06A06	10	- 6	3/8"	3/8" - 19	7	49	6	19,5	22		
OPK20513-06A08	10	- 6	3/8"	1/2" - 14	9,3	49,5	6,3	20	27		
OPK20512-08A06	12	- 8	1/2"	3/8" - 19	7,1	52	6	21	22		
OPK20513-08A08	12	- 8	1/2"	1/2" - 14	9,3	51,5	6,3	20,5	27		
OPK20512-08A10	12	- 8	1/2"	5/8" - 14	12,1	53	10,2	22	28		
OPK20512-08A12	12	- 8	1/2"	3/4" - 14	15	56	9	24,5	32		
OPK20512-10A10	16	- 10	5/8"	5/8" - 14	12,5	56	10,2	21,5	28		
OPK20512-10A12	16	- 10	5/8"	3/4" - 14	15	57,5	9	23	32		
OPK20512-12A12	19	- 12	3/4"	3/4" - 14	15	61	9	24,5	32		
OPK20512-12A16	19	- 12	3/4"	1" - 11	19,8	62,5	10,5	26	38		
OPK20512-16A16	25	- 16	1"	1" - 11	19,8	75,5	10,5	27,5	38		

OPK20512: THRUST-WIRE NUT / OPK20513: SLIP-ON NUT



BS STANDARD CONNECTIONS

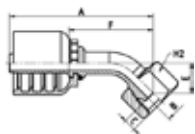
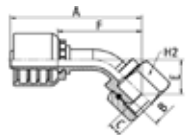
OPK20592/OPK20593

90° BSP FEMALE ELBOW 60° CONE - BS5200 /

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	F	H2
OPK20593-06A06	10	- 6	3/8"	3/8" - 19		7	66	6	31,5	36,5	22	
OPK20593-06A08	10	- 6	3/8"	1/2" - 14		9,3	66	6,3	32	36,5	27	
OPK20592-08A06	12	- 8	1/2"	3/8" - 19		7,1	76	6	41	45	22	
OPK20593-08A08	12	- 8	1/2"	1/2" - 14		9,3	76	6,3	36,5	45	27	
OPK20592-08A10	12	- 8	1/2"	5/8" - 14		12,1	75,5	10,2	44	44	28	
OPK20592-08A12	12	- 8	1/2"	3/4" - 14		15	75,5	9	45,5	44	32	
OPK20592-10A10	16	- 10	5/8"	5/8" - 14		12,5	88	10,2	53,5	53,5	28	
OPK20592-10A12	16	- 10	5/8"	3/4" - 14		15	88	9	55	53,5	32	
OPK20592-12A12	19	- 12	3/4"	3/4" - 14		15	98	9	59,5	61,5	32	
OPK20592-12A16	19	- 12	3/4"	1" - 11		19,8	98	10,5	62	61,5	38	
OPK20592-16A16	25	- 16	1"	1" - 11		19,8	127,5	10,5	76	79,5	38	

OPK20592: THRUST-WIRE NUT / OPK20593: SLIP-ON NUT

BS STANDARD CONNECTIONS



OPK20542/OPK20543

45° BSP FEMALE ELBOW 60° CONE - BS5200 / ISO 12151-6

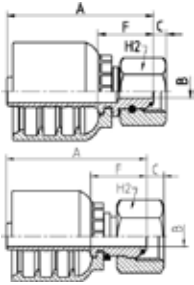
PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	F	H2
OPK20543-06A06	10	- 6	3/8"	3/8" - 19		7	71,5	6	15,5	42	22	
OPK20543-06A08	10	- 6	3/8"	1/2" - 14		9,3	72	6,3	16	42,5	27	
OPK20543-08A08	12	- 8	1/2"	1/2" - 14		9,3	81	6,3	17	49,5	27	
OPK20542-08A10	12	- 8	1/2"	5/8" - 14		12,1	85,5	10,2	22,5	54,5	28	
OPK20542-10A10	16	- 10	5/8"	5/8" - 14		12,5	97,5	10,2	26	63	28	
OPK20542-10A12	16	- 10	5/8"	3/4" - 14		15	98	9	27	64	32	
OPK20542-12A12	19	- 12	3/4"	3/4" - 14		15	107	9	28,5	70,5	32	
OPK20542-12A16	19	- 12	3/4"	1" - 11		19,8	109	10,5	30	72,5	38	
OPK20542-16A16	25	- 16	1"	1" - 11		19,8	139,5	10,5	36,5	91	38	

OPK20542: THRUST-WIRE NUT / OPK20543: SLIP-ON NUT

BS STANDARD CONNECTIONS

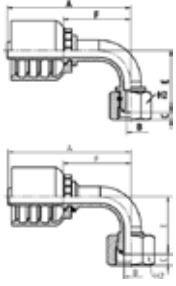
OPK20812/OPK20813

BSP O-RING FEMALE 60° CONE - BS5200 / ISO 12151-6



PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	F	H2	
OPK20812-06A04	10	- 6	3/8"	1/4" - 19	4,1	47,5	4,1	18	19		
OPK20813-06A06	10	- 6	3/8"	3/8" - 19	7	49	6	19,5	22		
OPK20813-08A08	12	- 8	1/2"	1/2" - 14	9,3	51,5	6,3	20,5	27		
OPK20812-10A10	16	- 10	5/8"	5/8" - 14	12,5	56,5	9,7	22	28		
OPK20812-12A12	19	- 12	3/4"	3/4" - 14	15	61,5	8,5	25	32		
OPK20812-16A16	25	- 16	1"	1" - 11	19,8	75,5	10,6	27,5	38		
OPK20812-16A20	25	- 16	1"	1.1/4" - 11	26,1	79	10,5	31	50		
OPK20812-20A20	31	- 20	1.1/4"	1.1/4" - 11	26	84	10,5	31,5	50		
OPK20812-20A24	31	- 20	1.1/4"	1.1/2" - 11	32,1	82	12,5	29,5	60		
OPK20812-24A24	38	- 24	1.1/2"	1.1/2" - 11	32	92,5	12,5	30,5	60		
OPK20812-24A32	38	- 24	1.1/2"	2"	42,1	92	16,1	30	70		
OPK20812-32A32	51	- 32	2"	2"	42	98	16,1	32	70		

OPK20812: THRUST-WIRE NUT / OPK20813: SLIP-ON NUT



BS STANDARD CONNECTIONS

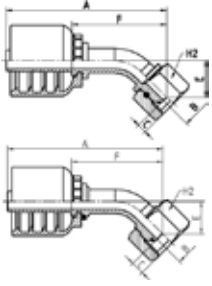
OPK20892/OPK20893

90° BSP O-RING FEMALE SWEPT ELBOW 60° CONE - BS5200 / ISO
12151-6

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	E	F	H2	
OPK20892-06A04	10	- 6	3/8"	1/4" - 19		4,1	65	4,1	33	35,5	19	
OPK20893-06A06	10	- 6	3/8"	3/8" - 19		7	66	6	31,5	36,5	22	
OPK20893-08A08	12	- 8	1/2"	1/2" - 14		9,3	76	6,3	36,5	45	27	
OPK20892-10A10	16	- 10	5/8"	5/8" - 14		12,5	87,5	9,7	55	53	28	
OPK20892-12A12	19	- 12	3/4"	3/4" - 14		15	98	8,5	60	61,5	32	
OPK20892-16A16	25	- 16	1"	1" - 11		19,8	127,5	10,6	76	79,5	38	
OPK20892-16A20	25	- 16	1"	1.1/4" - 11		26,1	127,5	10,5	78,5	79,5	50	
OPK20892-20A20	31	- 20	1.1/4"	1.1/4" - 11		26	143	10,5	83,5	90,5	50	
OPK20892-20A24	31	- 20	1.1/4"	1.1/2" - 11		32,1	143	12,5	84,5	90,5	60	
OPK20892-24A24	38	- 24	1.1/2"	1.1/2" - 11		32	170	12,5	98,5	108	60	
OPK20892-32A32	51	- 32	2"	2" - 11		42	197	16,1	110,5	131	70	

OPK20892: THRUST-WIRE NUT / OPK20893: SLIP-ON NUT

BS STANDARD CONNECTIONS

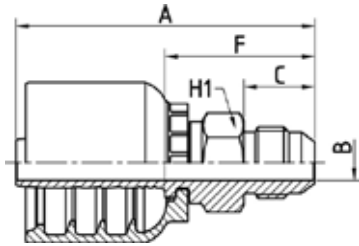


OPK20842/OPK20843

45° BSP O-RING FEMALE SWEEP ELBOW 60° CONE BS5200 / ISO
12151-6

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	E	F	H2
OPK20843-06A06	10	- 6	3/8"	3/8" - 19	7	71,5	6	15,5	42	22	
OPK20843-08A08	12	- 8	1/2"	1/2" - 14	9,3	81	6,3	17	49,5	27	
OPK20842-10A10	16	- 10	5/8"	5/8" - 14	12,5	98	9,7	27,5	63,5	28	
OPK20842-12A12	19	- 12	3/4"	3/4" - 14	15	107,5	8,5	29	71	32	
OPK20842-16A16	25	- 16	1"	1" - 11	19,8	138,5	10,6	35,5	90,5	38	
OPK20842-20A20	31	- 20	1.1/4"	1.1/4" - 11	26	154	10,5	39	101,5	50	
OPK20842-24A24	38	- 24	1.1/2"	1.1/2" - 11	32	180	12,5	45	118	60	
OPK20842-32A32	51	- 32	2"	2" - 11	42	200	16,1	47	134	70	

OPK20842: THRUST-WIRE NUT / OPK20843: SLIP-ON NUT

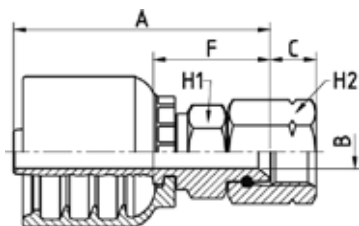


SAE STANDARD CONNECTIONS

OPK12510

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

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	F	H1		
OPK12510-06A06	10	- 6	3/8"	9/16" - 18		7	59	14	29,5	17		
OPK12510-06A08	10	- 6	3/8"	3/4" - 16		9,3	63,5	16,5	34	19		
OPK12510-06A10	10	- 6	3/8"	7/8" - 14		12,5	68	19,5	38,5	24		
OPK12510-08A06	12	- 8	1/2"	9/16" - 18		7	63	14	32	19		
OPK12510-08A08	12	- 8	1/2"	3/4" - 16		9,3	65,5	16,5	34,5	19		
OPK12510-08A10	12	- 8	1/2"	7/8" - 14		12,5	70	19,5	39	24		
OPK12510-08A12	12	- 8	1/2"	1.1/16" - 12		15	74	22	43	27		
OPK12510-10A10	16	- 10	5/8"	7/8" - 14		12,5	73,5	19,5	39	24		
OPK12510-10A12	16	- 10	5/8"	1.1/16" - 12		15	77	22	42,5	27		
OPK12510-12A10	19	- 12	3/4"	7/8" - 14		12,5	78	19,5	41,5	27		
OPK12510-12A12	19	- 12	3/4"	1.1/16" - 12		15	80,5	22	44	27		
OPK12510-12A14	19	- 12	3/4"	1.3/16" - 12		15	81	22,5	44,5	32		
OPK12510-12A16	19	- 12	3/4"	1.5/16" - 12		19,8	83,5	23	47	34		
OPK12510-16A12	25	- 16	1"	1.1/16" - 12		15	93	22	45	32		
OPK12510-16A16	25	- 16	1"	1.5/16" - 12		19,8	96	23	48	34		
OPK12510-16A20	25	- 16	1"	1.5/8" - 12		26	101	24,3	53	42		
OPK12510-20A20	31	- 20	1.1/4"	1.5/8" - 12		26	106	24,3	53,5	42		
OPK12510-20A24	31	- 20	1.1/4"	1.7/8" - 12		32	113	27,5	60,5	50		
OPK12510-24A24	38	- 24	1.1/2"	1.7/8" - 12		32	122,5	27,5	60,5	50		
OPK12510-32A32	51	- 32	2"	2.1/2" - 12		42	138	34	72	65		



SAE STANDARD CONNECTIONS

OPK22712

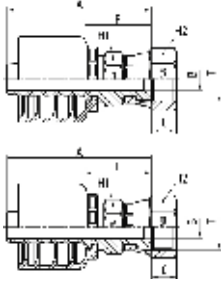
JIC FEMALE 37° CONE SEAT DOUBLE HEXAGON SAE J516 / ISO 12151-5 (THRUST-WIRE NUT)

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	F	H1	H2	
OPK22712-12A16	19	- 12	3/4"	1.5/16" - 12		19,8	69	15	32,5	32	38	
OPK22712-16A20	25	- 16	1"	1.5/8" - 12		26	91	16,2	43	41	50	
OPK22712-20A20	31	- 20	1.1/4"	1.5/8" - 12		26	96	16,2	43,5	41	50	
OPK22712-24A24	38	- 24	1.1/2"	1.7/8" - 12		32	113	18,8	51	50	60	
OPK22712-32A32	51	- 32	2"	2.1/2" - 12		44	117,5	24	51,5	65	75	

SAE STANDARD CONNECTIONS

OPK22711/OPK22711KR

JIC FEMALE 37° CONE SEAT DOUBLE HEXAGON - SAE J516 / ISO 12151-5



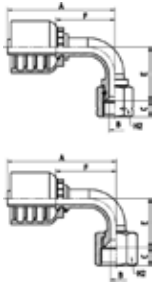
PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	F	H1	H2
OPK22711-06A06KR	10	- 6	3/8"	9/16" - 18	7	51,5	9,5	22	17	17	
OPK22711-06A08KR	10	- 6	3/8"	3/4" - 16	9,3	56	10,7	26,5	19	22	
OPK22711-08A08KR	12	- 8	1/2"	3/4" - 16	9,3	58	10,7	27	19	22	
OPK22711-08A10KR	12	- 8	1/2"	7/8" - 14	9,3	60,5	12,5	29,5	22	25	
OPK22711-08A12KR	12	- 8	1/2"	1.1/16" - 12	15	60	14,1	28,5	27	32	
OPK22711-10A08KR	16	- 10	5/8"	3/4" - 16	9,3	62,5	10,7	28,5	22	22	
OPK22711-10A10KR	16	- 10	5/8"	7/8" - 14	12,5	64	12,5	29,5	22	25	
OPK22711-12A08KR	19	- 12	3/4"	3/4" - 16	9,3	66	10,7	29,5	27	22	
OPK22711-12A10KR	19	- 12	3/4"	7/8" - 14	12,5	67	12,5	30,5	27	25	
OPK22711-12A12KR	19	- 12	3/4"	1.1/16" - 12	15	66,5	14,1	30	27	32	
OPK22711-12A16	19	- 12	3/4"	1.5/16" - 12	19,8	71	15,3	34,5	32	38	
OPK22711-16A12KR	25	- 16	1"	1.1/16" - 12	15	80,5	14,1	32,5	32	32	
OPK22711-16A16	25	- 16	1"	1.5/16" - 12	19,8	83,5	15,3	35,5	32	38	

KR:CRIMPED-BACK KOMPACT ROBUST NUT

SAE STANDARD CONNECTIONS

OPK22592/OPK22593

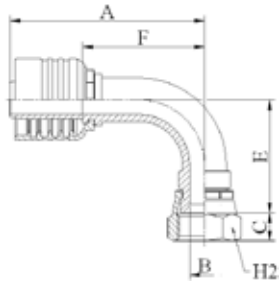
90° JIC FEMALE SWEPT ELBOW 37° CONE SEAT - SAE J516 / ISO
12151-5



FITTINGS
F 10-10

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	E	F	H2
OPK22592-06A05	10	- 6	3/8"	1/2" - 20	5,5	59,5	9,1	26,5	30	17	
OPK22592-06A06	10	- 6	3/8"	9/16" - 18	7	65	9,2	32,5	35,5	19	
OPK22593-06A08	10	- 6	3/8"	3/4" - 16	7	66	10,1	29,5	36,5	22	
OPK22593-06A10	10	- 6	3/8"	7/8" - 14	9,3	66	12,4	31,5	36,5	27	
OPK22592-08A06	12	- 8	1/2"	9/16" - 18	7	68	9,2	33	37	19	
OPK22592-08A08	12	- 8	1/2"	3/4" - 16	9,3	75,5	10,2	41	44	22	
OPK22593-08A10	12	- 8	1/2"	7/8" - 14	9,3	76	12,4	36	45	27	
OPK22593-08A12	12	- 8	1/2"	1.1/16" - 12	12,5	76	14,1	36	45	32	
OPK22592-10A10	16	- 10	5/8"	7/8" - 14	12,5	88	12,3	52,5	53,5	27	
OPK22593-10A12	16	- 10	5/8"	1.1/16" - 12	12,5	86	14,1	50	51,5	32	
OPK22592-12A10	19	- 12	3/4"	7/8" - 14	12,5	91,5	12,3	52,5	55	27	
OPK22592-12A12	19	- 12	3/4"	1.1/16" - 12	15	98	14,2	58	62	32	
OPK22592-12A14	19	- 12	3/4"	1.3/16" - 12	15	99	14,3	58	63	36	
OPK22592-12A16	19	- 12	3/4"	1.5/16" - 12	19,8	99	15	57,5	63	38	
OPK22592-16A16	25	- 16	1"	1.5/16" - 12	19,8	124	15	68,5	76	38	
OPK22592-16A20	25	- 16	1"	1.5/8" - 12	26	125,5	16,2	74,5	77,5	50	
OPK22592-20A20	31	- 20	1.1/4"	1.5/8" - 12	26	143	16,2	86,5	90,5	50	
OPK22592-20A24	31	- 20	1.1/4"	1.7/8" - 12	32	143	18,8	90,5	90,5	60	
OPK22592-24A24	38	- 24	1.1/2"	1.7/8" - 12	32	170	18,8	100,5	108	60	
OPK22592-32A32	51	- 32	2"	2.1/2" - 12	44	208	24	137	142	75	

OPK22592: THRUST-WIRE NUT / OPK22593: SLIP-ON NUT

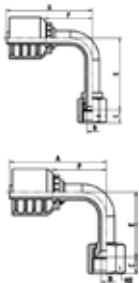


SAE STANDARD CONNECTIONS

OPK22591KR

90° ELBOW JIC FEMALE 37° CONE SEAT SAE J516 / ISO 12151-5
(CRIMPED-BACK NUT)

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	F	H2
OPK22591-06A06KR	10	- 6	3/8"	9/16" - 18		7	65	9,5	32	35,5	17	
OPK22591-08A08KR	12	- 8	1/2"	3/4" - 16		9,3	75,5	10,7	40,5	44	22	
OPK22591-10A10KR	16	- 10	5/8"	7/8" - 14		12,5	88	12,5	47	53,5	25	
OPK22591-12A12KR	19	- 12	3/4"	1.1/16" - 12		15	98	14,1	57	62	32	



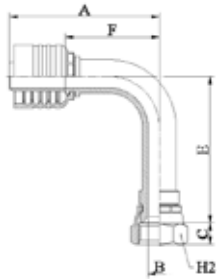
SAE STANDARD CONNECTIONS

OPK24792/OPK24793 LONG DROP

90° JIC FEMALE LONG DROP ELBOW 37° CONE SEAT - SAE J516 / ISO
12151-5

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	F	H2
OPK24792-06A06	10	- 6	3/8"	9/16" - 18		7	65	9,2	55	35,5	19	
OPK24793-06A08	10	- 6	3/8"	3/4" - 16		7	66	10,1	61,5	36,5	22	
OPK24792-08A08	12	- 8	1/2"	3/4" - 16		9,3	75,5	10,2	61	44	22	
OPK24793-08A10	12	- 8	1/2"	7/8" - 14		9,3	76	12,4	65	45	27	
OPK24792-10A10	16	- 10	5/8"	7/8" - 14		12,5	88	12,3	65,5	53,5	27	
OPK24792-12A12	19	- 12	3/4"	1.1/16" - 12		15	98	14,2	94,5	62	32	
OPK24792-16A16	25	- 16	1"	1.5/16" - 12		19,8	125,5	15	110	77,5	38	

OPK24792: THRUST-WIRE NUT / OPK24793: SLIP-ON NUT



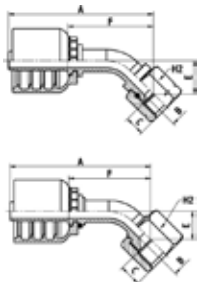
SAE STANDARD CONNECTIONS

OPK24791KR

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

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	E	F	H2
OPK24791-06A06KR	10	- 6	3/8"	9/16" - 18	7	65	9,5	55	35,5	17	
OPK24791-08A08KR	12	- 8	1/2"	3/4" - 16	9,3	75,5	10,7	64	44	22	
OPK24791-10A10KR	16	- 10	5/8"	7/8" - 14	12,5	88	12,5	70	53,5	25	
OPK24791-12A12KR	19	- 12	3/4"	1.1/16" - 12	15	98	14,1	96	62	32	

FITTINGS
F 10-12



SAE STANDARD CONNECTIONS

OPK22542/OPK22543

45° JIC FEMALE SWEEP ELBOW 37° CONE SEAT - SAE J516 / ISO 12151-5

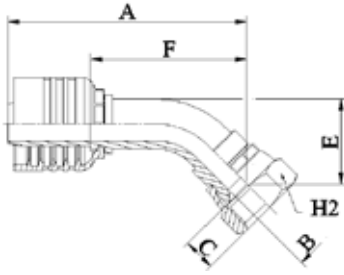
PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	E	F	H2
OPK22542-06A06	10	- 6	3/8"	9/16" - 18	7	71,5	9,2	16,5	42	19	
OPK22543-06A08	10	- 6	3/8"	3/4" - 16	7	70,5	10,1	14	41	22	
OPK22543-06A10	10	- 6	3/8"	7/8" - 14	9,3	72	12,4	15,5	42,5	27	
OPK22542-08A08	12	- 8	1/2"	3/4" - 16	9,3	83	10,2	20	52	22	
OPK22543-08A10	12	- 8	1/2"	7/8" - 14	9,3	80,5	12,4	17	49,5	27	
OPK22543-08A12	12	- 8	1/2"	1.1/16" - 12	12,5	80,5	14,1	17	49,5	32	
OPK22542-10A10	16	- 10	5/8"	7/8" - 14	12,5	96,5	12,3	25,5	62	27	
OPK22543-10A12	16	- 10	5/8"	1.1/16" - 12	12,5	94,5	14,1	24	60	32	
OPK22542-12A12	19	- 12	3/4"	1.1/16" - 12	15	106	14,2	27,5	70	32	
OPK22542-12A14	19	- 12	3/4"	1.3/16" - 12	15	106	14,3	27,5	69,5	36	
OPK22542-12A16	19	- 12	3/4"	1.5/16" - 12	19,8	106,5	15	27,5	70	38	
OPK22542-16A16	25	- 16	1"	1.5/16" - 12	19,8	132,5	15	32	84	38	
OPK22542-16A20	25	- 16	1"	1.5/8" - 12	26	138	16,2	36	90	50	
OPK22542-20A20	31	- 20	1.1/4"	1.5/8" - 12	26	156	16,2	41,5	103,5	50	
OPK22542-20A24	31	- 20	1.1/4"	1.7/8" - 12	32	159	18,8	44,5	106,5	60	
OPK22542-24A24	38	- 24	1.1/2"	1.7/8" - 12	32	181	18,8	46,5	119	60	
OPK22542-32A32	51	- 32	2"	2.1/2" - 12	44	229	24	68	163	75	

OPK22542: THRUST-WIRE NUT / OPK22543: SLIP-ON NUT

SAE STANDARD CONNECTIONS

OPK22541KR

45° ELBOW JIC FEMALE 37° CONE SEAT SAE J516 / ISO 12151-5
(CRIMPED-BACK NUT)

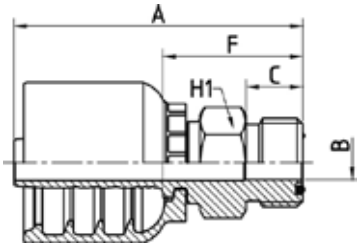


PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	F	H2
OPK22541-06A06KR	10	- 6	3/8"	9/16" - 18		7	71,5	9,5	16	42	17	
OPK22541-08A08KR	12	- 8	1/2"	3/4" - 16		9,3	83	10,7	20	52	22	
OPK22541-10A10KR	16	- 10	5/8"	7/8" - 14		12,5	95,5	12,5	22,5	61	25	
OPK22541-12A12KR	19	- 12	3/4"	1.1/16" - 12		15	105,5	14,1	26,5	69	32	

SAE STANDARD CONNECTIONS

OPK12410

ORFS MALE - SAE J516 / ISO 12151-1

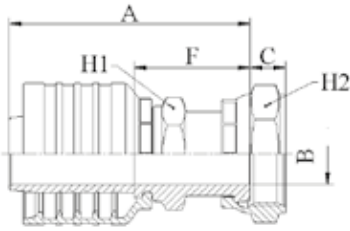


PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	F	H1	
OPK12410-06A06	10	- 6	3/8"	11/16" - 16	6,7	57	11,2	27,5	19		
OPK12410-06A08	10	- 6	3/8"	13/16" - 16	9,3	59,5	12,8	30	22		
OPK12410-08A08	12	- 8	1/2"	13/16" - 16	9,3	61,5	12,8	30,5	22		
OPK12410-08A10	12	- 8	1/2"	1" - 14	12,5	66	15,5	35	27		
OPK12410-10A10	16	- 10	5/8"	1" - 14	12,5	69	15,5	34,5	27		
OPK12410-10A12	16	- 10	5/8"	1.3/16" - 12	15	72	17	37,5	32		
OPK12410-12A12	19	- 12	3/4"	1.3/16" - 12	15	75,5	17	39	32		
OPK12410-12A16	19	- 12	3/4"	1.7/16" - 12	19,8	77	17,5	40,5	38		
OPK12410-16A16	25	- 16	1"	1.7/16" - 12	19,8	90	17,5	42	38		
OPK12410-20A20	31	- 20	1.1/4"	1.11/16" - 12	26	99	17,5	46,5	46		
OPK12410-24A24	38	- 24	1.1/2"	2" - 12	32	110,5	17,5	48,5	55		

SAE STANDARD CONNECTIONS

OPK22411

ORFS FEMALE - SAE J516 / ISO 12151-1 PULLBACK TYPE

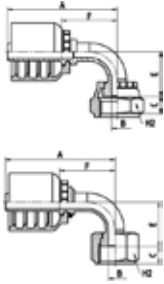


PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	F	H1	H2
OPK22411-06A06	10	-6	3/8"	11/16" - 16	7	60,5	9,5	31	16	22	
OPK22411-06A08	10	-6	3/8"	13/16" - 16	9,3	65	11	35,5	19	24	
OPK22411-08A06	12	-8	1/2"	11/16" - 16	7	63	9,5	32	19	22	
OPK22411-08A08	12	-8	1/2"	13/16" - 16	9,3	67	11	36	19	24	
OPK22411-08A10	12	-8	1/2"	1" - 14	11,5	69,5	13,5	38,5	24	30	
OPK22411-08A12	12	-8	1/2"	1.3/16" - 12	13,9	73	14,5	42	28	36	
OPK22411-10A10	16	-10	5/8"	1" - 14	11,5	73	13,5	38,5	24	30	
OPK22411-10A12	16	-10	5/8"	1.3/16" - 12	13,9	76,5	14,5	42	28	36	
OPK22411-12A10	19	-12	3/4"	1" - 14	11,5	77,5	13,5	41	28	30	
OPK22411-12A12	19	-12	3/4"	1.3/16" - 12	13,9	80	14,5	43,5	28	36	
OPK22411-12A16	19	-12	3/4"	1.7/16" - 12	19,8	82	15	45,5	36	41	
OPK22411-16A12	25	-16	1"	1.3/16" - 12	13,9	94	13,5	48	36	36	
OPK22411-16A16	25	-16	1"	1.7/16" - 12	19,8	94,5	15	46,5	36	41	
OPK22411-16A20	25	-16	1"	1.11/16" - 12	26	97,5	14,8	49,5	41	50	
OPK22411-20A20	31	-20	1.1/4"	1.11/16" - 12	26	101,5	14,8	49	41	50	
OPK22411-24A24	38	-24	1.1/2"	2" - 12	32	116	15,8	54	50	60	

SAE STANDARD CONNECTIONS

OPK22491/OPK22493

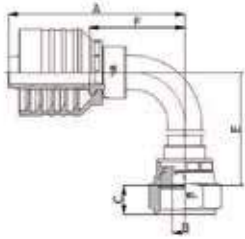
90° ORFS FEMALE ELBOW - SAE J516 / ISO 12151-1



PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	E	F	H2
OPK22493-06A06	10	- 6	3/8"	11/16" - 16	6	59,5	9,5	24	30	22	
OPK22493-06A08	10	- 6	3/8"	13/16" - 16	9,3	59,5	11	26,5	30	24	
OPK22491-08A06	12	- 8	1/2"	11/16" - 16	7	61,5	9,5	24,5	30	22	
OPK22493-08A08	12	- 8	1/2"	13/16" - 16	9	71,5	11	30	40,5	24	
OPK22493-08A10	12	- 8	1/2"	1" - 14	11,5	71	13,5	30,5	40	30	
OPK22493-08A12	12	- 8	1/2"	1.3/16" - 12	13,9	71	14,5	37,5	39,5	36	
OPK22493-10A10	16	- 10	5/8"	1" - 14	11,5	82,5	13,5	37,5	48	30	
OPK22493-10A12	16	- 10	5/8"	1.3/16" - 12	13,9	82,5	14,5	41	48	36	
OPK22491-12A10	19	- 12	3/4"	1" - 14	11,5	85,5	13,5	38	49	30	
OPK22493-12A12	19	- 12	3/4"	1.3/16" - 12	13,9	93	14,5	48	56,5	36	
OPK22493-12A16	19	- 12	3/4"	1.7/16" - 12	19,8	93	14,8	47,5	56,5	41	
OPK22491-16A12	25	- 16	1"	1.3/16" - 12	13,9	106	14,5	48	57,5	36	
OPK22493-16A16	25	- 16	1"	1.7/16" - 12	19,8	119,5	14,8	56	71,5	41	
OPK22493-16A20	25	- 16	1"	1.11/16" - 12	26	119,5	14,8	58,5	71,5	50	
OPK22493-20A20	31	- 20	1.1/4"	1.11/16" - 12	26	135,5	14,8	66	83	50	
OPK22493-24A24	38	- 24	1.1/2"	2" - 12	32	164	14,8	79,5	102	60	

OPK22491: CRIMPED BACK-NUT / OPK22493: SLIP-ON NUT

SAE STANDARD CONNECTIONS



OPK24491 LONG DROP

90° ORFS FEMALE LONG DROP ELBOW - SAE J516 / ISO 12151-1
(CRIMPED-BACK NUT)

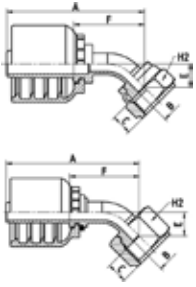
PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	E	F	H2
OPK24491-06A06	10	- 6	3/8"	11/16" - 16		6,7	61,5	9,5	54	32	22	
OPK24491-06A08	10	- 6	3/8"	13/16" - 16		6,7	61,5	11	54	32	24	
OPK24491-08A08	12	- 8	1/2"	13/16" - 16		9,6	68	11	64	37	24	
OPK24491-08A10	12	- 8	1/2"	1" - 14		9,6	68	12,5	64,5	37	30	
OPK24491-10A10	16	- 10	5/8"	1" - 14		12	75,5	13	70	41	30	
OPK24491-10A12	16	- 10	5/8"	1.3/16" - 12		12,7	75,5	13,5	73	41	36	
OPK24491-12A12	19	- 12	3/4"	1.3/16" - 12		15	95	13,5	96	58,5	36	
OPK24491-16A16	25	- 16	1"	1.7/16" - 12		19,8	119,5	13,5	114	71,5	41	

All items are made from brazing with the exception of OPK24491-12-12 and OPK24491-16-16

SAE STANDARD CONNECTIONS

OPK22441/OPK22443

45° ORFS FEMALE ELBOW - SAE J516 / ISO 12151-1



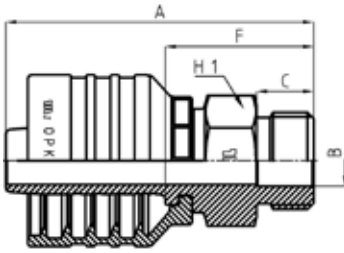
PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	E	F	H2
OPK22443-06A06	10	- 6	3/8"	11/16" - 16	6	61,5	9,5	11	32,5	22	
OPK22443-06A08	10	- 6	3/8"	13/16" - 16	9,3	63	11	12,5	34	24	
OPK22441-08A06	12	- 8	1/2"	11/16" - 16	7	63,5	9,5	11	32,5	22	
OPK22443-08A08	12	- 8	1/2"	13/16" - 16	9	73	11	13	42	24	
OPK22443-08A10	12	- 8	1/2"	1" - 14	11,5	73	13,5	13,5	42	30	
OPK22443-08A12	12	- 8	1/2"	1.3/16" - 12	13,9	78	14,5	18,5	46,5	36	
OPK22443-10A10	16	- 10	5/8"	1" - 14	11,5	83,5	13,5	16	49	30	
OPK22443-10A12	16	- 10	5/8"	1.3/16" - 12	13,9	86	14,5	18,5	51,5	36	
OPK22441-12A10	19	- 12	3/4"	1" - 14	11,5	87	13,5	16,5	50,5	30	
OPK22443-12A12	19	- 12	3/4"	1.3/16" - 12	13,9	97	14,5	21,5	60,5	36	
OPK22443-12A16	19	- 12	3/4"	1.7/16" - 12	19,8	96,5	14,8	21	60	41	
OPK22443-16A16	25	- 16	1"	1.7/16" - 12	19,8	120	14,8	23,5	72	41	
OPK22443-16A20	25	- 16	1"	1.11/16" - 12	26	122	14,8	25	74	50	
OPK22443-20A20	31	- 20	1.1/4"	1.11/16" - 12	26	134,5	14,8	27	82	50	
OPK22443-24A24	38	- 24	1.1/2"	2" - 12	32	160	14,8	31,5	98	60	

OPK22441: CRIMPED BACK-NUT / OPK22443: SLIP-ON NUT

SAE STANDARD CONNECTIONS

OPK13010

SAE MALE O'RING BOSS TYPE

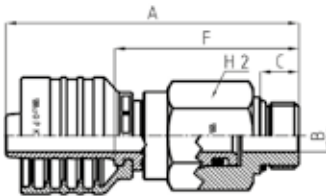


PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	F	H1	
OPK13010-08A08	12	- 8	1/2"	3/4" - 16		9,9	60	11,1	29	22		
OPK13010-12A12	19	- 12	3/4"	1.1/16" - 12		15,5	76	15,1	39,5	32		
OPK13010-16A16	25	- 16	1"	1.5/16" - 12		21,5	89,5	15,1	41	38		

SAE STANDARD CONNECTIONS

OPK14310

SAE SWIVEL MALE O'RING BOSS TYPE



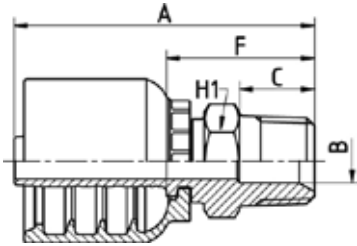
PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	F	H2	
OPK14310-08A08	12	- 8	1/2"	3/4" - 16		9,3	84	11,1	53	27		

Not to be used as a live swivel

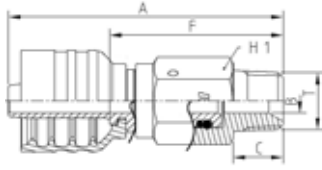
SAE STANDARD CONNECTIONS

OPK12810

NPTF MALE 60° CONE SEAT - SAE J516/J514



PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	F	H1	
OPK12810-06A04	10	- 6	3/8"	1/4" - 18	5,5	59,5	14,5	30	14		
OPK12810-06A06	10	- 6	3/8"	3/8" - 18	9,3	58	14,5	28,5	19		
OPK12810-06A08	10	- 6	3/8"	1/2" - 14	12,5	64	19,2	34,5	24		
OPK12810-08A06	12	- 8	1/2"	3/8" - 18	9,3	60	14,5	29	19		
OPK12810-08A08	12	- 8	1/2"	1/2" - 14	12,5	66	19,2	35	24		
OPK12810-08A12	12	- 8	1/2"	3/4" - 14	15,5	66,5	19,2	35,5	27		
OPK12810-10A08	16	- 10	5/8"	1/2" - 14	12,5	73	19,2	38,5	24		
OPK12810-10A12	16	- 10	5/8"	3/4" - 14	16	74,5	19,2	40	27		
OPK12810-12A08	19	- 12	3/4"	1/2" - 14	12,5	73	19,2	36,5	27		
OPK12810-12A12	19	- 12	3/4"	3/4" - 14	16	73	19,2	36,5	27		
OPK12810-12A16	19	- 12	3/4"	1" - 11,5	19,8	82,5	24,2	46	36		
OPK12810-16A12	25	- 16	1"	3/4" - 14	15,5	87	19,2	39	32		
OPK12810-16A16	25	- 16	1"	1" - 11,5	19,8	92	24,2	44	36		
OPK12810-16A20	25	- 16	1"	1.1/4" - 11,5	26	104,5	25	56,5	46		
OPK12810-20A20	31	- 20	1.1/4"	1.1/4" - 11,5	26	109	25	56,5	46		
OPK12810-24A24	38	- 24	1.1/2"	1.1/2" - 11,5	32	119,5	26	57,5	50		
OPK12810-32A32	51	- 32	2"	2" - 11,5	45	130,5	26,5	64,5	65		



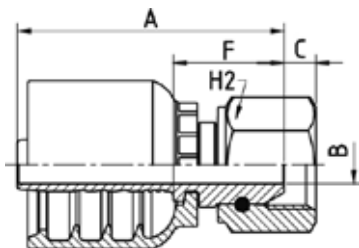
SAE STANDARD CONNECTIONS

OPK14110R

NPTF SWIVEL MALE 60° CONE SEAT - SAE J516/J514

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	F	H1	
OPK14110-06A06R	10	- 6	3/8"	3/8" - 18	7	80	14,5	50,5	22		
OPK14110-08A08R	12	- 8	1/2"	1/2" - 14	9,3	90	19,2	59	27		
OPK14110-12A12R	19	- 12	3/4"	3/4" - 14	16	94,5	19,2	58	32		
OPK14110-16A16R	25	- 16	1"	1" - 11,5	19,8	114	24,2	66	38		

Not to be used as a live swivel

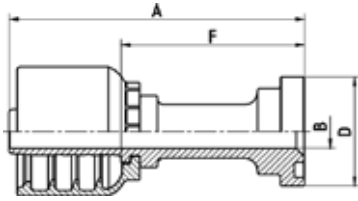


SAE STANDARD CONNECTIONS

OPK22812

NPSM FEMALE 60° CONE - SAE J516/J514 (THRUST-WIRE NUT)

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	F	H2	
OPK22812-06A06	10	- 6	3/8"	3/8" - 18	7	50,5	6	21	22		
OPK22812-08A08	12	- 8	1/2"	1/2" - 14	9,3	54	6,5	23	27		
OPK22812-12A12	19	- 12	3/4"	3/4" - 14	15	61	9	24,5	32		
OPK22812-16A16	25	- 16	1"	1" - 11,5	19,8	75,5	10,5	27,5	38		

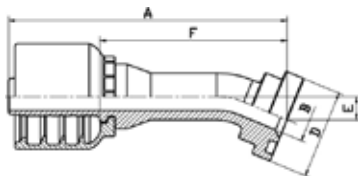


SAE STANDARD CONNECTIONS

OPK23311

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

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	F		
OPK23311-08A08	12	- 8	1/2"	1/2"	9,3	82	30,3	51			
OPK23311-08A12	12	- 8	1/2"	3/4"	15,1	89	38	58			
OPK23311-10A12	16	- 10	5/8"	3/4"	15	100	38	65,5			
OPK23311-12A12	19	- 12	3/4"	3/4"	15	94,5	38	58			
OPK23311-12A16	19	- 12	3/4"	1"	20	94,5	44,6	58			
OPK23311-16A16	25	- 16	1"	1"	19,8	112,5	44,6	64,5			
OPK23311-16A20	25	- 16	1"	1.1/4"	26	118,5	51	70,5			
OPK23311-20A20	31	- 20	1.1/4"	1.1/4"	26	123	51	70,5			
OPK23311-20A24	31	- 20	1.1/4"	1.1/2"	32	125	60,5	72,5			
OPK23311-24A24	38	- 24	1.1/2"	1.1/2"	32	137,5	60,5	75,5			
OPK23311-24A32	38	- 24	1.1/2"	2"	42	137,5	71,6	75,5			
OPK23311-32A32	51	- 32	2"	2"	42	145	71,6	79			
OPK23311-32A40	51	- 32	2"	2.1/2"	56	147	84,3	81			

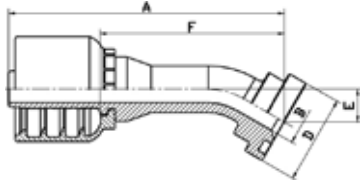


SAE STANDARD CONNECTIONS

OPK23321

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

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	F	
OPK23321-08A08	12	- 8	1/2"	1/2"	9,3	95	30,3	8	64		
OPK23321-12A12	19	- 12	3/4"	3/4"	15	111	38	10	74,5		
OPK23321-12A16	19	- 12	3/4"	1"	20	111	44,6	10	74,5		
OPK23321-16A16	25	- 16	1"	1"	19,8	137	44,6	11,5	89		
OPK23321-20A20	31	- 20	1.1/4"	1.1/4"	26	152,5	51	12	100		
OPK23321-20A24	31	- 20	1.1/4"	1.1/2"	32	154,5	60,5	13	102		

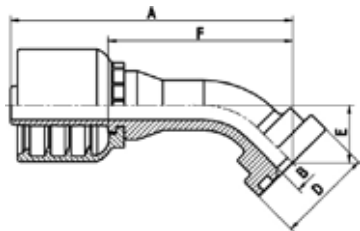


SAE STANDARD CONNECTIONS

OPK23331

30° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	F	
OPK23331-08A08	12	- 8	1/2"	1/2"	9,3	93,5	30,3	11	62,5		
OPK23331-12A12	19	- 12	3/4"	3/4"	15	109,5	38	14	73		
OPK23331-12A16	19	- 12	3/4"	1"	20	109,5	44,6	14	73		
OPK23331-16A16	25	- 16	1"	1"	19,8	135	44,6	16,5	87		
OPK23331-20A20	31	- 20	1.1/4"	1.1/4"	26	150,5	51	17,5	98		
OPK23331-24A24	38	- 24	1.1/2"	1.1/2"	32	176,5	60,5	20	114,5		

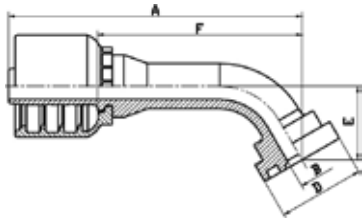


SAE STANDARD CONNECTIONS

OPK23341

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

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	F	
OPK23341-08A08	12	- 8	1/2"	1/2"	9,3	90	30,3	18,5	58,5		
OPK23341-08A12	12	- 8	1/2"	3/4"	15	90,5	38	19	59,5		
OPK23341-10A12	16	- 10	5/8"	3/4"	15	95	38	22	61		
OPK23341-12A12	19	- 12	3/4"	3/4"	15	104,5	38	23	68,5		
OPK23341-12A16	19	- 12	3/4"	1"	20	104,5	44,6	23	68,5		
OPK23341-16A16	25	- 16	1"	1"	19,8	129,5	44,6	27,5	81,5		
OPK23341-16A20	25	- 16	1"	1.1/4"	26	129,5	51	27,5	81,5		
OPK23341-20A20	31	- 20	1.1/4"	1.1/4"	26	144,5	51	29,5	92		
OPK23341-20A24	31	- 20	1.1/4"	1.1/2"	32	146	60,5	31	93,5		
OPK23341-24A24	38	- 24	1.1/2"	1.1/2"	32	169,5	60,5	34,5	107,5		
OPK23341-24A32	38	- 24	1.1/2"	2"	42	169,5	71,6	34,5	107,5		
OPK23341-32A32	51	- 32	2"	2"	42	190	71,6	39	124		

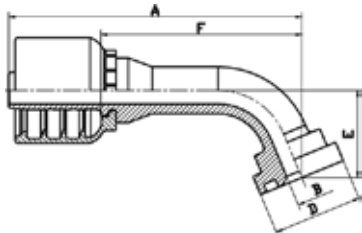


SAE STANDARD CONNECTIONS

OPK23361

60° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	F	
OPK23361-08A08	12	- 8	1/2"	1/2"	9,3	102,5	30,3	26	71,5		
OPK23361-12A12	19	- 12	3/4"	3/4"	15	123,5	38	33	87		
OPK23361-16A16	25	- 16	1"	1"	19,8	152	44,6	39	104		
OPK23361-16A20	25	- 16	1"	1.1/4"	26	152	51	39	104		
OPK23361-20A20	31	- 20	1.1/4"	1.1/4"	26	172,5	51	43	120		
OPK23361-20A24	31	- 20	1.1/4"	1.1/2"	32	173,5	60,5	44,5	121		
OPK23361-24A24	38	- 24	1.1/2"	1.1/2"	32	205,5	60,5	50,5	143,5		

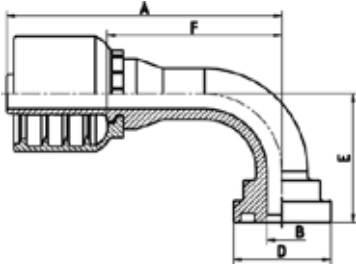


SAE STANDARD CONNECTIONS

OPK23371

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

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	F	
OPK23371-08A08	12	- 8	1/2"	1/2"	9,3	99	30,3	29,5	68		
OPK23371-12A12	19	- 12	3/4"	3/4"	15	118,5	38	38	82		
OPK23371-12A16	19	- 12	3/4"	1"	20	118,5	44,6	38	82		
OPK23371-16A16	25	- 16	1"	1"	19,8	147	44,6	45	98,5		
OPK23371-20A20	31	- 20	1.1/4"	1.1/4"	26	166,5	51	50	114		
OPK23371-24A24	38	- 24	1.1/2"	1.1/2"	32	198,5	60,5	59	136,5		

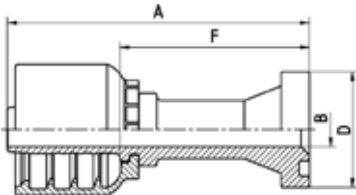


SAE STANDARD CONNECTIONS

OPK23391

90° ISO/SAE CODE 61 FLANGE - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	F	
OPK23391-08A08	12	- 8	1/2"	1/2"	9,3	85,5	30,3	40	54,5		
OPK23391-08A12	12	- 8	1/2"	3/4"	15	85,5	38	41	54,5		
OPK23391-10A12	16	- 10	5/8"	3/4"	15	90	38	47,5	56		
OPK23391-12A12	19	- 12	3/4"	3/4"	15	101	38	52	64,5		
OPK23391-12A16	19	- 12	3/4"	1"	20	101	44,6	52	64,5		
OPK23391-16A16	25	- 16	1"	1"	19,8	125,5	44,6	62	77,5		
OPK23391-16A20	25	- 16	1"	1.1/4"	26	125,5	51	62	77,5		
OPK23391-20A20	31	- 20	1.1/4"	1.1/4"	26	143	51	70	90,5		
OPK23391-20A24	31	- 20	1.1/4"	1.1/2"	32	143	60,5	72	90,5		
OPK23391-24A24	38	- 24	1.1/2"	1.1/2"	32	170	60,5	84	108		
OPK23391-24A32	38	- 24	1.1/2"	2"	42	170	71,6	84	108		
OPK23391-32A32	51	- 32	2"	2"	42	195	71,6	99	129		

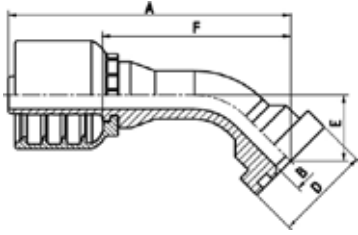


SAE STANDARD CONNECTIONS

OPK23611

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

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	F		
OPK23611-08A08	12	- 8	1/2"	1/2"	9,3	83	31,8	52			
OPK23611-08A12	12	- 8	1/2"	3/4"	15	99,5	41,5	68,5			
OPK23611-10A08	16	- 10	5/8"	1/2"	9,3	86,5	31,8	52			
OPK23611-10A12	16	- 10	5/8"	3/4"	15	104,5	41,5	70			
OPK23611-12A12	19	- 12	3/4"	3/4"	15	105,5	41,5	69			
OPK23611-12A16	19	- 12	3/4"	1"	20	117,5	47,7	81			
OPK23611-16A16	25	- 16	1"	1"	19,8	130,5	47,7	82,5			
OPK23611-16A20	25	- 16	1"	1.1/4"	26	138	54,2	90			
OPK23611-20A20	31	- 20	1.1/4"	1.1/4"	26	137	54,2	84,5			
OPK23611-20A24	31	- 20	1.1/4"	1.1/2"	32	143	63,7	90,5			
OPK23611-24A24	38	- 24	1.1/2"	1.1/2"	32	154,5	63,6	92,5			
OPK23611-32A32	51	- 32	2"	2"	42	175	79,5	109			

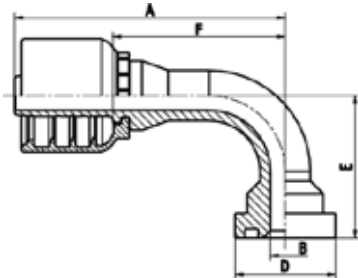


SAE STANDARD CONNECTIONS

OPK23641

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

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	F	
OPK23641-08A08	12	- 8	1/2"	1/2"	9,3	93,5	31,8	22	62		
OPK23641-08A12	12	- 8	1/2"	3/4"	15	99	41,5	27,5	68		
OPK23641-10A12	16	- 10	5/8"	3/4"	15	102	41,5	31	67,5		
OPK23641-12A12	19	- 12	3/4"	3/4"	15	109	41,5	28	72,5		
OPK23641-12A16	19	- 12	3/4"	1"	20	114	47,7	32,5	77		
OPK23641-16A12	25	- 16	1"	3/4"	15	128	41,5	30	80		
OPK23641-16A16	25	- 16	1"	1"	19,8	132	47,7	32,5	83,5		
OPK23641-16A20	25	- 16	1"	1.1/4"	26	136,5	54,2	37,5	88,5		
OPK23641-20A20	31	- 20	1.1/4"	1.1/4"	26	147,5	54,2	37,5	95		
OPK23641-20A24	31	- 20	1.1/4"	1.1/2"	32	155	63,7	45	102,5		
OPK23641-24A24	38	- 24	1.1/2"	1.1/2"	32	180	63,7	44	118		
OPK23641-32A32	51	- 32	2"	2"	42	217,5	79,6	60,5	151,5		



SAE STANDARD CONNECTIONS

OPK23691

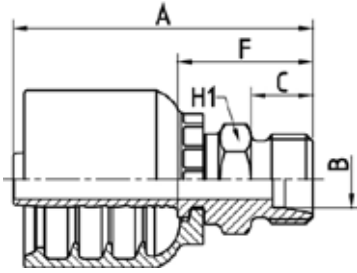
90° ISO/SAE CODE 62 FLANGE - SAE J516 / ISO 12151-3

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	E	F	
OPK23691-08A08	12	- 8	1/2"	1/2"	9,3	85,5	31,8	45	54,5		
OPK23691-08A12	12	- 8	1/2"	3/4"	15	85,5	41,5	53	54,5		
OPK23691-10A12	16	- 10	5/8"	3/4"	15	87,5	41,5	60,5	53,5		
OPK23691-10A16	16	- 10	5/8"	1"	19,8	90	47,7	64	56		
OPK23691-12A12	19	- 12	3/4"	3/4"	15	100,5	41,5	59	64		
OPK23691-12A16	19	- 12	3/4"	1"	20	101	47,7	65	64,5		
OPK23691-16A16	25	- 16	1"	1"	19,8	121,5	47,7	68	73,5		
OPK23691-16A20	25	- 16	1"	1.1/4"	26	121,5	54,2	75	73,5		
OPK23691-20A20	31	- 20	1.1/4"	1.1/4"	26	138	54,2	81	85,5		
OPK23691-20A24	31	- 20	1.1/4"	1.1/2"	32	138	63,7	91,5	85,5		
OPK23691-24A24	38	- 24	1.1/2"	1.1/2"	32	168	63,7	94,5	106		
OPK23691-32A32	51	- 32	2"	2"	42	204	79,6	132	138		

DIN STANDARD CONNECTIONS

OPK11110

METRIC MALE 24° CONE SEAT LIGHT DUTY - DIN 20066 / ISO 12151-2

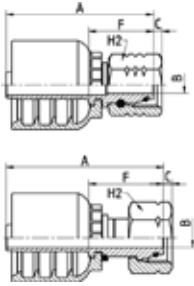


PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	F	H1
OPK11110-06A16	10	- 6	3/8"	M 16x1,5	10	7	53,5	11	24	17		
OPK11110-06A18	10	- 6	3/8"	M 18x1,5	12	9	54	11	24,5	19		
OPK11110-06A22	10	- 6	3/8"	M 22x1,5	15	10	55	12	25,5	22		
OPK11110-08A22	12	- 8	1/2"	M 22x1,5	15	10	56,5	12	25,5	22		
OPK11110-08A26	12	- 8	1/2"	M 26x1,5	18	12,5	57,5	12	26,5	27		
OPK11110-10A22	16	- 10	5/8"	M 22x1,5	15	10	60	12	25,5	22		
OPK11110-10A26	16	- 10	5/8"	M 26x1,5	18	12,5	61	12	26,5	27		
OPK11110-12A30	19	- 12	3/4"	M 30x2	22	15	66,5	14	30	30		
OPK11110-16A36	25	- 16	1"	M 36x2	28	19,8	80,5	14	32,5	36		
OPK11110-20A45	31	- 20	1.1/4"	M 45x2	35	26	93	16	40,5	46		
OPK11110-24A52	38	- 24	1.1/2"	M 52x2	42	32	105	16	43	55		

DIN STANDARD CONNECTIONS

OPK21512/OPK21513

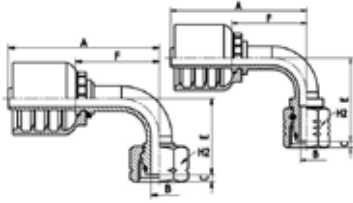
METRIC O-RING FEMALE 24° CONE LIGHT DUTY - DIN 20066 / ISO 12151-2



PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	F	H2
OPK21512-06A16	10	- 6	3/8"	M 16x1,5	10	6	52,5	3	23	19		
OPK21513-06A18	10	- 6	3/8"	M 18x1,5	12	7	52	2	22,5	22		
OPK21513-06A22	10	- 6	3/8"	M 22x1,5	15	9,3	54,5	1,5	25	27		
OPK21512-08A18	12	- 8	1/2"	M 18x1,5	12	7	60	2,9	29	22		
OPK21513-08A22	12	- 8	1/2"	M 22x1,5	15	9,3	56,5	1,5	25,5	27		
OPK21513-08A26	12	- 8	1/2"	M 26x1,5	18	12,5	57	2	26	32		
OPK21513-10A26	16	- 10	5/8"	M 26x1,5	18	12,5	60,5	2	26	32		
OPK21513-10A30	16	- 10	5/8"	M 30x2	22	15	68,5	3	34	36		
OPK21512-12A26	19	- 12	3/4"	M 26x1,5	18	12,5	67,5	2,3	31	32		
OPK21513-12A30	19	- 12	3/4"	M 30x2	22	15	64,5	3	28	36		
OPK21513-12A36	19	- 12	3/4"	M 36x2	28	20	65	3,7	28,5	41		
OPK21513-16A36	25	- 16	1"	M 36x2	28	19,8	77,5	3,7	29,5	41		
OPK21513-20A45	31	- 20	1.1/4"	M 45x2	35	26	85,5	4	33	50		
OPK21513-24A52	38	- 24	1.1/2"	M 52x2	42	32	95	4,5	33	60		

OPK21512: THRUST-WIRE NUT / OPK21513: SLIP-ON NUT

DIN STANDARD CONNECTIONS

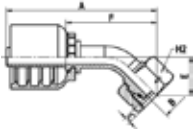
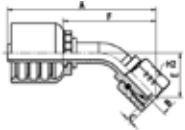


OPK21592/OPK21593

90° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE LIGHT DUTY
DIN 20066 / ISO 12151-2

PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	E	F
OPK21592-06A16	10	- 6	3/8"	M 16x1,5	10	6	65	3	40	35,5	19	
OPK21593-06A18	10	- 6	3/8"	M 18x1,5	12	7	66	2	33,5	36,5	22	
OPK21593-06A22	10	- 6	3/8"	M 22x1,5	15	9,3	66	1,5	35	36,5	27	
OPK21592-08A18	12	- 8	1/2"	M 18x1,5	12	7	75	2,9	48	44	22	
OPK21593-08A22	12	- 8	1/2"	M 22x1,5	15	9,3	76	1,5	39,5	45	27	
OPK21593-08A26	12	- 8	1/2"	M 26x1,5	18	12,5	76	2	40	45	32	
OPK21593-10A26	16	- 10	5/8"	M 26x1,5	18	12,5	86	2	53	51,5	32	
OPK21593-10A30	16	- 10	5/8"	M 30x2	22	15	86	3	54	51,5	36	
OPK21593-12A30	19	- 12	3/4"	M 30x2	22	15	97,5	3	59,5	61,5	36	
OPK21593-16A36	25	- 16	1"	M 36x2	28	19,8	125	3,7	69,5	76,5	41	
OPK21593-20A45	31	- 20	1.1/4"	M 45x2	35	26	146	4	81	93,5	50	
OPK21593-24A52	38	- 24	1.1/2"	M 52x2	42	32	169,5	4,5	98	107,5	60	

OPK21592: THRUST-WIRE NUT / OPK21593: SLIP-ON NUT



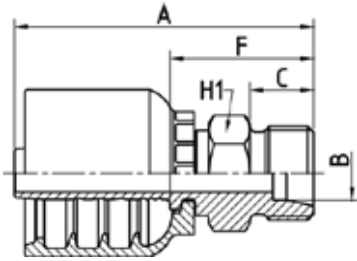
DIN STANDARD CONNECTIONS

OPK21542/OPK21543

**45° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE LIGHT DUTY
DIN 20066 / ISO 12151-2**

PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	E	F
OPK21542-06A16	10	- 6	3/8"	M 16x1,5	10	6	77	3	21,5	47,5	19	
OPK21543-06A18	10	- 6	3/8"	M 18x1,5	12	7	73	2	16,5	43,5	22	
OPK21543-06A22	10	- 6	3/8"	M 22x1,5	15	9,3	74	1,5	18	45	27	
OPK21543-08A22	12	- 8	1/2"	M 22x1,5	15	9,3	83	1,5	19	52	27	
OPK21543-10A26	16	- 10	5/8"	M 26x1,5	18	12,5	96,5	2	26,5	62	32	
OPK21543-12A30	19	- 12	3/4"	M 30x2	22	15	107,5	3	28,5	71	36	
OPK21543-16A36	25	- 16	1"	M 36x2	28	19,8	133	3,7	32	85	41	
OPK21543-20A45	31	- 20	1.1/4"	M 45x2	35	26	152,5	4	36	100	50	
OPK21543-24A52	38	- 24	1.1/2"	M 52x2	42	32	179	4,5	44,5	117	60	

OPK21542: THRUST-WIRE NUT / OPK21543: SLIP-ON NUT

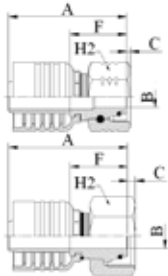


DIN STANDARD CONNECTIONS

OPK11210

METRIC MALE 24° CONE SEAT HEAVY DUTY - DIN 20066 / ISO 12151-2

PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	F	H1
OPK11210-06A18	10	- 6	3/8"	M 18x1,5	10	7	56,5	12	27	19		
OPK11210-06A20	10	- 6	3/8"	M 20x1,5	12	7	58,5	12	29	22		
OPK11210-06A22	10	- 6	3/8"	M 22x1,5	14	8	60,5	14	31	22		
OPK11210-08A24	12	- 8	1/2"	M 24x1,5	16	9,3	62,5	14	31,5	24		
OPK11210-10A30	16	- 10	5/8"	M 30x2	20	15	70	16	35,5	30		
OPK11210-12A30	19	- 12	3/4"	M 30x2	20	15	73,5	16	37	30		
OPK11210-12A36	19	- 12	3/4"	M 36x2	25	19,8	77,5	18	41	36		
OPK11210-16A36	25	- 16	1"	M 36x2	25	19,8	90,5	18	42,5	36		
OPK11210-16A42	25	- 16	1"	M 42x2	30	25	92,5	20	44,5	46		
OPK11210-20A52	31	- 20	1.1/4"	M 52x2	38	30	103,5	22	51	55		



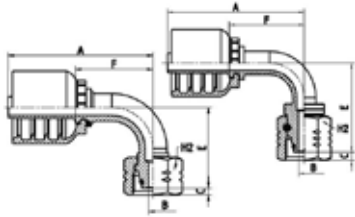
DIN STANDARD CONNECTIONS

OPK21612/OPK21613

METRIC O-RING FEMALE 24° CONE HEAVY DUTY - DIN 20066 / ISO 12151-2

PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	F	H2
OPK21613-06A20	10	- 6	3/8"	M 20x1,5	12	7	54,5	2	25,5	24		
OPK21613-06A22	10	- 6	3/8"	M 22x1,5	14	7	62	3	32,5	27		
OPK21613-08A24	12	- 8	1/2"	M 24x1,5	16	9,3	58	4	26,5	30		
OPK21613-10A30	16	- 10	5/8"	M 30x2	20	12,5	65	3,5	30,5	36		
OPK21612-12A30	19	- 12	3/4"	M 30x2	20	12,5	70	2,2	33,5	36		
OPK21613-12A36	19	- 12	3/4"	M 36x2	25	15	70,5	4,5	34	41		
OPK21612-16A36	25	- 16	1"	M 36x2	25	15	83,5	1,7	35,5	41		
OPK21613-16A42	25	- 16	1"	M 42x2	30	19,8	83,5	6,3	35,5	50		
OPK21613-20A52	31	- 20	1.1/4"	M 52x2	38	26	90	8	37,5	60		
OPK21613-24A52	38	- 24	1.1/2"	M 52x2	38	26	111,5	8	49,5	60		

OPK21612: THRUST-WIRE NUT / OPK21613: SLIP-ON NUT



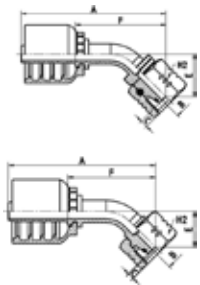
DIN STANDARD CONNECTIONS

OPK21692/OPK21693

**90° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY
DIN 20066 / ISO 12151-2**

PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	E	F
OPK21693-06A20	10	- 6	3/8"	M 20x1,5	12	7	66	2	35	36,5	24	
OPK21693-06A22	10	- 6	3/8"	M 22x1,5	14	7	66	3	37	36,5	27	
OPK21693-06A24	10	- 6	3/8"	M 24x1,5	16	9,3	66	4	36	36,5	30	
OPK21693-08A24	12	- 8	1/2"	M 24x1,5	16	9,3	76	4	40,5	45	30	
OPK21693-10A30	16	- 10	5/8"	M 30x2	20	12,5	86	3,5	57,5	51,5	36	
OPK21692-12A30	19	- 12	3/4"	M 30x2	20	12,5	98	2,2	67,5	61,5	36	
OPK21693-12A36	19	- 12	3/4"	M 36x2	25	15	97,5	4,5	64,5	61,5	41	
OPK21692-16A36	25	- 16	1"	M 36x2	25	15	127,5	1,7	86	79,5	41	
OPK21693-16A42	25	- 16	1"	M 42x2	30	19,8	127,5	6,3	74,5	79	50	
OPK21693-20A52	31	- 20	1.1/4"	M 52x2	38	26	146	8	85,5	93,5	60	

OPK21692: THRUST-WIRE NUT / OPK21693: SLIP-ON NUT



DIN STANDARD CONNECTIONS

OPK21642/OPK21643

**45° METRIC O-RING FEMALE SWEPT ELBOW 24° CONE HEAVY DUTY
DIN 20066 / ISO 12151-2**

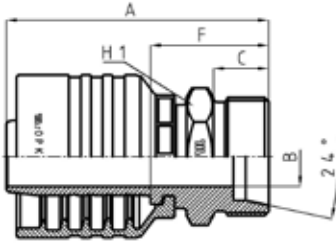
PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	E	F
OPK21643-06A20	10	- 6	3/8"	M 20x1,5	12	7	73,5	2	17	44	24	
OPK21643-06A22	10	- 6	3/8"	M 22x1,5	14	7	75	3	18,5	45,5	27	
OPK21643-08A24	12	- 8	1/2"	M 24x1,5	16	9,3	83,5	4	20	52,5	30	
OPK21643-10A30	16	- 10	5/8"	M 30x2	20	12,5	99,5	3,5	29,5	65,5	36	
OPK21642-12A30	19	- 12	3/4"	M 30x2	20	12,5	113	2,2	34	76,5	36	
OPK21643-12A36	19	- 12	3/4"	M 36x2	25	15	111,5	4,5	32,5	75	41	
OPK21643-16A42	25	- 16	1"	M 42x2	30	19,8	138	6,3	35,5	90	50	
OPK21643-20A52	31	- 20	1.1/4"	M 52x2	38	26	155,5	8	39,5	103	60	

OPK21642: THRUST-WIRE NUT / OPK21643: SLIP-ON NUT

NF STANDARD CONNECTIONS

OPK11710

FRENCH METRIC MALE 24° CONE SEAT MILLIMETRIC TYPE

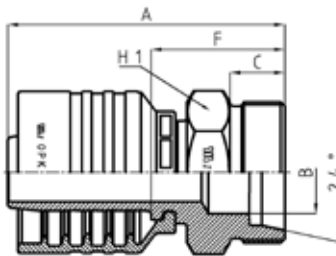


PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	F	H1
OPK11710-12A30	19	- 12	3/4"	M 30x1,5	22	15	66,5	14	30	30		

NF STANDARD CONNECTIONS

OPK11810

FRENCH METRIC MALE 24° CONE SEAT GAZ TYPE

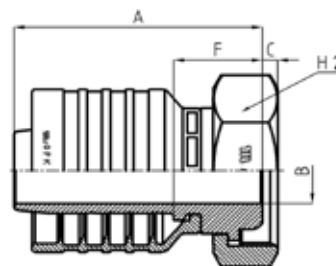


PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	F	H1
OPK11810-12A36	19	- 12	3/4"	M 36x1,5	26,8	21	70,5	14	34	36		

NF STANDARD CONNECTIONS

OPK21813

FRENCH METRIC FEMALE GAZ TYPE

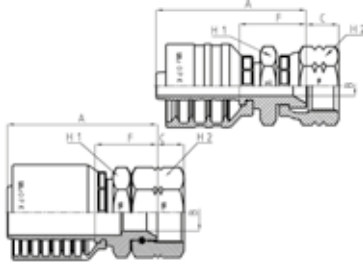


PART. REF.	HOSE BORE			Thread	Pipe	DIMENSIONS mm						
	DN	Dash	inch			T	mm	B	A	C	F	H2
OPK21813-16A45	25	- 16	1"	M 45x1,5	33,5	19,8	75	4,5	27	50		

JIS STANDARD CONNECTIONS

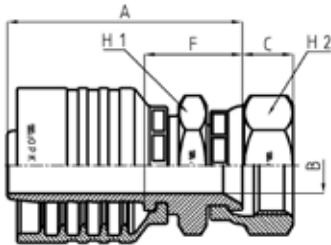
OPK24011/OPK24012

JIS METRIC FEMALE (KOMATSU)



PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	F	H1	H2
OPK24011-06A18	10	- 6	3/8"	M 18x1,5		7	53	11,5	23,5	24	24	
OPK24011-08A22	12	- 8	1/2"	M 22x1,5		9,3	56	13	25	27	27	
OPK24011-10A24	16	- 10	5/8"	M 24x1,5		12,5	61	15,1	26,5	32	32	
OPK24011-12A30	19	- 12	3/4"	M 30x1,5		15	68	18,3	31,5	36	36	
OPK24011-16A33	25	- 16	1"	M 33x1,5		19,8	81,5	21,3	33,5	41	41	
OPK24012-24A42	38	- 24	1.1/2"	M 42x1,5		26	106	18,8	44	55	55	

OPK24011: CRIMPED BACK-NUT / OPK24012: THRUST-WIRE NUT



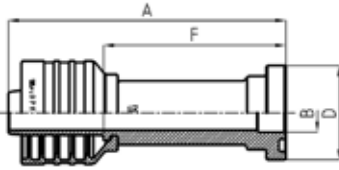
JIS STANDARD CONNECTIONS

OPK23811

JIS BSP FEMALE (TOYOTA)

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	B	A	C	F	H1	H2
OPK23811-12A12	19	- 12	3/4"	3/4" - 14		15	62,5	13,5	26	32	32	
OPK23811-16A16	25	- 16	1"	1" - 11		19,8	78,5	14,5	30,5	38	38	

ORIGINAL EQUIPMENT CONNECTIONS



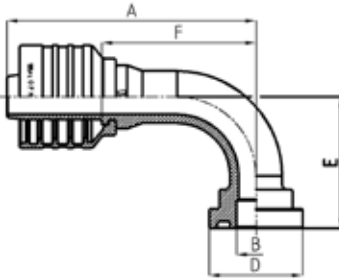
OPK24111

STRAIGHT KOMATSU FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	F			
OPK24111-10A10	16	- 10	5/8"	5/8"	14	100	34	65,5				

FITTINGS F 10-35

ORIGINAL EQUIPMENT CONNECTIONS

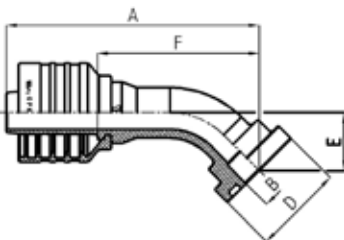


OPK24191

90° KOMATSU FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	E	F		
OPK24191-10A10	16	- 10	5/8"	5/8"	14	90	34	47,5	56			

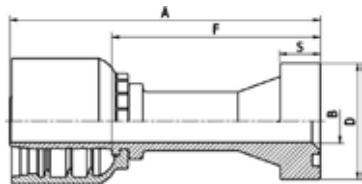
ORIGINAL EQUIPMENT CONNECTIONS



OPK24141

45° KOMATSU FLANGE

PART. REF.	HOSE BORE			Flange	DIMENSIONS mm							
	DN	Dash	inch		Inch	B	A	D	E	F		
OPK24141-10A10	16	- 10	5/8"	5/8"	14	95	34	22	61			

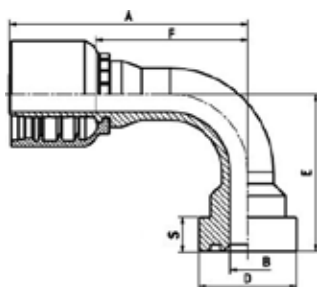


ORIGINAL EQUIPMENT CONNECTIONS

OPK23911

STRAIGHT SUPERCAT FLANGE

PART. REF.	HOSE BORE			Flange		DIMENSIONS mm						
	DN	Dash	inch			Inch	B	A	D	F	S	
OPK23911-12A12	19	- 12	3/4"	3/4"		15	111	41,5	74,5	14,3		
OPK23911-16A16	25	- 16	1"	1"		19,8	135	47,7	87	14,3		
OPK23911-16A20	25	- 16	1"	1.1/4"		26	140,5	54	92,5	14,3		
OPK23911-20A20	31	- 20	1.1/4"	1.1/4"		26	138,5	54	86	14,3		
OPK23911-24A24	38	- 24	1.1/2"	1.1/2"		32	156	63,6	94	14,3		

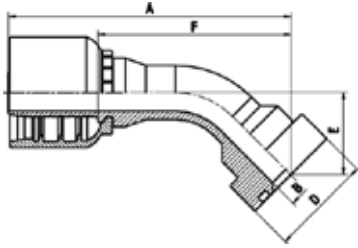


ORIGINAL EQUIPMENT CONNECTIONS

OPK23991

90° SUPERCAT FLANGE

PART. REF.	HOSE BORE			Flange		DIMENSIONS mm						
	DN	Dash	inch			Inch	B	A	D	E	F	S
OPK23991-12A12	19	- 12	3/4"	3/4"		15	101	41,5	64,5	64,5	14,3	
OPK23991-16A16	25	- 16	1"	1"		19,8	125,5	47,7	76,5	77,5	14,3	
OPK23991-16A20	25	- 16	1"	1.1/4"		26	123,5	54	80,5	75,5	14,3	
OPK23991-20A20	31	- 20	1.1/4"	1.1/4"		26	138	54	87	85,5	14,3	



ORIGINAL EQUIPMENT CONNECTIONS

OPK23941

45° SUPERCAT FLANGE

PART. REF.	HOSE BORE			Flange		DIMENSIONS mm						
	DN	Dash	inch			Inch	B	A	D	E	F	S
OPK23941-12A12	19	- 12	3/4"	3/4"		15	114	41,5	32	77	14,3	
OPK23941-16A16	25	- 16	1"	1"		19,8	138	47,7	36,5	89,5	14,3	
OPK23941-16A20	25	- 16	1"	1.1/4"		26	140,5	54	40,5	92,5	14,3	
OPK23941-20A20	31	- 20	1.1/4"	1.1/4"		26	151,5	54	41,5	99	14,3	



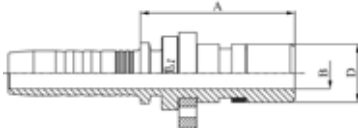
EASYFIT

FITTING CODE	SECTION	PAGE
O82H10	11	4
M12H10	11	1
M12H40	11	1
M12H90	11	2
M22H10	11	2
A52032H	11	3
A52192H	11	4
A52302H	11	3

MULTIFIT INSERT

M12H10

EF STRAIGHT MALE INSERT

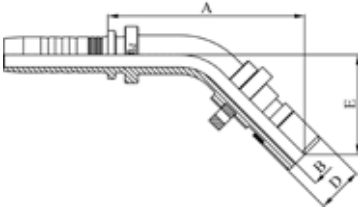


PART. REF.	HOSE BORE			W.P.	DIMENSIONS mm					
	DN	Dash	inch		Bar	B	A	D		
M12H10-04-04	6	-4	1/4"	350	4	30	10			
M12H10-04-06	6	-4	1/4"	350	7	34	13			
M12H10-05-06	8	-5	5/16"	350	7	34	13			
M12H10-06-04	10	-6	3/8"	350	4	30,5	10			
M12H10-06-06	10	-6	3/8"	350	7	34,5	13			
M12H10-06-08	10	-6	3/8"	350	9,3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

MULTIFIT INSERT

M12H40

EF 45° ELBOW MALE INSERT

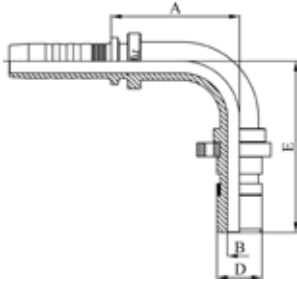


PART. REF.	HOSE BORE			W.P.	DIMENSIONS mm				
	DN	Dash	inch		Bar	B	A	D	E
M12H40-04-04	6	-4	1/4"	350	4	46	10	23,5	
M12H40-04-06	6	-4	1/4"	350	7	52	13	27	
M12H40-05-06	8	-5	5/16"	350	7	53	13	27,5	
M12H40-06-04	10	-6	3/8"	350	4	47	10	23,5	
M12H40-06-06	10	-6	3/8"	350	7	55,5	13	28	
M12H40-08-08	12	-8	1/2"	350	9,3	61,5	16	30	
M12H40-10-08	16	-10	5/8"	350	9,3	65	16	30	
M12H40-10-12	16	-10	5/8"	280	15	79	23	41	
M12H40-12-12	19	-12	3/4"	280	15	85,5	23	42,5	

MULTIFIT INSERT

M12H90

EF 90° ELBOW MALE INSERT

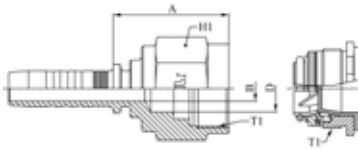


PART. REF.	HOSE BORE			W.P.	DIMENSIONS mm						
	DN	Dash	inch		Bar	B	A	D	E		
M12H90-04-04	6	-4	1/4"	350	4	30	10	40			
M12H90-04-06	6	-4	1/4"	350	7	32	13	45			
M12H90-05-06	8	-5	5/16"	350	7	33,5	13	46,5			
M12H90-06-04	10	-6	3/8"	350	4	30,5	10	40			
M12H90-06-06	10	-6	3/8"	350	7	37	13	49,5			
M12H90-08-06	10	-6	3/8"	350	7	37,5	13	49,5			
M12H90-08-08	12	-8	1/2"	350	9,3	44	16	55			
M12H90-10-08	16	-10	5/8"	350	9,3	47	16	55			
M12H90-10-12	16	-10	5/8"	280	15	55	23	74,5			
M12H90-12-12	19	-12	3/4"	280	15	62,5	23	79			

MULTIFIT INSERT

M22H10

EF STRAIGHT FEMALE INSERT

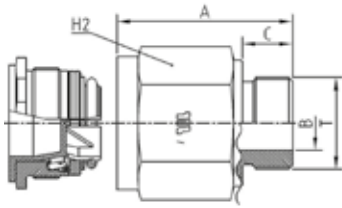


PART. REF.	HOSE BORE			Thread	W.P.	DIMENSIONS mm					
	DN	Dash	inch			T	Bar	B	A	D	H1
M22H10-04-04	6	-4	1/4"	M 18x1	350	4	30	10	22		
M22H10-06-06	10	-6	3/8"	M 22x1	350	7	33,5	13	25		
M22H10-08-08	12	-8	1/2"	M 25x1	350	9,3	34	16	28		
M22H10-10-08	16	-10	5/8"	M 25x1	350	12,5	34	23	28		
M22H10-10-12	16	-10	5/8"	M 33x1,5	280	12,5	45,5	23	38		
M22H10-12-12	19	-12	3/4"	M 33x1,5	280	15	46,5	23	38		

ADAPTORS

A52032H

ADAPTOR BSP MALE O-RING BOSS TYPE ISO 1179 EF FEMALE

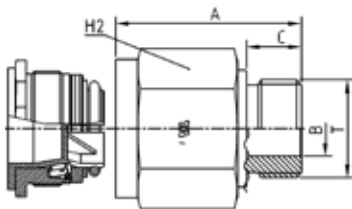


PART. REF.	HOSE BORE			Thread	W.P.	DIMENSIONS mm						
	DN	Dash	inch			T	Bar	B	A	C	D	H1
A52032H-04-04	6	- 4	1/4"	1/4" - 19	350	7,5	34	11,2	10	22		
A52032H-06-04	6	- 4	1/4"	3/8" - 19	350	9	34	11,2	10	22		
A52032H-06-06	10	- 6	3/8"	3/8" - 19	350	9,9	36,5	11,2	13	25		
A52032H-08-06	10	- 6	3/8"	1/2" - 14	350	12,3	39,5	14,5	13	27		
A52032H-08-08	12	- 8	1/2"	1/2" - 14	350	12,3	40	14,5	16	28		
A52032H-12-12	19	- 12	3/4"	3/4" - 14	280	15,5	50,5	14,5	23	38		
A52032H-16-12	19	- 12	3/4"	1" - 11	280	20	53,5	18,6	23	46		

ADAPTORS

A52302H

ADAPTOR SAE O-RING BOSS MALE ISO 11926 EF FEMALE

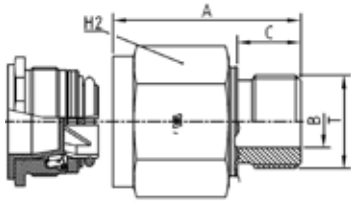


PART. REF.	HOSE BORE			Thread	W.P.	DIMENSIONS mm						
	DN	Dash	inch			T	Bar	B	A	C	D	H1
A52302H-06-04	6	- 4	1/4"	9/16" - 18	350	7	32,5	9,9	10	22		
A52302H-06-06	10	- 6	3/8"	9/16" - 18	350	7	36	9,9	13	25		
A52302H-08-06	10	- 6	3/8"	3/4" - 16	350	9,3	37	11,1	13	25		
A52302H-08-08	12	- 8	1/2"	3/4" - 16	350	9,3	37	11,1	16	28		
A52302H-10-08	12	- 8	1/2"	7/8" - 14	350	12,5	38,5	12,7	16	28		
A52302H-10-12	19	- 12	3/4"	7/8" - 14	280	12,5	49,5	12,7	23	38		
A52302H-12-12	19	- 12	3/4"	1.1/16" - 12	280	15	51	15,1	23	38		

ADAPTORS

A52192H

ADAPTOR METRIC MALE ISO 6149 EF FEMALE

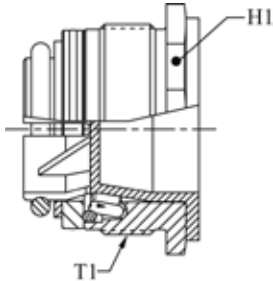


PART. REF.	HOSE BORE			Thread	W.P.	DIMENSIONS mm						
	DN	Dash	inch			T	Bar	B	A	C	D	H1
A52192H-14-04	6	- 4	1/4"	M 14x1,5	350	6	34	11	10	22		
A52192H-16-04	6	- 4	1/4"	M 16x1,5	350	7	35	12,5	10	22		
A52192H-18-06	10	- 6	3/8"	M 18x1,5	350	9	40	14	13	25		
A52192H-22-06	10	- 6	3/8"	M 22x1,5	350	12	40	15	13	27		
A52192H-22-08	12	- 8	1/2"	M 22x1,5	350	12	40	15	16	28		
A52192H-27-08	12	- 8	1/2"	M 27x2	350	15	43	18,5	16	32		
A52192H-27-12	19	- 12	3/4"	M 27x2	280	15	55	18,5	23	38		
A52192H-33-12	19	- 12	3/4"	M 33x2	280	20	54	18,5	23	41		

ADAPTORS

O82H10

CARTRIDGE EF



PART. REF.	HOSE BORE			Thread	W.P.	DIMENSIONS mm						
	DN	Dash	inch			T	Bar	D	H1			
O82H10-04	6	- 4	1/4"	M 18x1	350	10	19					
O82H10-06	10	- 6	3/8"	M 22x1	350	13	23					
O82H10-08	12	- 8	1/2"	M 25x1	350	16	26					
O82H10-12	19	- 12	3/4"	M 33x1,5	280	23	34					



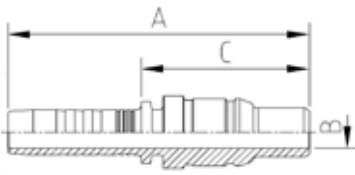
FASTFIT

FITTING CODE	SECTION	PAGE
A52013H	12	2
A52053H	12	3
A52193H	12	4
A52283H	12	3
A52323H	12	4
M13H10	12	1
M13H40	12	1
M13H90	12	2

MULTIFIT INSERT

M13H10

FAST-FIT STRAIGHT MALE INSERT

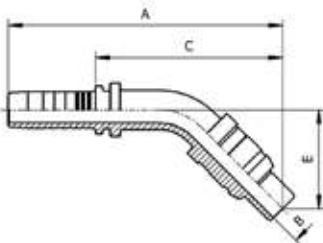


PART. REF.	HOSE BORE			DIMENSIONS mm						
	DN	Dash	inch	B	A	C				
M13H10-04-06	6	-4	1/4"	7	63	35,5				
M13H10-06-06	10	-6	3/8"	7	66,5	37,1				
M13H10-08-08	12	-8	1/2"	9,3	74,5	43,4				
M13H10-12-12	19	-12	3/4"	15	80,5	44				
M13H10-16-16	25	-16	1"	19,8	96	47,8				

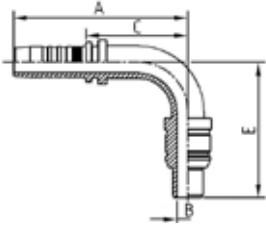
MULTIFIT INSERT

M13H40

FAST-FIT 45° ELBOW MALE INSERT



PART. REF.	HOSE BORE			DIMENSIONS mm						
	DN	Dash	inch	B	A	E	F			
M13H40-08-08	12	-8	1/2"	9,3	98	35,5	67			

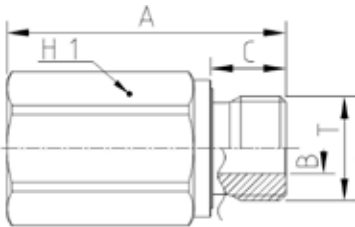


MULTIFIT INSERT

M13H90

FAST-FIT 90° ELBOW MALE INSERT

PART. REF.	HOSE BORE			DIMENSIONS mm							
	DN	Dash	inch	B	A	C	E				
M13H90-04-06	6	- 4	1/4"	7	57,5	30,1	45				
M13H90-06-06	10	- 6	3/8"	7	66,5	37	51				
M13H90-08-08	12	- 8	1/2"	9,3	75	43,8	62,5				
M13H90-12-12	19	- 12	3/4"	15	99	62,5	76,9				
M13H90-16-16	25	- 16	1"	19,8	119	70,6	87				



ADAPTORS

A52013H

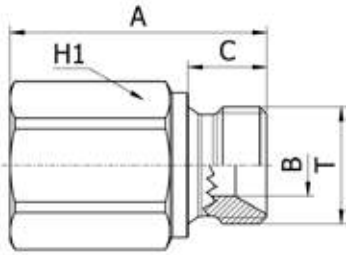
BSP MALE OR BOSS TYPE TO ISO 1179- 2

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch	T	B	A	C	H1				
A52013H-04-06	10	- 6	3/8"	1/4" - 19	5	45	12	19				
A52013H-06-06	10	- 6	3/8"	3/8" - 19	8	44,5	12	22				
A52013H-08-08	12	- 8	1/2"	1/2" - 14	10	47	14	27				
A52013H-12-12	19	- 12	3/4"	3/4" - 14	16	53	16	32				
A52013H-16-16	25	- 16	1"	1" - 11	20	60	18	41				

ADAPTORS

A52053H

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

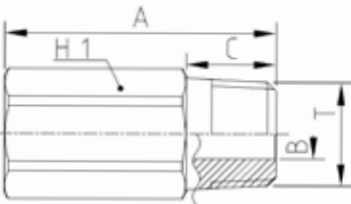


PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	H1			
A52053H-08-08	12	- 8	1/2"	1/2" - 14		11	46	14	27			

ADAPTORS

A52283H

STRAIGHT ADAPTOR NPTF MALE TO ASME B1.20.3

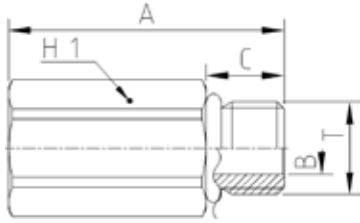


PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	B	A	C	H1			
A52283H-04-06	10	- 6	3/8"	1/4" - 18		6	44,5	14,5	19			
A52283H-06-06	10	- 6	3/8"	3/8" - 18		8	43,5	14,5	19			
A52283H-08-08	12	- 8	1/2"	1/2" - 14		9,5	50	19,2	24			
A52283H-12-12	19	- 12	3/4"	3/4" - 14		15	54,5	19,2	32			
A52283H-16-16	25	- 16	1"	1"-11.1/2		19,5	62	24,2	38			

ADAPTORS

A52323H

SAE MALE OR BOSS TYPE TO ISO J1926-2

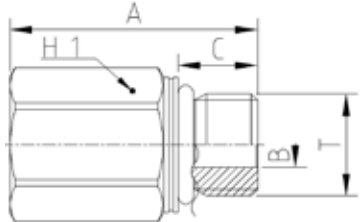


PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	H1		
A52323H-04-06	10	- 6	3/8"	7/16" - 20	4,5	42	11	19			
A52323H-06-06	10	- 6	3/8"	9/16" - 18	7,5	42,5	12	19			
A52323H-08-08	12	- 8	1/2"	3/4" - 16	10	46	14	24			
A52323H-12-12	19	- 12	3/4"	1.1/16" - 12	15,5	53,5	18,5	32			
A52323H-16-16	25	- 16	1"	1.5/16" - 12	20,5	56	18,5	38			

ADAPTORS

A52193H

STRAIGHT ADAPTOR METRIC MALE ISO 6149-2



PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	C	H1		
A52193H-14-06	10	- 6	3/8"	M 14x1,5	6	41,5	11	19			
A52193H-18-06	10	- 6	3/8"	M 18x1,5	8	43,5	14	24			
A52193H-22-08	12	- 8	1/2"	M 22x1,5	10	45	15	27			
A52193H-27-12	19	- 12	3/4"	M 27x2	15	53,5	18,5	32			
A52193H-33-16	25	- 16	1"	M 33x2	20	57	18,5	41			



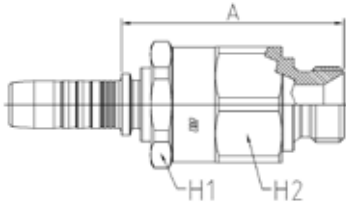
ROTOFIT

FITTING CODE	SECTION	PAGE
AR520504	13	7
AR580504	13	7
MR10510	13	1
MR11210	13	4
MR11910	13	4
MR12410	13	2
MR12810	13	2
MR20812	13	1
MR21512	13	4
MR22411	13	3
MR22510	13	2
MR22711	13	2
MR23311	13	3
MR30510	13	5
MR30510FK	13	5
MR32810	13	6
MR40812	13	5
MR42410	13	6
MR42510	13	6
MR43310	13	7

BS STANDARD CONNECTIONS

MR10510

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

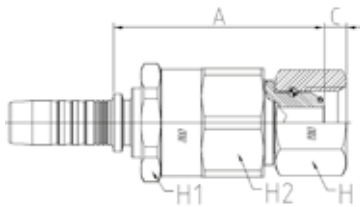


PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	A	H1	H2			
MR10510-04-04	6	- 4	1/4"	1/4" - 19	57,5	24	24				
MR10510-06-06	10	- 6	3/8"	3/8" - 19	58	27	27				
MR10510-08-08	12	- 8	1/2"	1/2" - 14	61,5	32	32				
MR10510-10-10	16	- 10	5/8"	5/8" - 14	69,5	36	36				
MR10510-12-12	19	- 12	3/4"	3/4" - 14	71	41	41				
MR10510-12-12FK	19	- 12	3/4"	3/4" - 14	71	41	41				
MR10510-16-16	25	- 16	1"	1" - 11	83	50	50				
MR10510-20-20	31	- 20	1.1/4"	1.1/4" - 11	92	60	60				

BS STANDARD CONNECTIONS

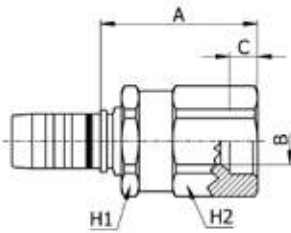
MR20812

BSP O-RING FEMALE 60° CONE - BS5200 / ISO 12151-6



PART. REF.	HOSE BORE			Thread	DIMENSIONS mm					
	DN	Dash	inch		T	A	C	H	H1	H2
MR20812-04-04	6	- 4	1/4"	1/4" - 19	58	4,1	19	24	24	
MR20812-06-06	10	- 6	3/8"	3/8" - 19	59,5	5,9	22	27	27	
MR20812-08-08	12	- 8	1/2"	1/2" - 14	62,5	6,5	27	32	32	
MR20812-10-10	16	- 10	5/8"	5/8" - 14	68	9,7	28	36	36	
MR20812-12-12	19	- 12	3/4"	3/4" - 14	71	8,5	32	41	41	
MR20812-16-16	25	- 16	1"	1" - 11	81	10,6	38	50	50	

SAE STANDARD CONNECTIONS



MR22510

SWIVEL JOINT

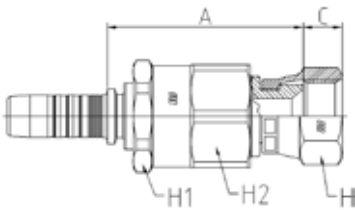
JIC FEMALE 37° CONE SEAT - SAE J516 / ISO 12151-5

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	A	H1	H2			
MR22510-20-20	31	- 20	1.1/4"	1.5/8" - 12		93	60	60				

FITTINGS

F 13-2

SAE STANDARD CONNECTIONS

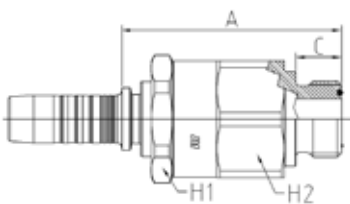


MR22711

JIC FEM DOUBLE HEXAGON 37° CONE SEAT

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	A	C	H	H1	H2	
MR22711-06-06	10	- 6	3/8"	9/16" - 18		56	9,5	17	27	27		
MR22711-08-08	12	- 8	1/2"	3/4" - 16		60	10,7	22	32	32		
MR22711-08-10	12	- 8	1/2"	7/8" - 14		62	12,5	25	32	32		
MR22711-10-10	16	- 10	5/8"	7/8" - 14		67	12,5	25	36	36		
MR22711-12-12	19	- 12	3/4"	1.1/16" - 12		68,5	14,1	32	41	41		
MR22711-16-16	25	- 16	1"	1.5/16" - 12		80	15,3	38	50	50		

SAE STANDARD CONNECTIONS



MR12410

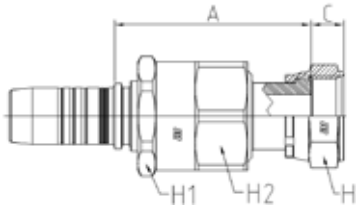
ORFS MALE - SAE J516 / ISO 12151-1

PART. REF.	HOSE BORE			Thread		DIMENSIONS mm						
	DN	Dash	inch			T	A	C	H1	H2		
MR12410-08-08	12	- 8	1/2"	13/16" - 16		60,5	12,8	32	32			
MR12410-10-10	16	- 10	5/8"	1" - 14		69	15,5	36	36			

SAE STANDARD CONNECTIONS

MR22411

ORFS FEMALE - SAE J516 / ISO 12151-1 PULLBACK TYPE (CRIMPED BACK-NUT)

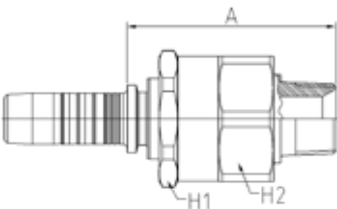


PART. REF.	HOSE BORE			Thread	DIMENSIONS mm							
	DN	Dash	inch		T	A	C	H	H1	H2		
MR22411-06-06	10	- 6	3/8"	11/16" - 16	64,5	9,5	22	27	27			
MR22411-08-08	12	- 8	1/2"	13/16" - 16	70	11	24	32	32			
MR22411-10-10	16	- 10	5/8"	1" - 14	77,5	13,5	30	36	36			
MR22411-12-12	19	- 12	3/4"	1.3/16" - 12	82	14,5	36	41	41			
MR22411-16-16	25	- 16	1"	1.7/16" - 12	90	15	41	50	50			

SAE STANDARD CONNECTIONS

MR12810

NPTF MALE 60° CONE SEAT - SAE J516/J514

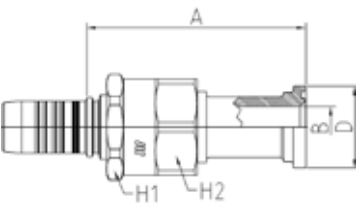


PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	A	H1	H2			
MR12810-04-04	6	- 4	1/4"	1/4" - 18	61	24	24				
MR12810-06-06	10	- 6	3/8"	3/8" - 18	60,5	27	27				
MR12810-08-08	12	- 8	1/2"	1/2" - 14	67	32	32				
MR12810-12-12	19	- 12	3/4"	3/4" - 14	74	41	41				
MR12810-16-16	25	- 16	1"	1" - 11,5	88	50	50				

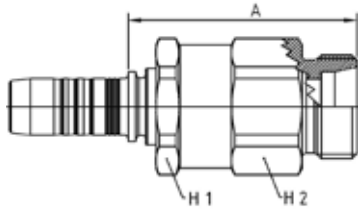
SAE STANDARD CONNECTIONS

MR23311

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



PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	H1	H2	
MR23311-20-20	31	- 20	1.1/4"	1.1/4"	26	136,5	51	60	60		

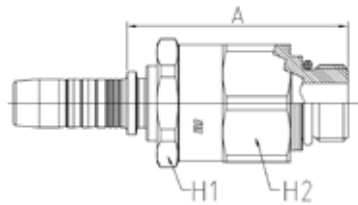


DIN STANDARD CONNECTIONS

MR11210

METRIC MALE 24° CONE SEAT HEAVY DUTY - DIN 20066 / ISO 12151-2

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	A	H1	H2			
MR11210-10-30	16	- 10	5/8"	M 30x2	66,5	36	36				

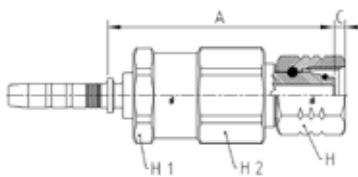


DIN STANDARD CONNECTIONS

MR11910

METRIC MALE HEAVY DUTY SERIES ISO 6149-2

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	A	H1	H2			
MR11910-06-18	10	- 6	3/8"	M 18x1,5	60,5	27	27				
MR11910-08-22	12	- 8	1/2"	M 22x1,5	62	32	32				



DIN STANDARD CONNECTIONS

MR21512

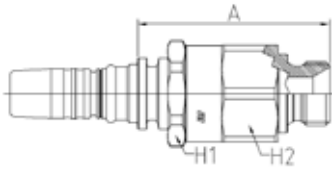
METRIC O-RING FEMALE 24° CONE LIGHT DUTY - DIN 20066 / ISO 12151-2 (THRUST-WIRE NUT)

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	A	C	H	H1	H2	
MR21512-04-16	6	- 4	1/4"	M 16x1,5	63	3	19	24	24		

BS STANDARD CONNECTIONS

MR30510

BSP MALE 60° CONE SEAT BS5200

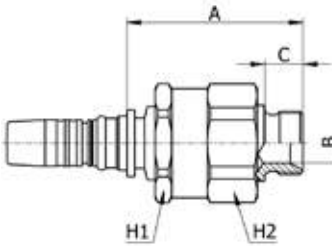


PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	A	H1	H2			
MR30510-12-12	19	- 12	3/4"	3/4" - 14	74	46	46				
MR30510-16-16	25	- 16	1"	1" - 11	85,5	55	55				
MR30510-20-20	31	- 20	1.1/4"	1.1/4" - 11	96	65	65				

BS STANDARD CONNECTIONS

MR30510FK

BSP MALE 60° CONE SEAT BS5200
SWIVEL JOINT (VITON)

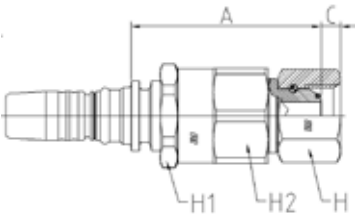


PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	A	H1	H2			
MR30510-12-12FK	19	- 12	3/4"	3/4" - 14	74	46	46				

BS STANDARD CONNECTIONS

MR40812

BSP O-RING FEMALE 60° CONE BS5200

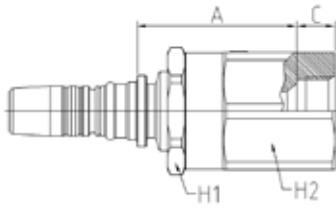


PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	A	C	H	H1	H2	
MR40812-12-12	19	- 12	3/4"	3/4" - 14	73,5	8,5	32	46	46		
MR40812-16-16	25	- 16	1"	1" - 11	83,5	10,6	41	55	55		

SAE STANDARD CONNECTIONS

MR42510

JIC FEM 37° CONE SEAT SAE J514

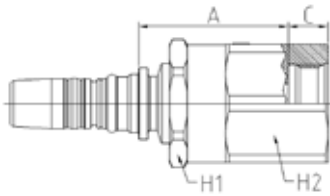


PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	A	C	H1	H2		
MR42510-12-12	19	- 12	3/4"	1.1/16" - 12	62,5	15	46	46			
MR42510-16-16	25	- 16	1"	1.5/16" - 12	70	16,5	55	55			

SAE STANDARD CONNECTIONS

MR42410

ORFS FEMALE ISO 8434-3 / SAE J1453

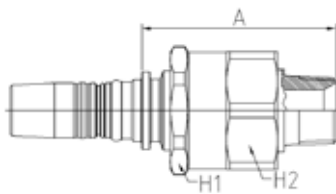


PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	A	C	H1	H2		
MR42410-12-12	19	- 12	3/4"	1.3/16" - 12	58	15,5	46	46			
MR42410-16-16	25	- 16	1"	1.7/16" - 12	66	16	55	55			

SAE STANDARD CONNECTIONS

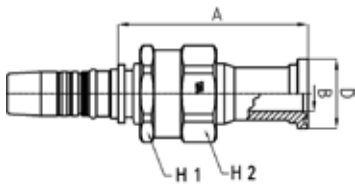
MR32810

NPTF MALE 60° CONE SEAT - SAE J516/J514



PART. REF.	HOSE BORE			Thread	DIMENSIONS mm					
	DN	Dash	inch		T	A	H1	H2		
MR32810-12-12	19	- 12	3/4"	3/4" - 14	77	46	46			
MR32810-16-16	25	- 16	1"	1" - 11,5	91	55	55			

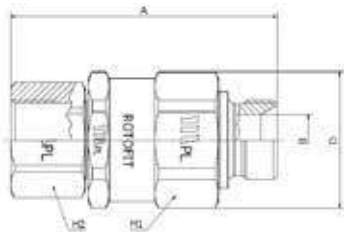
SAE STANDARD CONNECTIONS



MR43310

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

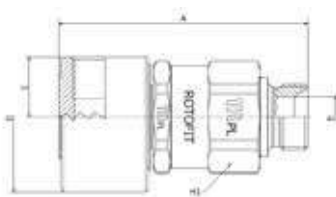
PART. REF.	HOSE BORE			Flange	DIMENSIONS mm						
	DN	Dash	inch		Inch	B	A	D	H1	H2	
MR43310-20-20	31	- 20	1.1/4"	1.1/4"	26	145,5	51	65	65		



AR520504

SWIVEL JOINT STRAIGHT
MALE BSP - FEMALE BSP

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	D	H1	H2	
AR520504-12-12				3/4" - 14	16,7	87,5	45	41	34		
AR520504-16-16				1" - 11	22,2	102	55	50	50		



AR580504

SWIVEL JOINT 90°
MALE BSP - FEMALE BSP

PART. REF.	HOSE BORE			Thread	DIMENSIONS mm						
	DN	Dash	inch		T	B	A	D	E	H1	
AR580504-12-12				3/4" - 14	16,7	100	60	24	41		

ADAPTORS

PRODUCT CATALOGUE 2012/2013



dedicated to service

fluiconnecto
— by manuli® —

Who we are	2
Contacts	4

ADAPTORS PRODUCT RANGE 5

Summary	6
Visual index	16
The concept	30
Termination ends	31
Port dimensions	35
End-thread measurement	40
Coupling chart	41
Part numbering system	42
Termination ends type numbering	44
Technical data	46
Accessories	217

SALES TERMS & CONDITIONS 225



WHO WE ARE

WHO WE ARE

Fluiconnecto is one of the leading companies in the global fluid-connector end-user market, providing tailored solutions for the mining, drilling and general industry. Located in 15 countries, Fluiconnecto operates over 135 service points, 40 service vans and 30 workshops on-site.

Fluiconnecto is a 100 % owned division of Manuli Rubber Industries, the world's leading privately owned manufacturer and engineering company in the field of hydraulic hoses and associated products with an annual turnover of more than € 320 million.

WHAT WE DO

Customer service, commitment and quality come first in our organization. We commit to deliver innovative solutions in a competitive market thus positioning us at the forefront of future development and technology.

The promise embraced by Manuli Fluiconnecto is that the brand is recognized as a world class service provider thanks to:

- commitment and drive to satisfy the customer needs
- quick response, short delivery times and wide product range
- quality solutions, expert knowledge and value added services
- extensive network and willingness to follow the customers where business opportunities arise

Our daily activities encompass

- Distribution of hydraulic products for agriculture, earth-moving, transport, mining, material handling, lifting, industrial cleaning, general industry and many others.
- Technical support service offered to all our customers driven by know how and experience.
- Hose assembly production through our Service Points, completely equipped to assure a prompt delivery.
- A complete stock level of all products to provide full availability.

HOW WE WORK TOGETHER

You can contact us in various ways:

- Come to our Service Point, we serve while waiting
- Send your order, we deliver your solution on time at the required location (Delivery Service)

- Call us, we pick up the broken assembly, prepare and deliver you a new one (PickUp & Delivery Service).
- We come to you and prepare your solution on site at your location (Service On Site vehicle)
- We provide you with a fully equipped container or Workshop-On-Site embedded within your operation

CURRENT NETWORK

Fluiconnecto manages an ever growing network of Service Points, Service-On-Site vans and Workshops-On-Site.

Europe: through over 100 Service Points and a fleet of Service-On-Site mobile vans in Benelux, France, Poland, Czech Republic, Hungary and Lithuania

Africa & Middle East: through Service Points, Workshops-On-Site and service vans in South Africa, Botswana and the Emirates

Asia Pacific: through Service Points, Workshops-On-Site and service vans in Singapore, China, Indonesia and Australia

South America: through Service Points and Workshops-On-Site in Argentina

Fluiconnecto Holding: located in Amersfoort, the Netherlands

HISTORY

Fluiconnecto experience starts more than 25 years ago, when So.na.tra (SOcieté NAntese de TRAnsmision) was founded in 1981, in La Chapelle sur Erdre France, near Nantes. Ever since, the network expanded into a total of 15 countries on 5 continents, making it a truly international service network. Until today, we strive to offer our products and services with local customer proximity, assuring peace of mind, wherever they are.

1994 Acquisition of So.Na.Tra. (then named Manuli Sonatra), a French retail company founded in 1981, active in the hydraulic sector and market leader in providing a global product offer and technical know how.

2002 Opening of the first Service Point Fluiconnecto in Myslowice, Poland.

2006 New network development in Lithuania, Latvia, Ukraine, Czech Rep., Hungary and Argentina. The distribution network is regrouped under the Fluiconnecto by Manuli brand..

Opening of the new CEE Warehouse based in Tychy – Silesia, Poland.

2007 Service Point network grows to over 90 in 9 countries.

WHO WE ARE

Fluiconnecto Benelux acquires the Dutch Hebu Group, a leading retail company established in 1940, with focus on hydraulics, operating through 16 Service Points throughout the Netherlands and 1 Service Point in Belgium.

2008 Fluiconnecto South Africa opens a Service Point in Johannesburg and acquires Powerforce Hydraulics in Witbank.

Acquisition of SIN AA Hydraulic & Trading Pte Ltd in Singapore (renamed Fluiconnecto) a leading company with a focus on hydraulics providing advanced maintenance services to the construction industry and the other sectors in the Singapore market.

2009 Manuli Hydraulics Australia migrated to Fluiconnecto network opening 3 Service Points.

Global network reaches more than 120 Service Points, 5 Workshops-On-Site and about 25 Service-On-Site vans.

2010 Fluiconnecto acquires the assets of the Hungarian Hidro Toth, a local company operating through 3 Service Points located in the Johannesburg – Pretoria area, raising the total number of Service Points in the country to 8.

New Service Point Makay in Australia is opened, focusing on the mining industry in the Queensland area

Fluiconnecto South Africa acquired Hydra-Quip, a local company operating through 3 Service Points located in the Johannesburg - Pretoria area, raising the total number of Service Points in the country to 8.

2011 Fluiconnecto by Manuli South Africa acquired Hydra-Quip, a local company operating through 3 Service Points located in the Johannesburg - Pretoria area, raising the total number of Service Points in the country to 8.

Opening of Fluiconnecto Indonesia, on the Island of Batam

Opening of Fluiconnecto China in Suzhou

Acquisition of Fluid Tech General Trading L.L.C., now Fluiconnecto UAE, based in the Emirate of Dubai

Opening of the second Service Point in Lithuania

2012 Acquisition of the Australian Company FLOW SERVICES PTY LIMITED trading as Hose Xpress. Flow Services, based in Newcastle Australia, with its mobile fleet of vehicles and a dedicated workshop is focused to serve a diverse range of market sectors, including those in the mining, construction and marine industries.

Acquisition of FLUID SYSTEMS BOTSWANA with 2 Service Points in Gabarone and Francistown, enjoying a prominent market position in a diverse range of market sectors, including those in the mining, construction and materials handling.

Manuli Fluiconnecto fulfills the customer needs through:



MARKETS

- Construction & public works
- Open pit & underground mining
- Material handling & logistics
- Industrial, cleaning & maintenance services
- Agriculture
- Forestry
- Naval & shipyards
- Oil, gas & energy

PRODUCTS & SERVICES

- High pressure hydraulic hoses & assemblies
- High pressure water hoses & assemblies
- Refrigeration hoses & assemblies
- Hose fittings
- Staple lock fitting & adaptors
- Pipes & clamps
- Bite-ring fittings
- Adaptors
- Quick release couplings
- Refrigeration connectors
- Assembling machines
- Pressure gauges
- Protection & safety accessories
- Sealing products
- Accessories
- Technical assistance
- Maintenance services
- Off-site maintenance
- On-site maintenance

KEY STRENGTHS

- International Service Points network
- Complete range for hydraulic and air conditioning applications
- Certified products
- Technical support services driven by field know-how

GLOBAL NETWORK

- Prompt product availability
- Over 130 Service Points in France, Benelux, Eastern Europe, Argentina, South Africa, Botswana, Dubai (UAE), Australia, Singapore, China and Indonesia
- 24h maintenance service operated by:
 - a fleet of Service vans
 - a group of Workshops-On-Site

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ADAPTORS PRODUCT RANGE



ADAPTORS

SUMMARY

Description	Reference	Page
JIC ADAPTORS		
MALE PLUG JIC (SAE J514)	A402500	46
FEMALE PLUG JIC (SAE J514)	A412500	46
SLEEVE JIC (SAE J514)	A422500	47
NUT JIC (SAE J514)	A432500	47
STRAIGHT ADAPTOR LONG JIC MALE 74° CONE SAE MALE O-RING BOSS TYPE (SAE J1926)	A502230	48
STRAIGHT ADAPTOR JIC MALE BULKHEAD 74° CONE (SAE J514) NPTF MALE 60° CONE SEAT (SAE J514)	A502328	48
STRAIGHT ADAPTOR JIC MALE 74° CONE (SAE J514) BSP MALE O-RING BOSS TYPE (ISO 1179-3)	A502503	49
JIC MALE (SAE J514) BSP MALE 60° CONE SEAT (ISO 228)	A502505	50
STRAIGHT ADAPTOR JIC MALE 74° CONE (SAE J514) BSP MALE TAPERED (ISO 7)	A502507	51
STRAIGHT ADAPTOR JIC MALE 74° CONE (SAE J514) NPTF MALE 60° CONE SEAT (SAE J514)	A502519	52
STRAIGHT BULKHEAD ADAPTOR JIC MALE 74° CONE (SAE J514)	A502523	53
STRAIGHT ADAPTOR JIC MALE 74° CONE (SAE J514)	A502525	53
STRAIGHT ADAPTOR JIC MALE 74° CONE (SAE J514) NPTF MALE 60° CONE SEAT (SAE J514)	A502528	54
STRAIGHT ADAPTOR JIC MALE 74° CONE (SAE J514) SAE MALE O-RING BOSS TYPE (SAE J1926)	A502530	55
JIC MALE (SAE J514) - AGRICULTURAL PORT	A502554	56
UNION JIC FEMALE 37° CONE SEAT (SAE J514 / ISO 8434-2)	A512525	56
STRAIGHT ADAPTOR JIC FEMALE 74° CONE SEAT (SAE J514) NPTF FIXED FEMALE (SAE J514)	A512534	57
JIC FEMALE (SAE J514) BSP PRESSURE GAUGE PORT	A512553	57
STRAIGHT ADAPTOR JIC FEMALE 74° CONE SEAT (SAE J514) BSP MALE O-RING BOSS TYPE (ISO 1179-3)	A520325	58
STRAIGHT ADAPTOR JIC FEMALE 74° CONE SEAT (SAE J514) - BSP MALE TAPERED (ISO 7)	A520725	59
METRIC MALE (ISO 6149-2) JIC FEMALE (SAE J514)	A521925	60
JIC MALE (SAE J514) BSP FIXED FEMALE	A522503	60
JIC MALE 37° CONE (SAE J514 / ISO 8434-2) - BSP FIXED FEMALE (ISO 1179-1)	A522504	61
JIC MALE (SAE J514) METRIC FIXED FEMALE (ISO 6149-1)	A522519	61
STRAIGHT ADAPTOR JIC MALE 74° CONE JIC FEMALE 74° CONE SEAT (SAE J514)	A522525	62
JIC MALE (SAE J514) NPSM SWIVEL FEMALE (SAE J476A)	A522528	63
JIC MALE (SAE J514) SAE FEMALE PORT (SAE J1926-1)	A522530	63
STRAIGHT ADAPTOR JIC MALE 74° CONE (SAE J514) NPTF FIXED FEMALE (SAE J514)	A522534	64
JIC MALE (SAE J514) BSP PRESSURE GAUGE PORT	A522553	64

Description	Reference	Page
STRAIGHT ADAPTOR NPTF MALE 60° CONE SEAT (SAE J514) JIC FEMALE 74° CONE SEAT (SAE J514)	A522825	65
STRAIGHT ADAPTOR SAE MALE O-RING BOSS TYPE (SAE J1926) JIC FEMALE 74° CONE SEAT (SAE J514)	A523025	65
NPT MALE - JIC FEMALE (SAE J514)	A523525	66
45° ELBOW ADAPTOR JIC MALE 74° CONE (SAE J514) BSP MALE TAPERED (ISO 7)	A532507	67
45° ELBOW ADJUSTABLE ADAPTOR JIC MALE 74° CONE (SAE J514) BSP MALE O-RING BOSS TYPE (ISO 1179-3)	A532509	67
JIC MALE (SAE J514) METRIC MALE O-RING BOSS TYPE (ISO 6149-2), 45° ELBOW	A532519	68
45° ELBOW BULKHEAD ADAPTOR JIC MALE 74° CONE (SAE J514)	A532523	68
JIC MALE (SAE J514), 45° ELBOW	A532525	69
45° ELBOW ADAPTOR JIC MALE 74° CONE (SAE J514) NPTF MALE 60° CONE SEAT (SAE J514)	A532528	69
45° ELBOW ADJUSTABLE ADAPTOR JIC MALE 74° CONE (SAE J514) SAE MALE O-RING BOSS TYPE (SAE J1926)	A532531	70
45° ELBOW ADAPTOR JIC MALE 74° CONE JIC FEMALE 74° CONE SEAT (SAE J514)	A552525	70
90° ELBOW ADAPTOR JIC MALE 74° CONE (SAE J514) BSP MALE TAPERED LONG (ISO 7)	A562502	71
90° ELBOW ADAPTOR JIC MALE 74° CONE (SAE J514) BSP MALE TAPERED (ISO 7)	A562507	72
90° ELBOW ADJUSTABLE ADAPTOR JIC MALE 74° CONE (SAE J514) BSP MALE O-RING BOSS TYPE (ISO 1179-3)	A562509	73
90° ELBOW ADJUSTABLE ADAPTOR JIC MALE 74° CONE (SAE J514) METRIC MALE (ISO 6149)	A562519	74
90° ELBOW BULKHEAD ADAPTOR JIC MALE 74° CONE (SAE J514)	A562523	74
90° ELBOW ADAPTOR JIC MALE 74° CONE (SAE J514)	A562525	75
90° ELBOW ADAPTOR JIC MALE 74° CONE (SAE J514) NPTF MALE 60° CONE SEAT (SAE J514)	A562528	76
90° ELBOW ADJUSTABLE ADAPTOR JIC MALE 74° CONE (SAE J514) SAE MALE O-RING BOSS TYPE (SAE J1926)	A562531	77
JIC MALE (SAE J514) NPT MALE, 90° ELBOW	A562535	78
90° ELBOW ADAPTOR JIC MALE 74° CONE JIC FEMALE 74° CONE SEAT (SAE J514)	A582525	79
90° ELBOW ADAPTOR JIC MALE 74° CONE (SAE J514) NPTF FIXED FEMALE (SAE J514)	A582534	79
90° ELBOW ADAPTOR NPTF MALE 60° CONE SEAT (SAE J514) JIC FEMALE 74° CONE SEAT (SAE J514)	A582825	80
UNION TEE JIC MALE 74° CONE (SAE J514)	A702525	80
BRANCH TEE JIC MALE 74° CONE (SAE J514) BSP FEMALE TAPERED (ISO 7)	A712502	81
BRANCH TEE JIC MALE 74° CONE JIC FEMALE 74° CONE SEAT (SAE J514)	A712525	81
RUN TEE JIC MALE 74° CONE JIC FEMALE 74° CONE SEAT (SAE J514)	A722525	82
RUN TEE JIC MALE 74° CONE (SAE J514) BSP MALE TAPERED (ISO 7)	A762507	82
RUN TEE ADJUSTABLE JIC MALE 74° CONE (SAE J514) BSP MALE O-RING BOSS TYPE (ISO 1179-3)	A762509	83
RUN TEE JIC MALE (SAE J514) METRIC ADJUSTABLE MALE (ISO 6149-2)	A762519	84

ADAPTORS

SUMMARY

Description	Reference	Page
RUN TEE BULKHEAD JIC MALE 74° CONE (SAE J514)	A762523	84
RUN TEE JIC MALE (SAE J514) NPTF MALE (SAE J476A)	A762528	85
RUN TEE ADJUSTABLE JIC MALE 74° CONE (SAE J514) SAE MALE O-RING BOSS TYPE (SAE J1926)	A762531	85
BRANCH TEE JIC MALE 74° CONE (SAE J514) BSP MALE TAPERED (ISO 7)	A782507	86
BRANCH TEE ADJUSTABLE JIC MALE 74° CONE (SAE J514) BSP MALE O-RING BOSS TYPE (ISO 1179-3)	A782509	87
BRANCH TEE JIC MALE (SAE J514) METRIC ADJUSTABLE MALE (ISO 6149-2)	A782519	88
BRANCH TEE BULKHEAD JIC MALE 74° CONE (SAE J514)	A782523	88
BRANCH TEE JIC MALE 74° CONE (SAE J514) NPTF MALE 60° CONE SEAT (SAE J514)	A782528	89
BRANCH TEE ADJUSTABLE JIC MALE 74° CONE (SAE J514) SAE MALE O-RING BOSS TYPE (SAE J1926)	A782531	89
EQUAL CROSS JIC MALE (SAE J514)	A902525	90

BSP ADAPTORS

MALE PLUG BSP OR BOSS (ISO 1179-3)	A400300	91
BSP MALE PLUG WITH SHAPED SEAL AND HEXAGONAL SOCKET HEAD	A400100E	91
MALE PLUG BSP PARALLEL 60° CONE SEAT (ISO 228)	A400500	92
MALE PLUG BSP PARALLEL 60° CONE SEAT DIN PROFILE (ISO 228)	A400500D	92
MALE PLUG BSP TAPERED (ISO 7)	A400700	93
BSP MALE PLUG "HEXAGONAL SOCKET HEAD" (ISO 7)	A400700E	93
BSP FIXED FEMALE PLUG	A410400	94
FEMALE PLUG BSP PARALLEL 60° CONE SEAT (ISO 228)	A410500	94
STRAIGHT ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228) BSP MALE O-RING BOSS TYPE (ISO 1179-3)	A500503	95
BSP MALE 60° CONE SEAT BSP BULKHEAD MALE (ISO 228)	A500504	96
STRAIGHT ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228)	A500505	97
STRAIGHT ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228) - BSP MALE TAPERED (ISO 7)	A500507	98
STRAIGHT ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228) NPTF MALE 60° CONE SEAT (SAE J514)	A500528	99
STRAIGHT ADAPTOR BSP MALE 60° CONE SEAT (ISO 228) SAE MALE O-RING BOSS TYPE (SAE J1926)	A500530	100
STRAIGHT ADAPTOR BSP MALE TAPERED (ISO 7)	A500707	101
STRAIGHT ADAPTOR BSP FIXED FEMALE	A510404	102
STRAIGHT ADAPTOR BSP FEMALE 60° CONE (ISO 228) BSP FEMALE TAPERED (ISO 7)	A510502	102
STRAIGHT ADAPTOR BSP FEMALE 60° CONE (ISO 228)	A510505	103
BSP FEMALE 60° CONE WITH O'RING (ISO 228)	A510808	103

Description	Reference	Page
STRAIGHT ADAPTOR BSP MALE OR BOSS (ISO 1179-3) BSP FIXED FEMALE (ISO 1179-1)	A520304	104
STRAIGHT ADAPTOR BSP MALE OR BOSS (ISO 1179-3) BSP FEMALE 60° CONE (ISO 228)	A520305	104
BSP MALE O-RING BOSS TYPE (ISO 1179-3) BSP PRESSURE GAUGE PORT	A520353	105
BSP MALE 60° CONE SEAT - BSP FIXED FEMALE	A520504	105
STRAIGHT ADAPTOR BSP MALE PARALLEL 60° CONE SEAT BSP FEMALE 60° CONE (ISO 228)	A520505	106
STRAIGHT ADAPTOR BSP MALE PARALLEL 60° CONE SEAT DIN PROFILE BSP FEMALE 60° CONE (ISO 228)	A520505D	106
BSP MALE 60° CONE SEAT DIN PROFILE BSP FEMALE 60° CONE WITH O-RING (ISO 228)	A520508	107
STRAIGHT ADAPTOR BSP MALE 60° CONE SEAT (ISO 228) NPSM SWIVEL FEMALE 60° CONE (SAE J514)	A520528	108
BSP MALE TAPERED (ISO 7) BSP FIXED FEMALE	A520704	109
STRAIGHT ADAPTOR BSP FEMALE 60° CONE (ISO 228) BSP MALE TAPERED (ISO 7)	A520705	110
45° ELBOW ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228) - BSP MALE TAPERED (ISO 7)	A530507	110
45° ELBOW ADJUSTABLE ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228) - BSP MALE O-RING BOSS TYPE (ISO 1179-3)	A530509	111
45° ELBOW ADJUSTABLE ADAPTOR BSP MALE PARALLEL 60° CONE SEAT(ISO 228)SAE MALE O-RING BOSS TYPE (SAE J1926)	A530531	112
DOUBLE BSP FIXED FEMALE, 45° ELBOW	A540404	112
45° ELBOW ADAPTOR BSP MALE PARALLEL 60° CONE SEAT BSP FEMALE 60° CONE (ISO 228)	A550505	113
BSP MALE TAPERED (ISO 7) BSP FIXED FEMALE, 45° ELBOW	A550704	113
"BSP MALE 60° CONE SEAT PARALLEL - BSP BULKHEAD MALE (ISO 228), 90° ELBOW	A560504	114
90° ELBOW ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228)	A560505	114
90° ELBOW ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228) BSP MALE TAPERED (ISO 7)	A560507	115
90° ELBOW ADJUSTABLE ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228) - BSP MALE O-RING BOSS TYPE (ISO 1179-3)	A560509	115
90° ELBOW ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228) NPTF MALE 60° CONE SEAT (SAE J514)	A560528	116
90° ELBOW ADJUSTABLE ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228) SAE MALE O-RING BOSS TYPE (SAE J1926)	A560531	116
90° ELBOW ADAPTOR BSP MALE TAPERED (ISO 7)	A560707	117
90° ELBOW ADAPTOR BSP FIXED FEMALE	A570404	117
90° ELBOW ADAPTOR BSP FEMALE 60° CONE (ISO 228)	A570505	118
90° ELBOW ADAPTOR BSP MALE PARALLEL 60° CONE SEAT BSP FEMALE 60° CONE (ISO 228)	A580505	118
BSP MALE 60° CONE SEAT BSP FEMALE 60° CONE WITH O-RING (ISO 228), 90° ELBOW	A580508	119
BSP MALE TAPERED (ISO 7) BSP FIXED FEMALE, 90° ELBOW	A580704	119
90° ELBOW ADAPTOR BSP MALE TAPERED (ISO 7) BSP FEMALE 60° CONE (ISO 228)	A580705	120
90° ELBOW ADJUSTABLE ADAPTOR BSP MALE OR BOSS (ISO 1179) BSP FEMALE 60° CONE (ISO 228)	A580905	120
UNION TEE BSP MALE 60° CONE SEAT (ISO 228)	A700505	121

ADAPTORS

SUMMARY

Description	Reference	Page
BRANCH TEE BSP MALE 60° CONE SEAT BSP FEMALE 60° CONE (ISO 228)	A710505	121
RUN TEE BSP MALE 60° CONE SEAT BSP FEMALE 60° CONE (ISO 228)	A720505	122
UNION TEE BSP FIXED FEMALE	A730404	122
UNION TEE BSP FEMALE 60° CONE (ISO 228)	A730505	123
RUN TEE ADJUSTABLE BSP MALE 60° CONE SEAT (ISO 228) BSP MALE O-RING BOSS TYPE (ISO 1179-3)	A760509	123
RUN TEE ADJUSTABLE BSP MALE 60° CONE SEAT (ISO 228) SAE MALE O-RING BOSS TYPE (SAE J1926)	A760531	124
BRANCH TEE ADJUSTABLE BSP MALE 60° CONE SEAT (ISO 228) BSP MALE O-RING BOSS TYPE (ISO 1179-3)	A780509	124
BRANCH TEE ADJUSTABLE BSP MALE 60° CONE SEAT (ISO 228) SAE MALE O-RING BOSS TYPE (SAE J1926)	A780531	125

ORFS ADAPTORS

MALE PLUG ORFS (SAE J1453)	A402400	126
FEMALE PLUG ORFS (SAE J1453)	A412400	126
SLEEVE ORFS (SAE J1453)	A422400	127
NUT ORFS (SAE J1453)	A432400	127
STRAIGHT ADAPTOR ORFS MALE (SAE J1453) BSP OR BOSS MALE (ISO 1179)	A502403	128
STRAIGHT ADAPTOR ORFS MALE (SAE J1453) METRIC MALE (ISO 6149)	A502419	129
STRAIGHT ADAPTOR ORFS MALE (SAE J1453)	A502424	130
STRAIGHT ADAPTOR ORFS MALE (SAE J1453) JIC MALE 74° CONE (SAE J514)	A502425	130
STRAIGHT BULKHEAD ADAPTOR ORFS MALE (SAE J1453)	A502427	131
STRAIGHT ADAPTOR ORFS MALE (SAE J1453) NPTF MALE 60° CONE SEAT (SAE J514)	A502428	131
ORFS MALE - ORFS LONG TYPE MALE (SAE J1453)	A502429	132
STRAIGHT ADAPTOR ORFS MALE (SAE J1453) SAE MALE O-RING BOSS TYPE (SAE J1926)	A502430	132
STRAIGHT ADAPTOR LONG ORFS MALE (SAE J1453) SAE MALE O-RING BOSS TYPE (SAE J1926)	A502930	133
BSP MALE 60° CONE SEAT DIN PROFILE (B55200 / ISO 8434-6) - ORFS SWIVEL FEMALE (SAE J1453 / ISO 8434-3)	A520524	133
STRAIGHT ADAPTOR ORFS MALE ORFS SWIVEL FEMALE (SAE J1453)	A522424	134
ORFS MALE (SAE J1453) WITH BRAZING SOCKET	A522495	134
STRAIGHT ADAPTOR JIC MALE 74° CONE (SAE J514) ORFS FEMALE (SAE J1453)	A522524	135
STRAIGHT ADAPTOR SAE OR BOSS MALE (SAE J1926) ORFS FEMALE (SAE J1453)	A523024	135
ORFS MALE (SAE J1453) BSP MALE O-RING BOSS TYPE (ISO 1179-3), 45° ELBOW	A532409	136
ORFS MALE (SAE J1453) METRIC ADJUSTABLE MALE (ISO 6149), 45° ELBOW	A532419	136
45° ELBOW ADAPTOR ORFS MALE (SAE J1453)	A532424	136

Description	Reference	Page
45° ELBOW ADJUSTABLE ADAPTOR ORFS MALE (SAE J1453) SAE MALE O-RING BOSS TYPE (SAE J1926)	A532431	137
90° ELBOW Adjustable ADAPTOR ORFS MALE (SAE J1453) BSP OR BOSS MALE (ISO 1179)	A562409	137
ORFS MALE (SAE J1453) METRIC ADJUSTABLE MALE (ISO 6149-2), 90° ELBOW	A562419	138
90° ELBOW ADAPTOR ORFS MALE (SAE J1453)	A562424	138
ORFS MALE (SAE J1453) ORFS BULKHEAD MALE, 90° ELBOW	A562427	139
90° ELBOW ADAPTOR ORFS MALE (SAE J1453) NPTF MALE 60° CONE SEAT (SAE J514)	A562428	139
90° ELBOW ADJUSTABLE ADAPTOR ORFS MALE (SAE J1453) SAE MALE O-RING BOSS TYPE (SAE J1926)	A562431	140
90° ELBOW ADAPTOR ORFS MALE-ORFS FEMALE (SAE J1453)	A582424	140
90° ELBOW ADJUSTABLE ADAPTOR ORFS FEMALE (SAE J1453) SAE OR BOSS MALE (SAE J1926)	A583124	141
UNION TEE ORFS MALE (SAE J1453)	A702424	141
BRANCH TEE ORFS MALE ORFS FEMALE (SAE J1453)	A712424	142
RUN TEE ORFS MALE ORFS FEMALE (SAE J1453)	A722424	142
RUN TEE BULKHEAD ORFS MALE (SAE J1453)	A762427	143
RUN TEE ADJUSTABLE ORFS MALE (SAE J1453) SAE MALE O-RING BOSS TYPE (SAE J1926)	A762431	143
BRANCH TEE ORFS MALE (SAE J1453) BSP MALE O'RING BOSS TYPE (ISO1179-3)	A782409	144
BRANCH TEE ADJUSTABLE ORFS MALE (SAE J1453) SAE MALE O-RING BOSS TYPE (SAE J1926)	A782431	144
EQUAL CROSS ORFS MALE (SAE J1453)	A902424	145

NPTF - NPSM ADAPTORS

MALE PLUG NPTF 60° CONE SEAT (SAE J514)	A402800	146
STRAIGHT ADAPTOR NPTF MALE 60° CONE SEAT (SAE J514)	A502828	146
NPTF FIXED FEMALE (SAE J476A)	A512828	147
STRAIGHT ADAPTOR NPSM SWIVEL FEMALE 60° CONE (SAE J514) NPTF FIXED FEMALE (SAE J514)	A512834	147
STRAIGHT ADAPTOR NPTF FIXED FEMALE (SAE J514)	A513434	148
STRAIGHT ADAPTOR NPTF MALE 60° CONE SEAT (SAE J514) NPSM SWIVEL FEMALE 60° CONE (SAE J514)	A522828	148
INCREASE ADAPTOR / REDUCER BUSHING NPTF MALE - NPTF FIXED FEMALE (SAE J514)	A522834	149
STRAIGHT ADAPTOR SAE MALE O-RING BOSS TYPE (SAE J1926) NPSM SWIVEL FEMALE 60° CONE (SAE J514)	A523028	150
NPT MALE - NPSM SWIVEL FEMALE	A523528	150
NPT MALE - NPT FEMALE	A523535	151
45° ELBOW ADAPTOR NPTF MALE 60° CONE SEAT (SAE J514) NPSM SWIVEL FEMALE 60° CONE (SAE J514)	A552828	151
45° ELBOW ADJUSTABLE ADAPTOR SAE MALE O-RING BOSS TYPE (SAE J1926) NPSM SWIVEL FEMALE 60° CONE (SAE J514)	A553128	152

ADAPTORS

SUMMARY

Description	Reference	Page
90° ELBOW ADAPTOR NPTF MALE 60° CONE SEAT (SAE J514)	A562828	152
90° ELBOW ADAPTOR NPSM SWIVEL FEMALE 60° CONE (SAE J514) NPTF FIXED FEMALE (SAE J514)	A572834	153
90° ELBOW ADAPTOR NPTF FIXED FEMALE (SAE J514)	A573434	153
90° ELBOW ADAPTOR NPTF MALE 60° CONE SEAT (SAE J514) NPSM SWIVEL FEMALE 60° CONE (SAE J514)	A582828	154
90° ELBOW ADAPTOR NPTF MALE 60° CONE SEAT (SAE J514) NPTF FIXED FEMALE (SAE J514)	A582834	155
90° ELBOW ADJUSTABLE ADAPTOR SAE MALE O-RING BOSS TYPE (SAE J1926) NPSM SWIVEL FEMALE 60° CONE (SAE J514)	A583128	156
UNION TEE NPSM SWIVEL FEMALE 60° CONE (SAE J514)	A732828	156
UNION TEE NPTF FIXED FEMALE (SAE J514)	A733434	157
BRANCH TEE NPSM SWIVEL FEMALE 60° CONE (SAE J514) NPTF MALE 60° CONE SEAT (SAE J514)	A742828	157
BRANCH TEE NPTF FIXED FEMALE (SAE J514) NPTF MALE 60° CONE SEAT (SAE J514)	A742834	158

METRIC ADAPTORS

METRIC MALE PLUG WITH SHAPED SEAL AND HEXAGONAL SOCKET HEAD	A401900E	159
BSP MALE TAPERED (ISO 7) METRIC MALE, 60° CONE SUPERLIGHT TYPE	A500710	160
BSP MALE TAPERED (ISO 7) METRIC MALE (ISO 6149-1)	A500719	160
METRIC MALE, 60° CONE SEAT, DIN SUPERLIGHT TYPE	A501010	161
METRIC FEMALE (ISO 6149-1)	A511919	161
BSP MALE TAPERED (ISO 7) METRIC FIXED FEMALE	A520714	162
METRIC MALE (ISO 6149-2) BSP FIXED FEMALE	A521904	162
METRIC MALE (ISO 6149-2) METRIC FIXED FEMALE (DIN 3852-1)	A521914	163
METRIC MALE (ISO 6149) NPT FEMALE	A521935	163

BITE RING CONNECTORS

METRIC MALE PLUG, LIGHT TYPE (DIN 2353)	A401100	164
METRIC MALE PLUG, HEAVY TYPE (DIN 2353)	A401200	164
METRIC FEMALE PLUG, LIGHT TYPE (DIN 2353)	A411500	165
METRIC FEMALE PLUG, HEAVY TYPE (DIN 2353)	A411600	165
BITE RING, LIGHT TYPE (DIN 2353)	A421100	166
BITE RING B4, LIGHT TYPE (DIN 2353)	A421100B4	166
BITE RING, LIGHT TYPE (DIN 2353)	A421200	167
BITE RING B4, HEAVY TYPE (DIN 2353)	A421200B4	167

Description	Reference	Page
METRIC SLEEVE, FRENCH MILLIMETRIC TYPE	A421700	168
METRIC NUT, LIGHT TYPE (DIN 2353)	A431100	169
METRIC NUT, HEAVY TYPE (DIN 2353)	A431200	169
METRIC NUT, FRENCH MILLIMETRIC TYPE	A431700	170
METRIC NUT, FRENCH GAZ TYPE	A431800	170
METRIC MALE LIGHT TYPE (DIN 2353) BSP MALE O’RING	A501106	171
BSP MALE TAPERED (ISO 7) METRIC MALE LIGHT TYPE (DIN 2353)	A501107	172
METRIC MALE LIGHT TYPE (DIN 2353)	A501111	173
METRIC MALE (DIN 3852-11) METRIC MALE, LIGHT TYPE (DIN 2353)	A501114	174
METRIC MALE LIGHT TYPE (DIN 2353) NPTF MALE (SAE J476A)	A501128	175
METRIC MALE LIGHT TYPE (DIN 2353) SAE MALE O’RING BOSS TYPE (SAE J1926)	A501130	176
METRIC MALE LIGHT TYPE METRIC BULKHEAD MALE LIGHT TYPE (DIN 2353)	A501177	176
METRIC MALE LIGHT TYPE (DIN 2353) METRIC MALE TAPERED	A501188	177
METRIC MALE LIGHT TYPE (DIN 2353) WELDING PIPE	A501195	177
METRIC MALE HEAVY TYPE (DIN 2353) BSP MALE O’RING	A501206	178
METRIC MALE HEAVY TYPE (DIN 2353) BSP MALE TAPERED (ISO 7)	A501207	179
METRIC MALE HEAVY TYPE (DIN 2353)	A501212	180
METRIC MALE HEAVY TYPE (DIN 2353) METRIC MALE (DIN 3852-11)	A501214	181
METRIC MALE HEAVY TYPE (DIN 2353) NPTF MALE (SAE J476A)	A501228	181
METRIC MALE HEAVY TYPE (DIN 2353) SAE MALE O’RING BOSS TYPE (SAE J1926)	A501230	182
METRIC MALE HEAVY TYPE METRIC BULKHEAD MALE HEAVY TYPE (DIN 2353)	A501287	182
METRIC MALE HEAVY TYPE (DIN 2353) METRIC MALE TAPERED	A501288	183
METRIC MALE HEAVY TYPE (DIN 2353) WELDING PIPE	A501295	183
METRIC FEMALE CONNECTOR, LIGHT TYPE STRAIGHT COUPLING WITH SWIVEL NUT (DIN 2353)	A511515	184
METRIC FEMALE CONNECTOR, HEAVY TYPE STRAIGHT COUPLING WITH SWIVEL NUT (DIN 2353)	A511616	184
BSP MALE - METRIC FEMALE LIGHT TYPE (DIN 2353)	A520615	185
BSP MALE METRIC FEMALE HEAVY TYPE (DIN 2353)	A520616	185
BSP MALE METRIC FEMALE STANDPIPE, LIGHT TYPE (DIN 2353)	A520620	186
BSP MALE METRIC FEMALE STANDPIPE, HEAVY TYPE (DIN 2353)	A520621	186

ADAPTORS

SUMMARY

Description	Reference	Page
METRIC MALE, LIGHT TYPE (DIN 2353) BSP BANJO COUPLING WITH ELASTOMER SEAL	A521103	187
METRIC MALE, LIGHT TYPE (DIN 2353) BSP FIXED FEMALE	A521104	187
METRIC MALE, LIGHT TYPE (DIN 2353) METRIC BANJO COUPLING WITH ELASTOMER SEAL	A521109	188
METRIC MALE, LIGHT TYPE (DIN 2353) METRIC FIXED FEMALE (DIN 3852-11)	A521114	188
REDUCING ADAPTOR WITH O’RING, LIGHT TYPE (DIN 2353)	A521115	189
METRIC MALE, LIGHT TYPE (DIN 2353) BSP PRESSURE GAUGE PORT	A521153	191
METRIC MALE, HEAVY TYPE (DIN 2353) BSP BANJO COUPLING WITH ELASTOMER SEAL	A521203	191
METRIC MALE, HEAVY TYPE (DIN 2353) BSP FIXED FEMALE	A521204	192
METRIC MALE, HEAVY TYPE (DIN 2353) METRIC BANJO COUPLING WITH ELASTOMER SEAL	A521209	192
METRIC MALE, HEAVY TYPE (DIN 2353) METRIC FIXED FEMALE (DIN 3852-11)	A521214	193
METRIC REDUCING ADAPTOR WITH O’RING, HEAVY TYPE (DIN 2353)	A521216	194
METRIC MALE, LIGHT TYPE (DIN 2353) BSP PRESSURE GAUGE PORT	A521253	196
METRIC MALE (DIN 3852-11) METRIC FEMALE, LIGHT TYPE (DIN 2353)	A521415	196
METRIC MALE (DIN 3852-11) METRIC FEMALE, HEAVY TYPE (DIN 2353)	A521416	197
METRIC MALE (DIN 3852-11) METRIC FEMALE STANDPIPE, LIGHT TYPE (DIN 2353)	A521420	197
WELDING FITTING WITH O’RING, HEAVY TYPE (DIN 2353)	A521695	198
METRIC MALE (DIN 3852-11) METRIC FEMALE STANDPIPE, HEAVY TYPE (DIN 2353)	A521421	198
NPTF MALE (SAE J476A) METRIC FEMALE STANDPIPE, LIGHT TYPE (DIN 2353)	A522820	199
NPTF MALE (SAE J476A) METRIC FEMALE STANDPIPE, HEAVY TYPE (DIN 2353)	A522821	199
METRIC MALE, LIGHT TYPE (DIN 2353) BSP FLAT FACE MALE, 90° ELBOW	A561106	200
METRIC MALE, LIGHT TYPE (DIN 2353) BSP MALE TAPERED (ISO 7), 90° ELBOW	A561107	200
METRIC MALE, LIGHT TYPE (DIN 2353), BSP MALE O’RING (ISO 1179-3), 90° ELBOW	A561109	201
METRIC MALE, LIGHT TYPE (DIN 2353), 90° EQUAL ELBOW	A561111	201
METRIC MALE, LIGHT TYPE (DIN 2353) NPT MALE (SAE J476A), 90° ELBOW	A561128	202
METRIC BULKHEAD MALE, LIGHT TYPE (DIN 2353), 90° ELBOW	A561177	202
METRIC MALE, LIGHT TYPE (DIN 2353) METRIC MALE TAPERED, 90° ELBOW	A561188	203
METRIC MALE, HEAVY TYPE (DIN 2353) BSP FLAT FACE MALE, 90° ELBOW	A561206	203
METRIC MALE HEAVY TYPE (DIN 2353) BSP MALE TAPERED (ISO 7), 90° ELBOW	A561207	204
METRIC MALE HEAVY TYPE (DIN 2353), BSP MALE O’RING, 90° ELBOW	A561209	204

ADAPTORS

SUMMARY

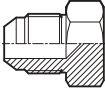



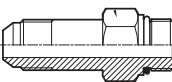
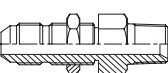
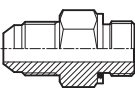

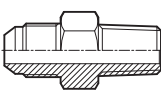
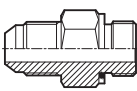
Description	Reference	Page
METRIC MALE HEAVY TYPE (DIN 2353), 90° ELBOW	A561212	205
METRIC MALE, HEAVY TYPE (DIN 2353) NPTF MALE (SAE J476A), 90° ELBOW	A561228	205
METRIC BULKHEAD MALE, HEAVY TYPE (DIN 2353), 90° ELBOW	A561287	206
METRIC MALE, HEAVY TYPE (DIN 2353) METRIC MALE TAPERED, 90° ELBOW	A561288	206
METRIC FEMALE STUD ELBOW, LIGHT TYPE (DIN 2353)	A581115	207
METRIC FEMALE STUD ELBOW, HEAVY TYPE (DIN 2353)	A581216	208
METRIC FEMALE STUD STANDPIPE 90° ELBOW, HEAVY TYPE (DIN 2353)	A581221	208
UNION TEE, LIGHT TYPE (DIN 2353)	A701111	209
UNION TEE, HEAVY TYPE (DIN 2353)	A701212	209
ADJUSTABLE STUD BRANCH TEE WITH O-RING, LIGHT TYPE (DIN 2353)	A711115	210
ADJUSTABLE STUD BRANCH TEE, LIGHT TYPE (DIN 2353)	A711120	210
ADJUSTABLE STUD BRANCH TEE WITH O-RING, HEAVY TYPE (DIN 2353)	A711216	211
ADJUSTABLE STUD BRANCH TEE, HEAVY TYPE (DIN 2353)	A711221	211
ADJUSTABLE STUD RUN TEE WITH O-RING, LIGHT TYPE (DIN 2353)	A721115	212
ADJUSTABLE STUD RUN TEE, LIGHT TYPE (DIN 2353)	A721120	212
ADJUSTABLE STUD RUN TEE WITH O-RING, HEAVY TYPE (DIN 2353)	A721216	213
ADJUSTABLE STUD RUN TEE, HEAVY TYPE (DIN 2353)	A721221	213
MALE STUD RUN TEE, LIGHT SERIES (DIN 2353) BSP MALE TAPERED (ISO 7)	A761107	214
MALE STUD BRANCH TEE, LIGHT SERIES (DIN 2353) BSP MALE TAPERED (ISO 7)	A781107	214
MALE STUD BRANCH TEE, HEAVY SERIES (DIN 2353) BSP MALE TAPERED (ISO 7)	A781207	215
EQUAL CROSS, LIGHT TYPE (DIN 2353)	A901111	215
EQUAL CROSS, HEAVY TYPE (DIN 2353)	A901212	216
ACCESSORIES		217

ADAPTORS

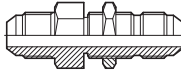
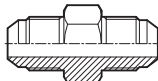
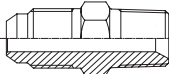
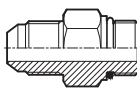
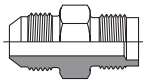
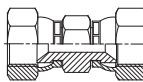
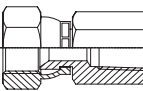
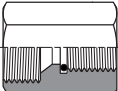
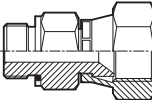
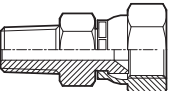
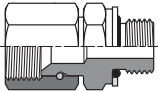
VISUAL INDEX

Reference	Description	Page
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JIC ADAPTORS

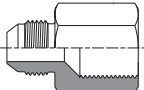
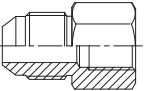
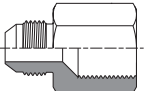
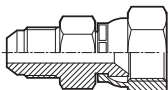

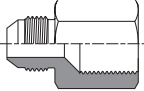
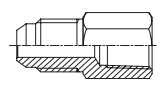
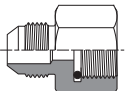
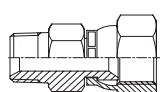

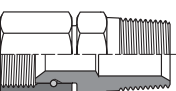
A402500	MALE PLUG JIC (SAE J514)	46
		
A412500	FEMALE PLUG JIC (SAE J514)	46
		
A422500	SLEEVE JIC (SAE J514)	47
		
A432500	NUT JIC (SAE J514)	47
		
A502230	STRAIGHT ADAPTOR LONG JIC MALE 74° CONE SAE MALE O-RING BOSS TYPE (SAE J1926)	48
		
A502328	STRAIGHT ADAPTOR JIC MALE BULKHEAD 74° CONE (SAE J514) NPTF MALE 60° CONE SEAT (SAE J514)	48
		
A502503	STRAIGHT ADAPTOR JIC MALE 74° CONE (SAE J514) BSP MALE O-RING BOSS TYPE (ISO 1179-3)	49
		
A502505	JIC MALE (SAE J514) BSP MALE 60° CONE SEAT (ISO 228)	50
		
A502507	STRAIGHT ADAPTOR JIC MALE (SAE J514) METRIC MALE (ISO 6149)	51
		
A502519	STRAIGHT BULKHEAD ADAPTOR JIC MALE 74° CONE (SAE J514)	52
		

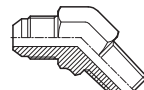
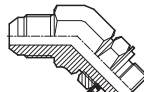
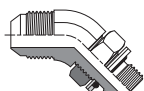
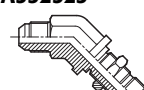
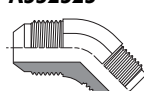
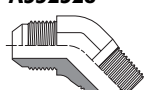
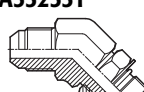
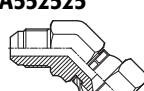



Reference	Description	Page
-----------	-------------	------

A502523	STRAIGHT BULKHEAD ADAPTOR JIC MALE 74° CONE (SAE J514)	53
		
A502525	STRAIGHT ADAPTOR JIC MALE 74° CONE (SAE J514)	53
		
A502528	STRAIGHT ADAPTOR JIC MALE 74° CONE (SAE J514) NPTF MALE 60° CONE SEAT (SAE J514)	54
		
A502530	STRAIGHT ADAPTOR JIC MALE 74° CONE (SAE J514) SAE MALE O-RING BOSS TYPE (SAE J1926)	55
		
A502554	JIC MALE (SAE J514) - AGRICULTURAL PORT	56
		
A512525	UNION JIC FEMALE 37° CONE SEAT (SAE J514 / ISO 8434-2)	56
		
A512534	STRAIGHT ADAPTOR JIC FEMALE 74° CONE SEAT (SAE J514) NPTF FIXED FEMALE (SAE J514)	57
		
A512553	JIC FEMALE (SAE J514) - BSP PRESSURE GAUGE PORT	57
		
A520325	STRAIGHT ADAPTOR JIC FEMALE 74° CONE SEAT (SAE J514) BSP MALE O-RING BOSS TYPE (ISO 1179-3)	58
		
A520725	STRAIGHT ADAPTOR JIC FEMALE 74° CONE SEAT (SAE J514) BSP MALE TAPERED (ISO 7)	59
		
A521925	METRIC MALE (ISO 6149-2) JIC FEMALE (SAE J514)	60
		

ADAPTORS

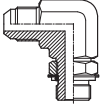
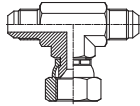
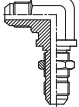
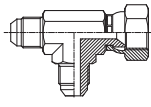
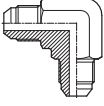
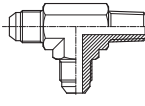
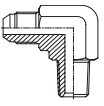
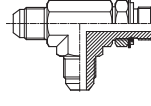
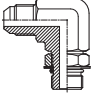
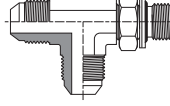
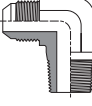
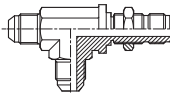
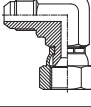
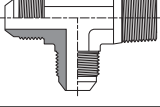
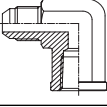
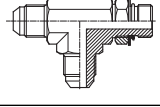
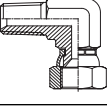
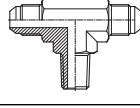
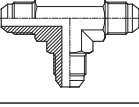
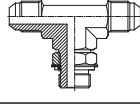
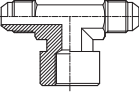
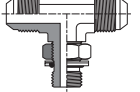
VISUAL INDEX

Reference	Description	Page
A522503	JIC MALE (SAE J514) BSP FIXED FEMALE	60
		
A522504	JIC MALE 37° CONE (SAE J514 / ISO 8434-2) BSP FIXED FEMALE (ISO 1179-1)	61
		
A522519	JIC MALE (SAE J514) METRIC FIXED FEMALE (ISO 6149-1)	61
		
A522525	STRAIGHT ADAPTOR JIC MALE 74° CONE JIC FEMALE 74° CONE SEAT (SAE J514)	62
		
A522528	JIC MALE (SAE J514) NPSM SWIVEL FEMALE (SAE J476A)	63
		
A522530	JIC MALE (SAE J514) SAE FEMALE PORT (SAE J1926-1)	63
		
A522534	STRAIGHT ADAPTOR JIC MALE 74° CONE (SAE J514) NPTF FIXED FEMALE (SAE J514)	64
		
A522553	JIC MALE (SAE J514) BSP PRESSURE GAUGE PORT	64
		
A522825	STRAIGHT ADAPTOR NPTF MALE 60° CONE SEAT (SAE J514) JIC FEMALE 74° CONE SEAT (SAE J514)	65
		
A523025	STRAIGHT ADAPTOR SAE MALE O-RING BOSS TYPE (SAE J1926) JIC FEMALE 74° CONE SEAT (SAE J514)	65
		
A523525	NPT MALE JIC FEMALE (SAE J514)	66
		

Reference	Description	Page
A532507	45° ELBOW ADAPTOR JIC MALE 74° CONE (SAE J514) BSP MALE TAPERED (ISO 7)	67
		
A532509	45° ELBOW ADJUSTABLE ADAPTOR JIC MALE 74° CONE (SAE J514) BSP MALE O-RING BOSS TYPE (ISO 1179-3)	67
		
A532519	JIC MALE (SAE J514) - METRIC MALE O-RING BOSS TYPE (ISO 6149-2), 45° ELBOW	68
		
A532523	45° ELBOW BULKHEAD ADAPTOR JIC MALE 74° CONE (SAE J514)	68
		
A532525	JIC MALE (SAE J514), 45° ELBOW	69
		
A532528	JIC MALE (SAE J514) NPTF MALE (SAE 476A), 45° ELBOW	69
		
A532531	45° ELBOW ADJUSTABLE ADAPTOR JIC MALE 74° CONE (SAE J514) SAE MALE O-RING BOSS TYPE (SAE J1926)	70
		
A552525	45° ELBOW ADAPTOR JIC MALE 74° CONE JIC FEMALE 74° CONE SEAT (SAE J514)	70
		
A562502	90° ELBOW ADAPTOR JIC MALE 74° CONE (SAE J514) BSP MALE TAPERED LONG (ISO 7)	71
		
A562507	90° ELBOW ADAPTOR JIC MALE 74° CONE (SAE J514) BSP MALE TAPERED (ISO 7)	72
		
A562509	90° ELBOW ADJUSTABLE ADAPTOR JIC MALE 74° CONE (SAE J514) BSP MALE O-RING BOSS TYPE (ISO 1179-3)	73
		

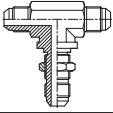
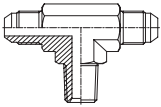
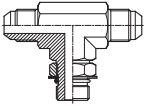

ADAPTORS

VISUAL INDEX


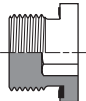

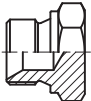
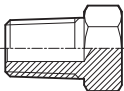
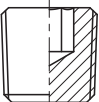
Reference	Description	Page	Reference	Description	Page
A562519	90° ELBOW ADJUSTABLE ADAPTOR JIC MALE 74° CONE (SAE J514) METRIC MALE (ISO 6149)	74	A712525	BRANCH TEE JIC MALE 74° CONE JIC FEMALE 74° CONE SEAT (SAE J514)	81
					
A562523	90° ELBOW BULKHEAD ADAPTOR JIC MALE 74° CONE (SAE J514)	74	A722525	RUN TEE JIC MALE 74° CONE JIC FEMALE 74° CONE SEAT (SAE J514)	82
					
A562525	90° ELBOW ADAPTOR JIC MALE 74° CONE (SAE J514)	75	A762507	RUN TEE JIC MALE 74° CONE (SAE J514) BSP MALE TAPERED (ISO 7)	82
					
A562528	90° ELBOW ADAPTOR JIC MALE 74° CONE (SAE J514) NPTF MALE 60° CONE SEAT (SAE J514)	76	A762509	RUN TEE ADJUSTABLE JIC MALE 74° CONE (SAE J514) BSP MALE O-RING BOSS TYPE (ISO 1179-3)	83
					
A562531	90° ELBOW ADJUSTABLE ADAPTOR JIC MALE 74° CONE (SAE J514) SAE MALE O-RING BOSS TYPE (SAE J1926)	77	A762519	RUN TEE JIC MALE (SAE J514) METRIC ADJUSTABLE MALE (ISO 6149-2)	84
					
A562535	JIC MALE (SAE J514) - NPT MALE, 90° ELBOW	78	A762523	RUN TEE BULKHEAD JIC MALE 74° CONE (SAE J514)	84
					
A582525	90° ELBOW ADAPTOR JIC MALE 74° CONE JIC FEMALE 74° CONE SEAT (SAE J514)	79	A762528	RUN TEE JIC MALE (SAE J514) NPTF MALE (SAE J476A)	85
					
A582534	90° ELBOW ADAPTOR JIC MALE 74° CONE (SAE J514) NPTF FIXED FEMALE (SAE J514)	79	A762531	RUN TEE ADJUSTABLE JIC MALE 74° CONE (SAE J514) SAE MALE O-RING BOSS TYPE (SAE J1926)	85
					
A582825	90° ELBOW ADAPTOR NPTF MALE 60° CONE SEAT (SAE J514) JIC FEMALE 74° CONE SEAT (SAE J514)	80	A782507	BRANCH TEE JIC MALE 74° CONE (SAE J514) BSP MALE TAPERED (ISO 7)	86
					
A702525	UNION TEE JIC MALE 74° CONE (SAE J514)	80	A782509	BRANCH TEE ADJUSTABLE JIC MALE 74° CONE (SAE J514) BSP MALE O-RING BOSS TYPE (ISO 1179-3)	87
					
A712502	BRANCH TEE JIC MALE 74° CONE (SAE J514) BSP FEMALE TAPERED (ISO 7)	81	A782519	BRANCH TEE JIC MALE (SAE J514) METRIC ADJUSTABLE MALE (ISO 6149-2)	88
					

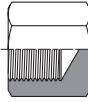
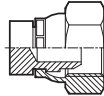
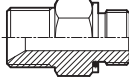
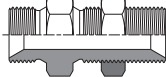
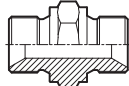
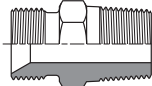
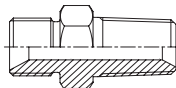
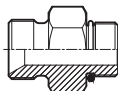
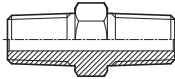
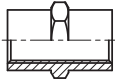
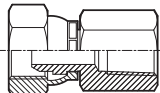
ADAPTORS

VISUAL INDEX

Reference	Description	Page
A782523	BRANCH TEE BULKHEAD JIC MALE 74° CONE (SAE J514)	88
		
A782528	BRANCH TEE JIC MALE 74° CONE (SAE J514) NPTF MALE 60° CONE SEAT (SAE J514)	89
		
A782531	BRANCH TEE ADJUSTABLE JIC MALE 74° CONE (SAE J514) SAE MALE O-RING BOSS TYPE (SAE J1926)	89
		
A902525	EQUAL CROSS JIC MALE (SAE J514)	90
		

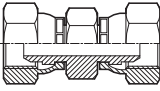
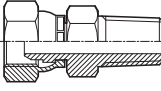
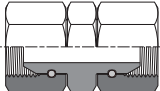
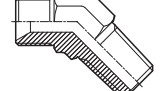
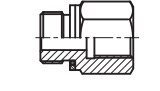
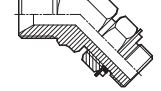
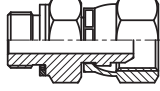
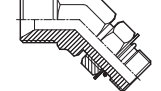

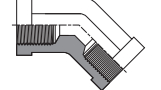

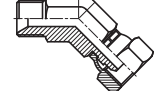
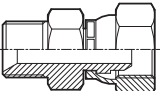
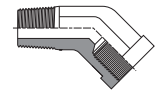

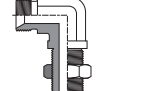

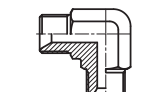
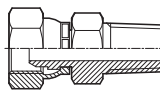
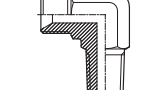
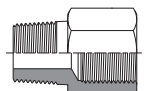
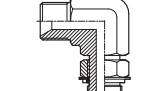
M^F4000™ BSP ADAPTORS

A400300	MALE PLUG BSP OR BOSS (ISO 1179-3)	91
		
A400100E	BSP MALE PLUG WITH SHAPED SEAL AND HEXAGONAL SOCKET HEAD	91
		
A400500	MALE PLUG BSP PARALLEL 60° CONE SEAT (ISO 228)	92
		
A400500D	MALE PLUG BSP PARALLEL 60° CONE SEAT DIN PROFILE (ISO 228)	92
		
A400700	MALE PLUG BSP TAPERED (ISO 7)	93
		
A400700E	BSPT MALE PLUG "HEXAGONAL SOCKET HEAD" (ISO 7)	93
		

Reference	Description	Page
A410400	BSP FIXED FEMALE PLUG	94
		
A410500	FEMALE PLUG BSP PARALLEL 60° CONE SEAT (ISO 228)	94
		
A500503	STRAIGHT ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228) BSP MALE O-RING BOSS TYPE (ISO 1179-3)	95
		
A500504	BSP MALE 60° CONE SEAT BSP BULKHEAD MALE (ISO 228)	96
		
A500505	STRAIGHT ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228)	97
		
A500507	BSP MALE PARALLEL 60° CONE SEAT (ISO 228) BSP MALE TAPERED (ISO 7)	98
		
A500528	STRAIGHT ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228) NPTF MALE 60° CONE SEAT (SAE J514)	99
		
A500530	STRAIGHT ADAPTOR BSP MALE 60° CONE SEAT (ISO 228) SAE MALE O-RING BOSS TYPE (SAE J1926)	100
		
A500707	STRAIGHT ADAPTOR BSP MALE TAPERED (ISO 7)	101
		
A510404	STRAIGHT ADAPTOR BSP FIXED FEMALE	102
		
A510502	STRAIGHT ADAPTOR BSP FEMALE 60° CONE (ISO 228) BSP FEMALE TAPERED (ISO 7)	102
		

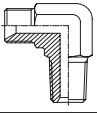
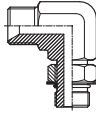
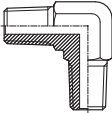
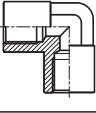
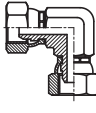
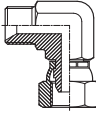
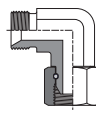
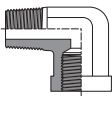
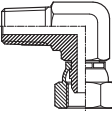
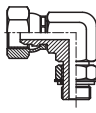
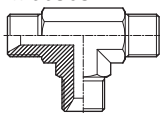
ADAPTORS

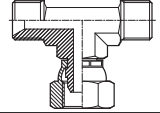
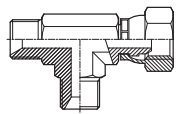
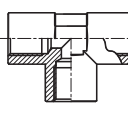
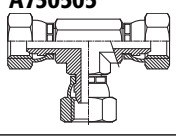
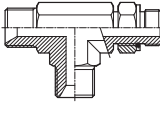
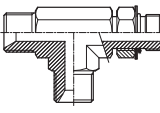
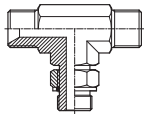
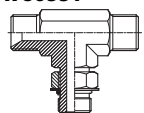
VISUAL INDEX

Reference	Description	Page	Reference	Description	Page
A510505	STRAIGHT ADAPTOR BSP FEMALE 60° CONE (ISO 228)	103	A520705	STRAIGHT ADAPTOR BSP FEMALE 60° CONE (ISO 228) BSP MALE TAPERED (ISO 7)	110
					
A510808	BSP FEMALE 60° CONE WITH O'RING (ISO 228)	103	A530507	45° ELBOW ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228) BSP MALE TAPERED (ISO 7)	110
					
A520304	STRAIGHT ADAPTOR BSP MALE OR BOSS (ISO 1179-3) BSP FIXED FEMALE (ISO 1179-1)	104	A530509	45° ELBOW ADJUSTABLE ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228) BSP MALE O-RING BOSS TYPE (ISO 1179-3)	111
					
A520305	STRAIGHT ADAPTOR BSP MALE OR BOSS (ISO 1179-3) BSP FEMALE 60° CONE (ISO 228)	104	A530531	45° ELBOW ADJUSTABLE ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228) SAE MALE O-RING BOSS TYPE (SAE J1926)	112
					
A520353	BSP MALE O'RING BOSS TYPE (ISO 1179-3) BSP PRESSURE GAUGE PORT	105	A540404	DOUBLE BSP FIXED FEMALE, 45° ELBOW	112
					
A520504	BSP MALE 60° CONE SEAT BSP FIXED FEMALE	105	A550505	45° ELBOW ADAPTOR BSP MALE PARALLEL 60° CONE SEAT BSP FEMALE 60° CONE (ISO 228)	113
					
A520505	STRAIGHT ADAPTOR BSP MALE PARALLEL 60° CONE SEAT BSP FEMALE 60° CONE (ISO 228)	106	A550704	BSP MALE TAPERED (ISO 7) - BSP FIXED FEMALE, 45° ELBOW	113
					
A520505D	STRAIGHT ADAPTOR BSP MALE PARALLEL 60° CONE SEAT DIN PROFILE BSP FEMALE 60° CONE (ISO 228)	106	A560504	BSP MALE 60° CONE SEAT PARALLEL - BSP BULKHEAD MALE (ISO 228), 90° ELBOW	114
					
A520508	BSP MALE 60° CONE SEAT DIN PROFILE BSP FEMALE 60° CONE WITH O'RING (ISO 228)	107	A560505	90° ELBOW ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228)	114
					
A520528	STRAIGHT ADAPTER BSP MALE 60° CONE SEAT (ISO 228) NPSM SWIVEL FEMALE 60° CONE (SAE J514)	108	A560507	90° ELBOW ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228) BSP MALE TAPERED (ISO 7)	115
					
A520704	BSP MALE TAPERED (ISO 7) BSP FIXED FEMALE	109	A560509	90° ELBOW ADJUSTABLE ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228) - BSP MALE O-RING BOSS TYPE (ISO 1179-3)	115
					

ADAPTORS

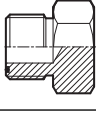
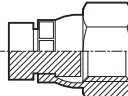
VISUAL INDEX

Reference	Description	Page
A560528	90° ELBOW ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228) NPTF MALE 60° CONE SEAT (SAE J514)	116
		
A560531	90° ELBOW ADJUSTABLE ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228) SAE MALE O-RING BOSS TYPE (SAE J1926)	116
		
A560707	90° ELBOW ADAPTOR BSP MALE TAPERED (ISO 7)	117
		
A570404	90° ELBOW ADAPTOR BSP FIXED FEMALE	117
		
A570505	90° ELBOW ADAPTOR BSP FEMALE 60° CONE (ISO 228)	118
		
A580505	90° ELBOW ADAPTOR BSP MALE PARALLEL 60° CONE SEAT BSP FEMALE 60° CONE (ISO 228)	118
		
A580508	BSP MALE 60° CONE SEAT - BSP FEMALE 60° CONE WITH O'RING (ISO 228), 90° ELBOW	119
		
A580704	BSP MALE TAPERED (ISO 7) - BSP FIXED FEMALE, 90° ELBOW	119
		
A580705	90° ELBOW ADAPTOR BSP MALE TAPERED (ISO 7) BSP FEMALE 60° CONE (ISO 228)	120
		
A580905	90° ELBOW ADJUSTABLE ADAPTOR BSP MALE OR BOSS (ISO 1179) BSP FEMALE 60° CONE (ISO 228)	120
		
A700505	UNION TEE BSP MALE 60° CONE SEAT (ISO 228)	121
		

Reference	Description	Page
A710505	BRANCH TEE BSP MALE 60° CONE SEAT BSP FEMALE 60° CONE (ISO 228)	121
		
A720505	RUN TEE BSP MALE 60° CONE SEAT BSP FEMALE 60° CONE (ISO 228)	122
		
A730404	UNION TEE BSP FIXED FEMALE	122
		
A730505	UNION TEE BSP FEMALE 60° CONE (ISO 228)	123
		
A760509	RUN TEE ADJUSTABLE BSP MALE 60° CONE SEAT (ISO 228) BSP MALE O-RING BOSS TYPE (ISO 1179-3)	123
		
A760531	RUN TEE ADJUSTABLE BSP MALE 60° CONE SEAT (ISO 228) SAE MALE O-RING BOSS TYPE (SAE J1926)	124
		
A780509	BRANCH TEE ADJUSTABLE BSP MALE 60° CONE SEAT (ISO 228) BSP MALE O-RING BOSS TYPE (ISO 1179-3)	124
		
A780531	BRANCH TEE ADJUSTABLE BSP MALE 60° CONE SEAT (ISO 228) SAE MALE O-RING BOSS TYPE (SAE J1926)	125
		

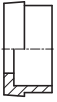

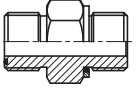
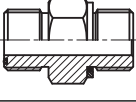
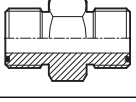
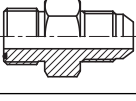
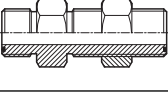
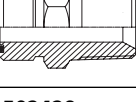

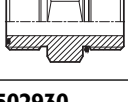



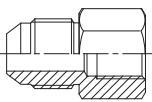
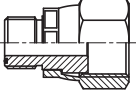
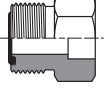
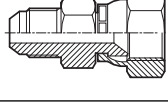
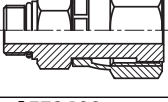
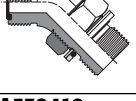
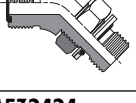
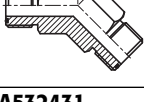



ORFS ADAPTORS

A402400	MALE PLUG ORFS (SAE J1453)	126
		
A412400	FEMALE PLUG ORFS (SAE J1453)	126
		

ADAPTORS

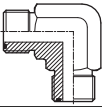
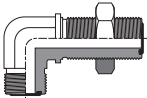
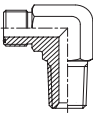
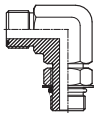
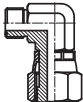
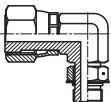
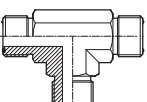

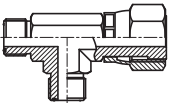
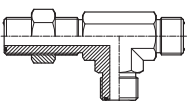
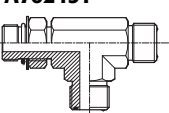
VISUAL INDEX

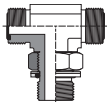
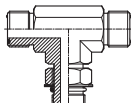
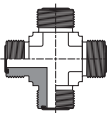
Reference	Description	Page
A422400	SLEEVE ORFS (SAE J1453)	127
		
A432400	NUT ORFS (SAE J1453)	127
		
A502403	STRAIGHT ADAPTOR ORFS MALE (SAE J1453) BSP OR BOSS MALE (ISO 1179)	128
		
A502419	STRAIGHT ADAPTOR ORFS MALE (SAE J1453) METRIC MALE (ISO 6149)	129
		
A502424	STRAIGHT ADAPTOR ORFS MALE (SAE J1453)	130
		
A502425	STRAIGHT ADAPTOR ORFS MALE (SAE J1453) JIC MALE 74° CONE (SAE J514)	130
		
A502427	STRAIGHT BULKHEAD ADAPTOR ORFS MALE (SAE J1453)	131
		
A502428	STRAIGHT ADAPTOR ORFS MALE (SAE J1453) NPTF MALE 60° CONE SEAT (SAE J514)	131
		
A502429	ORFS MALE - ORFS LONG TYPE MALE (SAE J1453)	132
		
A502430	STRAIGHT ADAPTOR ORFS MALE (SAE J1453) SAE MALE O-RING BOSS TYPE (SAE J1926)	132
		
A502930	STRAIGHT ADAPTOR LONG ORFS MALE (SAE J1453) SAE MALE O-RING BOSS TYPE (SAE J1926)	133
		

Reference	Description	Page
A520524	BSP MALE 60° CONE SEAT DIN PROFILE (BS5200 / ISO 8434-6) ORFS SWIVEL FEMALE (SAE J1453 / ISO 8434-3)	133
		
A522424	STRAIGHT ADAPTOR ORFS MALE ORFS SWIVEL FEMALE (SAE J1453)	134
		
A522495	ORFS MALE (SAE J1453) WITH BRAZING SOCKET	134
		
A522524	STRAIGHT ADAPTOR JIC MALE 74° CONE (SAE J514) ORFS FEMALE (SAE J1453)	135
		
A523024	STRAIGHT ADAPTOR SAE OR BOSS MALE (SAE J1926) ORFS FEMALE (SAE J1453)	135
		
A532409	ORFS MALE (SAE J1453) - BSP MALE O-RING BOSS TYPE, 45° ELBOW	136
		
A532419	ORFS MALE (SAE J1453) METRIC ADJUSTABLE MALE (ISO 6149), 45° ELBOW	136
		
A532424	45° ELBOW ADAPTOR ORFS MALE (SAE J1453)	136
		
A532431	45° ELBOW ADJUSTABLE ADAPTOR ORFS MALE (SAE J1453) SAE MALE O-RING BOSS TYPE (SAE J1926)	137
		
A562409	90° ELBOW ADJUSTABLE ADAPTOR ORFS MALE (SAE J1453) BSP OR BOSS MALE (ISO 1179)	137
		
A562419	ORFS MALE (SAE J1453) - METRIC ADJUSTABLE MALE (ISO 6149-2), 90° ELBOW	138
		

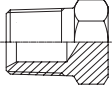
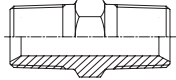
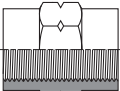
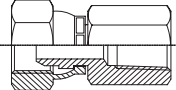
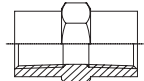
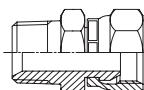
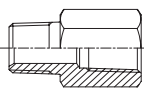
ADAPTORS

VISUAL INDEX

Reference	Description	Page
A562424	90° ELBOW ADAPTOR ORFS MALE (SAE J1453)	138
		
A562427	ORFS MALE (SAE J1453) - ORFS BULKHEAD MALE, 90° ELBOW	139
		
A562428	90° ELBOW ADAPTOR ORFS MALE (SAE J1453) NPTF MALE 60° CONE SEAT (SAE J514)	139
		
A562431	90° ELBOW ADJUSTABLE ADAPTOR ORFS MALE (SAE J1453) SAE MALE O-RING BOSS TYPE (SAE J1926)	140
		
A582424	90° ELBOW ADAPTOR ORFS MALE-ORFS FEMALE (SAE J1453)	140
		
A583124	90° ELBOW ADJUSTABLE ADAPTOR ORFS FEMALE (SAE J1453) SAE OR BOSS MALE (SAE J1926)	141
		
A702424	UNION TEE ORFS MALE (SAE J1453)	141
		
A712424	BRANCH TEE ORFS MALE - ORFS FEMALE (SAE J1453)	142
		
A722424	RUN TEE ORFS MALE - ORFS FEMALE (SAE J1453)	142
		
A762427	RUN TEE BULKHEAD ORFS MALE (SAE J1453)	143
		
A762431	RUN TEE ADJUSTABLE ORFS MALE (SAE J1453) SAE MALE O-RING BOSS TYPE (SAE J1926)	143
		

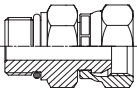
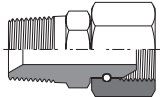
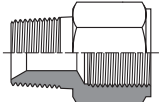
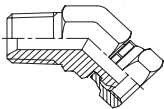
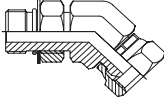
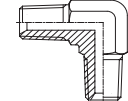
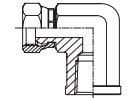
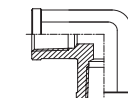
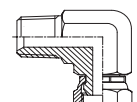
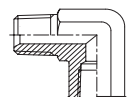
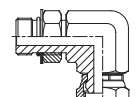
Reference	Description	Page
A782409	BRANCH TEE ORFS MALE (SAE J1453) BSP MALE O-RING BOSS TYPE (ISO1179-3)	144
		
A782431	BRANCH TEE ADJUSTABLE ORFS MALE (SAE J1453) SAE MALE O-RING BOSS TYPE (SAE J1926)	144
		
A902424	EQUAL CROSS ORFS MALE (SAE J1453)	145
		

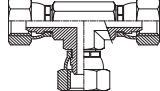
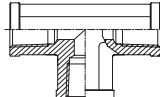
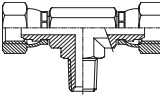
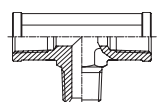
NPTF - NPSM ADAPTORS

A402800	MALE PLUG NPTF 60° CONE SEAT (SAE J514)	146
		
A502828	STRAIGHT ADAPTOR NPTF MALE 60° CONE SEAT (SAE J514)	146
		
A512828	NPTF FIXED FEMALE (SAE J476A)	147
		
A512834	STRAIGHT ADAPTOR NPSM SWIVEL FEMALE 60° CONE (SAE J514) NPTF FIXED FEMALE (SAE J514)	147
		
A513434	STRAIGHT ADAPTOR NPTF FIXED FEMALE (SAE J514)	148
		
A522828	STRAIGHT ADAPTOR NPTF MALE 60° CONE SEAT (SAE J514) NPSM SWIVEL FEMALE 60° CONE (SAE J514)	148
		
A522834	INCREASE ADAPTORS / REDUCER BUSHINGS NPTF MALE NPTF FIXED FEMALE (SAE J514)	149
		

ADAPTORS

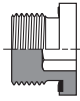
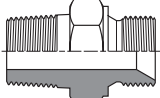
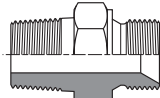
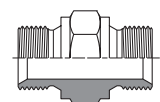
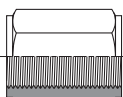
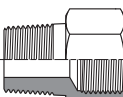
VISUAL INDEX

Reference	Description	Page
A523028	STRAIGHT ADAPTOR SAE MALE O-RING BOSS TYPE (SAE J1926) NPSM SWIVEL FEMALE 60° CONE (SAE J514)	150
		
A523528	NPT MALE - NPSM SWIVEL FEMALE	150
		
A523535	NPT MALE - NPT FEMALE	151
		
A552828	45° ELBOW ADAPTOR NPTF MALE 60° CONE SEAT (SAE J514) NPSM SWIVEL FEMALE 60° CONE (SAE J514)	151
		
A553128	45° ELBOW ADJUSTABLE ADAPTOR SAE MALE O-RING BOSS TYPE (SAE J1926) NPSM SWIVEL FEMALE 60° CONE (SAE J514)	152
		
A562828	90° ELBOW ADAPTOR NPTF MALE 60° CONE SEAT (SAE J514)	152
		
A572834	90° ELBOW ADAPTOR NPSM SWIVEL FEMALE 60° CONE (SAE J514) NPTF FIXED FEMALE (SAE J514)	153
		
A573434	90° ELBOW ADAPTOR NPTF FIXED FEMALE (SAE J514)	153
		
A582828	90° ELBOW ADAPTOR NPTF MALE 60° CONE SEAT (SAE J514) NPSM SWIVEL FEMALE 60° CONE (SAE J514)	154
		
A582834	90° ELBOW ADAPTOR NPTF MALE 60° CONE SEAT (SAE J514) NPTF FIXED FEMALE (SAE J514)	155
		
A583128	90° ELBOW ADJUSTABLE ADAPTOR SAE MALE O-RING BOSS TYPE (SAE J1926) NPSM SWIVEL FEMALE 60° CONE (SAE J514)	156
		

Reference	Description	Page
A732828	UNION TEE NPSM SWIVEL FEMALE 60° CONE (SAE J514)	156
		
A733434	UNION TEE NPTF FIXED FEMALE (SAE J514)	157
		
A742828	BRANCH TEE NPSM SWIVEL FEMALE 60° CONE (SAE J514) NPTF MALE 60° CONE SEAT (SAE J514)	157
		
A742834	BRANCH TEE NPTF FIXED FEMALE (SAE J514) NPTF MALE 60° CONE SEAT (SAE J514)	158
		

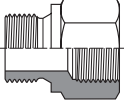
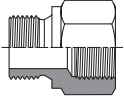
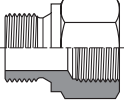
RF4000

METRIC ADAPTORS

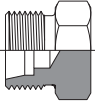
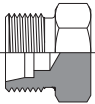
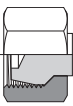
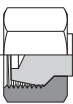
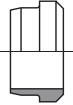
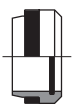

A401900E	METRIC MALE PLUG WITH SHAPED SEAL AND HEXAGONAL SOCKET HEAD	159
		
A500710	BSP MALE TAPERED (ISO 7) - METRIC MALE, 60° CONE SUPERLIGHT TYPE	160
		
A500719	METRIC MALE (ISO 6149-1) - BSP MALE TAPERED (ISO-7)	160
		
A501010	METRIC MALE, 60° CONE SEAT, DIN SUPERLIGHT TYPE	161
		
A511919	METRIC FEMALE (ISO 6149-1)	161
		
A520714	BSP MALE TAPERED (ISO 7) - METRIC FIXED FEMALE	162
		


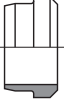


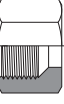
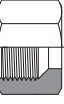
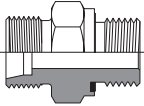
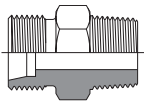
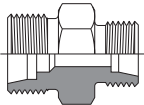
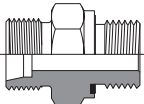
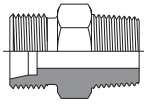
ADAPTORS

VISUAL INDEX

Reference	Description	Page
A521904	METRIC MALE (ISO 6149-2) - BSP FIXED FEMALE	162
		
A521914	METRIC MALE (ISO 6149-2) - METRIC FIXED FEMALE (DIN 3852-1)	163
		
A521935	METRIC MALE (ISO 6149) - NPT FEMALE	163
		

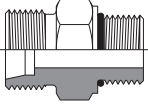
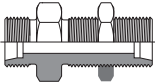
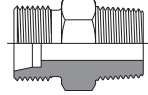
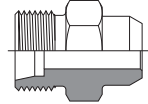
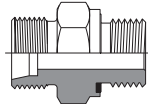
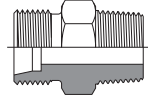
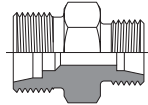
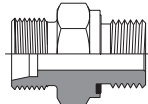
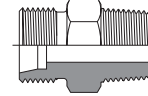
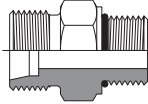
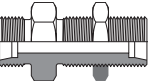
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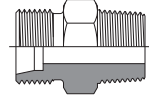

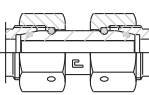
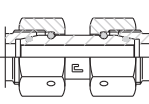


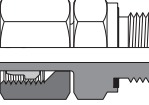
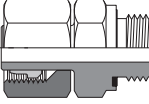
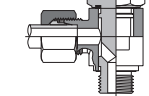
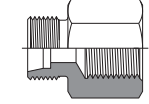
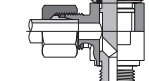
A401100	METRIC MALE PLUG, LIGHT TYPE (DIN 2353)	164
		
A401200	METRIC MALE PLUG, HEAVY TYPE (DIN 2353)	164
		
A411500	METRIC FEMALE PLUG, LIGHT TYPE (DIN 2353)	165
		
A411600	METRIC FEMALE PLUG, HEAVY TYPE (DIN 2353)	165
		
A421100	BITE RING, LIGHT TYPE (DIN 2353)	166
		
A421100B4	BITE RING B4, LIGHT TYPE (DIN 2353)	166
		
A421200	BITE RING, HEAVY TYPE (DIN 2353)	167
		

Reference	Description	Page
A421200B4	BITE RING B4, HEAVY TYPE (DIN 2353)	167
		
A421700	METRIC SLEEVE, FRENCH MILLIMETRIC TYPE	168
		
A431100	METRIC NUT, LIGHT TYPE (DIN 2353)	169
		
A431200	METRIC NUT, HEAVY TYPE (DIN 2353)	169
		
A431700	METRIC NUT, FRENCH MILLIMETRIC TYPE	170
		
A431800	METRIC NUT, FRENCH GAZ TYPE	170
		
A501106	METRIC MALE LIGHT TYPE (DIN 2353) BSP MALE O'RING	171
		
A501107	BSP MALE TAPERED (ISO 7) - METRIC MALE LIGHT TYPE (DIN 2353)	172
		
A501111	METRIC MALE LIGHT TYPE (DIN 2353)	173
		
A501114	METRIC MALE (DIN 3852-11) - METRIC MALE, LIGHT TYPE (DIN 2353)	174
		
A501128	METRIC MALE LIGHT TYPE (DIN 2353) NPTF MALE (SAE J476A)	175
		

ADAPTORS

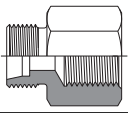
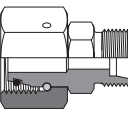
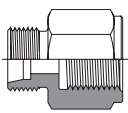
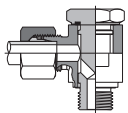
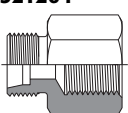
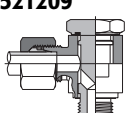
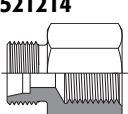
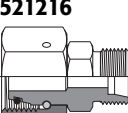
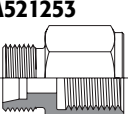
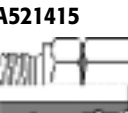
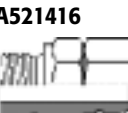
VISUAL INDEX

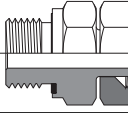
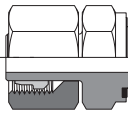

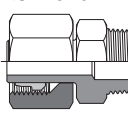
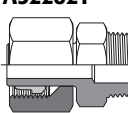
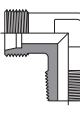
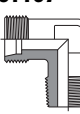

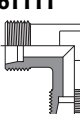
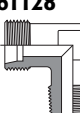

Reference	Description	Page
A501130	METRIC MALE LIGHT TYPE (DIN 2353) SAE MALE O'RING BOSS TYPE (SAE J1926)	176
		
A501177	METRIC MALE LIGHT TYPE - METRIC BULKHEAD MALE LIGHT TYPE (DIN 2353)	176
		
A501188	METRIC MALE LIGHT TYPE (DIN 2353) - METRIC MALE TAPERED	177
		
A501195	METRIC MALE LIGHT TYPE (DIN 2353) - WELDING PIPE	177
		
A501206	METRIC MALE HEAVY TYPE (DIN 2353) - BSP MALE O'RING	178
		
A501207	METRIC MALE HEAVY TYPE (DIN 2353) - BSP MALE TAPERED (ISO 7)	179
		
A501212	METRIC MALE HEAVY TYPE (DIN 2353)	180
		
A501214	METRIC MALE HEAVY TYPE (DIN 2353) METRIC MALE (DIN 3852-11)	181
		
A501228	METRIC MALE HEAVY TYPE (DIN 2353) NPTF MALE (SAE J476A)	181
		
A501230	METRIC MALE HEAVY TYPE (DIN 2353) SAE MALE O'RING BOSS TYPE (SAE J1926)	182
		
A501287	METRIC MALE HEAVY TYPE - METRIC BULKHEAD MALE HEAVY TYPE (DIN 2353)	182
		

Reference	Description	Page
A501288	METRIC MALE HEAVY TYPE (DIN 2353) METRIC MALE TAPERED	183
		
A501295	METRIC MALE HEAVY TYPE (DIN 2353) WELDING PIPE	183
		
A511515	METRIC FEMALE CONNECTOR, LIGHT TYPE STRAIGHT COUPLING WITH SWIVEL NUT (DIN 2353)	184
		
A511616	METRIC FEMALE CONNECTOR, HEAVY TYPE STRAIGHT COUPLING WITH SWIVEL NUT (DIN 2353)	184
		
A520615	BSP MALE - METRIC FEMALE LIGHT TYPE (DIN 2353)	185
		
A520616	BSP MALE - METRIC FEMALE HEAVY TYPE (DIN 2353)	185
		
A520620	BSP MALE - METRIC FEMALE STANDPIPE, LIGHT TYPE (DIN 2353)	186
		
A520621	BSP MALE - METRIC FEMALE STANDPIPE, HEAVY TYPE (DIN 2353)	186
		
A521103	METRIC MALE, LIGHT TYPE (DIN 2353) BSP BANJO COUPLING WITH ELASTOMER SEAL	187
		
A521104	METRIC MALE, LIGHT TYPE (DIN 2353) BSP FIXED FEMALE	187
		
A521109	METRIC MALE, LIGHT TYPE (DIN 2353) METRIC BANJO COUPLING WITH ELASTOMER SEAL	188
		

ADAPTORS

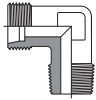
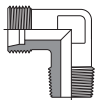
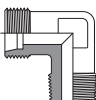


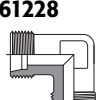


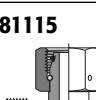

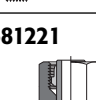
VISUAL INDEX

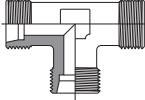
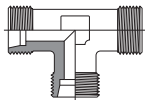
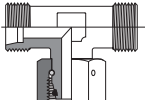
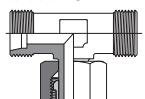
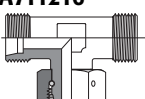
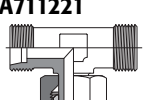
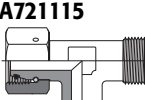
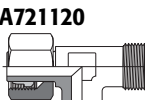
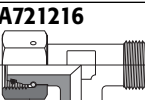
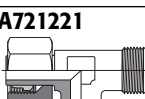
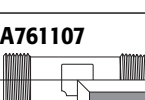
Reference	Description	Page
A521114	METRIC MALE, LIGHT TYPE (DIN 2353) METRIC FIXED FEMALE (DIN 3852-11)	188
		
A521115	REDUCING ADAPTOR WITH O-RING, LIGHT TYPE (DIN 2353)	189
		
A521153	METRIC MALE, LIGHT TYPE (DIN 2353) BSP PRESSURE GAUGE PORT	191
		
A521203	METRIC MALE, HEAVY TYPE (DIN 2353) BSP BANJO COUPLING WITH ELASTOMER SEAL	191
		
A521204	METRIC MALE, HEAVY TYPE (DIN 2353) BSP FIXED FEMALE	192
		
A521209	METRIC MALE, HEAVY TYPE (DIN 2353) METRIC BANJO COUPLING WITH ELASTOMER SEAL	192
		
A521214	METRIC MALE HEAVY TYPE (DIN 2353) METRIC FIXED FEMALE (ISO 6149-1)	193
		
A521216	METRIC REDUCING ADAPTOR WITH O-RING, HEAVY TYPE (DIN 2353)	194
		
A521253	METRIC MALE, LIGHT TYPE (DIN 2353) BSP PRESSURE GAUGE PORT	196
		
A521415	METRIC MALE (DIN 3852-11) METRIC FEMALE, LIGHT TYPE (DIN 2353)	196
		
A521416	METRIC MALE (DIN 3852-11) METRIC FEMALE, HEAVY TYPE (DIN 2353)	197
		

Reference	Description	Page
A521420	METRIC MALE (DIN 3852-11) - METRIC FEMALE STANDPIPE, LIGHT TYPE (DIN 2353)	197
		
A521421	METRIC MALE (DIN 3852-11) - METRIC FEMALE STANDPIPE, HEAVY TYPE (DIN 2353)	198
		
A521695	WELDING FITTING WITH O-RING, HEAVY TYPE (DIN 2353)	198
		
A522820	NPTF MALE (SAE J476A) - METRIC FEMALE STANDPIPE, LIGHT TYPE (DIN 2353)	199
		
A522821	NPTF MALE (SAE J476A) - METRIC FEMALE STANDPIPE, HEAVY TYPE (DIN 2353)	199
		
A561106	METRIC MALE, LIGHT TYPE (DIN 2353) BSP FLAT FACE MALE, 90° ELBOW	200
		
A561107	METRIC MALE, LIGHT TYPE (DIN 2353) BSP MALE TAPERED (ISO 7), 90° ELBOW	200
		
A561109	METRIC MALE, LIGHT TYPE (DIN 2353) BSP MALE O-RING (ISO 1179-3), 90° ELBOW	201
		
A561111	METRIC MALE, LIGHT TYPE (DIN 2353), 90° EQUAL ELBOW	201
		
A561128	METRIC MALE, LIGHT TYPE (DIN 2353) NPT MALE (SAE J476A), 90° ELBOW	202
		
A561177	METRIC BULKHEAD MALE, LIGHT TYPE (DIN 2353), 90° ELBOW	202
		

ADAPTORS

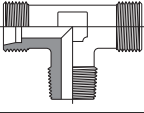
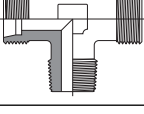
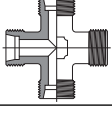
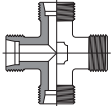
VISUAL INDEX

Reference	Description	Page
A561188	METRIC MALE, LIGHT TYPE (DIN 2353) METRIC MALE TAPERED, 90° ELBOW	203
		
A561206	METRIC MALE, HEAVY TYPE (DIN 2353) BSP FLAT FACE MALE, 90° ELBOW	203
		
A561207	METRIC MALE HEAVY TYPE (DIN 2353) BSP MALE TAPERED (ISO 7), 90° ELBOW	204
		
A561209	METRIC MALE HEAVY TYPE (DIN 2353) BSP MALE O'RING, 90° ELBOW	204
		
A561212	METRIC MALE HEAVY TYPE (DIN 2353), 90° ELBOW	205
		
A561228	METRIC MALE, HEAVY TYPE (DIN 2353) NPTF MALE (SAE J476A), 90° ELBOW	205
		
A561287	METRIC BULKHEAD MALE, HEAVY TYPE (DIN 2353), 90° ELBOW	206
		
A561288	METRIC MALE, HEAVY TYPE (DIN 2353) METRIC MALE TAPERED, 90° ELBOW	206
		
A581115	METRIC FEMALE STUD ELBOW, LIGHT TYPE (DIN 2353)	207
		
A581216	METRIC FEMALE STUD ELBOW, HEAVY TYPE (DIN 2353)	208
		
A581221	METRIC FEMALE STUD STANDPIPE 90° ELBOW, HEAVY TYPE (DIN 2353)	208
		

Reference	Description	Page
A701111	UNION TEE, LIGHT TYPE (DIN 2353)	209
		
A701212	UNION TEE, HEAVY TYPE (DIN 2353)	209
		
A711115	ADJUSTABLE STUD BRANCH TEE WITH O'RING, LIGHT TYPE (DIN 2353)	210
		
A711120	ADJUSTABLE STUD BRANCH TEE, LIGHT TYPE (DIN 2353)	210
		
A711216	ADJUSTABLE STUD BRANCH TEE WITH O'RING, HEAVY TYPE (DIN 2353)	211
		
A711221	ADJUSTABLE STUD BRANCH TEE, HEAVY TYPE (DIN 2353)	211
		
A721115	ADJUSTABLE STUD RUN TEE WITH O'RING, LIGHT TYPE (DIN 2353)	212
		
A721120	ADJUSTABLE STUD RUN TEE, LIGHT TYPE (DIN 2353)	212
		
A721216	ADJUSTABLE STUD RUN TEE WITH O'RING, HEAVY TYPE (DIN 2353)	213
		
A721221	ADJUSTABLE STUD RUN TEE, HEAVY TYPE (DIN 2353)	213
		
A761107	MALE STUD RUN TEE, LIGHT SERIES (DIN 2353) - BSP MALE TAPERED (ISO 7)	214
		

ADAPTORS

VISUAL INDEX

Reference	Description	Page
A781107 	MALE STUD BRANCH TEE, LIGHT SERIES (DIN 2353) - BSP MALE TAPERED (ISO 7)	214
A781207 	MALE STUD BRANCH TEE, HEAVY SERIES (DIN 2353) - BSP MALE TAPERED (ISO 7)	215
A901111 	EQUAL CROSS, LIGHT TYPE (DIN 2353)	215
A901212 	EQUAL CROSS, HEAVY TYPE (DIN 2353)	216

ADAPTORS

THE CONCEPT

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

STEEL TUBE FITTINGS COMPARISON

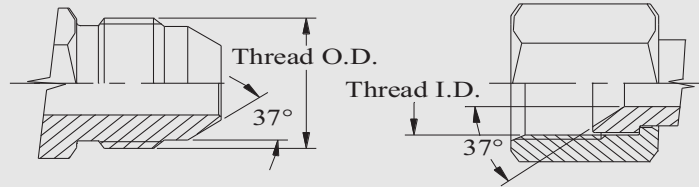
MAIN CHARACTERISTICS

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

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

ADAPTORS

TERMINATION ENDS SAE J514, 37° FLARE - JIC



This connection type is very common in hydraulic circuits. Both the male and female have a 37° cone seat. When the straight threads are engaged the seal takes place. The connection is held mechanically by the threads.

WARNING: In sizes -04, -05, -08, and -10, the threads of the SAE 37° and SAE 45° are the same but the connectors have different sealing angles.

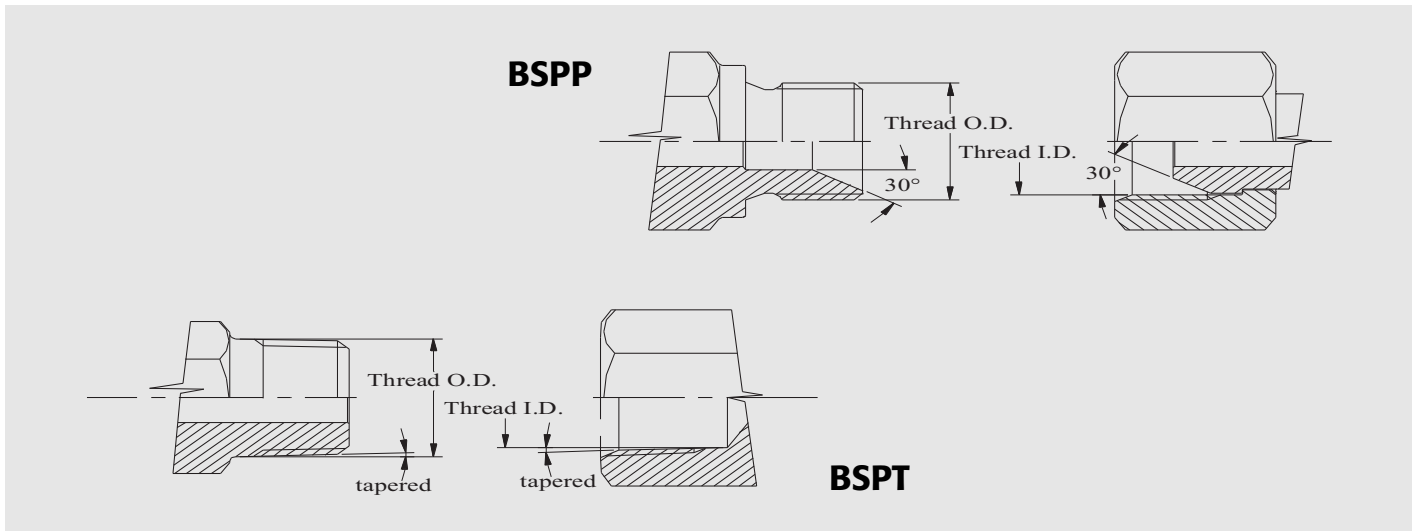
INCH SIZE	DASH	NOMINAL THREAD SIZE	MALE THREAD O.D.		FEMALE THREAD I.D.		WORKING PRESSURE		SUGGESTED TORQUE VALUES (NM)	
			mm	inch	mm	inch	bar	psi	min.	max.
1/4"	-04	7/16" - 20	11,2	0,44	9,9	0,39	350	5070	12	15
5/16"	-05	1/2" - 20	12,7	0,50	11,4	0,45	350	5070	18	22
3/8"	-06	9/16" - 18	14,2	0,56	12,9	0,51	350	5070	24	32
1/2"	-08	3/4" - 16	19,0	0,75	17,0	0,67	350	5070	45	52
5/8"	-10	7/8" - 14	22,3	0,88	20,3	0,80	350	5070	68	80
3/4"	-12	1.1/16" - 12	26,9	1,06	24,9	0,98	350	5070	93	105
7/8"	-14	1.3/16" - 12	30,0	1,18	27,7	1,09	280	4060	115	130
1"	-16	1.5/16" - 12	33,3	1,31	31,0	1,22	280	4060	130	148
1.1/4"	-20	1.5/8" - 12	41,4	1,63	39,1	1,54	210	3040	175	192
1.1/2"	-24	1.7/8" - 12	47,7	1,88	45,5	1,79	160	2320	215	230

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

TERMINATION ENDS

British Standard Pipe - BSP (BSPP Parallel-ISO 228-PT & BSPT Tapered-ISO 7-PT)



The British connection has two types of threads: BSPP and BSPT.

The BSPP thread is parallel and the male has a 30° flare seat which seals with a BSPP female on its 30° cone seat. The threads hold the connection mechanically.

The BSPT male thread is tapered and usually mates with a port. The seal takes place by thread distortion, therefore sealant is recommended.

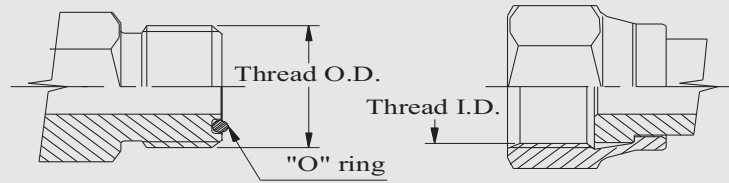
The BSPP/BSPT are similar to NPSM/NPT American connections with exception for the thread pitch that is different in most sizes.

INCH SIZE	DASH	NOMINAL THREAD SIZE	MALE THREAD O.D.		FEMALE THREAD I.D.		WORKING PRESSURE		SUGGESTED TORQUE VALUES (NM)	
			mm	inch	mm	inch	bar	psi	min.	max.
1/8"	- 02	1/8" - 28	9,728	0,38	8,566	0,34	350	5070	10	12
1/4"	- 04	1/4" - 19	13,157	0,52	11,445	0,45	500	7250	15	20
3/8"	- 06	3/8" - 19	16,662	0,66	14,950	0,59	460	6670	25	32
1/2"	- 08	1/2" - 14	20,955	0,83	18,631	0,73	430	6230	45	55
5/8"	- 10	5/8" - 14	22,911	0,90	20,587	0,81	350	5070	55	65
3/4"	- 12	3/4" - 14	26,441	1,04	24,117	0,95	350	5070	80	93
1"	- 16	1" - 11	33,249	1,31	30,291	1,19	280	4060	104	120
1.1/4"	- 20	1.1/4" - 11	41,910	1,65	38,952	1,53	160	2320	150	170
1.1/2"	- 24	1.1/2" - 11	47,803	1,88	44,845	1,77	125	1810	210	230

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code **.SS**

ADAPTORS

TERMINATION ENDS O-RING FACE SEAL (ORFS) - SAE J1453 / ISO 8434-3



This connection offers the best leakage control available in the market and it is designed to work with very high pressures.

The male has a straight thread with an O-ring in the face. The female has a straight thread with a machined flat face. The seal is made by the compression of the O-ring onto the female flat face and the connection is mechanically held in place by the threads.

INCH SIZE	DASH	NOMINAL THREAD SIZE	MALE THREAD O.D.		FEMALE THREAD I.D.		WORKING PRESSURE	SUGGESTED TORQUE VALUES (NM)		O-RING DIMENSIONS	
			mm	inch	mm	inch		min.	max.		
1/4"	-04	9/16" - 18	14,2	0,56	12,9	0,51	460	6670	15	18	7,65x1,78
3/8"	-06	11/16" - 16	17,3	0,68	16,0	0,63	460	6670	24	28	9,25x1,78
1/2"	-08	13/16" - 16	20,6	0,81	19,0	0,75	420	6090	43	50	12,42x1,78
5/8"	-10	1" - 14	25,4	1,00	23,6	0,93	420	6090	62	68	15,6x1,78
3/4"	-12	1.3/16" - 12	30,0	1,18	27,8	1,10	420	6090	93	100	18,77x1,78
1"	-16	1.7/16" - 12	36,6	1,44	34,5	1,36	350	5070	125	140	23,52x1,78
1.1/4"	-20	1.11/16" - 12	42,7	1,68	40,6	1,60	275	3980	170	190	29,87x1,78
1.1/2"	-24	2" - 12	50,8	2,00	48,8	1,92	210	3040	210	230	37,82x1,78

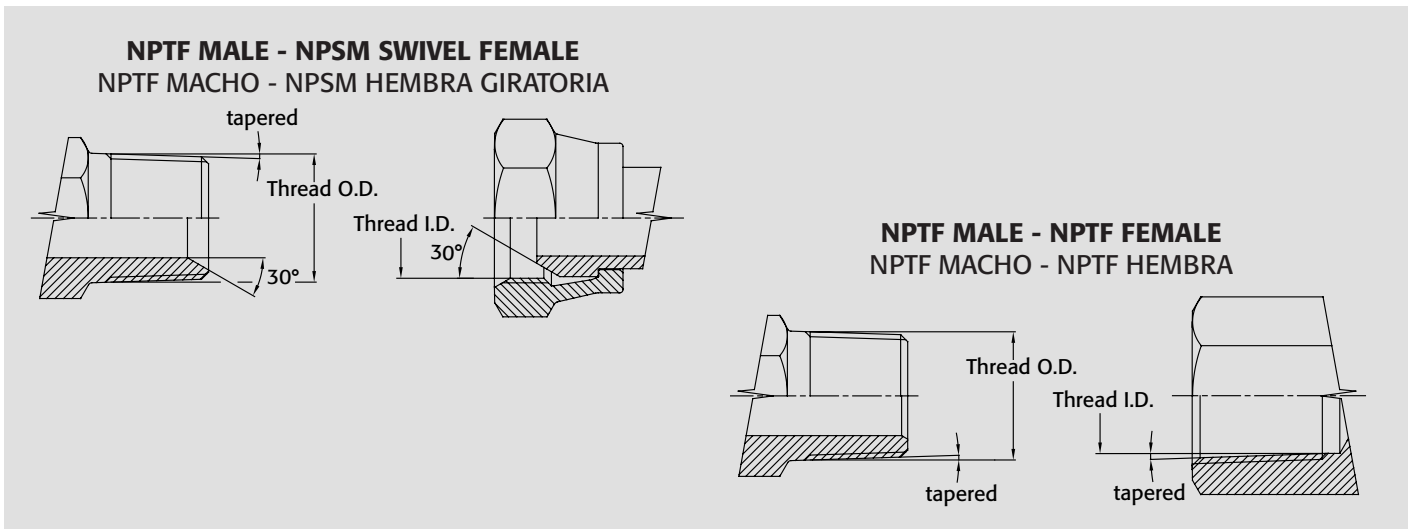
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code **.SS**

ADAPTORS

TERMINATION

American Standard Pipe NPTF Dryseal Taper Thread

SAE J476 - ANSI B1.20.3 NPSM Straight Thread ANSI B1.20.1



American Standard Pipe - NPTF Dryseal Taper Thread SAE J476 - ANSI B1.20.3
NPSM Straight Thread ANSI B1.20.1

NPTF and NPSM threads are American connections having a 60° angle between the flanks.

The NPTF male and female threads are tapered they have controlled truncation to assure metal to metal contact between crest and root and sealing on the thread.

The NPTF male machined with a 30° flare seat mates also with NPSM female (parallel thread). In this case the sealing is ensured on the metal to metal contact between the cones.

WARNING: Torque values need to be reduced by 50% in the NPTF/NPSM connections and by 25-30% if sealant is present.

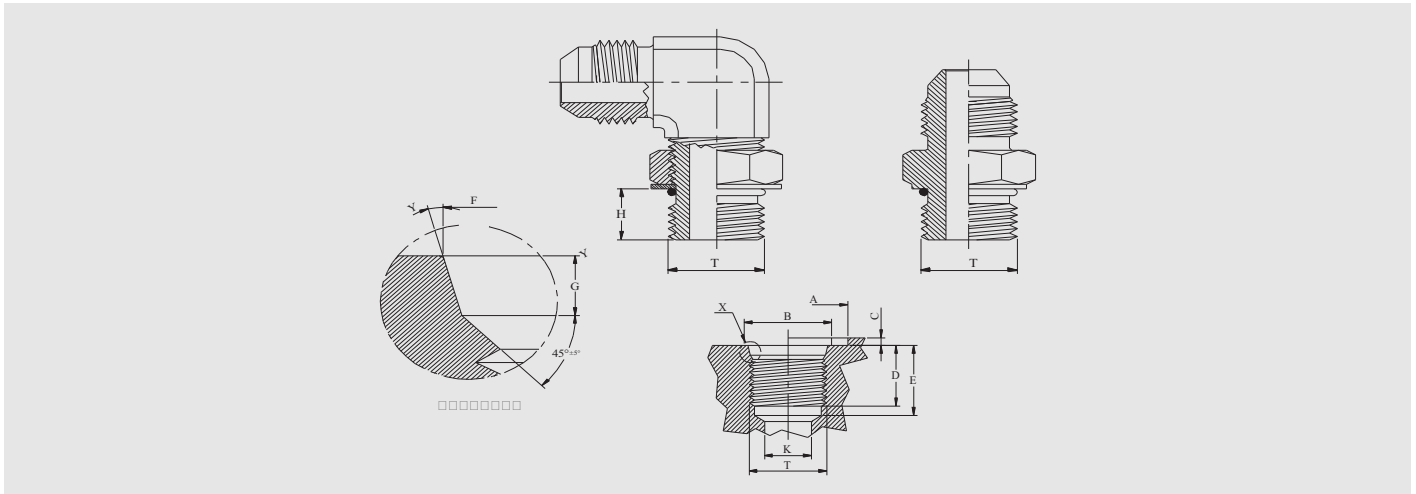
INCH SIZE	DASH	NOMINAL THREAD SIZE	MALE THREAD O.D.		FEMALE THREAD I.D.		WORKING PRESSURE		SUGGESTED TORQUE VALUES (NM)
			mm	inch	mm	inch	bar	psi	
1/8"	-02	1/8"-27	10,4	0,41	9,2	0,36	345	5000	20
1/4"	-04	1/4"-18	14,0	0,55	12,2	0,48	350	5070	30
3/8"	-06	3/8"-18	17,3	0,68	15,5	0,61	280	4060	40
1/2"	-08	1/2"-14	21,6	0,85	19,2	0,76	245	3550	55
3/4"	-12	3/4"-14	26,9	1,06	24,6	0,97	210	3040	70
1"	-16	1"-11,5	33,8	1,33	30,7	1,21	175	2530	90
1.1/4"	-20	1.1/4"-11,5	42,4	1,67	39,4	1,55	145	2100	100
1.1/2"	-24	1.1/2"-11,5	48,5	1,91	45,5	1,79	145	2100	120

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code **.SS**

ADAPTORS

PORT DIMENSIONS

UNF-UN Thread Port Dimensions (SAE J475 - J1926)



Thread Dimensions	7/16"-20	1/2"-20	9/16"-18	3/4"-16	7/8"-14	1.1/16"-12	1.3/16"-12	1.5/16"-12	1.5/8"-12	1.7/8"-12
T Nom.	11,11	12,7	14,29	19,05	22,23	26,99	30,16	33,34	41,27	47,62
C Max.	1,5	1,5	1,5	2,4	2,4	2,4	2,4	3	3	3
D Min.	12	12	13	15	17	20	20	20	20	20
E Min.	14	14	16	18	20	24	24	24	24	24
K Min.	5	6	7,5	10	12,5	16	18	21	27	33
A Min.	21	23	25	30	34	41	45	49	58	65
B Min.	15	16	18	22	26	32	35	38	48	54
F ± 0,05	12,45	14,05	15,70	20,65	24	29,20	32,40	35,55	43,55	49,90
G ± 0,2	2,5	2,6	2,7	2,7	2,7	3,5	3,5	3,5	3,5	3,5
Y ± 1°	12°	12°	12°	15°	15°	15°	15°	15°	15°	15°
H Ref.	9,5	9,5	10,5	12	13,5	15,5	15,5	15,5	15,5	15,5
O-ring	8,92x1,83	10,52x1,83	11,9x1,98	16,36x2,21	19,18x2,46	23,47x2,95	26,59x2,95	29,74x2,95	37,47x3,00	43,7x3,00
Assembly torque (Nm)	21	26	37	74	105	180	225	285	305	390

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

TECHNICAL NOTES

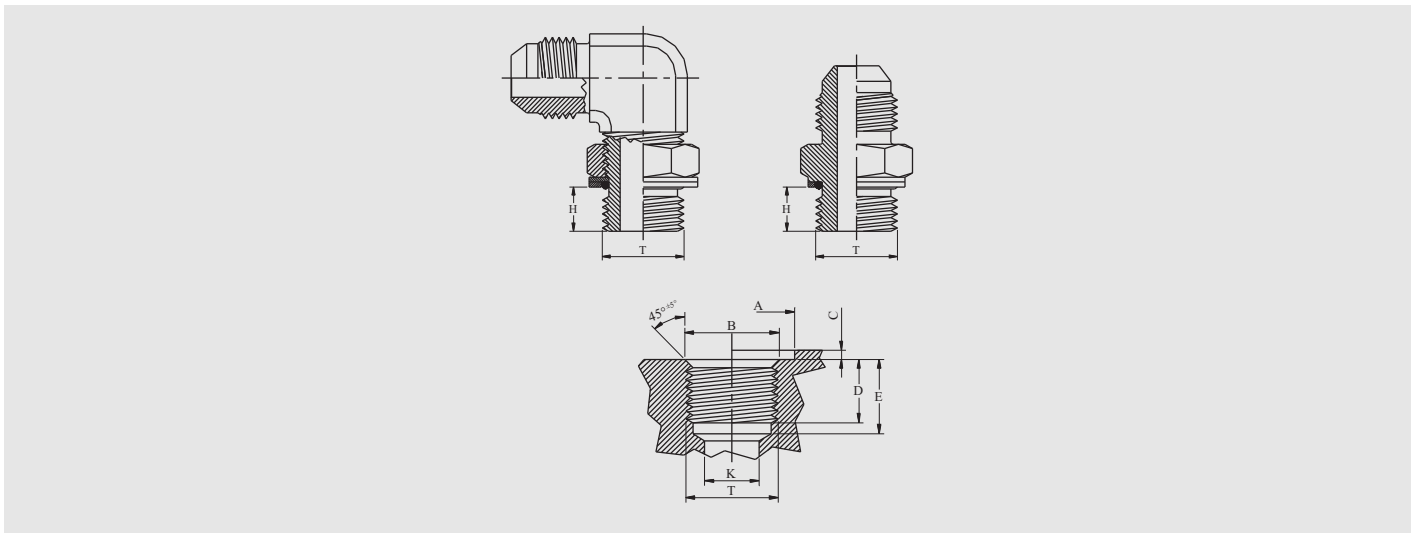
Sealing with O-ring.

- If face of port is on machined surface, dimensions A and C need not apply as long as the surface requirements (Ra min 3,2) are able to avoid damage to the OR during installation.
- C is maximum recommended spotface depth to permit sufficient wrench grip for proper tightening of the fitting or locknut.
- Spot faced surface (dimension B) must be squared (0,2 mm) to thread in port.
- F diameter must be concentric (0,1mm) to thread in port.
- Surface on length G needs Ra 3,2 min in order to avoid damage on OR during installation.

ADAPTORS

PORT DIMENSIONS

BSPB Thread Port Dimensions (retaining RING seat type) (ISO 1179-3)



Thread Dimensions	1/8"-28	1/4"-19	3/8"-19	1/2"-14	3/4"-14	1"-11	1.1/4"-11	1.1/2"-11
T Nom.	9,73	13,16	16,66	20,96	26,44	33,25	41,91	47,80
C Max.	1	1,5	2	2,5	2,5	2,5	2,5	2,5
D Min.	8	12	12	14	16	18	20	22
E Min.	13	18,5	18,5	22	24	27	29	31
A Min.	17	21	24,5	30	37	46	54	61
B +0.2/-0	9,8	13,2	16,7	21	27,1	33,3	42	47,9
H Ref.	6,5	9	9,5	11,5	13,5	15	16	16
O-ring	7,97x1,88	10,80x2,62	13,95x2,62	17,86x2,62	23,47x2,62	29,70x3,53	37,70x3,53	44x3,53
Assembly torque (Nm)	20	35	70	100	190	300	330	400

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

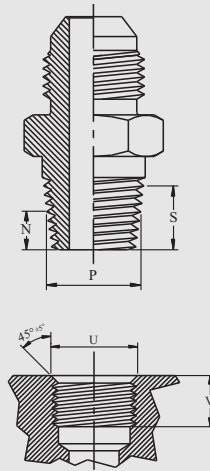
TECHNICAL NOTES

Sealing with O-ring and retaining washer.

- If face of port is on machined surface, dimensions A and C need not apply as long as the surface requirements (Ra min 3,2) are able to avoid damage to the OR during installation.
- C is maximum recommended spotface depth to permit sufficient wrench grip for proper tightening of the fitting or locknut.
- Spot faced surface (dimension B) must be squared (0,2 mm) to thread in port.
- F diameter must be concentric (0,1 mm) to thread in port.

ADAPTORS

PORT DIMENSIONS BSPT Thread Port Dimensions (ISO 7-Thread)



THREAD DIMENSIONS	1/8"-28	1/4"-19	3/8"-19	1/2"-14	3/4"-14	1"-11	1.1/4"-11	1.1/2"-11
T Nom.	9,73	13,16	16,66	20,96	26,44	33,25	41,91	47,80
C Max.	1	1,5	2	2,5	2,5	2,5	2,5	2,5
D Min.	8	12	12	14	16	18	20	22
E Min.	3	18,5	18,5	22	24	27	29	31
A Min.	17	21	24,5	30	37	46	54	61
B +0.2/-0	9,8	13,2	16,7	21	27,1	33,3	42	47,9
H Ref.	6,5	9	9,5	11,5	13,5	15	16	16
O-ring	7,97x1,88	10,80x2,62	13,95x2,62	17,86x2,62	23,47x2,62	29,70x3,53	37,70x3,53	44x3,53
Assembly torque (Nm)	20	35	70	100	190	300	330	400

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

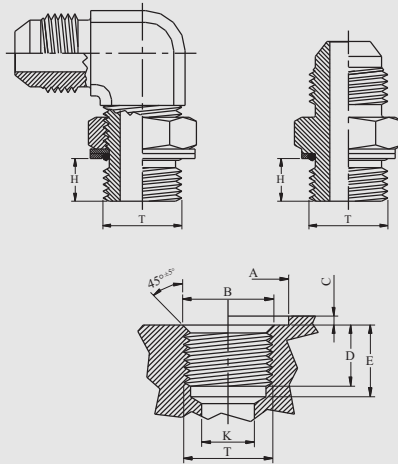
TECHNICAL NOTES

Sealing achieved by matching female parallel thread (port) and male tapered (fitting).

ADAPTORS

PORT DIMENSIONS

Metric Thread Port Dimensions (retaining RING seat type) (ISO 6149)



Thread Dimensions	10x1	12x1.5	14x1.5	16x1.5	18x1.5	20x1.5	22x1.5	26x1.5	27x2	33x2	42x2	48x2
T Nom.	10	12	14	16	18	20	22	26	27	33	42	48
C Max.	1	1,5	1,5	1,5	2	2	2,5	2,5	2,5	2,5	2,5	2,5
D Min.	8	12	12	12	12	14	14	16	16	18	20	22
E Min.	13,5	18,5	18,5	18,5	18,5	20,5	20,5	22,5	24	26	28	30
A Min.	16	20	21,5	24	27	30	32	36	37	45	55	62
B	10	12	14	16	18	20	22	26	27	33	42	48
H Ref.	8	9	9	10,5	12	12	12,5	12,5	14,5	14,5	15	17,5
O-ring	8,1x1,6	9,3x2,2	11,3x2,2	13,3x2,2	15,3x2,2	17,3x2,2	19,3x2,2	23,6x2,9	23,6x2,9	29,6x2,9	38,6x2,9	44,6x2,9
Assembly torque (Nm)	20	35	45	55	70	80	100	170	170	310	330	410

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

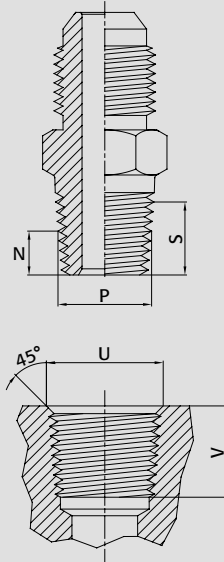
TECHNICAL NOTES

Sealing with O-ring and retaining washer.

- If face of port is on machined surface. dimensions A and C need not apply as long as the surface requirements (Ra min 3,2) are able to avoid damage to the OR during installation.
- C is maximum recommended spotface depth to permit sufficient wrench grip for proper tightening of the fitting or locknut.
- Spot faced surface (dimension B) must be squared (0,2 mm) to thread in port.
- F diameter must be concentric (0,1 mm) to thread in port.

ADAPTORS

PORT DIMENSIONS NPTF Thread Port Dimensions (SAE J476)



Thread Dimensions	1/8"-27	1/4"-18	3/8"-18	1/2"-14	3/4"-14	1"-11.5	1.1/4"-11.5	1.1/2"-11.5
V Min.	7,9	11,4	11,7	15,4	15,9	19,0	19,5	19,5
U ref.	10,2	13,5	17	21,2	26,5	33,1	41,9	48
N	4,1	5,8	6,1	8,1	8,6	10,2	10,7	10,7
P	9,5	12,5	15,9	19,8	25,1	31,5	40,2	46,3
S - Working Thread	7,6	11,6	11,8	15,4	15,7	19,6	20,2	20,6

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

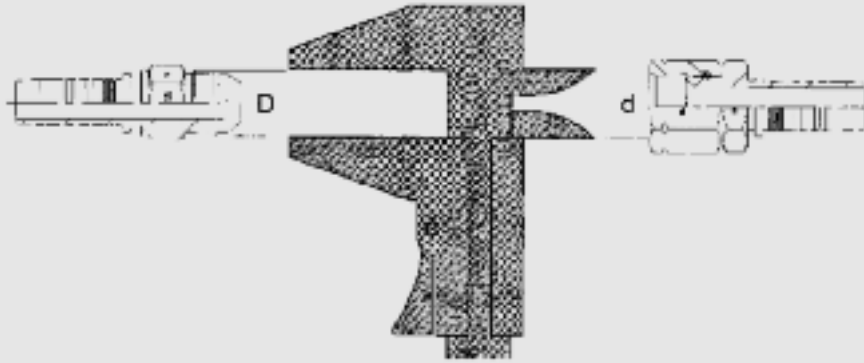
TECHNICAL NOTES

Sealing achieved by matching female tapered thread and male tapered thread (deformation at the crest).

ADAPTORS

END-THREAD MEASUREMENT




To identify thread size termination end, measure the exterior male thread diameter O.D. or the internal female thread diameter I.D., and then, looking to the column mm, you will get the correspondent thread size.



MALE O.D.	mm	FEMALE I.D.	MALE O.D.	mm	FEMALE I.D.	MALE O.D.	mm	FEMALE I.D.
	8,5	3/8"-24 UNF		19,2	1/2"-14 NPSM	1"-11 GAS	33,2	
	8,7	1/8"-28 GAS	M20x1,5	20,0		1.5/16"-12 UN	33,3	
	9,2	1/8"-27 NPSM		20,3	7/8"-14 UNF	1"-11,5 NPTF	33,8	
3/8"-24 UNF	9,4		13/16"-16 UN	20,5	M22x1,5		34,0	M36x2
1/8"-28 GAS	9,6		1/2"-14 GAS	20,8		M36x2	36,0	
M10x1	10,0	7/16"-20 UNF		21,1	5/8"-14 GAS		39,1	1.5/8"-12 UN
1/8"-27 NPTF	10,4		1/2"-14 NPTF	21,6			39,4	1.1/4"-11,5 NPSM
	10,5	M12x1,5	M22x1,5	22,0			39,5	1.1/4"-11 GAS
7/16"-20 UNF	11,0		7/8"-14 UNF	22,2			40,0	M42x2
	11,4	1/2"-20 UNF		22,5	M24x1,5			
	11,6	1/4"-19 GAS	5/8"-14 GAS	22,8		1.5/8"-12 UN	41,1	
M12x1,5	12,0			23,8	1"-14 UNS	1.1/4"-11 GAS	41,7	
	12,2	1/4"-18 NPSM	M24x1,5	24,0		M42x2	42,0	
1/2"-20 UNF	12,5	M14x1,5		24,5	M26x1,5	1.1/4"-11,5 NPTF	42,4	
1/4"-19 GAS	13,0	9/16"-18 UNF		24,6	3/4"-14 GAS-NPSM	M45x2	43,0	M45x2
1/4"-18 NPTF	13,9			24,9	1.1/16"-12 UN		43,0	
M14x1,5	14,0			25,0	M27x2		45,2	1.1/2"-11 GAS
9/16"-18 UNF	14,2		1"-14 UNS	25,3			45,5	1.1/2"-11,5 NPSM
	14,5	M16x1,5	M26x1,5	26,0			45,7	1.7/8"-12 UN
	14,6	5/8"-18 UNF	3/4"-14 GAS	26,3			46,0	M48x2
	15,1	3/8"-19 GAS	1.1/16"-12 UN	26,7		1.7/8"-12 UN	47,5	
	15,5	3/8"-18 NPSM	3/4"-14 NPTF	26,9		1.1/2"-11 GAS	47,7	
5/8"-18 UNF	15,7		M27x2	27,0		M48x2	48,0	
M16x1,5	16,0	11/16"-16 UN		27,9	1.3/16"-12 UN	1.1/2"-11,5 NPTF	48,5	
	16,5	M18x1,5		28,0	M30x2		48,8	2"-12 UN
3/8"-19 GAS	16,6			30,0			50,0	M52x2
3/8"-18 NPTF	17,3		M30x2	30,1		2"-12 UN	50,7	
11/16"-16 UN	17,4	3/4"-16 UNF	1.3/16"-12 UN	30,7		M52x2	52,0	
M18x1,5	18,0			30,9	1"-11,5 NPSM		57,0	2"-11 GAS
	18,5	M20x1,5		31,0	1"-11 GAS		59,4	
	18,8	1/2"-14 GAS		31,2	M33x2		60,6	
3/4"-16 UNF	19,0	13/16"-16 UN	M33x2	33,0	1.5/16"-12 UN		61,2	2.1/2"-12 UN
							63,3	
						2.1/2"-12 UN		

ADAPTORS

COUPLING CHART FOR MANULI FITTINGS & ADAPTORS

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

The MANULI® fittings part numbers, shown in the above chart, correspond to each adaptors type.

ADAPTORS

PART NUMBERING SYSTEM



Root

DIGIT "0"

A Adaptors



DIGIT "1"

The numbers stated in this position refer to the ends number

- 4 One End / Accessories
- 5 Two Ends
- 7 Three Ends
- 9 Four Ends



DIGIT "2"

The numbers stated in this position refer to the gender and geometry of the ends

One End / Accessoires

- 0 Male plug
- 1 Female plug
- 2 Sleeve
- 3 Nut

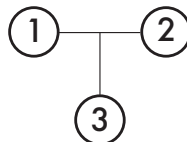


Two Ends

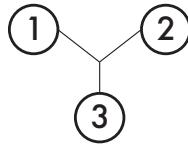
	1st end	2nd end	geometry
0	male	male	straight
1	female	female	straight
2	male	female	straight
3	male	male	45° elbow
4	female	female	45° elbow
5	male	female	45° elbow
6	male	male	90° elbow
7	female	female	90° elbow
8	male	female	90° elbow

Three ends

	1st end	2nd end	3rd end
0	male	male	male
1	male	male	female
2	male	female	male
3	female	female	female
4	female	female	male
5	female	male	female
6	male 1	male 2	male 1
7	female 1	female 2	female 1
8	male 1	male 1	male 2
9	female 1	female 1	female 2

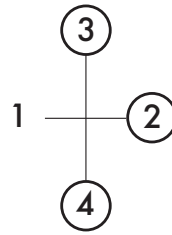


	1st end	2nd end	3rd end
Y	female	female	female



Four ends

	1st end	2nd end	3rd end	4rd end
0	male	male	male	male
1	male 1	male 1	male 1	male 2
2	male 1	male 2	male 1	male 2
3	male	male	male	female
4	male	female	male	female
5	male	female	female	female
6	female	female	female	female
7	female 1	female 1	female 1	female 2
8	female 1	female 2	female 1	female 2
9	male	male	female	female



DIGIT "3"- "4"



The numbers stated in these positions indicate the first end (see table "Termination Ends Type").

When male and female ends are present, the male is always the first end.

When all the ends are male or female, one end takes priority respect to the other one following the tables "Priority of the Ends".

DIGIT "5"- "6"



The numbers stated in these positions indicate the second end (see table "Termination Ends Type").

DIGIT "7"- "8" AND "9"- "10"



When the ends are part of the same family, the first size is the smallest.

The size sequence is the same of the ends sequence (the first size indicates the first end, the second size indicates the second end).

Special adaptors (3-ways adaptors)

When two ends are part of the same family, the family is indicated only one time.

ADAPTORS

TERMINATION ENDS TYPE NUMBERING

Digit	MF2000	MF4000	Q.Safe	Refri	Description (male end)	Description (female end)
00	00			00	Double connector / No end (plug)	No end (plug)
02		02			BSP Male Tapered Thread Long	BSP Female Tapered
03	03	03			BSP Male Parallel Thread O'R Flat Face (ISO 1179-3)	BSP Banjo
04		04	04		BSP Male Bulkhead BSP Fixed Female DIN 3852-2 "form X" / ISO 1179-1	
05	05	05	05		BSP Male 60° cone seat BS5200 / ISO 8434-6	BSP Female 60° cone BS5200 / ISO 8434-6
06	06	06			BSP Male Flat Face	BSP Female Flat seat
07	07	07			BSPT Male	JIS B 8363 (Nissan) Swivel Female
08	08					BSP O-Ring Female 60° cone BS5200 / ISO 8434-6
09	09	09			BSP Male O'Ring Boss Adjustable ISO 1179-3	Metric Banjo DIN 7642
10	10				Metric male 60° cone superlight DIN 3863	Metric female 60° cone superlight DIN 3863
11	11		11	11	Metric male 24° cone seat light type DIN 3861 / ISO 8434-1	
12	12		12		Metric male 24° cone seat heavy type DIN 3861 / ISO 8434-1	Metric Female 24° cone O'Ring heavy type DIN 3865 / ISO 8434-2 Long Drop
13	13					Metric Female Multiseal cone DIN 3868
14			14		Metric Male DIN 3852-11 "form E" b/ ISO 9974-2	Metric Fixed Female DIN 3852-1 "form X" and "form Y"
15	15			15		Metric Female 24° cone O'Ring light type DIN 3865 / ISO 8434-1
16	16					Metric Female 24° cone O'Ring heavy type DIN 3865 / ISO 8434-2
17	17				French Millimetric metric male 24° cone seat	French Millimetric metric female
18	18				French GAZ metric male 24° cone seat	French GAZ metric female
19		19	19		Metric Male (Adjustable + Non-Adjustable Heavy) ISO 6149-2	Metric Fixed Female ISO 6149-1
20	20					DIN Metric Standpipe L.T. DIN 2353
21	21				DIN Metric Standpipe H.T. DIN 2353	
22		22			JIC male Long 37° cone SAE J514	
23		23	23		JIC Bulkhead male 37° cone ISO 8434-2 / SAE J514	
24	24	24	24	24	ORFS male ISO 8434-3 / SAE J1453	ORFS female ISO 8434-3 / SAE J1453
25	25	25	25	25	JIC male (37° cone) ISO 8434-2 / SAE J514	JIC female (37° cone seat) ISO 8434-2 / SAE J514
26	26			26		SAE female (45° cone seat) SAE J512
27	27	27			ORFS Bulkhead male ISO 8434-3 / SAE J1453	JIC female double hexagon 37° cone seat
28	28	28	28		NPTF Male 60° cone seat SAE J476a	NPSM Swivel Female 60° cone SAE J514
29		29			ORFS male type Long SAE J1453	
30	30	30	30		Male O'Ring Boss type SAE J1926-3	Female Port SAE J1926-1
31		31			Male O'Ring Boss Adjustable Light SAE J1926-3	
33	33				Flange ISO/SAE 61 (ISO 6162-1 / SAE J518 code 61)	
34	34	34	34		API Male	NPTF Fixed Female SAE J476a
35	35				NPT Male	NPT Fixed Female
36	36					Flange ISO/SAE 62 (ISO 6162-2 / SAE J518 code 62)
37	37		37	37	Metric male 60° cone superlight DIN 3863 Bulkhead	Flange ISO/SAE 62 Plus / Flange (A/C)
38	38					JIS B 8363 (Toyota) Swivel Female
39	39					SUPERCAT flange
40	40					JIS B 8363 (Komatsu) Swivel Female

ADAPTORS

TERMINATION ENDS TYPE NUMBERING

Digit	MF2000	MF4000	Q.Safe	Refri	Description (male end)	Description (female end)
40	40					JIS B 8363 (Komatsu) Swivel Female
41	41				NPTF Swivel Male SAE J476a	Komatsu Flange
43	43				SAE O'Ring Boss Swivel Male	
44	44	44			Male BSPP Flat Face Bonded Washer	ORFS Female Long Drop Elbow ISO 12151-1 / SAE J516
46	46	46			Super Staple Male	Super Staple Fixed Female
47	47				Super Staple Male (only for Interlock Plus)	JIC (37° cone) Female Long Drop Elbow ISO 12151-5 / SAE J516
48	48	48			Staple Male SAE J1467	Staple Fixed Female SAE J1467
49	49					Wash Cleaning
59	59	59			Flushfit Male Low Pressure	Flushfit Fixed Female Low Pressure
61	61				Flushfit Male High Pressure	Flushfit Fixed Female High Pressure
62		62				Flushfit Swivel Female Low Pressure
64		64			BSP Male front seal	Flushfit Swivel Female High Pressure
66	66					Metric Female 24° cone O'Ring heavy type DIN 3865 / ISO 8434-2 (only for Blastlock / Xtralock)
72		72				SuperStaple Lock Swivel Female
76				76		Expansion valve (A/C)
77			77		DIN Bulkhead Male 24° cone Light type ISO 8434-1	
78	78				NPTF Male 60° cone seat SAE J476a (only for Interlock Blastlock/Xtralock)	
79				79	Fixed Male O'Ring seat (A/C)	Female O'Ring (A/C)
80				80	Male Swivel O'Ring (A/C)	
82		82	82		French GAZ Bulkhead metric male 24° cone seat	Staple Lock Swivel Female
85	85					XtraFlange (ISO 6162-2 / SAE J518 code 62 port compatible)
86	86					Flange ISO/SAE 62 (ISO 6162-2 / SAE J518 code 62) - only for Xtralock
87		87			DIN Bulkhead Male 24° cone Heavy type ISO 8434-1	
95	95					Brazing socket

Digit	MF2000	MF4000	Q.Safe	Refri	Easy-Fit
2H	2H				Easy-Fit High Pressure (Cejn)

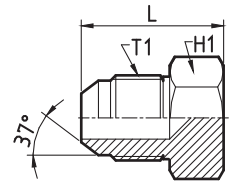
Digit	MF2000	MF4000	Q.Safe	Refri	Accessories for connectors (08...)
33	33				Clamps for flange ISO/SAE 61
36	36				Clamps for flange ISO/SAE 62
85	85				Xtraflange Clamps
02	02				BSP Bolt
03	08				BSP Bolt Double Hole
08	08				Metric Bolt DIN 7643
2H	2H				Cartridge for Easy-Fit High Pressure

ADAPTORS

JIC ADAPTORS

A402500

MALE PLUG JIC (SAE J514)

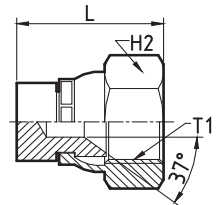


PART. REF.	THREADS	DIMENSIONS mm	
	T ₁ (UNF)	L	H ₁
A402500-04	7/16" - 20	20,0	14
A402500-05	1/2" - 20	21,0	14
A402500-06	9/16" - 18	23,0	16
A402500-08	3/4" - 16	25,0	22
A402500-10	7/8" - 14	29,0	24
A402500-12	1.1/16" - 12	33,0	30
A402500-14	1.3/16" - 12	34,0	32
A402500-16	1.5/16" - 12	36,0	35
A402500-20	1.5/8" - 12	41,0	43
A402500-24	1.7/8" - 12	44,0	50

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A412500

FEMALE PLUG JIC (SAE J514)

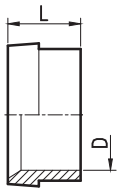


PART. REF.	THREADS	DIMENSIONS mm	
	T ₁ (UNF)	L	H ₂
A412500-04	7/16" - 20	24,0	16
A412500-05	1/2" - 20	25,0	16
A412500-06	9/16" - 18	27,0	19
A412500-08	3/4" - 16	31,0	22
A412500-10	7/8" - 14	32,0	27
A412500-12	1.1/16" - 12	34,0	32
A412500-14	1.3/16" - 12	34,0	35
A412500-16	1.5/16" - 12	39,0	38
A412500-20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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS



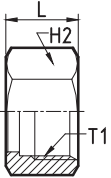
A422500

SLEEVE JIC (SAE J514)

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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A432500

NUT JIC (SAE J514)

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

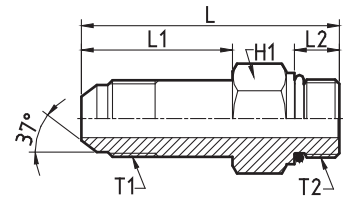
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

A502230

STRAIGHT ADAPTOR LONG JIC MALE 74° CONE
SAE MALE O-RING BOSS TYPE (SAE J1926)

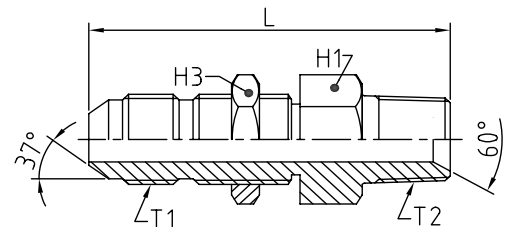


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (UNF)	L	L ₁	L ₂	H ₁
A502230-04-04	7/16" - 20	7/16" - 20	53,0	35,5	9,5	14
A502230-05-05	1/2" - 20	1/2" - 20	54,5	37,0	9,5	16
A502230-06-06	9/16" - 18	9/16" - 18	58,5	39,5	10,0	19
A502230-08-08	3/4" - 16	3/4" - 16	68,5	48,0	11,5	22
A502230-10-10	7/8"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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A502328

STRAIGHT ADAPTOR JIC MALE BULKHEAD 74° CONE
(SAE J514) NPTF MALE 60° CONE SEAT (SAE J514)

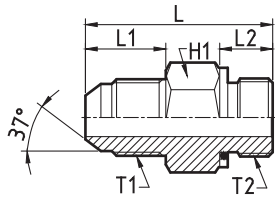


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (NPTF)	L	H ₁	H ₃	
A502328-04-04	7/16"-20	1/4"-18	52,8	17	17	
A502328-06-04	9/16"-18	1/4"-18	55,4	22	22	
A502328-08-06	3/4"-16	3/8"-18	61,7	24	24	
A502328-10-08	7/8"-14	1/2"-14	71,1	30	30	
A502328-12-12	1.1/16"-12	3/4"-14	74,2	36	36	
A502328-16-16	1.5/16"-12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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS



A502503

STRAIGHT ADAPTOR JIC MALE 74° CONE (SAE J514)
BSP MALE O-RING BOSS TYPE (ISO 1179-3)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (BSPP)	L	L ₁	L ₂	H ₁
A502503-04-02	7/16" - 20	1/8" - 28	30,0	15,0	8,5	14
A502503-04-04	7/16" - 20	1/4" - 19	36,0	16,0	12,0	19
A502503-04-06	7/16" - 20	3/8" - 19	36,5	16,0	12,0	22
A502503-04-08	7/16" - 20	1/2" - 14	40,5	16,0	14,0	27
A502503-05-02	1/2" - 20	1/8" - 28	30,0	15,0	8,5	14
A502503-05-04	1/2" - 20	1/4" - 19	36,5	16,0	12,0	19
A502503-05-06	1/2" - 20	3/8" - 19	36,5	16,0	12,0	22
A502503-06-04	9/16" - 18	1/4" - 19	37,0	16,0	12,0	19
A502503-06-06	9/16" - 18	3/8" - 19	37,0	17,0	12,0	22
A502503-06-08	9/16" - 18	1/2" - 14	41,0	17,0	14,0	27
A502503-08-04	3/4" - 16	1/4" - 19	39,0	18,0	12,0	19
A502503-08-06	3/4" - 16	3/8" - 19	39,0	18,0	12,0	22
A502503-08-08	3/4" - 16	1/2" - 14	43,0	19,0	14,0	27
A502503-08-12	3/4" - 16	3/4" - 14	47,0	19,0	16,0	32
A502503-10-06	7/8" - 14	3/8" - 19	42,0	21,0	12,0	22
A502503-10-08	7/8" - 14	1/2" - 14	45,0	21,0	14,0	27
A502503-10-12	7/8" - 14	3/4" - 14	49,0	21,0	16,0	32
A502503-12-08	1.1/16" - 12	1/2" - 14	48,0	24,0	14,0	27
A502503-12-12	1.1/16" - 12	3/4" - 14	52,0	24,0	16,0	32
A502503-12-16	1.1/16" - 12	1" - 11	55,0	24,0	18,0	41
A502503-14-12	1.3/16" - 12	3/4" - 14	54,0	23,0	16,0	32
A502503-16-12	1.5/16" - 12	3/4" - 14	53,0	25,0	16,0	35
A502503-16-16	1.5/16" - 12	1" - 11	55,0	25,0	18,0	41
A502503-16-20	1.5/16" - 12	1.1/4" - 11	60,0	26,0	20,0	50
A502503-20-16	1.5/8" - 12	1" - 11	59,0	28,0	18,0	43
A502503-20-20	1.5/8" - 12	1.1/4" - 11	62,0	28,0	20,0	50
A502503-24-20	1.7/8" - 12	1.1/4" - 11	64,0	30,0	20,0	50
A502503-24-24	1.7/8" - 12	1.1/2" - 11	67,0	30,0	22,0	55

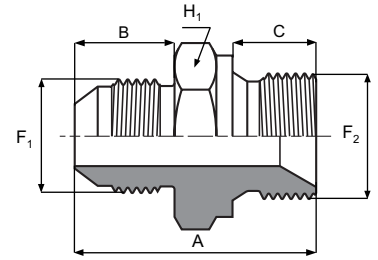
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

A502505

JIC MALE (SAE J514)
BSP MALE 60° CONE SEAT (ISO 228)

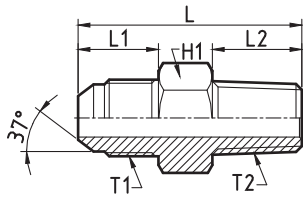


PART. REF.	THREADS		DIMENSIONS mm			
	F ₁ (UNF)	F ₂ (BSP)	A	B	C	H ₁
A502505-04-02	7/16" - 20	1/8" - 28	30,0	14,0	10,0	14
A502505-04-04	7/16" - 20	1/4" - 19	32,0	14,0	12,0	19
A502505-04-06	7/16" - 20	3/8" - 19	34,5	14,0	12,0	22
A502505-05-04	1/2" - 20	1/4" - 19	34,5	14,0	12,0	19
A502505-05-06	1/2" - 20	3/8" - 19	34,5	14,0	12,0	22
A502505-06-06	9/16" - 18	3/8" - 19	35,5	14,0	13,0	22
A502505-06-08	9/16" - 18	1/2" - 14	38,0	14,0	14,0	27
A502505-08-04	3/4" - 16	1/4" - 19	37,5	17,0	12,0	19
A502505-08-06	3/4" - 16	3/8" - 19	38,5	16,5	13,5	22
A502505-08-08	3/4" - 16	1/2" - 14	41,0	17,0	14,0	27
A502505-08-12	3/4" - 16	3/4" - 14	45,0	17,0	16,0	32
A502505-10-06	7/8" - 14	3/8" - 19	40,5	19,5	12,0	22
A502505-10-08	7/8" - 14	1/2" - 14	46,0	19,5	15,5	27
A502505-10-12	7/8" - 14	3/4" - 14	49,0	19,0	18,5	32
A502505-12-08	1.1/16" - 12	1/2" - 14	47,0	22,0	14,0	27
A502505-12-12	1.1/16" - 12	3/4" - 14	50,0	22,0	16,0	32
A502505-12-16	1.1/16" - 12	1" - 11	52,5	22,0	18,0	41
A502505-14-12	1.3/16" - 12	3/4" - 14	50,5	22,5	16,0	32
A502505-16-12	1.5/16" - 12	3/4" - 14	51,0	23,0	16,0	35
A502505-16-16	1.5/16" - 12	1" - 11	53,5	23,0	18,0	41
A502505-16-20	1.5/16" - 12	1.1/4" - 11	61,0	23,0	20,0	50
A502505-20-16	1.5/8" - 12	1" - 11	55,5	24,5	18,0	43
A502505-20-20	1.5/8" - 12	1.1/4" - 11	58,5	24,5	20,0	50
A502505-24-20	1.7/8" - 12	1.1/4" - 11	61,5	27,5	20,0	50
A502505-24-24	1.7/8" - 12	1.1/2" - 11	65,5	27,5	22,0	55

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code **.SS**

ADAPTORS

JIC ADAPTORS



A502507

STRAIGHT ADAPTOR JIC MALE 74° CONE (SAE J514)
BSP MALE TAPERED (ISO 7)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (BSPT)	L	L ₁	L ₂	H ₁
A502507-04-02	7/16" - 20	1/8" - 28	31,0	14,0	11,0	12
A502507-04-04	7/16" - 20	1/4" - 19	34,0	14,0	14,0	14
A502507-04-06	7/16" - 20	3/8" - 19	40,0	16,0	16,0	19
A502507-05-02	1/2" - 20	1/8" - 28	32,0	15,0	11,0	14
A502507-05-04	1/2" - 20	1/4" - 19	36,0	15,0	14,0	14
A502507-05-06	1/2" - 20	3/8" - 19	40,0	16,0	16,0	19
A502507-05-08	1/2" - 20	1/2" - 14	44,0	16,0	18,0	22
A502507-06-02	9/16" - 18	1/8" - 28	33,0	16,0	11,0	14
A502507-06-04	9/16" - 18	1/4" - 19	36,0	16,0	14,0	14
A502507-06-06	9/16" - 18	3/8" - 19	40,0	16,0	16,0	19
A502507-06-08	9/16" - 18	1/2" - 14	44,0	17,0	18,0	22
A502507-08-04	3/4" - 16	1/4" - 19	40,0	18,0	14,0	19
A502507-08-06	3/4" - 16	3/8" - 19	41,0	18,0	16,0	19
A502507-08-08	3/4" - 16	1/2" - 14	45,0	18,0	18,0	22
A502507-08-12	3/4" - 16	3/4" - 14	49,0	19,0	20,0	27
A502507-10-06	7/8" - 14	3/8" - 19	42,5	20,0	16,0	22
A502507-10-08	7/8" - 14	1/2" - 14	46,0	20,0	18,0	22
A502507-10-12	7/8" - 14	3/4" - 14	50,0	20,0	20,0	27
A502507-12-08	1.1/16" - 12	1/2" - 14	51,0	24,0	18,0	27
A502507-12-12	1.1/16" - 12	3/4" - 14	53,0	24,0	20,0	27
A502507-12-16	1.1/16" - 12	1" - 11	59,0	24,0	23,0	35
A502507-16-12	1.5/16" - 12	3/4" - 14	57,0	25,0	20,0	35
A502507-16-16	1.5/16" - 12	1" - 11	60,0	25,0	23,0	35
A502507-16-20	1.5/16" - 12	1.1/4" - 11	65,0	25,0	26,0	44
A502507-20-16	1.5/8" - 12	1" - 11	65,0	28,0	23,0	44
A502507-20-20	1.5/8" - 12	1.1/4" - 11	65,0	28,0	25,0	44
A502507-20-24	1.5/8" - 12	1.1/2" - 11	71,0	28,0	29,0	50
A502507-24-20	1.7/8" - 12	1.1/4" - 11	71,0	30,0	26,0	50
A502507-24-24	1.7/8" - 12	1.1/2" - 11	71,0	30,0	29,0	50
A502507-24-32	1.7/8" - 12	2" - 11	81,0	30,0	33,5	65
A502507-32-24	2.1/2" - 12	1.1/2" - 11	81,0	35,5	29,0	65
A502507-32-32	2.1/2" - 12	2" - 11	86,0	35,5	33,5	65

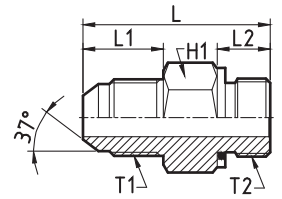
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

A502519

STRAIGHT ADAPTOR JIC MALE (SAE J514)
METRIC MALE (ISO 6149)

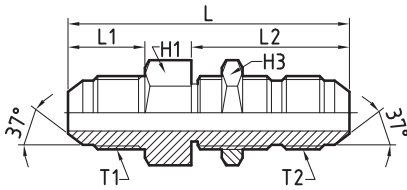


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (METRIC)	L	L ₁	L ₂	H ₁
A502519-04-10	7/16" - 20	10x1	30,0	15,0	9,0	16
A502519-04-12	7/16" - 20	12x1.5	34,0	15,0	11,0	19
A502519-05-10	1/2" - 20	10x1	30,0	15,0	9,0	16
A502519-05-12	1/2" - 20	12x1.5	35,0	16,0	11,0	19
A502519-05-14	1/2" - 20	14x1.5	35,0	16,0	11,0	19
A502519-05-18	1/2" - 20	18x1.5	38,0	16,0	14,0	22
A502519-06-12	9/16" - 18	12x1.5	35,0	16,0	11,0	19
A502519-06-14	9/16" - 18	14x1.5	35,0	16,0	11,0	19
A502519-06-16	9/16" - 18	16x1.5	37,5	17,0	12,5	22
A502519-06-18	9/16" - 18	18x1.5	39,0	17,0	14,0	22
A502519-06-22	9/16" - 18	22x1.5	42,0	17,0	15,0	27
A502519-08-16	3/4" - 16	16x1.5	39,0	19,0	12,5	22
A502519-08-18	3/4" - 16	18x1.5	41,0	19,0	14,0	24
A502519-10-18	7/8" - 14	18x1.5	42,0	20,0	14,0	24
A502519-10-22	7/8" - 14	22x1.5	45,0	20,0	15,0	27
A502519-12-22	1.1/16" - 12	22x1.5	49,0	24,0	15,0	27
A502519-12-27	1.1/16" - 12	27x2	54,0	24,0	18,5	32
A502519-16-27	1.5/16" - 12	27x2	55,0	25,0	18,5	35
A502519-16-33	1.5/16" - 12	33x2	56,0	25,0	18,5	41
A502519-20-42	1.5/8" - 12	42x2	62,0	28,0	19,0	50
A502519-24-48	1.7/8" - 12	48x2	67,0	30,0	22,0	55

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .S5

ADAPTORS

JIC ADAPTORS

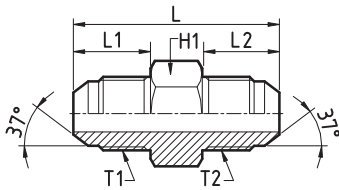


A502523

STRAIGHT BULKHEAD ADAPTOR
JIC MALE 74° CONE (SAE J514)

PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (UNF)	T ₂ (UNF)	L	L ₁	L ₂	H ₁	H ₃
A502523-04-04	7/16" - 20	7/16" - 20	53,0	14,0	31,5	16	16
A502523-05-05	1/2" - 20	1/2" - 20	53,5	15,0	31,0	19	16
A502523-06-06	9/16" - 18	9/16" - 18	56,0	16,0	33,0	19	19
A502523-08-08	3/4" - 16	3/4" - 16	62,0	18,5	36,0	24	24
A502523-10-10	7/8" - 14	7/8" - 14	69,5	19,5	40,0	27	27
A502523-12-12	1.1/16" - 12	1.1/16" - 12	79,0	22,0	45,5	32	32
A502523-16-16	1.5/16" - 12	1.5/16" - 12	80,0	23,0	45,5	38	38
A502523-20-20	1.5/8" - 12	1.5/8" - 12	87,0	26,0	46,5	50	50
A502523-24-24	1.7/8" - 12	1.7/8" - 12	90,0	29,0	47,0	55	55
A502523-32-32	2.1/2" - 12	2.1/2" - 12	106,5	35,0	53,0	70	70

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A502525

STRAIGHT ADAPTOR JIC MALE 74° CONE (SAE J514)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (UNF)	L	L ₁	L ₂	H ₁
A502525-04-04	7/16" - 20	7/16" - 20	34,0	14,0	14,0	12
A502525-05-05	1/2" - 20	1/2" - 20	36,0	15,0	15,0	14
A502525-06-06	9/16" - 18	9/16" - 18	38,0	16,0	16,0	14
A502525-06-08	9/16" - 18	3/4" - 16	43,0	17,0	18,0	19
A502525-08-08	3/4" - 16	3/4" - 16	41,0	17,0	17,0	19
A502525-08-10	3/4" - 16	7/8" - 14	48,0	19,0	21,0	22
A502525-10-10	7/8" - 14	7/8" - 14	46,0	18,5	18,5	22
A502525-10-12	7/8" - 14	1.1/16" - 12	56,0	22,0	24,0	27
A502525-12-12	1.1/16" - 12	1.1/16" - 12	52,0	21,0	21,0	27
A502525-16-16	1.5/16" - 12	1.5/16" - 12	60,0	25,0	25,0	35
A502525-20-20	1.5/8" - 12	1.5/8" - 12	65,0	26,5	26,5	44
A502525-24-24	1.7/8" - 12	1.7/8" - 12	71,0	29,0	29,0	50
A502525-32-32	2.1/2" - 12	2.1/2" - 12	86,0	35,0	35,0	65

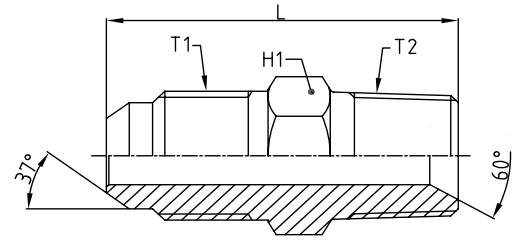
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

A502528

STRAIGHT ADAPTOR JIC MALE 74° CONE (SAE J514)
NPTF MALE 60° CONE SEAT (SAE J514)

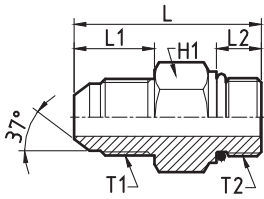


PART. REF.	THREADS		DIMENSIONS mm				
	T1 (UNF)	T2 (NPTF)	L	H1			
A502528-04-02	7/16"-20	1/8"-27	31,0	13			
A502528-04-04	7/16"-20	1/4"-18	36,0	14			
A502528-05-04	1/2"-20	1/4"-18	36,0	14			
A502528-06-04	9/16"-18	1/4"-18	36,3	16			
A502528-06-06	9/16"-18	3/8"-18	36,3	19			
A502528-06-08	9/16"-18	1/2"-14	42,9	22			
A502528-08-06	3/4"-16	3/8"-18	38,9	19			
A502528-08-08	3/4"-16	1/2"-14	45,5	22			
A502528-10-08	7/8"-14	1/2"-14	48,0	24			
A502528-10-12	7/8"-14	3/4"-14	49,5	27			
A502528-12-08	1.1/16"-12	1/2"-14	52,3	27			
A502528-12-12	1.1/16"-12	3/4"-14	52,3	27			
A502528-12-16	1.1/16"-12	1"-11,5	57,2	35			
A502528-16-12	1.5/16"-12	3/4"-14	53,6	35			
A502528-16-16	1.5/16"-12	1"-11,5	58,4	35			
A502528-16-20	1.5/16"-12	1.1/4"-11,5	61,0	44			
A502528-20-20	1.5/8"-12	1.1/4"-11,5	62,2	44			
A502528-24-24	1.7/8"-12	1.1/2"-11,5	68,0	50			

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS



A502530

STRAIGHT ADAPTOR JIC MALE 74° CONE (SAE J514)

SAE MALE O-RING BOSS TYPE (SAE J1926)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (UNF)	L	L ₁	L ₂	H ₁
A502530-04-04	7/16" - 20	7/16" - 20	31,0	15,0	9,5	14
A502530-04-05	7/16" - 20	1/2" - 20	31,0	15,0	9,5	16
A502530-04-06	7/16" - 20	9/16" - 18	34,0	16,0	10,0	19
A502530-05-04	1/2" - 20	7/16" - 20	32,0	16,0	9,5	14
A502530-05-05	1/2" - 20	1/2" - 20	32,0	16,0	9,5	16
A502530-05-06	1/2" - 20	9/16" - 18	34,0	16,0	10,0	19
A502530-06-04	9/16" - 18	7/16" - 20	32,0	16,0	9,5	14
A502530-06-05	9/16" - 18	1/2" - 20	32,0	16,0	9,5	16
A502530-06-06	9/16" - 18	9/16" - 18	35,0	16,0	10,0	19
A502530-06-08	9/16" - 18	3/4" - 16	36,5	17,0	11,5	22
A502530-06-12	9/16" - 18	1.1/16" - 12	45,0	17,0	15,5	32
A502530-08-06	3/4" - 16	9/16" - 18	37,0	18,0	10,0	19
A502530-08-08	3/4" - 16	3/4" - 16	37,5	18,0	11,5	22
A502530-08-10	3/4" - 16	7/8" - 14	41,5	18,0	13,0	27
A502530-08-12	3/4" - 16	1.1/16" - 12	47,0	19,5	15,5	32
A502530-10-08	7/8" - 14	3/4" - 16	41,5	20,0	11,5	22
A502530-10-10	7/8" - 14	7/8" - 14	43,0	20,0	13,0	27
A502530-10-12	7/8" - 14	1.1/16" - 12	48,0	21,0	15,5	32
A502530-12-08	1.1/16" - 12	3/4" - 16	45,0	24,0	11,5	27
A502530-12-10	1.1/16" - 12	7/8" - 14	47,0	24,0	13,0	27
A502530-12-12	1.1/16" - 12	1.1/16" - 12	51,0	24,0	15,5	32
A502530-12-16	1.1/16" - 12	1.5/16" - 12	52,0	24,0	15,5	38
A502530-16-12	1.5/16" - 12	1.1/16" - 12	53,0	25,0	15,5	35
A502530-16-16	1.5/16" - 12	1.5/16" - 12	54,0	25,0	15,5	38
A502530-16-20	1.5/16" - 12	1.5/8" - 12	56,0	25,0	15,5	50
A502530-20-20	1.5/8" - 12	1.5/8" - 12	58,5	28,0	15,5	50
A502530-24-24	1.7/8" - 12	1.7/8" - 12	60,0	29,0	15,5	55
A502530-32-32	2.1/2" - 12	2.1/2" - 12	70,5	35,0	15,5	70

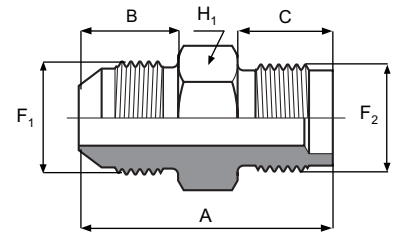
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

A502554

JIC MALE (SAE J514) - AGRICULTURAL PORT

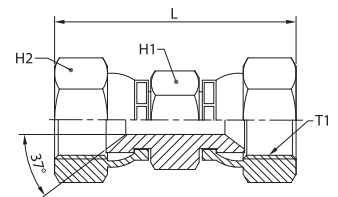


PART. REF.	THREADS		DIMENSIONS mm			
	F ₁ (UNF)	F ₂ (METR)	A	B	H ₁	
A502554-05-18	1/2" - 20	M18x1,5	38,0	14,0	19	
A502554-06-18	9/16" - 19	M18x1,5	38,0	14,0	19	
A502554-08-18	3/4" - 16	M18x1,5	41,0	17,0	19	

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A512525

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

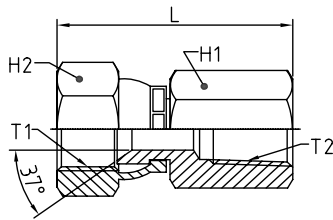


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (UNF)	L	H ₁	H ₂	
A512525-08-08	3/4" - 16	3/4" - 16	51,0	22	22	
A512525-10-10	7/8" - 14	7/8" - 14	57,0	27	27	
A512525-12-12	1.1/16" - 12	1.1/16" - 12	62,0	32	32	

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS



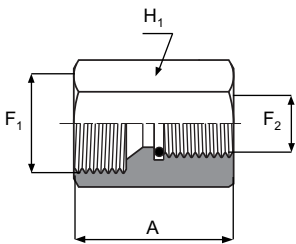
A512534

STRAIGHT ADAPTOR JIC FEMALE 74° CONE SEAT
(SAE J514) NPTF FIXED FEMALE (SAE J514)

PART. REF.	THREADS	DIMENSIONS mm	
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	T1 (UNF)	T2 (NPTF)	L	H1	H2		
A512534-06-06	9/16"-18	3/8"-18	42,8	22	19		
A512534-08-06	3/4"-16	3/8"-18	45,3	22	22		
A512534-08-08	3/4"-16	1/2"-14	48,5	27	22		
A512534-10-08	7/8"-14	1/2"-14	50,8	27	27		
A512534-12-12	1.1/16"-12	3/4"-14	58,0	35	32		
A512534-16-16	1.5/16"-12	1"-11,5	66,4	41	38		
A512534-20-20	1.5/8"-12	1.1/4"-11,5	71,8	50	50		

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A512553

JIC FEMALE (SAE J514)
BSP PRESSURE GAUGE PORT

PART. REF.	THREADS	DIMENSIONS mm	
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	F1 (UNF)	F2 (BSP)	A	H1		
A512553-04-04	7/16" - 20	1/4" - 19	28,5	19		
A512553-05-04	1/2" - 20	1/4" - 19	28,5	19		
A512553-06-04	9/16" - 18	1/4" - 19	30,0	24		
A512553-08-04	3/4" - 16	1/4" - 19	32,0	27		
A512553-10-04	7/8" - 14	1/4" - 19	17,0	35		
A512553-12-04	1.1/16" - 12	1/4" - 19	18,0	36		
A512553-16-04	1.5/16" - 12	1/4" - 19	20,0	41		
A512553-20-04	1.5/8" - 12	1/4" - 19	20,0	52		
A512553-24-04	1.7/8" - 12	1/4" - 19	24,0	60		

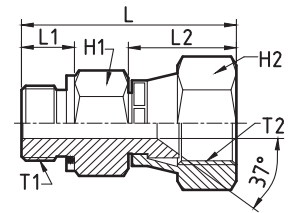
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

A520325

STRAIGHT ADAPTOR JIC FEMALE 74° CONE SEAT (SAE J514)
BSP MALE O-RING BOSS TYPE (ISO 1179-3)

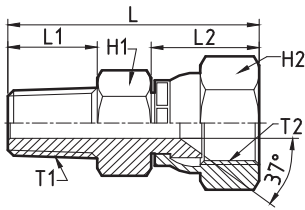


PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (BSPP)	T ₂ (UNF)	L	L ₁	L ₂	H ₁	H ₂
A520325-02-04	1/8" - 28	7/16" - 20	32,0	8,5	17,0	14	16
A520325-02-05	1/8" - 28	1/2" - 20	33,0	8,5	18,0	14	16
A520325-04-04	1/4" - 19	7/16" - 20	37,0	12,0	17,0	19	16
A520325-04-05	1/4" - 19	1/2" - 20	38,0	12,0	18,0	19	16
A520325-04-06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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS



A520725

STRAIGHT ADAPTOR JIC FEMALE 74°
CONE SEAT (SAE J514) - BSP MALE TAPERED (ISO 7)

PART. REF.	THREADS	DIMENSIONS mm					
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	T ₁ (BSPT)	T ₂ (UNF)	L	L ₁	L ₂	H ₁	H ₂
A520725-02-04	1/8" - 28	7/16" - 20	34,0	11,0	17,0	12	16
A520725-02-05	1/8" - 28	1/2" - 20	35,0	11,0	18,0	14	16
A520725-04-04	1/4" - 19	7/16" - 20	39,7	14,0	17,0	14	16
A520725-04-05	1/4" - 19	1/2" - 20	38,0	14,0	28,0	14	16
A520725-04-06	1/4" - 19	9/16" - 18	39,5	14,0	19,5	14	19
A520725-04-08	1/4" - 19	3/4" - 16	45,5	14,0	23,5	19	22
A520725-06-06	3/8" - 19	9/16" - 18	43,5	16,0	19,5	19	19
A520725-06-08	3/8" - 19	3/4" - 16	47,5	16,0	23,5	19	22
A520725-06-10	3/8" - 19	7/8" 14	49,0	16,0	25,0	22	27
A520725-08-06	1/2" - 14	9/16" - 18	47,0	19,0	19,5	22	19
A520725-08-08	1/2" - 14	3/4" - 16	51,0	19,0	23,5	22	22
A520725-08-10	1/2" - 14	7/8" - 14	53,0	19,0	25,0	22	27
A520725-08-12	1/2" - 14	1.1/16" - 12	57,0	19,0	27,5	27	32
A520725-12-10	3/4" - 14	7/8" - 14	55,0	20,0	25,0	27	27
A520725-12-12	3/4" - 14	1.1/16" - 12	57,5	20,0	27,5	27	32
A520725-12-14	3/4" - 14	1.3/16" - 12	59,0	20,0	27,0	32	35
A520725-12-16	3/4" - 14	1.5/16" - 12	63,0	20,0	31,0	35	38
A520725-16-12	1" - 11	1.1/16" - 12	62,5	23,0	27,5	35	32
A520725-16-16	1" - 11	1.5/16" - 12	64,0	23,0	31,0	35	38
A520725-16-20	1" - 11	1.5/8" - 12	68,0	23,0	32,0	44	50
A520725-20-20	1.1/4" - 11	1.5/8" - 12	71,0	26,0	32,0	44	50
A520725-24-24	1.1/2" - 11	1.7/8" - 12	80,0	29,0	35,5	50	55

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

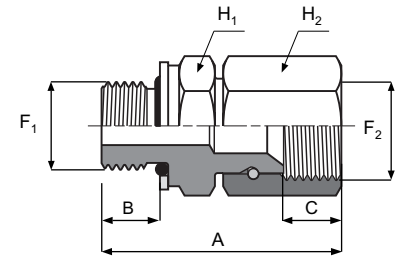
ADAPTORS

JIC ADAPTORS

A521925

METRIC MALE (ISO 6149-2)

JIC FEMALE (SAE J514)



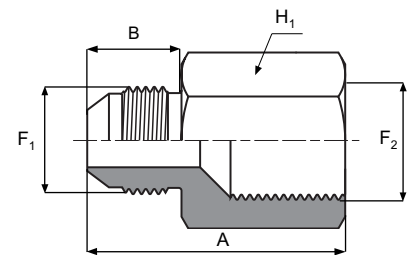
PART. REF.	THREADS		DIMENSIONS mm				
	F ₁ (METR)	F ₂ (UNF)	A	B	C	H ₁	H ₂
A521925-10-04	M10x1,0	7/16" - 20	34,5	18,5	9,0	16	16
A521925-12-05	M12x1,5	1/2" - 20	39,0	20,5	11,0	16	16
A521925-14-05	M14x1,5	1/2" - 20	40,0	20,5	11,0	16	16
A521925-14-06	M14x1,5	9/16" - 18	39,5	18,0	11,0	19	19
A521925-16-08	M16x1,5	3/4" - 16	44,0	23,0	12,5	22	22
A521925-18-10	M18x1,5	7/8" - 14	48,5	26,0	13,5	27	27
A521925-22-10	M22x1,5	7/8" - 14	49,0	25,0	13,0	27	27
A521925-27-12	M27x2,0	1.1/16" - 12	57,5	27,5	18,5	32	32

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A522503

JIC MALE (SAE J514)

BSP FIXED FEMALE

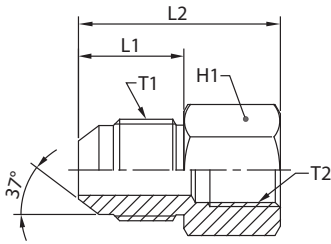


PART. REF.	THREADS		DIMENSIONS mm				
	F ₁ (UNF)	F ₂ (BSP)	A	B	H ₁		
A522503-04-02	7/16" - 20	1/8" - 28	27,0	14,0	16		
A522503-04-04	7/16" - 20	1/4" - 19	32,0	14,0	16		
A522503-05-02	1/2" - 20	1/8" - 28	27,0	14,0	16		
A522503-05-04	1/2" - 20	1/4" - 19	32,0	14,0	16		
A522503-06-04	9/16" - 18	1/4" - 19	32,0	14,0	19		
A522503-06-06	9/16" - 18	3/8" - 19	36,5	14,0	19		
A522503-06-08	9/16" - 18	1/2" - 14	42,5	14,0	19		
A522503-08-06	3/4" - 16	3/8" - 19	35,0	17,0	22		
A522503-08-08	3/4" - 16	1/2" - 14	45,5	17,0	22		
A522503-10-08	7/8" - 14	1/2" - 14	48,0	19,5	27		
A522503-12-08	1.1/16" - 12	1/2" - 14	50,5	22,0	32		
A522503-12-12	1.1/16" - 12	3/4" - 14	52,5	22,0	32		
A522503-16-16	1.5/16" - 12	1" - 11	59,5	23,0	38		
A522503-20-16	1.5/8" - 12	1" - 11	61,0	24,5	50		
A522503-20-20	1.5/8" - 12	1.1/4" - 11	63,0	24,5	50		
A522503-24-24	1.7/8" - 12	1.1/2" - 11	66,5	27,5	54		

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

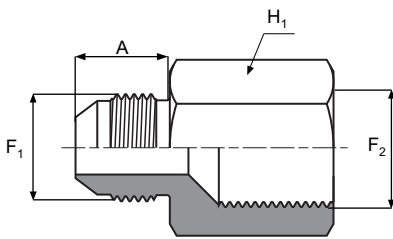


A522504

JIC MALE 37° CONE (SAE J514 / ISO 8434-2)
BSP FIXED FEMALE (ISO 1179-1)

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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A522519

JIC MALE (SAE J514)
METRIC FIXED FEMALE (ISO 6149-1)

PART. REF.	THREADS		DIMENSIONS mm		
	F ₁ (UNF)	F ₂ (METR)	A	H ₁	
A522519-04-10	7/16" - 20	M10x1,0	14,0	16	
A522519-05-12	1/2" - 20	M12x1,5	14,0	16	
A522519-05-14	1/2" - 20	M14x1,5	14,0	16	
A522519-06-14	9/16" - 18	M14x1,5	14,0	19	
A522519-08-16	3/4" - 16	M16x1,5	17,0	22	
A522519-10-18	7/8" - 14	M18x1,5	19,5	27	
A522519-10-22	7/8" - 14	M22x1,5	19,5	27	
A522519-12-27	1.1/16" - 12	M27x1,5	22,0	32	

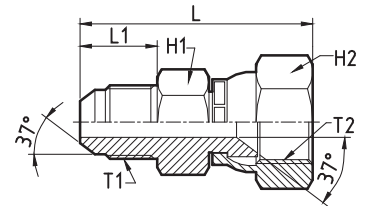
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

A522525

STRAIGHT ADAPTOR JIC MALE 74° CONE
JIC FEMALE 74° CONE SEAT (SAE J514)

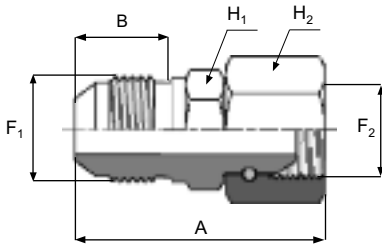


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (UNF)	L	L ₁	H ₁	H ₂
A522525-04-06	7/16" - 20	9/16" - 18	42,0	14,0	14	19
A522525-04-08	7/16" - 20	3/4" - 16	47,0	15,0	19	22
A522525-04-10	7/16" - 20	7/8" - 14	50,0	16,0	22	27
A522525-04-12	7/16" - 20	1.1/16" - 12	55,0	16,0	27	32
A522525-05-06	1/2" - 20	9/16" - 18	42,0	15,0	14	19
A522525-05-08	1/2" - 20	3/4" - 16	47,0	15,0	19	22
A522525-06-06	9/16" - 18	9/16" - 18	42,0	16,0	14	19
A522525-06-08	9/16" - 18	3/4" - 16	48,0	16,0	19	22
A522525-06-10	9/16" - 18	7/8" - 14	51,0	16,0	22	27
A522525-06-12	9/16" - 18	1.1/16" - 12	55,0	16,0	27	32
A522525-08-08	3/4" - 16	3/4" - 16	50,0	18,0	19	22
A522525-08-10	3/4" - 16	7/8" - 14	53,0	18,0	22	27
A522525-08-12	3/4" - 16	1.1/16" - 12	56,0	18,0	27	32
A522525-10-12	7/8" - 14	1.1/16" - 12	58,0	21,0	27	32
A522525-12-14	1.1/16" - 12	1.3/16" - 12	62,0	24,0	30	35
A522525-12-16	1.1/16" - 12	1.5/16" - 12	67,0	24,0	35	38
A522525-12-20	1.1/16" - 12	1.5/8" - 12	71,0	24,0	43	50
A522525-14-16	1.3/16" - 12	1.5/16" - 12	68,0	25,0	35	38
A522525-14-20	1.3/16" - 12	1.5/8" - 12	70,0	25,0	43	50
A522525-16-20	1.5/16" - 12	1.5/8" - 12	70,0	25,0	43	50
A522525-20-24	1.5/8" - 12	1.7/8" - 12	78,0	28,0	50	55

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

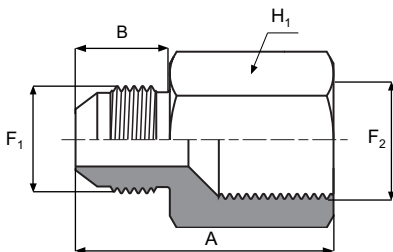


A522528

JIC MALE (SAE J514)
NPSM SWIVEL FEMALE (SAE J476A)

PART. REF.	THREADS		DIMENSIONS mm			
	F ₁ (UNF)	F ₂ (NPSM)	A	B	H ₁	H ₂
A522528-04-02	7/16" - 20	1/8" - 27	35,5	10	14	19
A522528-04-04	7/16" - 20	1/4" - 18	40	14,5	14	19
A522528-05-04	1/2" - 20	1/4" - 18	42	14,5	14	19
A522528-06-04	9/16" - 18	1/4" - 18	43,5	14,5	14	19
A522528-06-08	9/16" - 18	1/2" - 14	50	19	19	22
A522528-08-06	3/4" - 16	3/8" - 18	45	14,5	19	22
A522528-08-08	3/4" - 16	1/2" - 14	51,5	19	19	22
A522528-10-06	7/8" - 14	3/8" - 18	50	14,5	27	32
A522528-10-08	7/8" - 14	1/2" - 14	54,5	19	27	32
A522528-12-08	1.1/16" - 12	1/2" - 14	58	19	30	35
A522528-12-12	1.1/16" - 12	3/4" - 14	58	19	30	35
A522528-16-12	1.5/16" - 12	3/4" - 14	60,5	19	44	50
A522528-16-16	1.5/16" - 12	1" - 11 1/2	65,5	24	50	55
A522528-20-20	1.5/8" - 12	1.1/4" - 11 1/2	70,5	24,5	50	55

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A522530

JIC MALE (SAE J514)
SAE FEMALE PORT (SAE J1926-1)

PART. REF.	THREADS		DIMENSIONS mm			
	F ₁ (UNF)	F ₂ (NPSM)	A	B	H ₁	
A522530-04-04	7/16" - 20	7/16" - 20	34,5	9,1	14	
A522530-05-05	1/2" - 20	1/2" - 20	36	9,1	14	
A522530-06-06	9/16" - 18	9/16" - 18	38,8	10	19	
A522530-08-08	3/4" - 16	3/4" - 16	43,1	11,1	19	
A522530-10-10	7/8" - 14	7/8" - 14	51	12,7	27	
A522530-12-12	1.1/16" - 12	1.1/16" - 12	54,2	15,1	30	
A522530-16-16	1.5/16" - 12	1.5/16" - 12	58,4	15,1	43	
A522530-20-20	1.5/8" - 12	1.5/8" - 12	60,8	15,1	50	
A522530-24-24	1.7/8" - 12	1.7/8" - 12	69,8	15,1	55	

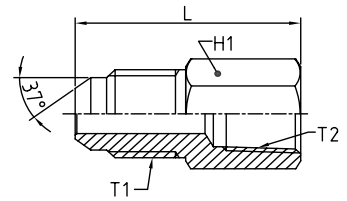
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

A522534

STRAIGHT ADAPTOR JIC MALE 74° CONE (SAE J514)
NPTF FIXED FEMALE (SAE J514)

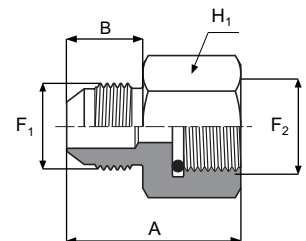


PART. REF.	THREADS		DIMENSIONS mm			
	T1 (UNF)	T2 (NPTF)	L	H1		
A522534-04-04	7/16"-20	1/4"-18	35,3	19		
A522534-05-04	1/2"-20	1/4"-18	35,3	19		
A522534-06-04	9/16"-18	1/4"-18	35,6	19		
A522534-06-06	9/16"-18	3/8"-18	37,0	22		
A522534-08-08	3/4"-16	1/2"-14	45,5	27		
A522534-10-08	7/8"-14	1/2"-14	48,0	27		
A522534-12-12	1.1/16"-12	3/4"-14	52,3	35		
A522534-16-16	1.5/16"-12	1"-11,5	59,7	41		
A522534-20-20	1.5/8"-12	1.1/4"-11,5	63,3	50		

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A522553

JIC MALE (SAE J514)
BSP PRESSURE GAUGE PORT

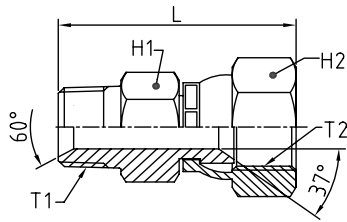


PART. REF.	THREADS		DIMENSIONS mm			
	F1 (UNF)	F2 (BSPP)	A	B	H1	
A522553-04-04	7/16" - 20	1/4" - 19	31,0	14,0	19	
A522553-04-08	7/16" - 20	1/2" - 14	41,0	14,0	27	
A522553-05-04	1/2" - 20	1/4" - 19	28,0	14,0	19	
A522553-05-08	1/2" - 20	1/2" - 14	41,0	14,0	27	
A522553-06-04	9/16" - 18	1/4" - 19	28,0	14,0	19	
A522553-06-08	9/16" - 18	1/2" - 14	35,0	14,0	27	
A522553-08-04	3/4" - 16	1/4" - 19	31,0	17,0	19	
A522553-08-08	3/4" - 16	1/2" - 14	38,0	17,0	27	

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

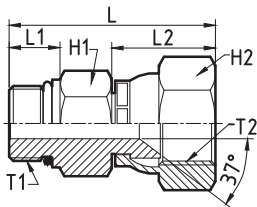


A522825

STRAIGHT ADAPTOR NPTF MALE 60° CONE SEAT (SAE J514)
JIC FEMALE 74° CONE SEAT (SAE J514)

PART. REF.	THREADS	DIMENSIONS mm				
	T1 (NPTF)	T2 (UNF)	L	H1	H2	
A522825-02-04	1/8"-27	7/16"-20	34,3	13	16	
A522825-04-04	1/4"-18	7/16"-20	39,6	16	16	
A522825-04-06	1/4"-18	9/16"-18	42,6	14	19	
A522825-06-06	3/8"-18	9/16"-18	41,4	19	19	
A522825-06-08	3/8"-18	3/4"-16	43,9	22	22	
A522825-08-08	1/2"-14	3/4"-16	50,3	22	22	
A522825-12-12	3/4"-14	1.1/16"-12	57,9	27	32	
A522825-16-16	1"-11,5	1.5/16"-12	65,0	35	38	
A522825-20-20	1.1/4"-11,5	1.5/8"-12	72,0	44	50	

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A523025

STRAIGHT ADAPTOR SAE MALE O-RING BOSS TYPE (SAE J1926)
JIC FEMALE 74° CONE SEAT (SAE J514)

PART. REF.	THREADS	DIMENSIONS mm					
	T1 (UNF)	T2 (UNF)	L	L1	L2	H1	H2
A523025-04-04	7/16" - 20	7/16" - 20	32,5	9,5	17,0	14	16
A523025-05-05	1/2" - 20	1/2" - 20	36,0	9,5	18,0	16	16
A523025-06-06	9/16" - 18	9/16" - 18	37,5	10,0	19,5	19	19
A523025-08-08	3/4" - 16	3/4" - 16	43,5	11,5	23,5	22	22
A523025-10-10	7/8" - 14	7/8" - 14	48,0	13,0	25,0	27	27
A523025-12-12	1.1/16" - 12	1.1/16" - 12	55,5	15,5	27,5	32	32
A523025-14-14	1.3/16" - 12	1.3/16" - 12	54,5	15,5	27,0	35	35
A523025-16-16	1.5/16" - 12	1.5/16" - 12	59,0	15,5	31,0	38	38
A523025-20-20	1.5/8" - 12	1.5/8" - 12	62,5	15,5	32,0	50	50
A523025-24-24	1.7/8" - 12	1.7/8" - 12	68,0	15,5	35,5	55	55

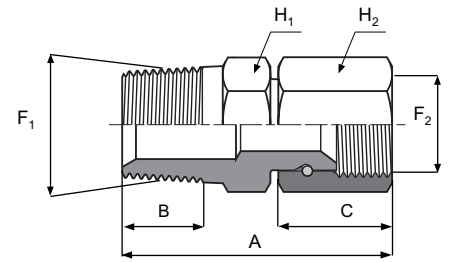
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

A523525

NPT MALE - JIC FEMALE
74° CONE SEAT (SAE J514)

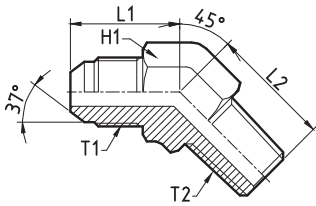


PART. REF.	THREADS		DIMENSIONS mm				
	F ₁ (NPT)	F ₂ (UNF)	A	B	C	H ₁	H ₂
A523525-02-04	7/16" - 20	1/8" - 27	35,5	18,5	10,0	14	14
A523525-04-04	7/16" - 20	1/4" - 18	40,0	18,5	14,5	14	14
A523525-04-05	1/2" - 20	1/4" - 18	37,5	15,0	17,0	14	15
A523525-04-06	9/16" - 18	1/4" - 18	43,5	21,5	14,5	14	19
A523525-06-06	9/16" - 18	3/8" - 18	43,5	21,5	14,5	19	19
A523525-08-06	9/16" - 18	1/2" - 14	45,5	19,5	18,0	22	19
A523525-06-08	3/4" - 16	3/8" - 18	45,0	23,0	14,5	19	22
A523525-08-08	3/4" - 16	1/2" - 14	51,5	23,0	19,0	22	22
A523525-06-10	7/8" - 14	3/8" - 18	50,0	26,0	14,5	22	27
A523525-08-10	7/8" - 14	1/2" - 14	54,5	26,0	19,0	27	32
A523525-08-12	1.1/16" - 12	1/2" - 14	58,0	27,5	19,0	30	32
A523525-12-12	1.1/16" - 12	3/4" - 14	58,0	27,5	19,0	36	38
A523525-12-16	1.5/16" - 12	3/4" - 14	60,5	30,0	19,0	36	38
A523525-16-16	1.5/16" - 12	1" - 11 ^{1/2}	65,5	30,0	24,0	36	38
A523525-20-20	1.5/8" - 12	1.1/4" - 11 ^{1/2}	70,5	33,0	24,5	46	50

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS



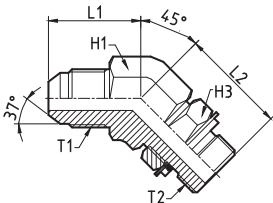
A532507

45° ELBOW ADAPTOR JIC MALE 74° CONE (SAE J514)
BSP MALE TAPERED (ISO 7)

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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A532509

45° ELBOW ADJUSTABLE ADAPTOR JIC MALE 74° CONE
(SAE J514) BSP MALE O-RING BOSS TYPE (ISO 1179-3)

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

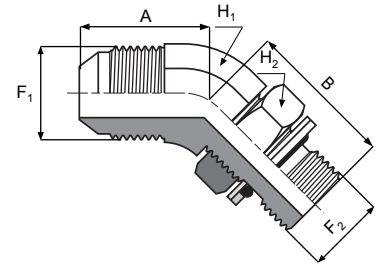
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

A532519

JIC MALE (SAE J514)
METRIC MALE O'RING BOSS TYPE (ISO 6149-2), 45° ELBOW

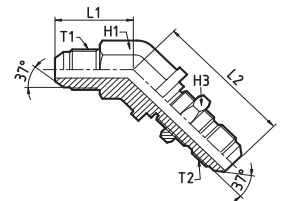


PART. REF.	THREADS		DIMENSIONS mm			
	F ₁ (UNF)	F ₂ (METR)	A	B	H ₁	H ₂
A532519-05-12	1/2" - 20	M12x1,5	21,0	29,0	14	19
A532519-06-16	9/16" - 18	M16x1,5	22,0	33,0	14	22
A532519-08-18	3/4" - 16	M18x1,5	25,0	33,0	19	27
A532519-10-18	7/8" - 14	M18x1,5	28,0	35,0	22	27
A532519-10-22	7/8" - 14	M22x1,5	28,0	38,5	22	32
A532519-12-22	1.1/16" - 12	M22x1,5	32,5	40,5	27	32
A532519-12-27	1.1/16" - 12	M27x2,0	32,5	44,0	27	38
A532519-16-27	1.5/16" - 12	M27x2,0	37,0	47,0	35	38
A532519-16-33	1.5/16" - 12	M33x2,0	37,0	47,0	35	41

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A532523

45° ELBOW BULKHEAD ADAPTOR JIC MALE
74° CONE (SAE J514)

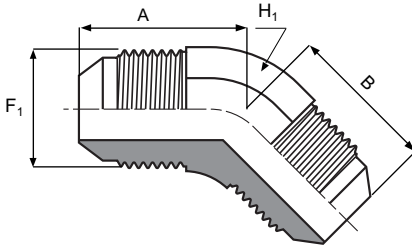


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (UNF)	L ₁	L ₂	H ₁	H ₃
A532523-04-04	7/16" - 20	7/16" - 20	22,0	39,0	14	16
A532523-05-05	1/2" - 20	1/2" - 20	22,0	39,0	14	16
A532523-06-06	9/16" - 18	9/16" - 18	22,0	42,5	14	19
A532523-08-08	3/4" - 16	3/4" - 16	26,0	49,0	19	24
A532523-10-10	7/8" - 14	7/8" - 14	30,0	55,0	22	27
A532523-12-12	1.1/16" - 12	1.1/16" - 12	32,5	62,0	27	32
A532523-16-16	1.5/16" - 12	1.5/16" - 12	40,0	65,0	35	38
A532523-20-20	1.5/8" - 12	1.5/8" - 12	46,0	67,0	41	50
A532523-24-24	1.7/8" - 12	1.7/8" - 12	49,0	67,5	50	55

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

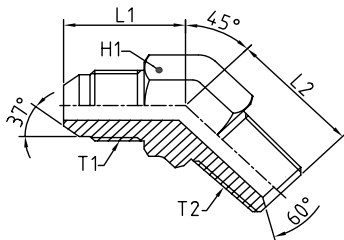


A532525

JIC MALE (SAE J514), 45° ELBOW

PART. REF.	THREADS	DIMENSIONS mm		
	F ₁ (UNF)	A	B	H ₁
A532525-04-04	7/16" - 20	23,5	23,5	14
A532525-05-05	1/2" - 20	23,5	23,5	14
A532525-06-06	9/16" - 18	25,0	25,0	14
A532525-08-08	3/4" - 16	27,0	27,0	19
A532525-10-10	7/8" - 14	32,0	32,0	22

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A532528

45° ELBOW ADAPTOR JIC MALE 74° CONE (SAE J514)
NPTF MALE 60° CONE SEAT (SAE J514)

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

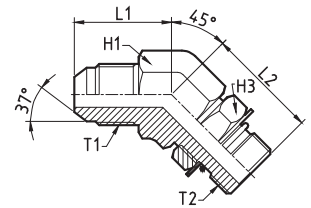
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

A532531

45° ELBOW ADJUSTABLE ADAPTOR JIC MALE 74° CONE (SAE J514)
SAE MALE O-RING BOSS TYPE (SAE J1926)

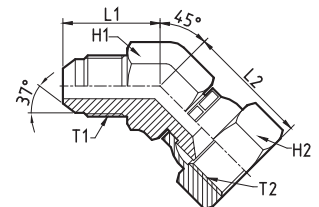


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (UNF)	L ₁	L ₂	H ₁	H ₃
A532531-04-04	7/16" - 20	7/16" - 20	22,0	26,5	14	16
A532531-05-05	1/2" - 20	1/2" - 20	22,0	26,5	14	16
A532531-06-06	9/16" - 18	9/16" - 18	22,0	28,0	14	19
A532531-06-08	9/16" - 18	3/4" - 16	24,0	33,0	19	24
A532531-08-06	3/4" - 16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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A552525

45° ELBOW ADAPTOR JIC MALE 74° CONE
JIC FEMALE 74° CONE SEAT (SAE J514)

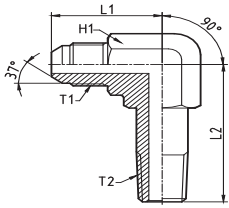


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (UNF)	L ₁	L ₂	H ₁	H ₂
A552525-04-04	7/16" - 20	7/16" - 20	22,0	24,5	14	16
A552525-05-05	1/2" - 20	1/2" - 20	22,0	26,5	14	16
A552525-06-06	9/16" - 18	9/16" - 18	22,0	28,5	14	19
A552525-08-08	3/4" - 16	3/4" - 16	26,0	32,0	19	22
A552525-10-10	7/8" - 14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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS



A562502

90° ELBOW ADAPTOR JIC MALE 74° CONE (SAE J514)
BSP MALE TAPERED LONG (ISO 7)

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

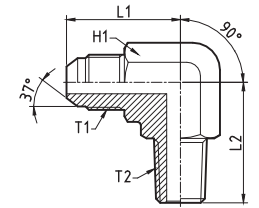
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

A562507

90° ELBOW ADAPTOR JIC MALE 74° CONE (SAE J514)
BSP MALE TAPERED (ISO 7)

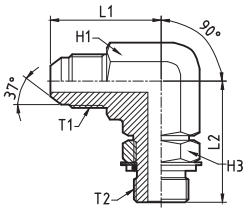


PART. REF.	THREADS		DIMENSIONS mm		
	T ₁ (UNF)	T ₂ (BSPT)	L ₁	L ₂	H ₁
A562507-04-02	7/16" - 20	1/8" - 28	22,5	21,0	12
A562507-04-04	7/16" - 20	1/4" - 19	26,0	27,0	14
A562507-04-06	7/16" - 20	3/8" - 19	28,5	31,0	19
A562507-05-02	1/2" - 20	1/8" - 28	26,0	23,0	14
A562507-05-04	1/2" - 20	1/4" - 19	26,0	27,0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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS



A562509

90° ELBOW ADJUSTABLE ADAPTOR JIC MALE
74° CONE (SAE J514) BSP MALE O-RING BOSS TYPE (ISO 1179-3)

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

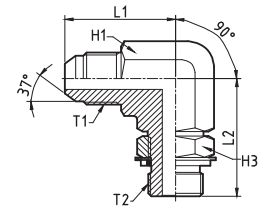
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

A562519

90° ELBOW ADJUSTABLE ADAPTOR JIC MALE 74° CONE (SAE J514)
METRIC MALE (ISO 6149)

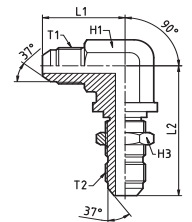


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (METRIC)	L ₁	L ₂	H ₁	H ₃
A562519-04-10	7/16" - 20	10x1	25,0	27,0	14	14
A562519-04-12	7/16" - 20	12x1.5	25,0	31,5	14	17
A562519-05-10	1/2" - 20	10x1	25,0	27,0	14	14
A562519-05-12	1/2" - 20	12x1.5	25,0	31,5	14	17
A562519-05-14	1/2" - 20	14x1.5	25,0	31,5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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A562523

90° ELBOW BULKHEAD ADAPTOR JIC MALE 74° CONE (SAE J514)

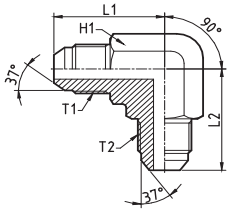


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (UNF)	L ₁	L ₂	H ₁	H ₃
A562523-04-04	7/16" - 20	7/16" - 20	24,0	41,0	14	16
A562523-05-05	1/2" - 20	1/2" - 20	24,0	43,0	14	16
A562523-06-06	9/16" - 18	9/16" - 18	24,0	45,0	14	19
A562523-08-08	3/4" - 16	3/4" - 16	31,5	54,0	19	24
A562523-10-10	7/8" - 14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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS



A562525

90° ELBOW ADAPTOR JIC MALE 74° CONE (SAE J514)

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

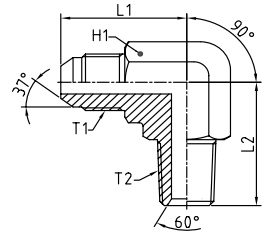
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

A562528

90° ELBOW ADAPTOR JIC MALE 74° CONE (SAE J514)
NPTF MALE 60° CONE SEAT (SAE J514)

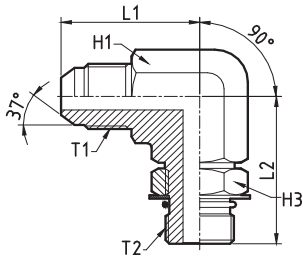


PART. REF.	THREADS		DIMENSIONS mm				
	T1 (UNF)	T2 (NPTF)	L1	L2	H1		
A562528-04-02	7/16"-20	1/8"-27	22,6	19,8	11		
A562528-04-04	7/16"-20	1/4"-18	26,7	27,7	14		
A562528-05-04	1/2"-20	1/4"-18	26,7	27,7	14		
A562528-06-04	9/16"-18	1/4"-18	26,9	27,7	14		
A562528-06-06	9/16"-18	3/8"-18	29,0	31,0	19		
A562528-06-08	9/16"-18	1/2"-14	31,0	37,3	22		
A562528-08-06	3/4"-16	3/8"-18	31,8	31,0	19		
A562528-08-08	3/4"-16	1/2"-14	33,8	37,3	22		
A562528-08-12	3/4"-16	3/4"-14	36,0	40,4	27		
A562528-10-08	7/8"-14	1/2"-14	36,8	37,3	22		
A562528-10-12	7/8"-14	3/4"-14	39,1	40,4	27		
A562528-12-08	1.1/16"-12	1/2"-14	42,2	40,4	27		
A562528-12-12	1.1/16"-12	3/4"-14	42,2	40,4	27		
A562528-12-16	1.1/16"-12	1"-11,5	44,7	50,0	33		
A562528-16-12	1.5/16"-12	3/4"-14	46,0	45,2	33		
A562528-16-16	1.5/16"-12	1"-11,5	46,0	50,0	33		
A562528-20-20	1.5/8"-12	1.1/4"-11,5	52,3	60,5	41		
A562528-24-24	1.7/8"-12	1.1/2"-11,5	59,2	67,0	48		

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS



A562531

90° ELBOW ADJUSTABLE ADAPTOR JIC MALE 74° CONE (SAE J514)
SAE MALE O-RING BOSS TYPE (SAE J1926)

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

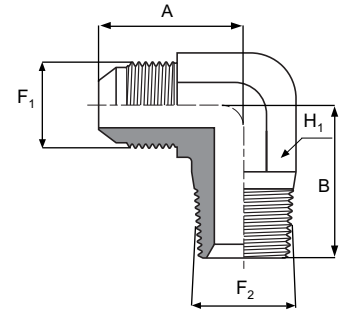
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

A562535

JIC MALE (SAE J514)
NPT MALE, 90° ELBOW

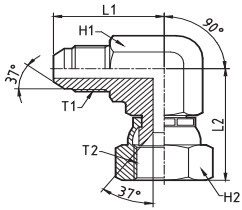


PART. REF.	THREADS		DIMENSIONS mm		
	F ₁ (UNF)	F ₂ (NPTF)	A	B	H ₁
A562535-04-02	7/16" - 20	1/8" - 27	22,5	19,5	14
A562535-04-04	7/16" - 20	1/4" - 18	27,0	27,5	14
A562535-05-02	1/2" - 20	1/8" - 27	24,0	19,5	14
A562535-05-04	1/2" - 20	1/4" - 18	27,0	27,5	14
A562535-06-02	9/16" - 18	1/8" - 27	27,0	23,5	14
A562535-06-04	9/16" - 18	1/4" - 18	27,0	27,5	14
A562535-06-06	9/16" - 18	3/8" - 18	28,5	31,0	14
A562535-06-08	9/16" - 18	1/2" - 14	31,0	37,0	19
A562535-08-04	3/4" - 16	1/4" - 18	31,5	31,0	19
A562535-08-06	3/4" - 16	3/8" - 18	31,5	31,0	19
A562535-08-08	3/4" - 16	1/2" - 14	34,0	37,0	19
A562535-08-12	3/4" - 16	3/4" - 14	37,0	40,5	27
A562535-10-06	7/8" - 14	3/8" - 18	36,5	32,0	22
A562535-10-08	7/8" - 14	1/2" - 14	36,5	37,0	22
A562535-10-12	7/8" - 14	3/4" - 14	43,0	45,0	27
A562535-12-08	1.1/16" - 12	1/2" - 14	42,0	40,5	27
A582535-12-12	1.1/16" - 12	3/4" - 14	42,0	40,5	27
A562535-16-12	1.5/16" - 12	3/4" - 14	46,0	45,0	35
A562535-16-16	1.5/16" - 12	1" - 11 ^{1/2}	46,0	50,0	35
A562535-20-16	1.5/8" - 12	1" - 11 ^{1/2}	52,0	59,0	41
A562535-20-20	1.5/8" - 12	1.1/4" - 11 ^{1/2}	52,0	60,0	41
A562535-24-24	1.7/8" - 12	1.1/2" - 11 ^{1/2}	59,0	67,0	50

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

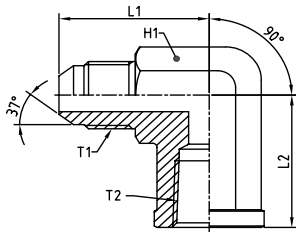


A582525

90° ELBOW ADAPTOR JIC MALE 74° CONE
JIC FEMALE 74° CONE SEAT (SAE J514)

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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A582534

90° ELBOW ADAPTOR JIC MALE 74° CONE (SAE J514)
NPTF FIXED FEMALE (SAE J514)

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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

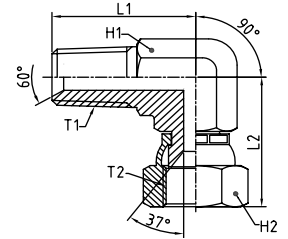
ADAPTORS

JIC ADAPTORS

A582825

90° ELBOW ADAPTOR NPTF MALE 60° CONE SEAT (SAE J514)

JIC FEMALE 74° CONE SEAT (SAE J514)

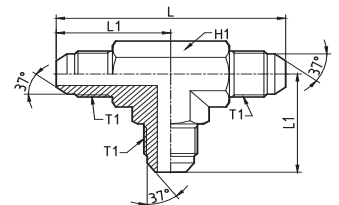


PART. REF.	THREADS		DIMENSIONS mm				
	T1 (NPTF)	T2 (UNF)	L1	L2	H1	H2	
A582825-02-04	1/8"-27	7/16"-20	19,8	25,4	11	16	
A582825-04-04	1/4"-18	7/16"-20	27,7	29,0	14	16	
A582825-04-06	1/4"-18	9/16"-18	27,7	31,8	14	19	
A582825-06-06	3/8"-18	9/16"-18	31,0	32,6	19	19	
A582825-06-08	3/8"-18	3/4"-16	31,0	35,0	19	22	
A582825-08-08	1/2"-14	3/4"-16	37,3	38,4	22	22	
A582825-12-12	3/4"-14	1.1/16"-12	40,4	44,5	27	32	
A582825-16-16	1"-11,5	1.5/16"-12	50,0	50,8	33	38	
A582825-20-20	1.1/4"-11,5	1.5/8"-12	60,5	58,7	41	50	

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A702525

UNION TEE JIC MALE 74° CONE (SAE J514)

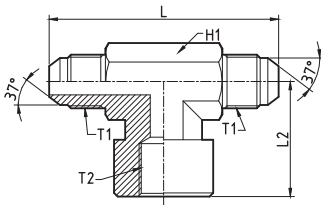


PART. REF.	THREADS	DIMENSIONS mm		
	T1 (UNF)	L	L1	H1
A702525-04-04	7/16" - 20	45,0	22,5	12
A702525-05-05	1/2" - 20	50,0	25,0	14
A702525-06-06	9/16" - 18	54,0	27,0	14
A702525-08-08	3/4" - 16	63,0	31,5	19
A702525-10-10	7/8" - 14	73,0	36,5	22
A702525-12-12	1.1/16" - 12	84,0	42,0	27
A702525-16-16	1.5/16" - 12	92,0	46,0	36
A702525-20-20	1.5/8" - 12	104,0	52,0	41
A702525-24-24	1.7/8" - 12	118,0	59,0	50

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

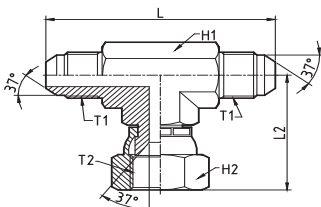


A712502

BRANCH TEE JIC MALE 74° CONE (SAE J514)
BSP FEMALE TAPERED (ISO 7)

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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A712525

BRANCH TEE JIC MALE 74° CONE
JIC FEMALE 74° CONE SEAT (SAE J514)

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

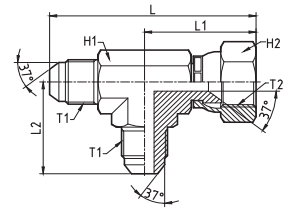
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

A722525

RUN TEE JIC MALE 74° CONE
JIC FEMALE 74° CONE SEAT (SAE J514)

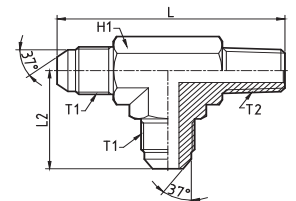


PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (UNF)	T ₂ (UNF)	L	L ₁	L ₂	H ₁	H ₂
A722525-04-04	7/16" - 20	7/16" - 20	52,0	26,0	26,0	14	16
A722525-05-05	1/2" - 20	1/2" - 20	54,0	28,0	26,0	14	16
A722525-06-06	9/16" - 18	9/16" - 18	58,0	31,0	27,0	14	19
A722525-08-08	3/4" - 16	3/4" - 16	67,0	35,5	31,5	19	22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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A762507

RUN TEE JIC MALE 74° CONE (SAE J514)
BSP MALE TAPERED (ISO 7)

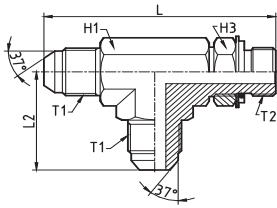


PART. REF.	THREADS		DIMENSIONS mm		
	T ₁ (UNF)	T ₂ (BSPT)	L	L ₂	H ₁
A762507-04-02	7/16" - 20	1/8" - 28	43,5	22,5	12
A762507-05-02	1/2" - 20	1/8" - 28	48,0	25,0	14
A762507-06-04	9/16" - 18	1/4" - 19	54,0	27,0	14
A762507-08-06	3/4" - 16	3/8" - 19	62,5	31,5	19
A762507-10-08	7/8" - 14	1/2" - 14	73,5	36,5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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS



A762509

RUN TEE ADJUSTABLE JIC MALE 74° CONE (SAE J514)
BSP MALE O-RING BOSS TYPE (ISO 1179-3)

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

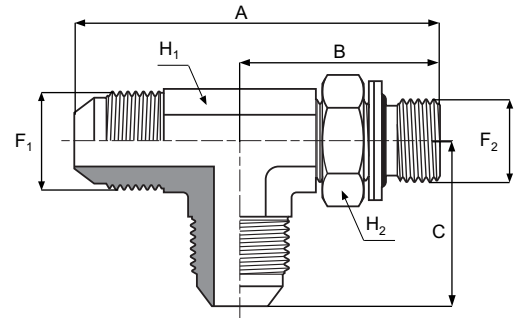
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

A762519

RUN TEE JIC MALE (SAE J514)
METRIC ADJUSTABLE MALE (ISO 6149-2)

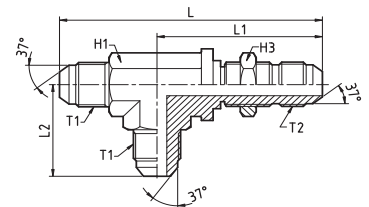


PART. REF.	THREADS		DIMENSIONS mm				
	F ₁ (UNF)	F ₂ (METR)	A	B	C	H ₁	H ₂
A762519-05-12	1/2" - 20	M12x1,5	58,5	31,5	27,0	14	19
A762519-06-16	9/16" - 18	M16x1,5	65,0	36,5	28,5	14	19
A762519-10-18	7/8" - 14	M18x1,5	76,0	41,5	36,5	22	27
A762519-10-22	7/8" - 14	M22x1,5	79,5	43,0	36,5	22	27
A762519-12-27	1.1/16" - 12	M27x2,0	91,0	51,5	42,0	27	32
A762519-16-27	1.5/16" - 12	M27x2,0	98,0	55,0	46,0	36	41
A762519-16-33	1.5/16" - 12	M33x2,0	98,0	55,0	46,0	36	41
A762519-20-42	1.5/8" - 12	M42x2,0	109,0	60,0	52,0	39	43
A762519-24-48	1.7/8" - 12	M48x2,0	120,0	67,0	59,0	43	52

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A762523

RUN TEE BULKHEAD JIC MALE 74° CONE (SAE J514)

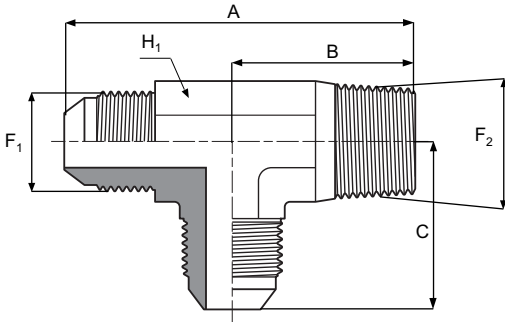


PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (UNF)	T ₂ (UNF)	L	L ₁	L ₂	H ₁	H ₃
A762523-04-04	7/16" - 20	7/16" - 20	65,0	40,5	24,5	14	16
A762523-05-05	1/2" - 20	1/2" - 20	67,0	41,0	26,0	14	16
A762523-06-06	9/16" - 18	9/16" - 18	73,6	46,0	27,5	14	19
A762523-08-08	3/4" - 16	3/4" - 16	88,0	53,5	34,5	19	24
A762523-10-10	7/8" - 14	7/8" - 14	100,0	60,5	39,5	22	27
A762523-12-12	1.1/16" - 12	1.1/16" - 12	113,0	68,0	45,0	27	32
A762523-16-16	1.5/16" - 12	1.5/16" - 12	120,0	71,0	49,0	35	38
A762523-20-20	1.5/8" - 12	1.5/8" - 12	134,0	79,0	55,0	41	50
A762523-24-24	1.7/8" - 12	1.7/8" - 12	146,0	87,0	59,0	50	55

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS



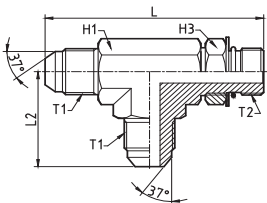
A762528

RUN TEE JIC MALE (SAE J514)
NPTF MALE (SAE J476A)

PART. REF.	THREADS	DIMENSIONS mm
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	F ₁ (UNF)	F ₂ (NPTF)	A	B	C	H ₁
A762528-04-02	7/16" - 20	1/8" - 27	42,0	19,5	22,5	14
A762528-04-04	7/16" - 20	1/4" - 18	54,5	27,5	27,0	14
A762528-05-02	1/2" - 20	1/8" - 27	43,5	19,5	24,0	17
A762528-05-04	1/2" - 20	1/4" - 18	54,5	27,5	27,0	19
A752528-06-04	9/16" - 18	1/4" - 18	54,5	27,5	27,0	19
A752528-08-06	3/4" - 16	3/8" - 18	62,5	31,0	31,5	22
A752528-08-08	3/4" - 16	1/2" - 14	71,0	37,0	34,0	27
A752528-10-08	7/8" - 14	1/2" - 14	73,5	37,0	36,5	27
A752528-12-12	1.1/16" - 12	3/4" - 14	82,5	40,5	42,0	36
A752528-16-16	1.5/16" - 12	1" - 11 ^{1/2}	96,0	50,0	46,0	41
A752528-20-20	1.5/8" - 12	1.1/4" - 11 ^{1/2}	112,0	60,0	52,0	50

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A762531

RUN TEE ADJUSTABLE JIC MALE 74° CONE (SAE J514)
SAE MALE O-RING BOSS TYPE (SAE J1926)

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

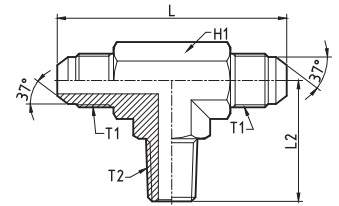
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

A782507

BRANCH TEE JIC MALE 74° CONE (SAE J514)
BSP MALE TAPERED (ISO 7)

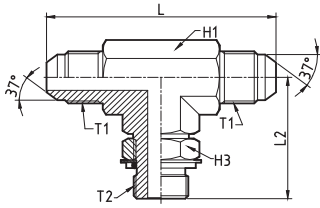


PART. REF.	THREADS		DIMENSIONS mm		
	T ₁ (UNF)	T ₂ (BSPT)	L	L ₂	H ₁
A782507-04-02	7/16" - 20	1/8" - 28	45,0	21,0	12
A782507-05-02	1/2" - 20	1/8" - 28	50,0	23,0	14
A782507-06-04	9/16" - 18	1/4" - 19	54,0	27,0	14
A782507-08-06	3/4" - 16	3/8" - 19	63,0	31,0	19
A782507-10-08	7/8" - 14	1/2" - 14	73,0	37,0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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS



A782509

BRANCH TEE ADJUSTABLE JIC MALE 74° CONE (SAE J514)
BSP MALE O-RING BOSS TYPE (ISO 1179-3)

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

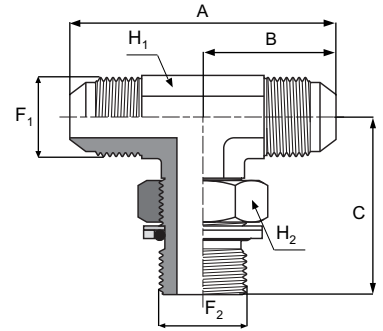
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

A782519

BRANCH TEE JIC MALE (SAE J514)
METRIC ADJUSTABLE MALE (ISO 6149-2)

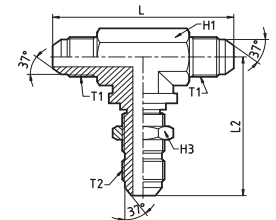


PART. REF.	THREADS		DIMENSIONS mm				
	F ₁ (UNF)	F ₂ (METR)	A	B	C	H ₁	H ₂
A782519-04-12	7/16" - 20	M12x1,5	54,0	27,0	31,5	14	16
A782519-05-12	1/2" - 20	M12x1,5	54,0	27,0	31,5	14	16
A782519-06-16	9/16" - 18	M16x1,5	57,0	28,5	36,5	14	19
A782519-08-18	3/4" - 16	M18x1,5	63,0	31,5	39,5	19	24
A782519-10-18	7/8" - 14	M18x1,5	73,0	36,5	41,5	22	27
A782519-10-22	7/8" - 14	M22x1,5	73,0	36,5	43,0	27	32
A782519-16-27	1.5/16" - 12	M27x2,0	92,0	46,0	55,0	36	38

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A782523

BRANCH TEE BULKHEAD JIC MALE 74° CONE (SAE J514)

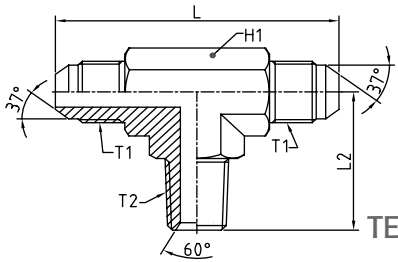


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF)	T ₂ (UNF)	L ₁	L ₂	H ₁	H ₃
A782523-04-04	7/16" - 20	7/16" - 20	49,0	40,5	14	16
A782523-05-05	1/2" - 20	1/2" - 20	52,0	41,0	14	16
A782523-06-06	9/16" - 18	9/16" - 18	55,0	46,0	14	19
A782523-08-08	3/4" - 16	3/4" - 16	69,0	53,5	19	24
A782523-10-10	7/8" - 14	7/8" - 14	79,0	60,5	22	27
A782523-12-12	1.1/16" - 12	1.1/16" - 12	90,0	68,0	27	32
A782523-16-16	1.5/16" - 12	1.5/16" - 12	98,0	71,0	35	38
A782523-20-20	1.5/8" - 12	1.5/8" - 12	110,0	79,0	41	50
A782523-24-24	1.7/8" - 12	1.7/8" - 12	118,0	87,0	50	55

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

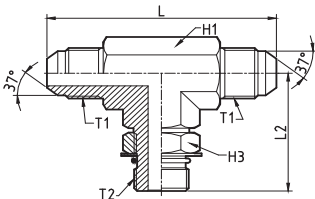


A782528

BRANCH TEE JIC MALE 74° CONE (SAE J514)
NPTF MALE 60° CONE SEAT (SAE J514)

PART. REF.	THREADS		DIMENSIONS mm			
	T1 (UNF)	T2 (NPTF)	L	L2	H1	
A782528-04-04	7/16"-20	1/4"-18	53,3	27,7	14	
A782528-05-04	1/2"-20	1/4"-18	53,3	27,7	14	
A782528-06-04	9/16"-18	1/4"-18	53,9	27,7	14	
A782528-06-06	9/16"-18	3/8"-18	57,9	31,0	19	
A782528-08-08	3/4"-16	1/2"-14	67,6	37,3	22	
A782528-10-08	7/8"-14	1/2"-14	73,7	37,3	22	
A782528-12-12	1.1/16"-12	3/4"-14	84,3	40,4	27	
A782528-16-16	1.5/16"-12	1"-11,5	92,0	50,0	33	
A782528-20-20	1.5/8"-12	1.1/4"-11,5	104,7	60,5	41	

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A782531

BRANCH TEE ADJUSTABLE JIC MALE 74° CONE (SAE J514)
SAE MALE O-RING BOSS TYPE (SAE J1926)

PART. REF.	THREADS		DIMENSIONS mm			
	T1 (UNF)	T2 (UNF)	L	L2	H1	H3
A782531-04-04	7/16" - 18	7/16" - 18	50,0	26,5	14	16
A782531-05-05	1/2" - 20	1/2" - 20	50,0	27,5	14	16
A782531-06-06	9/16" - 18	9/16" - 18	54,0	31,5	14	19
A782531-08-08	3/4" - 16	3/4" - 16	63,0	36,5	19	24
A782531-10-10	7/8" - 14	7/8" - 14	73,0	43,0	22	27
A782531-12-12	1.1/16" - 12	1.1/16" - 12	84,0	49,0	27	32
A782531-16-16	1.5/16" - 12	1.5/16" - 12	92,0	52,0	36	38

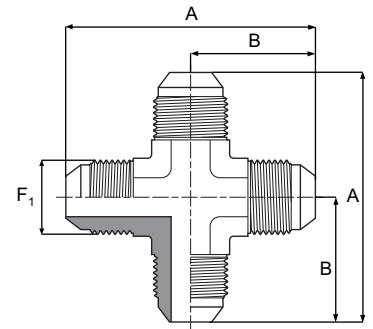
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

JIC ADAPTORS

A902525

EQUAL CROSS JIC MALE (SAE J514)

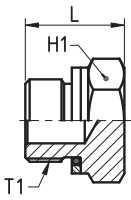


PART. REF.	THREADS	DIMENSIONS mm	
	F1 (UNF)	A	B
A902525-04-04	7/16" - 20	22,5	14
A902525-05-05	1/2" - 20	24,0	14
A902525-06-06	9/16" - 18	27,0	14
A902525-08-08	3/4" - 16	31,5	19
A902525-10-10	7/8" - 14	36,5	22
A902525-12-12	1.1/16" - 12	42,0	27
A902525-16-16	1.5/16" - 12	46,0	36
A902525-20-20	1.5/8" - 12	52,0	41
A902525-24-24	1.7/8" - 12	59,0	50

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS

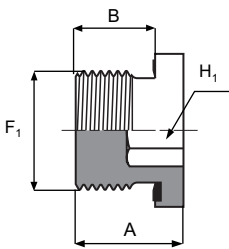


A400300

MALE PLUG BSP OR BOSS (ISO 1179-3)

PART. REF.	THREADS	DIMENSIONS mm	
	T₁ (BSP)	L	H₁
A400300-04	1/4" - 19	21,0	19
A400300-06	3/8" - 19	22,0	22
A400300-08	1/2" - 14	27,0	27
A400300-12	3/4" - 14	32,0	36
A400300-16	1" - 11	36,0	41
A400300-20	1.1/4" - 11	41,0	50
A400300-24	1.1/2" - 11	42,0	55

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A400100E

BSP MALE PLUG WITH SHAPED SEAL AND HEXAGONAL SOCKET HEAD

PART. REF.	THREADS	DIMENSIONS mm		
	F₁ (BSP)	A	B	H₁
A400100E-02	1/8" - 28	12,0	8,0	5
A400100E-04	1/4" - 19	17,0	12,0	6
A400100E-06	3/8" - 19	17,0	12,0	8
A400100E-08	1/2" - 14	19,0	14,0	10
A400100E-12	3/4" - 14	21,0	16,0	14
A400100E-16	1" - 11	22,5	16,0	17
A400100E-20	1.1/4" - 11	22,5	16,0	22
A400100E-24	1.1/2" - 11	22,5	16,0	22

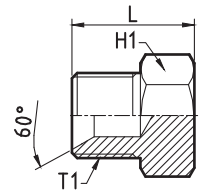
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS

A400500

MALE PLUG BSP PARALLEL 60° CONE SEAT (ISO 228)

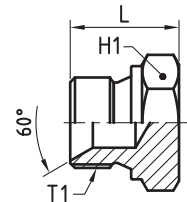


PART. REF.	THREADS	DIMENSIONS mm	
	T ₁ (BSPP)	L	H ₁
A400500-02	1/8" - 28	16,0	12
A400500-04	1/4" - 19	19,0	14
A400500-06	3/8" - 19	23,0	19
A400500-08	1/2" - 14	27,0	22
A400500-12	3/4" - 14	30,0	27
A400500-16	1" - 11	34,0	35
A400500-20	1.1/4" - 11	40,0	43
A400500-24	1.1/2" - 11	43,0	50

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A400500D

MALE PLUG BSP PARALLEL 60° CONE SEAT DIN PROFILE (ISO 228)

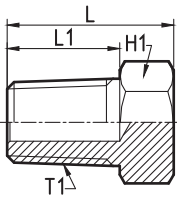


PART. REF.	THREADS	DIMENSIONS mm	
	T ₁ (BSPP)	L	H ₁
A400500-04D	1/4" - 19	19,0	19
A400500-06D	3/8" - 19	20,0	22
A400500-08D	1/2" - 14	25,0	27
A400500-10D	5/8" - 14	26,0	30
A400500-12D	3/4" - 14	27,0	32
A400500-16D	1" - 11	31,5	41
A400500-20D	1.1/4" - 11	34,0	50
A400500-24D	1.1/2" - 11	37,0	55

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS

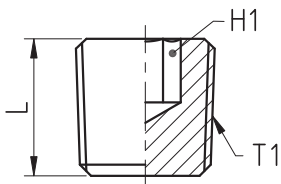


A400700

MALE PLUG BSP TAPERED (ISO 7)

PART. REF.	THREADS	DIMENSIONS mm		
	T₁ (BSPT)	L	L₁	H₁
A400700-02	1/8" - 28	17,5	11,5	12
A400700-04	1/4" - 19	20,5	14,0	14
A400700-06	3/8" - 19	24,0	16,0	19
A400700-08	1/2" - 14	26,5	18,5	22
A400700-12	3/4" - 14	32,0	20,0	27
A400700-16	1" - 11	36,0	24,0	35
A400700-20	1.1/4" - 11	41,5	25,5	43
A400700-24	1.1/2" - 11	43,0	29,0	50

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A400700E

BSPT MALE PLUG "HEXAGONAL SOCKET HEAD" (ISO 7)

PART. REF.	THREADS	DIMENSIONS mm	
	T₁ (BSPT)	L	H₁
A400700E-02	1/8" - 28	8,0	5
A400700E-04	1/4" - 19	10,0	7
A400700E-06	3/8" - 19	10,0	8
A400700E-08	1/2" - 14	10,0	10
A400700E-12	3/4" - 14	12,0	12
A400700E-16	1" - 11	12,0	17
A400700E-20	1.1/4" - 11	18,0	22
A400700E-24	1.1/2" - 11	20,0	24

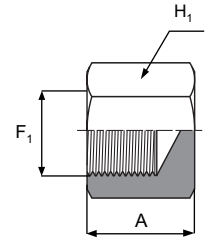
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS

A410400

BSP FIXED FEMALE PLUG

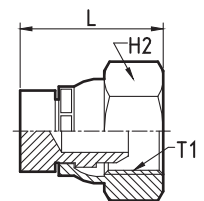


PART. REF.	THREADS	DIMENSIONS mm	
	F₁ (BSP)	A	H₁
A410400-06	3/8" - 19	19,0	19
A410400-08	1/2" - 14	24,0	22
A410400-12	3/4" - 14	25,0	27
A410400-16	1" - 11	29,0	35

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code **.SS**

A410500

FEMALE PLUG BSP PARALLEL 60° CONE SEAT (ISO 228)

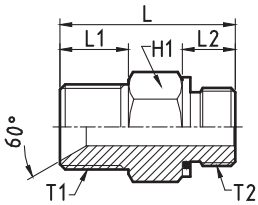


PART. REF.	THREADS	DIMENSIONS mm	
	T₁ (BSPP)	L	H₂
A410500-02	1/8" - 28	21,0	14
A410500-04	1/4" - 19	23,0	19
A410500-06	3/8" - 19	27,0	22
A410500-08	1/2" - 14	30,0	27
A410500-10	5/8" - 14	26,0	30
A410500-12	3/4" - 14	35,0	32
A410500-16	1" - 11	39,0	41
A410500-20	1.1/4" - 11	43,0	50
A410500-24	1.1/2" - 11	48,0	55

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code **.SS**

ADAPTORS

BSP ADAPTORS



A500503

STRAIGHT ADAPTOR BSP MALE PARALLEL 60° CONE SEAT
(ISO 228) BSP MALE O-RING BOSS TYPE (ISO 1179-3)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L	L ₁	L ₂	H ₁
A500503-04-04	1/4" - 19	1/4" - 19	33,0	13,0	12,0	19
A500503-04-06	1/4" - 19	3/8" - 19	34,0	13,0	12,0	22
A500503-06-04	3/8" - 19	1/4" - 19	36,0	15,0	12,0	19
A500503-06-06	3/8" - 19	3/8" - 19	36,0	15,0	12,0	22
A500503-06-08	3/8" - 19	1/2" - 14	39,0	15,0	14,0	27
A500503-08-06	1/2" - 14	3/8" - 19	39,0	18,0	12,0	22
A500503-08-08	1/2" - 14	1/2" - 14	42,0	18,0	14,0	27
A500503-08-12	1/2" - 14	3/4" - 14	46,0	18,0	16,0	32
A500503-12-08	3/4" - 14	1/2" - 14	44,0	20,0	14,0	27
A500503-12-12	3/4" - 14	3/4" - 14	48,0	20,0	16,0	32
A500503-12-16	3/4" - 14	1" - 11	50,0	20,0	18,0	41
A500503-16-12	1" - 11	3/4" - 14	50,0	22,0	16,0	35
A500503-16-16	1" - 11	1" - 11	52,0	22,0	18,0	41
A500503-16-20	1" - 11	1.1/4" - 11	56,0	22,0	20,0	50
A500503-20-16	1.1/4" - 11	1" - 11	57,0	26,0	18,0	43
A500503-20-20	1.1/4" - 11	1.1/4" - 11	60,0	26,0	20,0	50
A500503-24-20	1.1/2" - 11	1.1/4" - 11	60,0	27,0	20,0	50
A500503-24-24	1.1/2" - 11	1.1/2" - 11	63,0	27,0	22,0	55

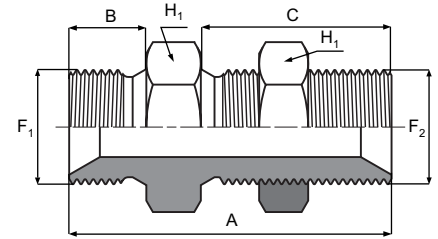
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS

A500504

BSP MALE 60° CONE SEAT
BSP BULKHEAD MALE (ISO 228)



PART. REF.	THREADS		DIMENSIONS mm				
	F ₁ (BSP)	F ₂ (BSP)	A	B	C	H ₁	H ₂
A500504-02-02	1/8" - 28	1/8" - 28	49,0	10,0	33,0	14	14
A500504-04-04	1/4" - 19	1/4" - 19	53,0	12,0	35,0	14	19
A500504-06-06	3/8" - 19	3/8" - 19	56,0	13,0	35,0	19	22
A500504-08-08	1/2" - 14	1/2" - 14	65,0	16,0	39,0	22	27
A500504-10-10	5/8 - 14	5/8 - 14	67,5	17,0	40,0	27	30
A500504-12-12	3/4" - 14	3/4" - 14	71,0	18,0	41,0	27	32
A500504-16-16	1" - 11	1" - 11	84,0	20,0	50,0	35	41
A500504-20-20	1.1/4" - 11	1.1/4" - 11	90,0	20,5	52,0	44	50
A500504-24-24	1.1/2" - 11	1.1/2" - 11	93,0	23,0	54,0	50	55

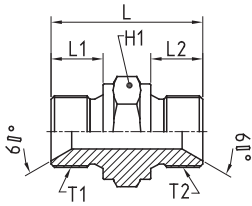
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS

A500505

STRAIGHT ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L	L ₁	L ₂	H ₁
A500505-02-02	1/8" - 28	1/8" - 28	25,0	8,7	8,7	14
A500505-02-04	1/8" - 28	1/4" - 19	29,0	8,7	11,0	19
A500505-04-04	1/4" - 19	1/4" - 19	32,0	11,0	11,0	19
A500505-04-06	1/4" - 19	3/8" - 19	33,0	11,0	12,0	22
A500505-04-08	1/4" - 19	1/2" - 14	36,5	11,0	14,0	27
A500505-04-12	1/4" - 19	3/4" - 14	39,0	11,0	16,0	32
A500505-06-06	3/8" - 19	3/8" - 19	34,0	12,0	12,0	22
A500505-06-08	3/8" - 19	1/2" - 14	37,0	12,0	14,0	27
A500505-06-10	3/8" - 19	5/8" - 14	39,0	12,0	16,0	30
A500505-06-12	3/8" - 19	3/4" - 14	41,0	12,0	16,0	32
A500505-08-08	1/2" - 14	1/2" - 14	39,5	14,0	14,0	27
A500505-08-10	1/2" - 14	5/8" - 14	41,5	14,0	16,0	30
A500505-08-12	1/2" - 14	3/4" - 14	43,5	14,0	16,0	32
A500505-08-16	1/2" - 14	1" - 11	47,5	14,0	19,0	41
A500505-10-06	5/8" - 14	3/8" - 19	40,5	12	16	30
A500505-10-10	5/8" - 14	5/8" - 14	43,5	16,0	16,0	30
A500505-10-12	5/8" - 14	3/4" - 14	44,5	16,0	16,0	32
A500505-12-12	3/4" - 14	3/4" - 14	44,5	16,0	16,0	32
A500505-12-16	3/4" - 14	1" - 11	48,5	16,0	19,0	41
A500505-12-20	3/4" - 14	1.1/4" - 11	52,5	16,0	20,0	50
A500505-16-16	1" - 11	1" - 11	51,5	19,0	19,0	41
A500505-16-20	1" - 11	1.1/4" - 11	55,5	19,0	20,0	50
A500505-16-24	1" - 11	1.1/2" - 11	58,5	19,0	22,0	55
A500505-20-20	1.1/4" - 11	1.1/4" - 11	56,5	20,0	20,0	50
A500505-20-24	1.1/4" - 11	1.1/2" - 11	59,5	20,0	22,0	55
A500505-24-24	1.1/2" - 11	1.1/2" - 11	61,5	22,0	22,0	55
A500505-24-32	1.1/2" - 11	2" - 11	67,5	22,0	25,0	70
A500505-32-32	2" - 11	2" - 11	71,0	25,0	25,0	70

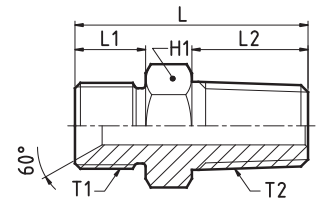
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS

A500507

STRAIGHT ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228) - BSP MALE TAPERED (ISO 7)

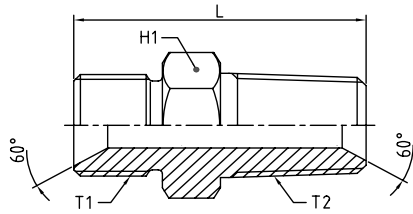


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPT)	L	L ₁	L ₂	H ₁
A500507-02-02	1/8" - 28	1/8" - 28	23,0	8,0	10,0	12
A500507-02-04	1/8" - 28	1/4" - 19	28,0	8,0	14,0	14
A500507-04-02	1/4" - 19	1/8" - 28	28,0	12,0	10,0	14
A500507-04-04	1/4" - 19	1/4" - 19	32,0	12,0	14,0	14
A500507-04-06	1/4" - 19	3/8" - 19	33,0	12,0	15,0	19
A500507-04-08	1/4" - 19	1/2" - 14	37,0	12,0	17,0	22
A500507-06-04	3/8" - 19	1/4" - 19	33,0	13,0	14,0	19
A500507-06-06	3/8" - 19	3/8" - 19	34,0	13,0	15,0	19
A500507-06-08	3/8" - 19	1/2" - 14	38,0	13,0	17,0	22
A500507-08-04	1/2" - 14	1/4" - 19	37,0	15,0	14,0	22
A500507-08-06	1/2" - 14	3/8" - 19	38,0	15,0	15,0	22
A500507-08-08	1/2" - 14	1/2" - 14	40,0	15,0	17,0	22
A500507-08-10	1/2" - 14	5/8" - 14	44,0	15,0	20,0	27
A500507-08-12	1/2" - 14	3/4" - 14	44,0	15,0	20,0	27
A500507-10-08	5/8" - 14	1/2" - 14	42,0	16,0	17,0	27
A500507-12-08	3/4" - 14	1/2" - 14	43,0	17,0	17,0	27
A500507-12-12	3/4" - 14	3/4" - 14	46,0	17,0	20,0	27
A500507-12-16	3/4" - 14	1" - 11	50,0	17,0	23,0	35
A500507-16-12	1" - 11	3/4" - 14	50,0	20,0	20,0	35
A500507-16-16	1" - 11	1" - 11	53,0	20,0	23,0	35
A500507-16-20	1" - 11	1.1/4" - 11	58,0	20,0	26,0	44
A500507-20-16	1.1/4" - 11	1" - 11	56,0	21,0	23,0	44
A500507-20-20	1.1/4" - 11	1.1/4" - 11	59,0	21,0	26,0	44
A500507-20-24	1.1/4" - 11	1.1/2" - 11	62,0	21,0	27,0	50
A500507-24-20	1.1/2" - 11	1.1/4" - 11	62,0	22,0	26,0	50
A500507-24-24	1.1/2" - 11	1.1/2" - 11	63,0	22,0	27,0	50
A500507-32-32	2" - 11	2" - 11	72,0	25,0	30,0	65

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS



A500528

STRAIGHT ADAPTOR BSP MALE PARALLEL 60° CONE SEAT
(ISO 228) NPTF MALE 60° CONE SEAT (SAE J514)

PART. REF.	THREADS		DIMENSIONS mm				
	T1 (BSPP)	T2 (NPTF)	L	H1			
A500528-04-04	1/4"-19	1/4"-18	31,5	16			
A500528-04-06	1/4"-19	3/8"-18	31,5	19			
A500528-06-06	3/8"-19	3/8"-18	32,5	19			
A500528-08-08	1/2"-14	1/2"-14	40,0	22			
A500528-12-12	3/4"-14	3/4"-14	44,0	27			
A500528-16-16	1"-11	1"-11,5	53,0	35			
A500528-20-20	1.1/4"-11	1.1/4"-11,5	57,0	44			
A500528-24-24	1.1/2"-11	1.1/2"-11,5	63,0	50			

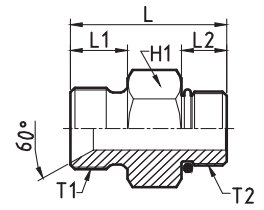
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS

A500530

STRAIGHT ADAPTOR BSP MALE 60° CONE SEAT (ISO 228)
SAE MALE O-RING BOSS TYPE (SAE J1926)



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

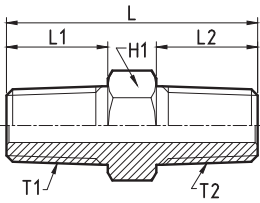
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS

A500707

STRAIGHT ADAPTOR BSP MALE TAPERED (ISO 7)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPT)	T ₂ (BSPT)	L	L ₁	L ₂	H ₁
A500707-02-02	1/8" - 28	1/8" - 28	25,0	10,0	10,0	12
A500707-02-04	1/8" - 28	1/4" - 19	30,0	10,0	14,0	14
A500707-02-06	1/8" - 28	3/8" - 19	31,0	10,0	15,0	19
A500707-04-04	1/4" - 19	1/4" - 19	34,0	14,0	14,0	14
A500707-04-06	1/4" - 19	3/8" - 19	35,0	14,0	15,0	19
A500707-04-08	1/4" - 19	1/2" - 14	39,0	14,0	17,0	22
A500707-06-06	3/8" - 19	3/8" - 19	36,0	15,0	15,0	19
A500707-06-08	3/8" - 19	1/2" - 14	40,0	15,0	17,0	22
A500707-06-12	3/8" - 19	3/4" - 14	44,0	15,0	20,0	27
A500707-08-08	1/2" - 14	1/2" - 14	42,0	17,0	17,0	22
A500707-08-12	1/2" - 14	3/4" - 14	46,0	17,0	20,0	27
A500707-08-16	1/2" - 14	1" - 11	50,0	17,0	23,0	35
A500707-12-12	3/4" - 14	3/4" - 14	49,0	20,0	20,0	27
A500707-12-16	3/4" - 14	1" - 11	53,0	20,0	23,0	35
A500707-16-16	1" - 11	1" - 11	56,0	23,0	23,0	35
A500707-16-20	1" - 11	1.1/4" - 11	61,0	23,0	26,0	44
A500707-20-20	1.1/4" - 11	1.1/4" - 11	64,0	26,0	26,0	44
A500707-20-24	1.1/4" - 11	1.1/2" - 11	67,0	26,0	27,0	50
A500707-24-24	1.1/2" - 11	1.1/2" - 11	68,0	27,0	27,0	50
A500707-24-32	1.1/2" - 11	2" - 11	74,0	27,0	30,0	65
A500707-32-32	2" - 11	2" - 11	77,0	30,0	30,0	65

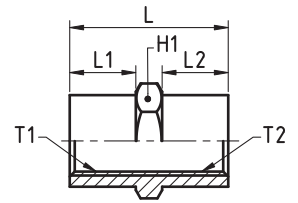
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .S5

ADAPTORS

BSP ADAPTORS

A510404

STRAIGHT ADAPTOR BSP FIXED FEMALE

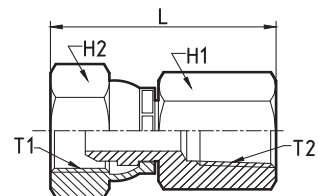


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L	L ₁	L ₂	H ₁
A510404-02-02	1/8" - 28	1/8" - 28	20,0	7,0	7,0	14
A510404-02-04	1/8" - 28	1/4" - 19	25,0	7,0	12,0	19
A510404-04-04	1/4" - 19	1/4" - 19	30,0	12,0	12,0	19
A510404-04-06	1/4" - 19	3/8" - 19	30,0	12,0	12,0	24
A510404-06-06	3/8" - 19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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A510502

STRAIGHT ADAPTOR BSP FEMALE 60° CONE (ISO 228)
BSP FEMALE TAPERED (ISO 7)

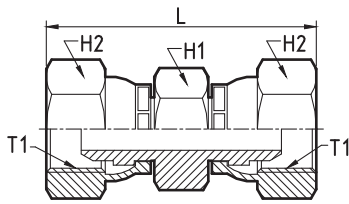


PART. REF.	THREADS		DIMENSIONS mm		
	T ₁ (BSPP)	T ₂ (BSPT)	L	H ₁	H ₂
A510502-04-04	1/4" - 19	1/4" - 19	34,0	19	19
A510502-06-06	3/8" - 19	3/8" - 19	40,0	22	22
A510502-08-08	1/2" - 14	1/2" - 14	47,0	27	27
A510502-12-12	3/4" - 14	3/4" - 14	53,0	35	32
A510502-16-16	1" - 11	1" - 11	61,0	41	41
A510502-20-20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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS

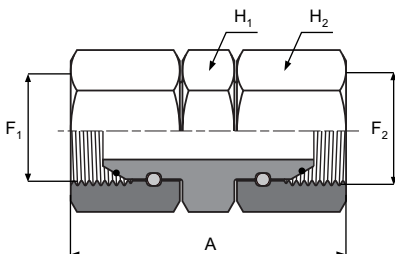


A510505

STRAIGHT ADAPTOR BSP FEMALE 60° CONE (ISO 228)

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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A510808

BSP FEMALE 60° CONE WITH O'RING (ISO 228)

PART. REF.	THREADS		DIMENSIONS mm		
	F ₁ (BSP)	F ₂ (BSP)	A	H ₁	H ₂
A510808-04-04	1/4" - 19	1/4" - 19	39,0	14	19
A510808-06-06	3/8" - 19	3/8" - 19	45,0	19	22
A510808-08-08	1/2" - 14	1/2" - 14	52,0	22	27
A510808-12-12	3/4" - 14	3/4" - 14	63,0	27	32
A510808-16-16	1" - 11	1" - 11	74,0	35	41
A510808-20-20	1.1/4" - 11	1.1/4" - 11	77,0	44	50
A510808-24-24	1" - 11	1" - 11	87,0	50	55

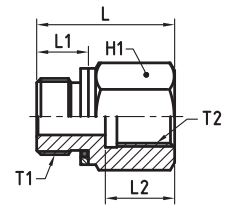
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS

A520304

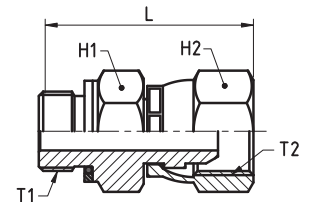
STRAIGHT ADAPTOR BSP MALE OR BOSS (ISO 1179-3)
BSP FIXED FEMALE (ISO 1179-1)



PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L	L ₁	L ₂	H ₁
A520304-02-04	1/8" - 28	1/4" - 19	28,0	8,0	17,0	19
A520304-04-06	1/4" - 19	3/8" - 19	36,0	12,0	17,0	24
A520304-04-08	1/4" - 19	1/2" - 14	40	12	28	30
A520304-06-04	3/8" - 19	1/4" - 19	30,0	12,0	17,0	22
A520304-06-08	3/8" - 19	1/2" - 14	41,0	12,0	20,0	30
A520304-08-06	1/2" - 14	3/8" - 19	36,0	14,0	17,0	27
A520304-08-12	1/2" - 14	3/4" - 14	46,0	14,0	22,0	36
A520304-12-08	3/4" - 14	1/2" - 14	41,0	16,0	20,0	32
A520304-12-16	3/4" - 14	1" - 11	51,0	16,0	24,5	41
A520304-16-04	1" - 11	1/4" - 19	39	18	11	41
A520304-16-12	1" - 11	3/4" - 14	47,0	18,0	22,0	41
A520304-16-20	1" - 11	1.1/4" - 11	57,0	18,0	26,5	55
A520304-20-08	1.1/4" - 11	1/2"	32	20	12	50
A520304-20-16	1.1/4"	1" - 11	52,0	20,0	24,5	50
A520304-20-24	1.1/4" - 11	1.1/2" - 11	60,0	20,0	28,5	60

A520305

STRAIGHT ADAPTOR BSP MALE OR BOSS (ISO 1179-3)
BSP FEMALE 60° CONE (ISO 228)

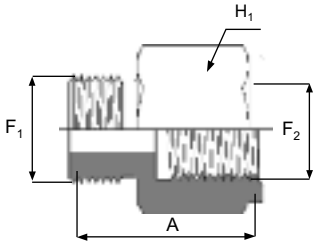


PART. REF.	THREADS		DIMENSIONS mm		
	T ₁ (BSPP)	T ₂ (BSPP)	L	H ₁	H ₂
A520305-04-04	1/4" - 19	1/4" - 19	36,5	19	19
A520305-06-06	3/8" - 19	3/8" - 19	39,5	22	22
A520305-08-08	1/2" - 14	1/2" - 14	45,5	27	27
A520305-12-12	3/4" - 14	3/4" - 14	54,0	32	32
A520305-16-16	1" - 11	1" - 11	61,5	41	41
A520305-20-20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

If you wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS

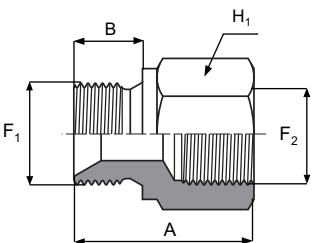


A520353

BSP MALE O'RING BOSS TYPE (ISO 1179-3)
BSP PRESSURE GAUGE PORT

PART. REF.	THREADS		DIMENSIONS mm	
	F ₁ (BSP)	F ₂ (BSP)	A	H ₁
A520353-04-04	1/4" - 19	1/4" - 19	36,5	19
A520353-04-02	1/4" - 19	1/8" - 28	39,5	22
A520353-06-04	3/8" - 19	1/4" - 19	45,5	27
A520353-06-08	3/8" - 19	1/2" - 14	54,0	32
A520353-08-08	1/2" - 14	1/2" - 14	61,5	41
A520353-12-08	3/4" - 14	1/2" - 14	67,0	50

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A520504

BSP MALE 60° CONE SEAT - BSP FIXED FEMALE

PART. REF.	THREADS		DIMENSIONS mm		
	F ₁ (BSP)	F ₂ (BSP)	A	B	H ₁
A520504-02-02	1/8" - 28	1/8" - 28	28	8	14
A520504-04-04	1/4" - 19	1/4" - 19	32,0	11,0	19
A520504-06-06	3/8" - 19	3/8" - 19	32,0	12,0	22
A520504-08-08	1/2" - 14	1/2" - 14	40,0	14,0	27
A520504-12-12	3/4" - 14	3/4" - 14	48,0	16,0	32
A520504-16-16	1" - 11	1" - 11	54,0	19,0	41

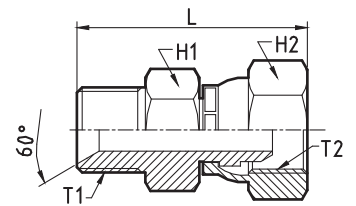
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS

A520505

STRAIGHT ADAPTOR BSP MALE PARALLEL 60° CONE SEAT
BSP FEMALE 60° CONE (ISO 228)

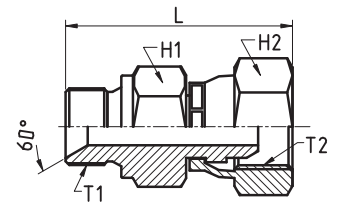


PART. REF.	THREADS		DIMENSIONS mm		
	T ₁ (BSPP)	T ₂ (BSPP)	L	H ₁	H ₂
A520505-04-04	1/4" - 19	1/4" - 19	36,0	14	19
A520505-06-06	3/8" - 19	3/8" - 19	42,0	19	22
A520505-08-08	1/2" - 14	1/2" - 14	48,5	22	27
A520505-12-12	3/4" - 14	3/4" - 14	57,0	27	32
A520505-16-16	1" - 11	1" - 11	64,5	35	41
A520505-20-20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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A520505D

STRAIGHT ADAPTOR BSP MALE PARALLEL 60° CONE SEAT
DIN PROFILE BSP FEMALE 60° CONE (ISO 228)

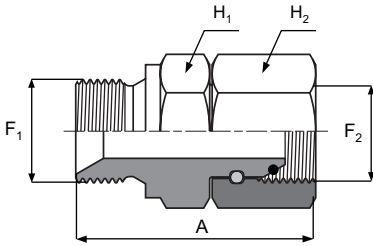


PART. REF.	THREADS		DIMENSIONS mm		
	T ₁ (BSPP)	T ₂ (BSPP)	L	H ₁	H ₂
A520505-02-02D	1/8"	1/8"	28,0	14	14
A520505-04-04D	1/4" - 19	1/4" - 19	38,0	19	19
A520505-04-06D	1/4" - 19	3/8" - 19	39,5	19	22
A520505-04-08D	1/4" - 19	1/2" - 14	42,0	22	27
A520505-06-04D	3/8" - 19	1/4" - 19	38,0	22	19
A520505-06-06D	3/8" - 19	3/8" - 19	40,5	22	22
A520505-06-08D	3/8" - 19	1/2" - 14	43,0	22	27
A520505-08-06D	1/2" - 14	3/8" - 19	43,5	27	22
A520505-08-08D	1/2" - 14	1/2" - 14	46,0	27	27
A520505-08-12D	1/2" - 14	3/4" - 14	51,0	27	32
A520505-10-10D	5/8" - 14	5/8" - 14	51,0	30	30
A520505-12-08D	3/4" - 14	1/2" - 14	49,0	32	27
A520505-12-12D	3/4" - 14	3/4" - 14	54,0	32	32
A520505-12-16D	3/4" - 14	1" - 11	55,0	35	41
A520505-16-12D	1" - 11	3/4" - 14	59,5	41	32
A520505-16-16D	1" - 11	1" - 11	64,0	41	41
A520505-20-20D	1.1/4" - 11	1.1/4" - 11	67,0	50	50
A520505-24-24D	1.1/2" - 11	1.1/2" - 11	78,0	55	55

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS



A520508

BSP MALE 60° CONE SEAT DIN PROFILE
BSP FEMALE 60° CONE WITH O'RING (ISO 228)

PART. REF.	THREADS	DIMENSIONS mm
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	F ₁ (BSP)	F ₂ (BSP)	A	H ₁	H ₂
A520508-02-02	1/8" - 28	1/8" - 28	28,0	14	14
A520508-04-04	1/4" - 19	1/4" - 19	38,0	19	19
A520508-04-06	1/4" - 19	3/8" - 19	39,5	19	22
A520508-04-08	1/4" - 19	1/2" - 14	42,0	22	27
A520508-06-04	3/8" - 19	1/4" - 19	38,0	22	19
A520508-06-06	3/8" - 19	3/8" - 19	40,5	22	22
A520508-06-08	3/8" - 19	1/2" - 14	43,0	22	27
A520508-08-06	1/4" - 19	3/8" - 19	43,5	27	22
A520508-08-08	1/2" - 14	1/2" - 14	46,0	27	27
A520508-08-12	1/2" - 14	3/4" - 14	51,0	27	32
A520508-10-10	5/8" - 14	5/8" - 14	51,0	30	30
A520508-12-08	3/4" - 14	1/2" - 14	49,0	32	27
A520508-12-12	3/4" - 14	3/4" - 14	54,0	32	32
A520508-12-16	3/4" - 14	1" - 11	55,0	35	41
A520508-16-12	1" - 11	3/4" - 14	59,5	41	32
A520508-16-16	1" - 11	1" - 11	64,0	41	41
A520508-16-20	1" - 11	1.1/4" - 11	62,0	41	50
A520508-20-20	1.1/4" - 11	1.1/4" - 11	67,0	50	50
A520508-24-24	1.1/2" - 11	1.1/2" - 11	78,0	55	55

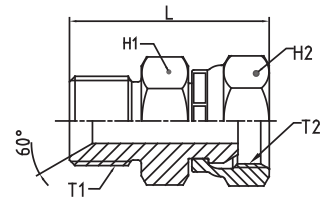
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS

A520528

STRAIGHT ADAPTOR BSP MALE 60° CONE SEAT (ISO 228)
NPSM SWIVEL FEMALE 60° CONE (SAE J514)

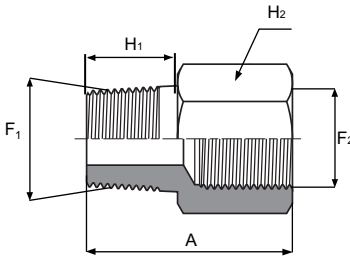


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (NPSM)	L	H ₁	H ₂	
A520528-06-06	3/8"-19	3/8"-18	40,5	19	22	
A520528-08-06	1/2"-14	3/8"-18	43,5	22	22	
A520528-08-08	1/2"-14	1/2"-14	46,0	22	27	
A520528-08-12	1/2"-14	3/4"-14	51,0	27	32	
A520528-16-08	1"-11	1/2"-14	57,0	35	27	
A520528-16-12	1"-11	3/4"-14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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS



A520704

BSP MALE TAPERED (ISO 7)
BSP FIXED FEMALE

PART. REF.	THREADS		DIMENSIONS mm		
	F1 (BSPT)	F2 (BSPP)	A	H1	H2
A520704-02-02	1/8" - 28	1/8" - 28	23,5	10,0	14
A520704-02-04	1/8" - 28	1/4" - 19	29,0	10,0	19
A520704-02-06	1/8" - 28	3/8" - 19	33,0	10,0	22
A520704-04-02	1/4" - 19	1/8" - 28	20,0	14,0	19
A520704-04-04	1/4" - 19	1/4" - 19	32,0	14,0	19
A520704-04-06	1/4" - 19	3/8" - 19	34,0	14,0	22
A520704-04-08	1/4" - 19	1/2" - 14	39,0	14,0	27
A520704-06-02	3/8" - 19	1/8" - 28	19,5	12,5	22
A520704-06-04	3/8" - 19	1/4" - 19	21,0	14,0	22
A520704-06-06	3/8" - 19	3/8" - 19	32,0	14,0	22
A520704-06-08	3/8" - 19	1/2" - 14	39,0	15,0	27
A520704-08-02	1/2" - 14	1/8" - 28	27,0	19,0	27
A520704-08-04	1/2" - 14	1/4" - 19	27,0	19,0	27
A520704-08-06	1/2" - 14	3/8" - 19	27,0	19,0	27
A520704-08-08	1/2" - 14	1/2" - 14	41,0	19,5	27
A520704-08-12	1/2" - 14	3/4" - 14	45,0	20,0	32
A520704-08-16	1/2" - 14	1" - 11	51,0	19,0	41
A520704-12-04	3/4" - 14	1/4" - 19	28,0	19,0	32
A520704-12-06	3/4" - 14	3/8" - 19	29,0	19,5	32
A520704-12-08	3/4" - 14	1/2" - 14	29,0	19,0	32
A520704-12-12	3/4" - 14	3/4" - 14	48,5	19,0	32
A520704-12-16	3/4" - 14	1" - 11	50,0	20,0	41
A520704-16-06	1" - 11	3/8" - 19	33,0	23,0	41
A520704-16-08	1" - 11	1/2" - 14	34,0	24,0	41
A520704-16-12	1" - 11	3/4" - 14	33,0	23,0	41
A520704-16-16	1" - 11	1" - 11	56,0	24,0	41
A520704-16-20	1" - 11	1.1/4" - 11	57,5	24,0	50
A520704-20-12	1.1/4" - 11	3/4" - 14	36,0	24,0	50
A520704-20-16	1.1/4" - 11	1" - 11	36,0	24,0	50
A520704-20-24	1.1/4" - 11	1.1/2" - 11	63,0	25,0	55
A520704-24-16	1.1/2" - 11	1" - 11	39,5	26,0	55
A520704-20-20	1.1/4" - 11	1.1/4" - 11	37,0	25,0	50
A520704-24-20	1.1/2" - 11	1.1/4" - 11	38,0	26,0	55
A520704-32-20	2" - 11	1.1/4" - 11	62,0	26,0	65
A520704-32-24	2" - 11	2" - 11	64,0	26,0	65

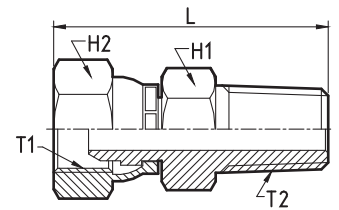
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS

A520705

STRAIGHT ADAPTOR BSP FEMALE 60° CONE (ISO 228)
BSP MALE TAPERED (ISO 7)

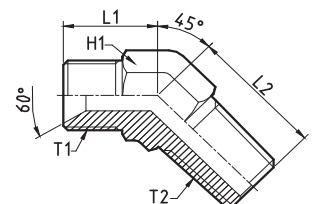


PART. REF.	THREADS		DIMENSIONS mm		
	T ₁ (BSPP)	T ₂ (BSPT)	L	H ₁	H ₂
A520705-04-04	1/4" - 19	1/4" - 19	37,0	14	19
A520705-06-06	3/8" - 19	3/8" - 19	43,0	19	22
A520705-06-08	3/8" - 19	1/2" - 14	46,0	22	27
A520705-08-06	1/2" - 14	3/8" - 19	46,0	22	22
A520705-08-08	1/2" - 14	1/2" - 14	49,0	22	27
A520705-12-12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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A530507

45° ELBOW ADAPTOR BSP MALE PARALLEL
60° CONE SEAT (ISO 228) - BSP MALE TAPERED (ISO 7)

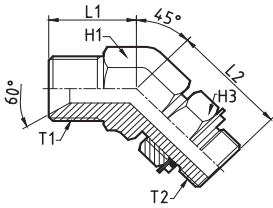


PART. REF.	THREADS		DIMENSIONS mm		
	T ₁ (BSPP)	T ₂ (BSPT)	L ₁	L ₂	H ₁
A530507-04-04	1/4" - 19	1/4" - 19	21,0	21,0	14
A530507-06-06	3/8" - 19	3/8" - 19	25,0	26,0	19
A530507-08-08	1/2" - 14	1/2" - 14	28,0	31,0	22
A530507-12-12	3/4" - 14	3/4" - 14	33,0	31,5	27
A530507-16-16	1" - 11	1" - 11	38,0	41,0	35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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS



A530509

45° ELBOW ADJUSTABLE ADAPTOR BSP MALE PARALLEL
60° CONE SEAT (ISO 228) - BSP MALE O-RING BOSS TYPE (ISO 1179-3)

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

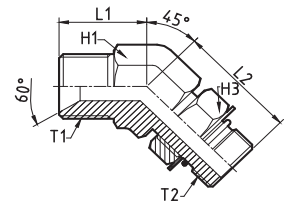
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS

A530531

45° ELBOW ADJUSTABLE ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228)SAE MALE O-RING BOSS TYPE (SAE J1926)

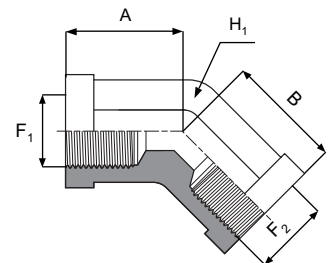


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (UNF)	L ₁	L ₂	H ₁	H ₃
A530531-04-06	1/4" - 19	9/16" - 18	21,0	28,0	14	19
A530531-06-08	3/8" - 19	3/4" - 16	25,0	33,0	19	24
A530531-08-10	1/2" - 14	7/8" - 14	28,0	38,5	22	27
A530531-12-12	3/4" - 14	1.1/16" - 12	33,0	43,0	27	32
A530531-16-16	1" - 11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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A540404

DOUBLE BSP FIXED FEMALE, 45° ELBOW

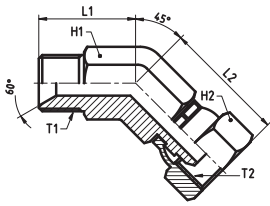


PART. REF.	THREADS		DIMENSIONS mm		
	F ₁ (BSP)	F ₂ (BSP)	A	B	H ₁
A540404-06-06	3/8" - 19	3/8" - 19	22,0	22,0	19
A540404-08-08	1/2" - 14	1/2" - 14	26,0	26,0	22

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS



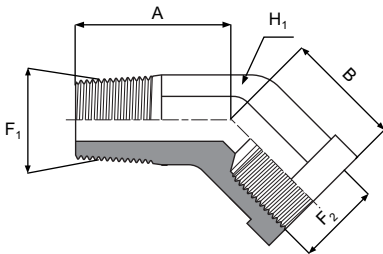
A550505

45° ELBOW ADAPTOR BSP MALE PARALLEL 60° CONE SEAT
BSP FEMALE 60° CONE (ISO 228)

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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A550704

BSP MALE TAPERED (ISO 7)
BSP FIXED FEMALE, 45° ELBOW

PART. REF.	THREADS	DIMENSIONS mm
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	F ₁ (BSPT)	F ₂ (BSPP)	A	B	H ₁
A550704-04-04	1/4" - 19	1/4" - 19	21,0	16,0	19
A550704-06-06	3/8" - 19	3/8" - 19	27,0	22,0	22
A550704-12-12	3/4" - 14	3/4" - 14	35,0	29,5	34

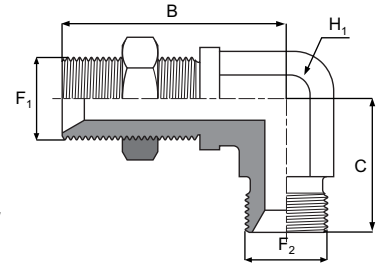
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS

A560504

BSP MALE 60° CONE SEAT PARALLEL - BSP BULKHEAD MALE (ISO 228),
90° ELBOW

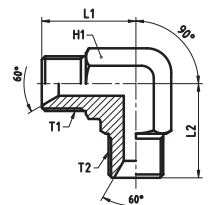


PART. REF.	THREADS		DIMENSIONS mm			
	F ₁ (BSPP)	F ₂ (BSPP)	A	B	H ₁	H ₂
A560504-02-02	1/8" - 28	1/8" - 28	20,0	41,0	14	14
A560504-04-04	1/4" - 19	1/4" - 19	25,0	45,0	14	22
A560504-06-06	3/8" - 19	3/8" - 19	30,0	52,0	19	22
A560504-08-08	1/2" - 14	1/2" - 14	35,0	50,0	22	27
A560504-10-10	5/8" - 14	5/8" - 14	37,0	58,0	22	27
A560504-12-12	3/4" - 14	3/4" - 14	40,0	65,0	27	32
A560504-16-16	1" - 11	1" - 11	45,0	71,0	35	41
A560505-20-20	1.1/4" - 11	1.1/4" - 11	51,0	80,0	41	50
A560504-24-24	1.1/2" - 11	1.1/2" - 11	54,0	92,0	50	55

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A560505

90° ELBOW ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228)

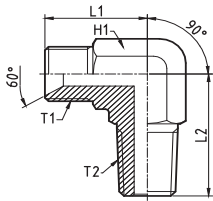


PART. REF.	THREADS		DIMENSIONS mm		
	T ₁ (BSPP)	T ₂ (BSPP)	L ₁	L ₂	H ₁
A560505-04-04	1/4" - 19	1/4" - 19	25,0	25,0	14
A560505-06-06	3/8" - 19	3/8" - 19	29,0	29,0	19
A560505-08-08	1/2" - 14	1/2" - 14	33,0	33,0	22
A560505-12-12	3/4" - 14	3/4" - 14	38,0	38,0	27
A560505-16-16	1" - 11	1" - 11	45,0	45,0	35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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS

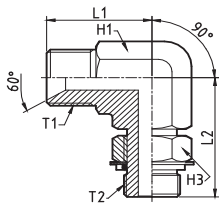


A560507

90° ELBOW ADAPTOR BSP MALE PARALLEL 60° CONE SEAT (ISO 228)
BSP MALE TAPERED (ISO 7)

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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A560509

90° ELBOW ADJUSTABLE ADAPTOR BSP MALE PARALLEL
60° CONE SEAT (ISO 228) - BSP MALE O-RING BOSS TYPE (ISO 1179-3)

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

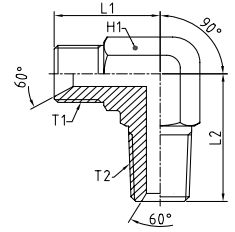
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS

A560528

90° ELBOW ADAPTOR BSP MALE PARALLEL 60° CONE SEAT
(ISO 228) NPTF MALE 60° CONE SEAT (SAE J514)

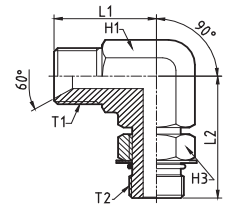


PART. REF.	THREADS		DIMENSIONS mm			
	T1 (BSPP)	T2 (NPTF)	L1	L2	H1	
A560528-04-04	1/4"-19	1/4"-18	26,0	28,0	14	
A560528-06-06	3/8"-19	3/8"-18	29,0	31,0	19	
A560528-08-08	1/2"-14	1/2"-14	34,0	37,5	22	
A560528-12-12	3/4"-14	3/4"-14	41,0	40,0	27	
A560528-16-16	1"-11	1"-11,5	45,0	50,0	33	
A560528-20-20	1.1/4"-11	1.1/4"-11,5	52,0	60,0	41	

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A560531

90° ELBOW ADJUSTABLE ADAPTOR BSP MALE PARALLEL 60°
CONE SEAT (ISO 228) SAE MALE O-RING BOSS TYPE (SAE J1926)

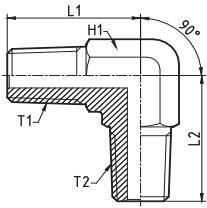


PART. REF.	THREADS		DIMENSIONS mm			
	T1 (BSPP)	T2 (UNF)	L1	L2	H1	H3
A560531-04-06	1/4" - 19	9/16" - 18	25,0	31,5	14	19
A560531-06-08	3/8" - 19	3/4" - 16	29,0	36,5	19	24
A560531-08-10	1/2" - 14	7/8" - 14	33,0	43,0	22	27
A560531-12-12	3/4" - 14	1.1/16" - 12	38,0	49,0	27	32
A560531-16-16	1" - 11	1.5/16" - 12	45,0	52,0	35	38
A560531-20-20	1.1/4" - 11	1.5/8" - 12	52,0	57,0	41	50

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS

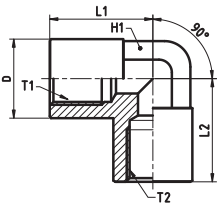


A560707

90° ELBOW ADAPTOR BSP MALE TAPERED (ISO 7)

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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A570404

90° ELBOW ADAPTOR BSP FIXED FEMALE

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L ₁	L ₂	D	H ₁
A570404-02-02	1/8" - 28	1/8" - 28	22,5	22,5	19	17
A570404-04-04	1/4" - 19	1/4" - 19	22,5	22,5	24,0	21
A570404-06-06	3/8" - 19	3/8" - 19	26,0	26,0	28,0	25
A570404-08-08	1/2" - 14	1/2" - 14	28,5	28,5	33,0	30
A570404-12-12	3/4" - 14	3/4" - 14	33,0	33,0	40,0	37
A570404-16-16	1" - 11	1" - 11	38,5	38,5	47,0	43
A570404-20-20	1.1/4" - 11	1.1/4" - 11	46,0	46,0	56,0	52
A570404-24-24	1.1/2" - 11	1.1/2" - 11	49,0	49,0	63,0	59

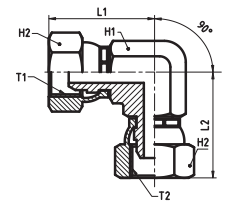
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS

A570505

90° ELBOW ADAPTOR BSP FEMALE 60° CONE (ISO 228)

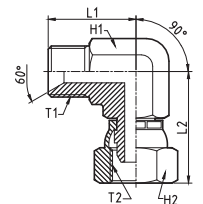


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L ₁	L ₂	H ₁	H ₂
A570505-04-04	1/4" - 19	1/4" - 19	28,0	28,0	14	19
A570505-06-06	3/8" - 19	3/8" - 19	31,0	31,0	19	22
A570505-08-08	1/2" - 14	1/2" - 14	37,0	37,0	24	27
A570505-12-12	3/4" - 14	3/4" - 14	45,0	45,0	27	32
A570505-16-16	1" - 11	1"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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A580505

90° ELBOW ADAPTOR BSP MALE PARALLEL 60° CONE SEAT
BSP FEMALE 60° CONE (ISO 228)

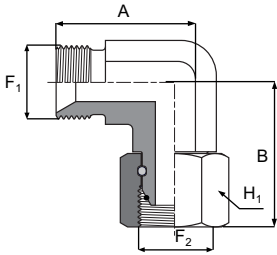


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L ₁	L ₂	H ₁	H ₂
A580505-04-04	1/4" - 19	1/4" - 19	25,0	28,0	14	19
A580505-06-06	3/8" - 19	3/8" - 19	29,0	31,0	19	22
A580505-08-08	1/2" - 14	1/2" - 14	33,0	37,0	22	27
A580505-12-12	3/4" - 14	3/4" - 14	38,0	45,0	27	32
A580505-16-16	1" - 11	1"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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS



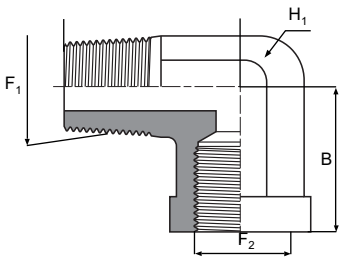
A580508

BSP MALE 60° CONE SEAT
BSP FEMALE 60° CONE WITH O'RING (ISO 228), 90° ELBOW

PART. REF.	THREADS	DIMENSIONS mm
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	F ₁ (BSP)	F ₂ (BSP)	A	B	H ₁
A580508-04-04	1/4" - 19	1/4" - 19	26,0	33,0	19
A580508-06-06	3/8" - 19	3/8" - 19	29,0	31,0	22
A580508-08-08	1/2" - 14	1/2" - 14	34,0	43,0	27
A580508-12-12	3/4" - 14	3/4" - 14	41,0	53,5	32
A580508-16-16	1" - 11	1" - 11	50,0	51,5	41
A580508-20-20	1.1/4" - 11	1.1/4" - 11	52,0	57,0	50
A580508-24-24	1.1/2" - 11	1.1/2" - 11	59,0	64,0	55

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A580704

BSP MALE TAPERED (ISO 7)
BSP FIXED FEMALE, 90° ELBOW

PART. REF.	THREADS	DIMENSIONS mm
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	F ₁ (BSPT)	F ₂ (BSP)	A	B	H ₁
A580704-02-02	1/8" - 28	1/8" - 28	20,0	17,0	14
A580704-04-04	1/4" - 19	1/4" - 19	28,0	22,5	23
A580704-06-06	3/8" - 19	3/8" - 19	31,0	26,0	26
A580704-08-08	1/2" - 14	1/2" - 14	37,5	31,0	31
A580704-12-12	3/4" - 14	3/4" - 14	40,0	34,5	35
A580704-16-16	1" - 11	1" - 11	50,0	41,0	41

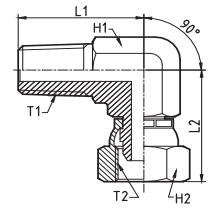
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS

A580705

90° ELBOW ADAPTOR BSP MALE TAPERED (ISO 7)
BSP FEMALE 60° CONE (ISO 228)

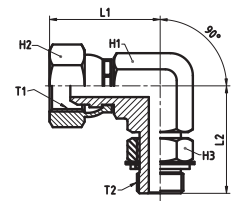


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPT)	T ₂ (BSPP)	L ₁	L ₂	H ₁	H ₂
A580705-04-04	1/4" - 19	1/4" - 19	27,0	28,0	14	19
A580705-06-06	3/8" - 19	3/8" - 19	31,0	31,0	19	22
A580705-08-08	1/2" - 14	1/2" - 14	37,0	37,0	22	27
A580705-12-12	3/4" - 14	3/4" - 14	40,5	45,0	27	32
A580705-16-16	1" - 11	1"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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A580905

90° ELBOW ADJUSTABLE ADAPTOR BSP MALE OR BOSS (ISO 1179)
BSP FEMALE 60° CONE (ISO 228)

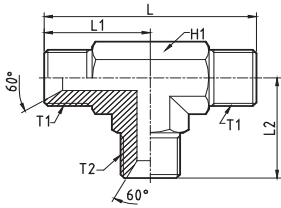


PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (BSPP)	T ₂ (BSPP)	L ₁	L ₂	H ₁	H ₂	H ₃
A580905-04-04	1/4" - 19	1/4" - 19	28,0	32,0	14	19	19
A580905-06-06	3/8" - 19	3/8" - 19	31,0	37,0	19	22	22
A580905-08-08	1/2" - 14	1/2" - 14	37,0	43,0	22	27	27
A580905-12-12	3/4" - 14	3/4" - 14	45,0	49,0	27	32	32
A580905-16-16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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS

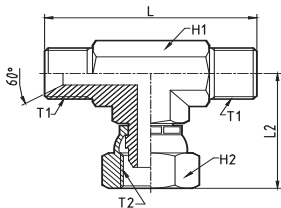


A700505

UNION TEE BSP MALE 60° CONE SEAT (ISO 228)

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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A710505

BRANCH TEE BSP MALE 60° CONE SEAT
BSP FEMALE 60° CONE (ISO 228)

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

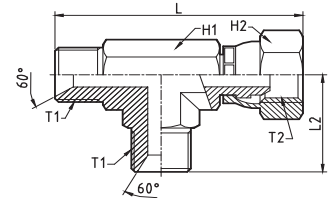
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS

A720505

RUN TEE BSP MALE 60° CONE SEAT
BSP FEMALE 60° CONE (ISO 228)

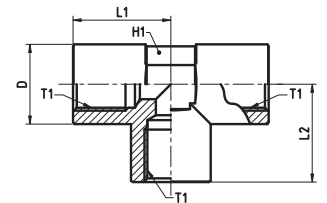


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L	L ₂	H ₁	H ₂
A720505-04-04	1/4" - 19	1/4" - 19	53,0	25,0	14	19
A720505-06-06	3/8" - 19	3/8" - 19	60,0	29,0	19	22
A720505-08-08	1/2" - 14	1/2" - 14	70,0	33,0	22	27
A720505-12-12	3/4" - 14	3/4" - 14	83,0	38,0	27	32
A720505-16-16	1" - 11	1" -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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A730404

UNION TEE BSP FIXED FEMALE

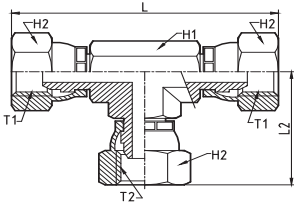


PART. REF.	THREADS	DIMENSIONS mm			
		L ₁	L ₂	D	H ₁
A730404-02-02	1/8" - 28	22,0	22,0	16,0	17
A730404-04-04	1/4" - 19	22,0	22,0	24,0	19
A730404-06-06	3/8" - 19	25,0	25,0	27,0	24
A730404-08-08	1/2" - 14	28,5	28,5	33,0	30
A730404-12-12	3/4" - 14	32,5	32,5	39,0	36
A730404-16-16	1" - 11	36,5	36,5	47,0	43
A730404-20-20	1.1/4" - 11	44,0	44,0	56,0	52
A730404-24-24	1.1/2" - 11	49,0	49,0	63,0	58

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS



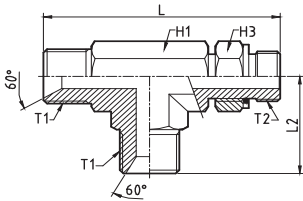
A730505

UNION TEE BSP FEMALE 60° CONE (ISO 228)

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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A760509

RUN TEE ADJUSTABLE BSP MALE 60° CONE SEAT (ISO 228)
BSP MALE O-RING BOSS TYPE (ISO 1179-3)

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

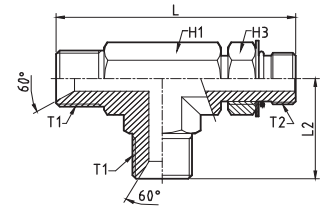
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS

A760531

RUN TEE ADJUSTABLE BSP MALE 60° CONE SEAT (ISO 228)
SAE MALE O-RING BOSS TYPE (SAE J1926)

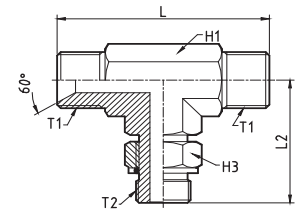


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (UNF)	L	L ₂	H ₁	H ₃
A760531-04-04	1/4" - 19	7/16" - 20	51,0	25,0	14	16
A760531-06-06	3/8" - 19	9/16" - 18	63,5	29,0	19	19
A760531-08-08	1/2" - 14	3/4" - 16	72,5	33,0	22	24
A760531-08-10	1/2" - 14	7/8" - 14	76,0	33,0	22	27
A760531-12-10	3/4" - 14	7/8"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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A780509

BRANCH TEE ADJUSTABLE BSP MALE 60° CONE SEAT (ISO 228)
BSP MALE O-RING BOSS TYPE (ISO 1179-3)

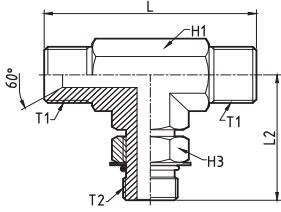


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (BSPP)	T ₂ (BSPP)	L	L ₂	H ₁	H ₃
A780509-04-04	1/4" - 19	1/4" - 19	50,0	31,5	14	19
A780509-06-06	3/8" - 19	3/8" - 19	58,0	36,5	19	22
A780509-08-08	1/2" - 14	1/2" - 14	66,0	43,0	22	27
A780509-12-12	3/4" - 14	3/4" - 14	76,0	49,0	27	32
A780509-16-16	1" - 11	1" -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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BSP ADAPTORS



A780531

BRANCH TEE ADJUSTABLE BSP MALE 60° CONE SEAT (ISO 228)
SAE MALE O-RING BOSS TYPE (SAE J1926)

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

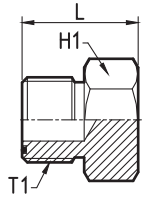
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

ORFS ADAPTORS

A402400

MALE PLUG ORFS (SAE J1453)

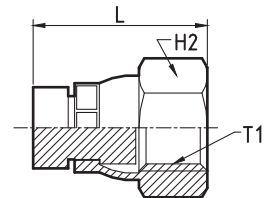


PART. REF.	THREADS	DIMENSIONS mm	
	T ₁ (UNF/S-UN)	L	H ₁
A402400-04	9/16" - 18	16,5	16
A402400-06	11/16" - 16	19,5	19
A402400-08	13/16" - 16	21,0	22
A402400-10	1" - 14	23,5	27
A402400-12	1.3/16" - 12	29,0	32
A402400-16	1.7/16" - 12	31,5	38
A402400-20	1.11/16" - 12	31,5	46
A402400-24	2" - 12	31,5	55

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A412400

FEMALE PLUG ORFS (SAE J1453)

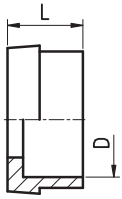


PART. REF.	THREADS	DIMENSIONS mm	
	T ₁ (UNF/S-UN)	L	H ₂
A412400-04	9/16" - 18	23,0	19
A412400-06	11/16" - 16	28,0	22
A412400-08	13/16" - 16	31,0	24
A412400-10	1" - 14	36,0	30
A412400-12	1.3/16" - 12	39,0	36
A412400-16	1.7/16" - 12	43,0	41
A412400-20	1.11/16" - 12	44,0	50
A412400-24	2" - 12	48,0	60

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

ORFS ADAPTORS

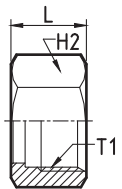


A422400

SLEEVE ORFS (SAE J1453)

PART. REF.	O.D. PIPE mm	THREADS	DIMENSIONS mm
	D	T₁ (UNF/S-UN)	L
A422400-06-04	6	9/16" - 18	9,5
A422400-10-06	10	11/16" - 16	9,5
A422400-12-08	12	13/16" - 16	9,5
A422400-16-10	16	1" - 14	10,5
A422400-20-12	20	1.3/16" - 12	14,0
A422400-25-16	25	1.7/16" - 12	15,5
A422400-30-20	30	1.11/16" - 12	15,5
A422400-38-24	35	2" - 12	15,5

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A432400

NUT ORFS (SAE J1453)

PART. REF.	O.D. PIPE mm	THREADS	DIMENSIONS mm	
		T₁ (UNF/S-UN)	L	H₂
A432400-06-04	6	9/16" - 18	14,5	17
A432400-10-06	10	11/16" - 16	17,0	22
A432400-12-08	12	13/16" - 16	21,0	24
A432400-16-10	16	1" - 14	23,5	30
A432400-20-12	20	1.3/16" - 12	26,0	36
A432400-25-16	25	1.7/16" - 12	27,0	41
A432400-30-20	30	1.11/16" - 12	28,0	50,
A432400-38-24	38	2" - 12	28,0	60

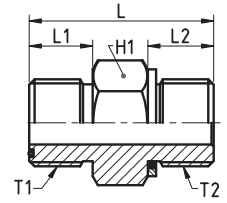
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

ORFS ADAPTORS

A502403

STRAIGHT ADAPTOR ORFS MALE (SAE J1453)
BSP OR BOSS MALE (ISO 1179)

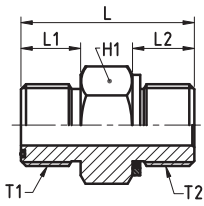


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (BSPP)	L	L ₁	L ₂	H ₁
A502403-04-04	9/16" - 18	1/4" - 19	30,0	10,0	12,0	19
A502403-04-06	9/16" - 18	3/8" - 19	31,0	10,0	12,0	22
A502403-06-04	11/16" - 16	1/4" - 19	32,5	11,0	12,0	19
A502403-06-06	11/16" - 16	3/8" - 19	32,5	11,0	12,0	22
A502403-06-08	11/16" - 16	1/2" - 14	35,5	11,0	14,0	27
A502403-08-06	13/16" - 16	3/8" - 19	34,5	13,0	12,0	22
A502403-08-08	13/16" - 16	1/2" - 14	37,0	13,0	14,0	27
A502403-08-12	13/16" - 16	3/4" - 14	41,0	13,0	16,0	32
A502403-10-08	1" - 14	1/2" - 14	39,5	15,5	14,0	27
A502403-10-12	1" - 14	3/4" - 14	43,5	15,5	16,0	32
A502403-12-12	1.3/16" - 12	3/4" - 14	45,0	17,0	16,0	32
A502403-12-16	1.3/16" - 12	1" - 11	49,0	17,0	18,0	41
A502403-16-16	1.7/16" - 12	1" - 11	50,0	17,5	18,0	41
A502403-16-20	1.7/16" - 12	1.1/4" - 11	54,0	17,5	20,0	50
A502403-20-20	1.11/16" - 12	1.1/4" - 11	51,5	17,5	20,0	55
A502403-24-24	2" - 12	1.1/2" - 11	55,5	17,5	22,0	60

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

ORFS ADAPTORS



A502419

STRAIGHT ADAPTOR ORFS MALE (SAE J1453)
METRIC MALE (ISO 6149)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (METRIC)	L	L ₁	L ₂	H ₁
A502419-04-10	9/16" - 18	10 x 1	26,0	10,0	9,0	17
A502419-04-12	9/16" - 18	12 x 1,5	28,0	10,0	11,0	17
A502419-06-14	11/16" - 16	14 x 1,5	31,0	11,0	11,0	19
A502419-06-16	11/16" - 16	16 x 1,5	33,0	11,0	12,5	22
A502419-08-18	13/16" - 16	18 x 1,5	36,0	13,0	14,0	24
A502419-08-22	13/16" - 16	22 x 1,5	38,0	13,0	15,0	27
A502419-10-22	1" - 14	22 x 1,5	40,5	15,5	15,0	27
A502419-10-27	1" - 14	27 x 2	46,0	15,5	18,5	32
A502419-12-27	1.3/16" - 12	27 x 2	47,5	17,0	18,5	32
A502419-12-33	1.3/16" - 12	33 x 2	49,0	17,0	18,5	41
A502419-16-33	1.7/16" - 12	33 x 2	50,0	17,5	18,5	41
A502419-16-42	1.7/16" - 12	42 x 2	52,0	17,5	19,0	50
A502419-20-42	1.11/16" - 12	42 x 2	52,0	17,5	19,0	50
A502419-20-48	1.11/16" - 12	48 x 2	56,0	17,5	22,0	55
A502419-24-48	2" - 12	48 x 2	55,5	17,5	22,0	60

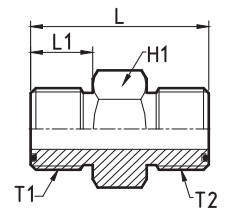
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

ORFS ADAPTORS

A502424

STRAIGHT ADAPTOR ORFS MALE (SAE J1453)

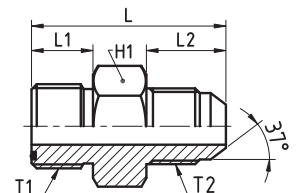


PART. REF.	THREADS		DIMENSIONS mm		
	T ₁ (UNF/S-UN)	T ₂ (UNF/S-UN)	L	L ₁	H ₁
A502424-04-04	9/16" - 18	9/16" - 18	27,5	10,0	16
A502424-06-06	11/16" - 16	11/16" - 16	31,0	11,0	19
A502424-08-08	13/16" - 16	13/16" - 16	35,5	13,0	22
A502424-08-10	1" - 14	13/16" - 16	37,0	15,5	22
A502424-10-10	1" - 14	1" - 14	42,5	15,5	27
A502424-10-12	1.3/16" - 12	1" - 14	44,0	17,0	32
A502424-12-12	1.3/16" - 12	1.3/16" - 12	47,0	17,0	32
A502424-12-16	1.7/16" - 12	1.3/16" - 12	48,0	17,5	38
A502424-16-16	1.7/16" - 12	1.7/16" - 12	49,0	17,5	38
A502424-16-20	1.11/16" - 12	1.7/16" - 12	50,0	17,5	50
A502424-20-20	1.11/16" - 12	1.11/16" - 12	51,5	17,5	46
A502424-24-24	2" - 12	2" - 12	53,0	17,5	55

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A502425

STRAIGHT ADAPTOR ORFS MALE (SAE J1453)
JIC MALE 74° CONE (SAE J514)

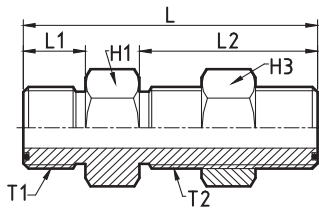


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (UNF)	L	L ₁	L ₂	H ₁
A502425-04-04	9/16" - 18	7/16" - 20	32,5	10,0	15,0	17
A502425-06-06	11/16" - 16	9/16" - 18	35,5	11,0	16,0	19
A502425-08-08	13/16" - 16	3/4" - 16	40,5	13,0	18,0	22
A502425-10-10	1" - 14	7/8" - 14	47,0	15,5	21,0	27
A502425-12-12	1.3/16" - 12	1.1/16" - 12	52,5	17,0	24,0	32
A502425-16-16	1.7/16" - 12	1.5/16" - 12	56,0	17,5	25,0	41
A502425-20-20	1.11/16" - 12	1.5/8" - 12	60,0	17,5	28,0	46

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

ORFS ADAPTORS

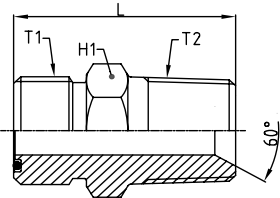


A502427

STRAIGHT BULKHEAD ADAPTOR ORFS MALE (SAE J1453)

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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A502428

STRAIGHT ADAPTOR ORFS MALE (SAE J1453)
NPTF MALE 60° CONE SEAT (SAE J514)

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

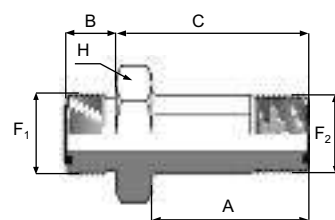
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

ORFS ADAPTORS

A502429

ORFS MALE - ORFS LONG TYPE MALE (SAE J1453)

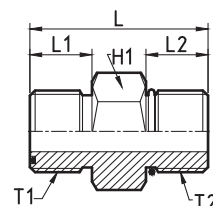


PART. REF.	THREADS		DIMENSIONS mm			
	F ₁ (UNF/S-UN)	F ₂ (UNF/S-UN)	A	B	C	H
A502429-04-04	9/16" - 18	9/16" - 18	48,0	10,0	31,5	22
A502429-06-06	11/16" - 16	11/16" - 16	53,0	11,0	34,0	27
A502429-08-08	13/16" - 16	13/16" - 16	58,0	13,0	36,5	30
A502429-10-10	1" - 14	1" - 14	66,5	15,5	40,5	32
A502429-12-12	1.3/16" - 12	1.3/16" - 12	69,0	17,0	41,5	38
A502429-16-16	1.7/16" - 12	1.7/16" - 12	70,0	17,5	42,0	46
A502429-20-20	1.11/16" - 12	1.11/16" - 12	70,0	17,5	42,0	50
A502429-24-24	2" - 12	2" - 12	70,0	17,5	42,0	55

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A502430

STRAIGHT ADAPTOR ORFS MALE (SAE J1453)
SAE MALE O-RING BOSS TYPE (SAE J1926)

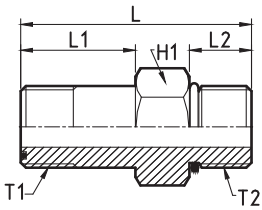


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (UNF)	L	L ₁	L ₂	H ₁
A502430-04-04	9/16" - 18	7/16" - 20	28,5	10,0	9,5	16
A502430-04-06	9/16" - 18	9/16" - 18	30,5	10,0	12,0	19
A502430-06-06	11/16" - 16	9/16" - 18	32,0	11,0	10,0	19
A502430-06-08	11/16" - 16	3/4" - 16	35,0	11,0	14,0	22
A502430-08-06	13/16" - 16	9/16" - 18	37,5	13,0	12,0	22
A502430-08-08	13/16" - 16	3/4" - 16	36,5	13,0	11,5	22
A502430-08-10	13/16" - 16	7/8" - 14	40,5	13,0	16,0	22
A502430-10-08	1" - 14	3/4" - 16	45,0	15,5	14,0	27
A502430-10-10	1" - 14	7/8" - 14	43,0	15,5	13,0	27
A502430-12-12	1.3/16" - 12	1.1/16" - 12	48,5	17,0	15,5	32
A502430-12-16	1.3/16" - 12	1.5/16" - 12	50,0	17,0	18,5	38
A502430-16-12	1.7/16" - 12	1.1/16" - 12	54,0	17,5	18,0	38
A502430-16-16	1.7/16" - 12	1.5/16" - 12	50,5	17,5	15,5	38
A502430-16-20	1.7/16" - 12	1.5/8" - 12	52,0	17,5	18,5	50
A502430-20-20	1.11/16" - 12	1.5/8" - 12	52,5	17,5	15,5	50
A502430-24-24	2" - 12	1.7/8" - 12	54,0	17,5	15,5	55

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

ORFS ADAPTORS

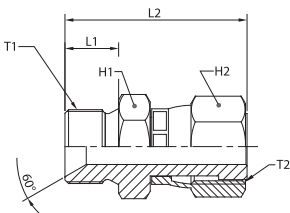


A502930

STRAIGHT ADAPTOR LONG ORFS MALE (SAE J1453)
SAE MALE O-RING BOSS TYPE (SAE J1926)

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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A520524

BSP MALE 60° CONE SEAT DIN PROFILE (BS5200 / ISO 8434-6)
ORFS SWIVEL FEMALE (SAE J1453 / ISO 8434-3)

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

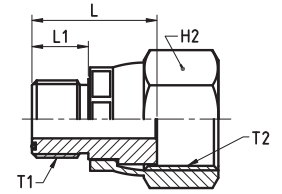
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

ORFS ADAPTORS

A522424

STRAIGHT ADAPTOR ORFS MALE ORFS SWIVEL FEMALE (SAE J1453)

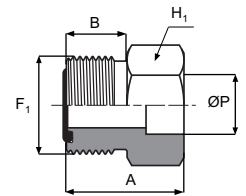


PART. REF.	THREADS		DIMENSIONS mm		
	T ₁ (UNF/S-UN)	T ₂ (UNF/S-UN)	L	L ₁	H ₂
A522424-04-06	9/16" - 18	11/16" - 16	20,0	10,0	22
A522424-04-08	9/16" - 18	13/16" - 16	22,0	10,0	24
A522424-06-08	11/16" - 16	13/16" - 16	23,0	11,0	24
A522424-06-10	11/16" - 16	1" - 14	24,0	11,0	30
A522424-08-10	13/16" - 16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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A522495

ORFS MALE (SAE J1453) WITH BRAZING SOCKET



PART. REF.	THREADS	DIMENSIONS mm			
	F ₁ (UNF/S-UN)	A	B	ØP	H ₁
A522495-04-06	9/16" - 18	22,5	10,0	6,0	17
A522495-04-10	9/16" - 18	22,5	10,0	10,0	17
A522495-06-10	11/16" - 16	24,0	11,0	10,0	19
A522495-06-12	11/16" - 16	24,0	11,0	12,0	19
A522495-08-12	13/16" - 16	25,5	13,0	12,0	22
A522495-08-16	13/16" - 16	25,5	13,0	16,0	22
A522495-10-16	1" - 14	30,0	15,5	16,0	27
A522495-10-18	1" - 14	34,0	15,5	18,0	27
A522495-12-18	1.3/16" - 12	35,5	17,0	18,0	32
A522495-12-20	1.3/16" - 12	35,5	17,0	20,0	32
A522495-12-25	1.3/16" - 12	39,5	17,0	25,0	32
A522495-16-25	1.7/16" - 12	40,0	17,5	25,0	41
A522495-16-32	1.7/16" - 12	40,0	17,5	32,0	41
A522495-20-32	1.11/16" - 12	40,0	17,5	32,0	46
A522495-20-38	1.11/16" - 12	40,0	17,5	38,0	46
A522495-24-38	2" - 12	40,0	17,5	38,0	55

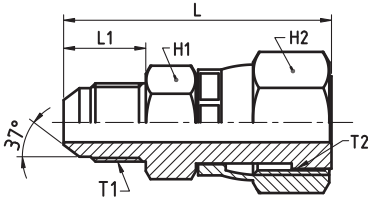
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

ORFS ADAPTORS

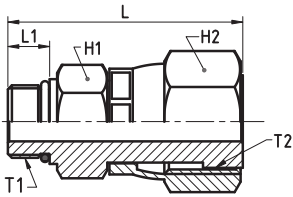
A522524

STRAIGHT ADAPTOR JIC MALE 74° CONE (SAE J514)
ORFS FEMALE (SAE J1453)



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

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A523024

STRAIGHT ADAPTOR SAE OR BOSS MALE (SAE J1926)
ORFS FEMALE (SAE J1453)

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

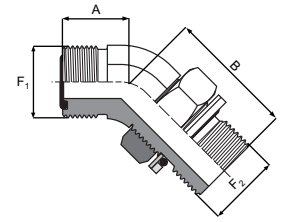
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

ORFS ADAPTORS

A532409

ORFS MALE (SAE J1453)
BSP MALE O'RING BOSS TYPE (ISO 1179-3), 45° ELBOW

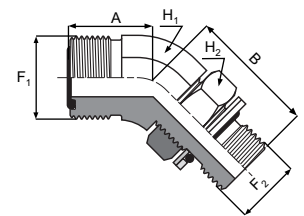


PART. REF.	THREADS	DIMENSIONS mm				
	F₁ (UNF)	F₂ (BSPP)	A	B	H₁	H₂
A532409-04-02	9/16" - 18	1/8" - 28	16,0	28,0	14	14
A532409-04-04	9/16" - 18	1/4" - 19	17,5	31,0	14	19
A532409-10-08	1" - 14	1/2" - 14	23,5	42,0	27	27
A532409-10-12	1" - 14	3/4" - 14	24,5	46,5	35	32
A532409-24-24	2" - 12	1.1/2" - 11	37,0	53,5	41	55

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A532419

ORFS MALE (SAE J1453)
METRIC ADJUSTABLE MALE (ISO 6149), 45° ELBOW

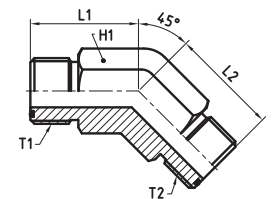


PART. REF.	THREADS	DIMENSIONS mm				
	F₁ (UNF/S-UN)	F₂ (METRIC)	A	B	H₁	H₂
A532419-04-12	9/16" - 18	M12x1,5	16,0	30,0	14	14
A532419-06-16	11/16" - 16	M16x1,5	19,0	33,0	19	19
A532419-08-18	13/16" - 16	M18x1,5	20,5	36,5	19	19
A532419-10-22	1" - 14	M22x1,5	23,5	45,0	27	27
A532419-24-48	2" - 12	M48x2,0	37,0	53,5	48	48

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A532424

45° ELBOW ADAPTOR ORFS MALE (SAE J1453)

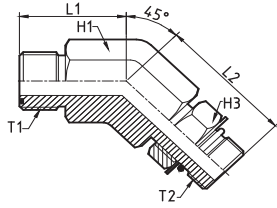


PART. REF.	THREADS	DIMENSIONS mm			
	T₁ (UNF/S-UN)	T₂ (UNF/S-UN)	L₁	L₂	H₁
A532424-04-04	9/16" - 18	9/16" - 18	16,0	16,0	14
A532424-06-06	11/16" - 16	11/16" - 16	20,0	20,0	19
A532424-08-08	13/16" - 16	13/16" - 16	22,0	22,0	19
A532424-10-10	1" - 14	1" - 14	26,0	26,0	27
A532424-12-12	1.3/16" - 12	1.3/16" - 12	31,0	31,0	35
A532424-16-16	1.7/16" - 12	1.7/16" - 12	34,0	34,0	44
A532424-20-20	1.11/16" - 12	1.11/16" - 12	34,0	34,0	44

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

ORFS ADAPTORS

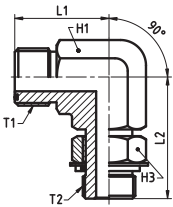


A532431

45° ELBOW ADJUSTABLE ADAPTOR ORFS MALE (SAE J1453)
SAE MALE O-RING BOSS TYPE (SAE J1926)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (UNF)	L ₁	L ₂	H ₁	H ₃
A532431-04-04	9/16" - 18	7/16" - 20	16,0	26,5	14	16
A532431-06-06	11/16" - 16	9/16" - 18	19,0	33,0	19	19
A532431-08-08	13/16" - 16	3/4" - 16	20,5	36,5	19	24
A532431-10-10	1" - 14	7/8" - 14	23,5	43,0	27	27
A532431-12-12	1.3/16" - 12	1.1/16" - 12	29,0	46,0	35	32
A532431-16-16	1.7/16" - 12	1.5/16" - 12	30,0	47,0	35	38
A532431-20-20	1.11/16" - 12	1.5/8" - 12	32,0	48,5	44	50

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A562409

90° ELBOW ADJUSTABLE ADAPTOR ORFS MALE (SAE J1453)
BSP OR BOSS MALE (ISO 1179)

PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (BSP)	L ₁	L ₂	H ₁	H ₃
A562409-04-04	9/16" - 18	1/4" - 19	21,5	32,0	14	19
A562409-04-06	9/16" - 18	3/8" - 19	23,5	36,5	19	22
A562409-06-04	11/16" - 16	1/4" - 19	25,0	32,0	19	19
A562409-06-06	11/16" - 16	3/8" - 19	25,0	36,5	19	22,
A562409-06-08	11/16" - 16	1/2" - 14	27,0	43,0	22	27
A562409-08-06	13/16" - 16	3/8" - 19	28,0	36,5	19	22
A562409-08-08	13/16" - 16	1/2" - 14	28,0	43,0	22	27
A562409-08-12	13/16" - 16	3/4" - 14	33,5	48,0	30	32
A562409-10-08	1" - 14	1/2" - 14	33,5	48,0	27	27
A562409-10-12	1" - 14	3/4" - 14	33,5	48,0	27	32
A562409-12-12	1.3/16" - 12	3/4" - 14	37,5	48,0	30	32
A562409-12-16	1.3/16" - 12	1" - 11	38,0	56,0	33	41
A562409-16-16	1.7/16" - 12	1" - 11	41,5	56,0	36	41
A562409-20-20	1.11/16" - 12	1.1/4" - 11	44,5	58,0	41	50

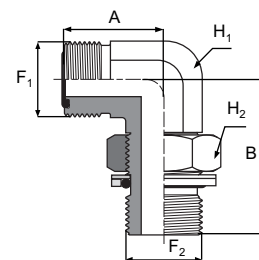
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

ORFS ADAPTORS

A562419

ORFS MALE (SAE J1453)
METRIC ADJUSTABLE MALE (ISO 6149-2), 90° ELBOW

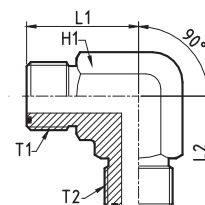


PART. REF.	THREADS		DIMENSIONS mm			
	F ₁ (UNF)	F ₂ (METRIC)	A	B	H ₁	H ₂
A562419-04-12	9/16" - 18	M12x1,5	21,5	32,5	14	19
A562419-06-16	11/16" - 16	M16x1,5	25,0	37,0	19	22
A562419-08-18	13/16" - 16	M18x1,5	28,0	40,5	19	27
A562419-10-22	1" - 14	M22x1,5	33,5	50,0	27	30
A562419-12-27	1.3/16" - 12	M27x2,0	37,5	55,0	32	36
A562419-16-33	1.7/16" - 12	M33x2,0	42,0	60,0	36	41
A562419-20-42	1.11/16" - 12	M42x2,0	45,0	62,0	41	55
A562419-24-48	2" - 12	M48x2,0	49,0	66,0	50	60

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A562424

90° ELBOW ADAPTOR ORFS MALE (SAE J1453)

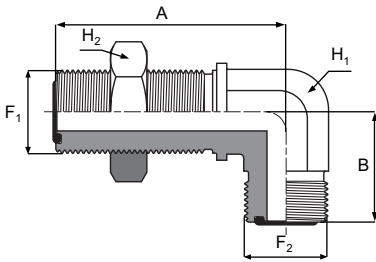


PART. REF.	THREADS		DIMENSIONS mm		
	T ₁ (UNF/S-UN)	T ₂ (UNF/S-UN)	L ₁	L ₂	H ₁
A562424-04-04	9/16" - 18	9/16" - 18	21,5	21,5	14
A562424-06-06	11/16" - 16	11/16" - 16	25,0	25,0	19
A562424-08-08	13/16" - 16	13/16" - 16	28,0	28,0	19
A562424-10-10	1" - 14	1" - 14	33,5	33,5	27
A562424-12-12	1.3/16" - 12	1.3/16" - 12	37,5	37,5	30
A562424-16-16	1.7/16" - 12	1.7/16" - 12	41,5	41,5	36
A562424-20-20	1.11/16" - 12	1.11/16" - 12	44,5	44,5	41
A562424-24-24	2" - 12	2" - 12	49,0	49,0	50

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

ORFS ADAPTORS

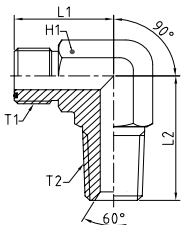


A562427

ORFS MALE (SAE J1453)
ORFS BULKHEAD MALE, 90° ELBOW

PART. REF.	THREADS		DIMENSIONS mm			
	F ₁ (UNF)	F ₂ (UNF/S-UN)	A	B	H ₁	H ₂
A562427-10-10	1" - 14	1" - 14	34,5	63,0	27	30
A562427-12-12	1.3/16" - 12	1.3/16" - 12	38,5	67,0	30	36
A562427-16-16	1.7/16" - 12	1.7/16" - 12	42,5	71,0	35	41
A562427-24-24	2" - 12	2" - 12	49,5	79,5	50	55

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A562428

90° ELBOW ADAPTOR ORFS MALE (SAE J1453)
NPTF MALE 60° CONE SEAT (SAE J514)

PART. REF.	THREADS		DIMENSIONS mm			
	T1 (UNF/S-UN)	T2 (NPTF)	L1	L2	H1	
A562428-04-04	9/16"-18	1/4"-18	21,6	28,5	14	
A562428-04-06	9/16"-18	3/8"-18	23,4	31,0	19	
A562428-06-04	11/16"-16	1/4"-18	24,9	27,7	19	
A562428-06-06	11/16"-16	3/8"-18	24,9	31,0	19	
A562428-06-08	11/16"-16	1/2"-14	29,2	37,3	22	
A562428-08-06	13/16"-16	3/8"-18	27,9	31,0	19	
A562428-08-08	13/16"-16	1/2"-14	27,9	37,3	22	
A562428-10-08	1"-14	1/2"-14	33,3	37,3	27	
A562428-10-12	1"-14	3/4"-14	33,3	40,4	27	
A562428-12-12	1.3/16"-12	3/4"-14	37,3	40,4	30	
A562428-16-16	1.7/16"-12	1"-11,5	41,7	50,0	36	
A562428-20-20	1.11/16"-12	1.1/4"-11,5	44,7	60,5	41	

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

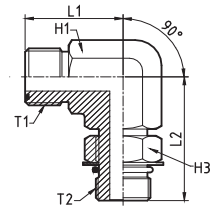
ADAPTORS

ORFS ADAPTORS

A562431

90° ELBOW ADJUSTABLE ADAPTOR ORFS MALE (SAE J1453)

SAE MALE O-RING BOSS TYPE (SAE J1926)

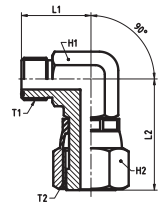


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (UNF)	L ₁	L ₂	H ₁	H ₃
A562431-04-04	9/16" - 18	7/16" - 20	21,5	26,0	14	16
A562431-04-06	9/16" - 18	9/16" - 18	21,5	31,5	14	19
A562431-06-06	11/16" - 16	9/16" - 18	25,0	34,5	19	19
A562431-08-08	13/16" - 16	3/4" - 16	28,0	36,5	19	24
A562431-10-10	1" - 14	7/8" - 14	33,5	45,5	27	27
A562431-12-12	1.3/16" - 12	1.1/16" - 12	37,5	52,0	32	32
A562431-16-16	1.7/16" - 12	1.5/16" - 12	41,5	57,0	36	38
A562431-20-20	1.11/16" - 12	1.5/8" - 12	44,5	57,0	41	50

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A582424

90° ELBOW ADAPTOR ORFS MALE-ORFS FEMALE (SAE J1453)

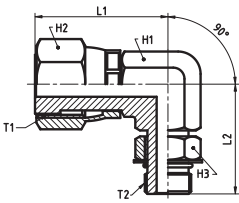


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (UNF/S-UN)	L ₁	L ₂	H ₁	H ₂
A582424-04-04	9/16" - 18	9/16" - 18	21,5	26,5	14	19
A582424-06-06	11/16" - 16	11/16" - 16	25,0	29,0	19	22
A582424-08-08	13/16" - 16	13/16" - 16	28,0	38,0	19	24
A582424-10-10	1" - 14	1" - 14	33,5	41,0	27	30
A582424-12-12	1.3/16" - 12	1.3/16" - 12	37,5	46,5	30	36
A582424-16-16	1.7/16" - 12	1.7/16" - 12	41,5	53,5	35	41
A582424-20-20	1.11/16" - 12	1.11/16" - 12	44,5	58,0	41	50

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

ORFS ADAPTORS



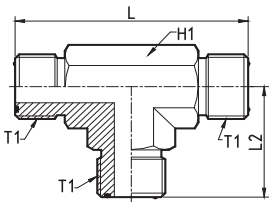
A583124

90° ELBOW ADJUSTABLE ADAPTOR ORFS FEMALE (SAE J1453)
SAE OR BOSS MALE (SAE J1926)

PART. REF.	THREADS	DIMENSIONS mm					
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	T ₁ (UNF/S-UN)	T ₂ (UNF)	L ₁	L ₂	H ₁	H ₂	H ₃
A583124-04-04	9/16" - 18	7/16" - 20	26,5	30,0	14	19	16
A583124-06-06	11/16" - 16	9/16" - 18	29,0	37,0	19	22	19
A583124-08-08	13/16" - 16	3/4" - 16	34,0	40,5	19	24	24
A583124-10-10	1" - 14	7/8" - 14	41,0	47,0	27	30	27
A583124-12-12	1.3/16" - 12	1.1/16" - 12	46,5	52,0	32	36	32
A583124-16-16	1.7/16" - 12	1.5/16" - 12	51,0	57,0	36	41	38
A583124-20-20	1.11/16" - 12	1.5/8" - 12	58,0	62,0	41	50	50

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A702424

UNION TEE ORFS MALE (SAE J1453)

PART. REF.	THREADS	DIMENSIONS mm		
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	T ₁ (UNF/S-UN)	L	L ₂	H ₁
A702424-04-04	9/16" - 18	43,0	21,5	14
A702424-06-06	11/16" - 16	50,0	25,0	19
A702424-08-08	13/16" - 16	56,0	28,0	19
A702424-10-10	1" - 14	66,5	33,5	27
A702424-12-12	1.3/16" - 12	75,0	37,5	32
A702424-16-16	1.7/16" - 12	83,5	41,5	36
A702424-20-20	1.11/16" - 12	89,5	44,5	41
A702424-24-24	2" - 12	97,5	48,5	50

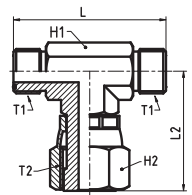
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

ORFS ADAPTORS

A712424

BRANCH TEE ORFS MALE
ORFS FEMALE (SAE J1453)

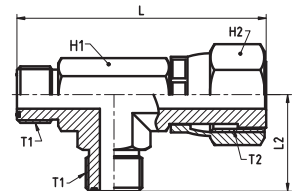


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (UNF/S-UN)	L	L ₂	H ₁	H ₂
A712424-04-04	9/16" -18	9/16" -18	43,0	26,5	14	19
A712424-06-06	11/16" -16	11/16" -16	50,0	29,0	19	22
A712424-08-08	13/16" -16	13/16" -16	56,0	38,0	19	24
A712424-10-10	1" -14	1" -14	67,0	41,0	27	30
A712424-12-12	1.3/16" -12	1.3/16" -12	75,0	46,5	27	36
A712424-16-16	1.7/16" -12	1.7/16" -12	83,0	53,5	36	41
A712424-20-20	1.11/16" -12	1.11/16" -12	89,0	58,0	41	50

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A722424

RUN TEE ORFS MALE
ORFS FEMALE (SAE J1453)

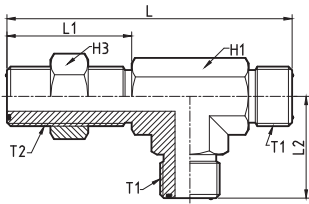


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (UNF/S-UN)	L	L ₂	H ₁	H ₂
A722424-04-04	9/16" - 18	9/16" - 18	48,0	21,5	14	19
A722424-06-06	11/16" - 16	11/16" - 16	54,0	25,0	19	22
A722424-08-08	13/16" - 16	13/16" - 16	66,0	28,0	19	24
A722424-10-10	1" - 14	1" - 14	74,5	33,5	27	30
A722424-12-12	1.3/16" - 12	1.3/16" - 12	84,0	37,5	27	36
A722424-16-16	1.7/16" - 12	1.7/16" - 12	95,0	41,5	36	41
A722424-20-20	1.11/16" - 12	1.11/16" - 12	102,5	44,5	41	50

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

ORFS ADAPTORS

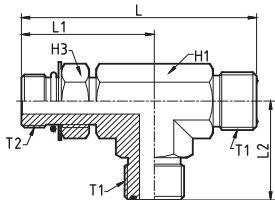


A762427

RUN TEE BULKHEAD ORFS MALE (SAE J1453)

PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (UNF/S-UN)	T ₂ (UNF/S-UN)	L	L ₁	L ₂	H ₁	H ₃
A762427-04-04	9/16" - 18	9/16" - 18	69,0	47,0	22,5	14	22
A762427-06-06	11/16" - 16	11/16" - 16	78,0	52,0	26,0	19	27
A762427-08-08	13/16" - 16	13/16" - 16	84,5	55,5	29,0	19	30
A762427-10-10	1" - 14	1" - 14	97,5	63,0	34,5	27	35
A762427-12-12	1.3/16" - 12	1.3/16" - 12	110,0	67,5	38,5	32	38
A762427-16-16	1.7/16" - 12	1.7/16" - 12	113,5	71,0	42,5	36	46
A762427-20-20	1.11/16" - 12	1.11/16" - 12	120,5	75,5	45,5	41	50

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A762431

RUN TEE ADJUSTABLE ORFS MALE (SAE J1453)
SAE MALE O-RING BOSS TYPE (SAE J1926)

PART. REF.	THREADS		DIMENSIONS mm				
	T ₁ (UNF/S-UN)	T ₂ (UNF)	L	L ₁	L ₂	H ₁	H ₃
A762431-04-04	9/16" - 18	7/16" - 20	48,0	26,5	21,5	14	16
A762431-06-06	11/16" - 16	9/16" - 18	59,5	34,5	25,0	19	19
A762431-08-08	13/16" - 16	3/4" - 16	64,5	36,5	28,0	19	24
A762431-10-10	1" - 14	7/8" - 14	79,0	45,5	33,5	27	27
A762431-12-12	1.3/16" - 12	1.1/16" - 12	89,5	52,0	37,5	27	32
A762431-16-16	1.7/16" - 12	1.5/16" - 12	98,5	57,0	41,5	36	38
A762431-20-20	1.11/16" - 12	1.5/8" - 12	105,5	61,0	44,5	41	50

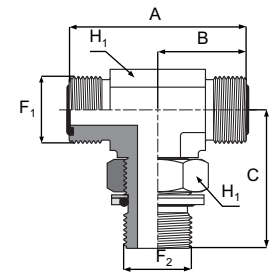
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

ORFS ADAPTORS

A782409

BRANCH TEE ORFS MALE (SAE J1453)
BSP MALE O'RING BOSS TYPE (ISO1179-3)

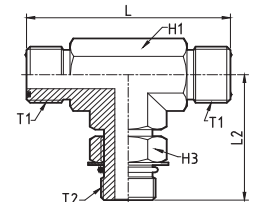


PART. REF.	THREADS		DIMENSIONS mm				
	F ₁ (UNF/S-UN)	F ₂ (BSP)	A	B	C	H ₁	H ₂
A782409-04-04	9/16" - 18	1/4" - 19	47,0	23,5	35,0	14	19
A782409-06-04	11/16" - 16	1/4" - 19	50,0	25,0	36,0	19	19
A782409-06-06	11/16" - 16	3/8" - 19	53,0	26,5	38,0	19	22
A782409-08-06	13/16" - 16	3/8" - 19	56,0	28,0	38,0	19	22
A782409-08-08	13/16" - 16	1/2" - 14	62,0	31,0	48,0	19	27
A782409-10-08	1" - 14	1/2" - 14	67,0	33,5	48,0	27	27
A782409-10-12	1" - 14	3/4" - 14	72,0	36,0	51,5	27	32
A782409-12-12	1.3/16" - 12	3/4" - 14	75,0	37,5	51,5	32	32
A782409-16-16	1.7/16" - 12	1" - 11	84,0	42,0	58,0	36	41

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A782431

BRANCH TEE ADJUSTABLE ORFS MALE (SAE J1453)
SAE MALE O-RING BOSS TYPE (SAE J1926)

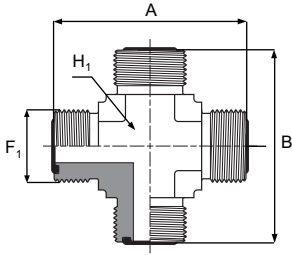


PART. REF.	THREADS		DIMENSIONS mm			
	T ₁ (UNF/S-UN)	T ₂ (UNF)	L	L ₂	H ₁	H ₃
A782431-04-04	9/16" - 18	7/16" - 20	43,0	26,0	14	16
A782431-06-06	11/16" - 16	9/16" - 18	50,0	34,5	19	19
A782431-08-08	13/16" - 16	3/4" - 16	56,0	36,5	19	24
A782431-10-10	1" - 14	7/8" - 14	66,5	45,5	27	27
A782431-12-12	1.3/16" - 12	1.1/16" - 12	75,0	52,0	36	32
A782431-16-16	1.7/16" - 12	1.5/16" - 12	83,5	57,0	36	38
A782431-20-20	1.11/16" - 12	1.5/8" - 12	89,5	61,0	41	50

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

ORFS ADAPTORS



A902424

EQUAL CROSS ORFS MALE (SAE J1453)

PART. REF.	THREADS	DIMENSIONS mm		
	F ₁ (UNF/S-UN)	A	B	H ₁
A902424-04-04	9/16" - 18	43,0	21,5	14
A902424-06-06	11/16" - 16	50,0	25,0	19
A902424-08-08	13/16" - 16	56,0	28,0	19
A902424-10-10	1" - 14	67,0	33,5	27
A902424-12-12	1.3/16" - 12	75,0	37,5	32
A902424-16-16	1.7/16" - 12	84,0	42,0	36
A902424-20-20	1.11/16" - 12	90,0	45,0	41
A902424-24-24	2" - 12	98,0	49,0	50

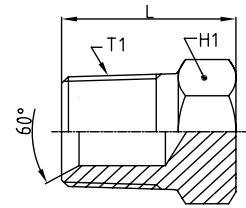
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

NPTF - NPSM ADAPTORS

A402800

MALE PLUG NPTF 60° CONE SEAT (SAE J514)

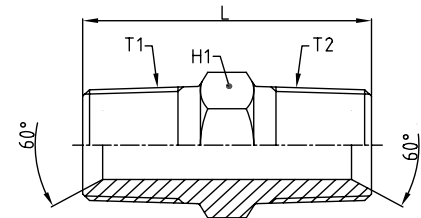


PART. REF.	THREADS	DIMENSIONS mm			
	T1 (NPTF)	L	H1		
A402800-02	1/8"-27	15,2	11		
A402800-04	1/4"-18	21,6	16		
A402800-06	3/8"-18	21,6	19		
A402800-08	1/2"-14	27,9	22		
A402800-12	3/4"-14	29,7	27		
A402800-16	1"-11,5	34,5	33		
A402800-20	1.1/4"-11,5	37,3	44		
A402800-24	1.1/2"-11,5	39,9	50		

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A502828

STRAIGHT ADAPTOR NPTF MALE 60° CONE SEAT (SAE J514)

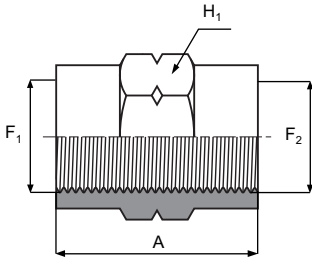


PART. REF.	THREADS	DIMENSIONS mm			
	T1 (NPTF)	T2 (NPTF)	L	H1	
A502828-02-02	1/8"-27	1/8"-27	26,9	11	
A502828-02-04	1/8"-27	1/4"-18	32,0	16	
A502828-04-04	1/4"-18	1/4"-18	36,8	16	
A502828-04-06	1/4"-18	3/8"-18	36,8	19	
A502828-06-06	3/8"-18	3/8"-18	36,8	19	
A502828-06-08	3/8"-18	1/2"-14	43,2	22	
A502828-08-08	1/2"-14	1/2"-14	48,0	22	
A502828-08-12	1/2"-14	3/4"-14	49,8	27	
A502828-12-12	3/4"-14	3/4"-14	49,8	27	
A502828-12-16	3/4"-14	1"-11,5	54,5	35	
A502828-16-16	1"-11.1/2	1"-11,5	59,4	35	
A502828-20-20	1.1/4"-11.1/2	1.1/4"-11,5	63,0	44	
A502828-24-24	1.1/2"-11.1/2	1.1/2"-11,5	66,3	50	

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

NPTF - NPSM ADAPTORS



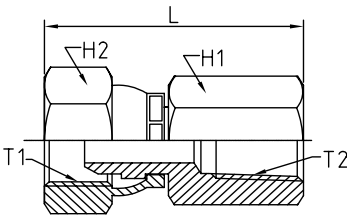
A512828

NPTF FIXED FEMALE (SAE J476A)

PART. REF.	THREADS	DIMENSIONS mm
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	F ₁ (NPTF)	F ₂ (NPTF)	A	H ₁
A512828-02-02	1/8" - 27	1/8" - 27	20,0	14
A512828-02-04	1/4" - 18	1/8" - 27	30,0	14
A512828-04-04	1/4" - 18	1/4" - 18	30,0	19
A512828-04-06	3/8" - 18	1/4" - 18	30,0	19
A512828-06-06	3/8" - 18	3/8" - 18	30,0	24
A512828-06-08	1/2" - 14	3/8" - 18	38,0	24
A512828-08-08	1/2" - 14	1/2" - 14	38,0	27
A512828-12-12	3/4" - 14	3/4" - 14	40,0	36
A512828-16-16	1" - 11 ^{1/2}	1" - 11 ^{1/2}	48,0	41
A512828-20-20	1.1/4" - 11 ^{1/2}	1.1/4" - 11 ^{1/2}	60,0	50
A512828-24-24	1.1/2" - 11 ^{1/2}	1.1/2" - 11 ^{1/2}	60,0	60

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A512834

STRAIGHT ADAPTOR NPSM SWIVEL FEMALE 60° CONE (SAE J514)
NPTF FIXED FEMALE (SAE J514)

PART. REF.	THREADS	DIMENSIONS mm
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	T ₁ (NPSM)	T ₂ (NPTF)	L	H ₁	H ₂
A512834-04-04	1/4"-18	1/4"-18	36,0	19	19
A512834-04-06	1/4"-18	3/8"-18	37,6	22	19
A512834-06-06	3/8"-18	3/8"-18	38,1	22	22
A512834-06-08	3/8"-18	1/2"-14	43,7	27	22
A512834-08-08	1/2"-14	1/2"-14	46,7	27	27
A512834-12-12	3/4"-14	3/4"-14	50,0	32	32
A512834-16-16	1"-11,5	1"-11,5	59,7	38	38
A512834-20-20	1.1/4"-11,5	1.1/4"-11,5	61,0	50	50
A512834-24-24	1.1/2"-11,5	1.1/2"-11,5	64,0	54	54

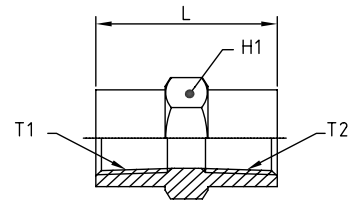
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

NPTF - NPSM ADAPTORS

A513434

STRAIGHT ADAPTOR NPTF FIXED FEMALE (SAE J514)

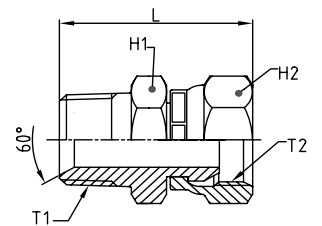


PART. REF.	THREADS		DIMENSIONS mm				
	T1 (NPTF)	T2 (NPTF)	L	H1			
A513434-02-02	1/8"-27	1/8"-27	19,0	16			
A513434-04-04	1/4"-18	1/4"-18	28,7	19			
A513434-06-06	3/8"-18	3/8"-18	28,7	22			
A513434-08-08	1/2"-14	1/2"-14	38,1	27			
A513434-12-12	3/4"-14	3/4"-14	38,9	35			
A513434-16-16	1"-11,5	1"-11,5	48,0	41			
A513434-20-20	1.1/4"-11,5	1.1/4"-11,5	49,0	50			
A513434-24-24	1.1/2"-11,5	1.1/2"-11,5	49,0	60			

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A522828

STRAIGHT ADAPTOR NPTF MALE 60° CONE SEAT (SAE J514)
NPSM SWIVEL FEMALE 60° CONE (SAE J514)



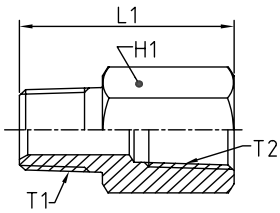
PART. REF.	THREADS		DIMENSIONS mm				
	T1 (NPTF)	T2 (NPSM)	L	H1	H2		
A522828-02-04	1/8"-27	1/4"-18	31,5	17	19		
A522828-04-04	1/4"-18	1/4"-18	36,0	17	19		
A522828-04-06	1/4"-18	3/8"-18	38,6	19	22		
A522828-06-04	3/8"-18	1/4"-18	37,9	19	19		
A522828-06-06	3/8"-18	3/8"-18	38,6	22	22		
A522828-08-06	1/2"-14	3/8"-18	45,0	22	22		
A522828-08-08	1/2"-14	1/2"-14	48,0	27	27		
A522828-08-12	1/2"-14	3/4"-14	53,1	32	32		
A522828-12-08	3/4"-14	1/2"-14	49,0	27	27		
A522828-12-12	3/4"-14	3/4"-14	53,3	32	32		
A522828-12-16	3/4"-14	1"-11,5	54,9	38	38		
A522828-16-12	1"-11,5	3/4"-14	58,2	38	32		
A522828-16-16	1"-11,5	1"-11,5	59,7	38	38		
A522828-20-20	1.1/4"-11,5	1.1/4"-11,5	64,0	44	50		
A522828-24-24	1.1/2"-11,5	1.1/2"-11,5	68,3	54	54		

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

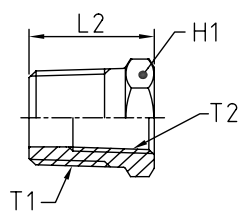
ADAPTORS

NPTF - NPSM ADAPTORS

INCREASE ADAPTOR



REDUCER BUSHING



A522834

INCREASE ADAPTOR / REDUCER BUSHING
NPTF MALE - NPTF FIXED FEMALE (SAE J514)

PART. REF.	THREADS	DIMENSIONS mm	
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	T1 (NPTF)	T2 (NPTF)	L1	L2	H1		
A522834-02-04	1/8"-27	1/4"-18	30,7	-	19		
A522834-04-02	1/4"-18	1/8"-27	-	21,6	16		
A522834-04-06	1/4"-18	3/8"-18	36,6	-	22		
A522834-06-04	3/8"-18	1/4"-18	-	21,6	19		
A522834-06-08	3/8"-18	1/2"-14	42,7	-	27		
A522834-08-04	1/2"-14	1/4"-18	-	27,9	22		
A522834-08-06	1/2"-14	3/8"-18	-	27,9	22		
A522834-08-12	1/2"-14	3/4"-14	49,0	-	35		
A522834-12-06	3/4"-14	3/8"-18	-	29,7	27		
A522834-12-08	3/4"-14	1/2"-14	-	29,7	27		
A522834-12-16	3/4"-14	1"-11,5	55,4	-	41		
A522834-16-12	1"-11,5	3/4"-14	-	34,5	35		
A522834-16-20	1"-11,5	1.1/4"-11,5	62,5	-	50		
A522834-20-16	1.1/4"-11,5	1"-11,5	-	37,3	44		
A522834-20-24	1.1/4"-11,5	1.1/2"-11,5	63,5	-	60		
A522834-24-20	1.1/2"-11,5	1.1/4"-11,5	-	39,9	50		

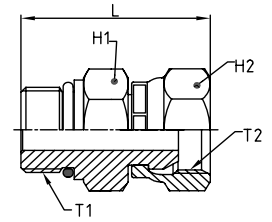
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

NPTF - NPSM ADAPTORS

A523028

STRAIGHT ADAPTOR SAE MALE O-RING BOSS TYPE (SAE J1926)
NPSM SWIVEL FEMALE 60° CONE (SAE J514)

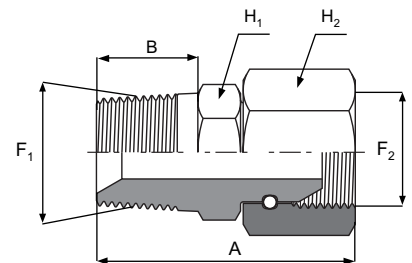


PART. REF.	THREADS	DIMENSIONS mm					
	T1 (UNF)	T2 (NPSM)	L	H1	H2		
A523028-04-04	7/16"-20	1/4"-18	33,0	14	19		
A523028-05-04	1/2"-20	1/4"-18	32,5	16	19		
A523028-06-04	9/16"-18	1/4"-18	33,8	19	19		
A523028-06-06	9/16"-18	3/8"-18	35,3	19	22		
A523028-08-06	3/4"-16	3/8"-18	36,8	22	22		
A523028-08-08	3/4"-16	1/2"-14	40,1	22	27		
A523028-08-12	3/4"-16	3/4"-14	44,7	27	32		
A523028-10-08	7/8"-14	1/2"-14	42,7	27	27		
A523028-10-12	7/8"-14	3/4"-14	46,5	27	32		
A523028-12-12	1.1/16"-12	3/4"-14	49,5	32	32		
A523028-16-16	1.5/16"-12	1"-11,5	52,3	38	38		

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A523528

NPT MALE - NPSM SWIVEL FEMALE

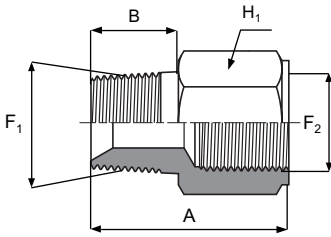


PART. REF.	THREADS	DIMENSIONS mm					
	F1 (NPT)	F2 (NPSM)	A	B	H1	H2	
A523528-12-08	3/4" - 14	1/2" - 14	49,0	19,0	21	23	
A523528-12-12	3/4" - 14	3/4" - 14	43,0	20,0	21	23	
A523528-12-16	3/4" - 14	1" - 11 ^{1/2}	46,0	20,0	38	41	
A523528-16-12	1" - 11 ^{1/2}	3/4" - 14	59,0	25,0	38	41	
A523528-16-16	1" - 11 ^{1/2}	1" - 11 ^{1/2}	48,0	24,0	34	47	
A523528-20-20	1.1/4" - 11 ^{1/2}	1.1/4" - 11 ^{1/2}	64,0	30,0	50	52	
A523528-24-24	1.1/2" - 11 ^{1/2}	1.1/2" - 11 ^{1/2}	73,5	34,0	55	58	

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

NPTF - NPSM ADAPTORS

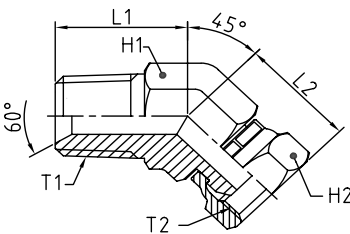


A523535

NPT MALE - NPT FEMALE

PART. REF.	THREADS	DIMENSIONS mm			
	F₁ (NPT)	F₂ (NPT)	A	B	H₁
A523535-02-02	1/8" - 27	1/8" - 27	26,0	10,5	19
A523535-04-02	1/4" - 18	1/8" - 27	22,0	14,0	19
A523535-04-04	1/4" - 18	1/4" - 18	33,0	14,0	19
A523535-06-02	3/8" - 18	1/8" - 27	21,0	14,0	19
A523535-06-04	3/8" - 18	1/4" - 18	21,0	14,0	19
A523535-06-06	3/8" - 18	3/8" - 18	34,0	14,0	21
A523535-08-02	1/2" - 14	1/8" - 27	27,0	19,0	19
A523535-08-04	1/2" - 14	1/4" - 18	27,0	19,0	17
A523535-08-06	1/2" - 14	3/8" - 18	27,0	19,0	21
A523535-08-08	1/2" - 14	1/2" - 14	45,5	19,0	21
A523535-12-04	3/4" - 14	1/4" - 18	30,0	19,0	26
A523535-12-06	3/4" - 14	3/8" - 18	25,0	20,0	26

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A552828

45° ELBOW ADAPTOR NPTF MALE 60° CONE SEAT (SAE J514)
NPSM SWIVEL FEMALE 60° CONE (SAE J514)

PART. REF.	THREADS	DIMENSIONS mm				
	T₁ (NPTF)	T₂ (NPSM)	L₁	L₂	H₁	H₂
A552828-04-04	1/4"-18	1/4"-18	21,8	23,4	14	19
A552828-06-06	3/8"-18	3/8"-18	24,1	25,9	19	22
A552828-06-08	3/8"-18	1/2"-14	24,9	29,5	22	27
A552828-08-08	1/2"-14	1/2"-14	29,7	29,5	22	27
A552828-12-12	3/4"-14	3/4"-14	30,5	34,8	27	32
A552828-16-16	1"-11,5	1"-11,5	37,6	38,1	33	38
A552828-20-20	1.1/4"-11,5	1.1/4"-11,5	42,4	41,9	41	50

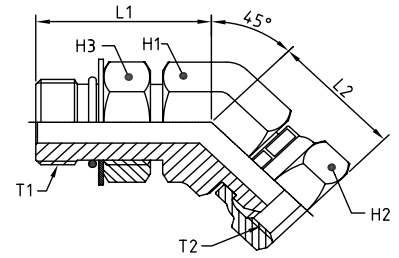
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

NPTF - NPSM ADAPTORS

A553128

45° ELBOW ADJUSTABLE ADAPTOR SAE MALE O-RING BOSS TYPE (SAE J1926) NPSM SWIVEL FEMALE 60° CONE (SAE J514)

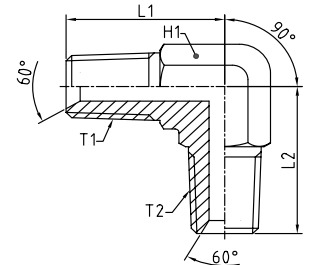


PART. REF.	THREADS		DIMENSIONS mm				
	T1 (UNF)	T2 (NPSM)	L1	L2	H1	H2	H3
A553128-04-06	7/16"-20	3/8"-18	27,4	26,4	19	22	16
A553128-08-06	3/4"-16	3/8"-18	33,0	27,2	19	22	22
A553128-08-08	3/4"-16	1/2"-14	33,0	29,7	19	27	22
A553128-08-12	3/4"-16	3/4"-14	36,0	34,8	27	32	22
A553128-10-08	7/8"-14	1/2"-14	38,6	29,5	22	27	27
A553128-12-12	1.1/16"-12	3/4"-14	43,9	34,8	27	32	32
A553128-16-16	1.5/16"-12	1"-11,5	47,2	38,1	33	38	38

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A562828

90° ELBOW ADAPTOR NPTF MALE 60° CONE SEAT (SAE J514)

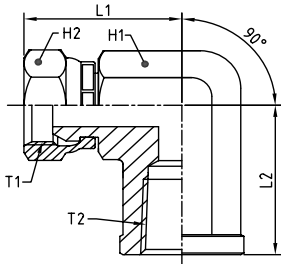


PART. REF.	THREADS		DIMENSIONS mm				
	T1 (NPTF)	T2 (NPTF)	L1	L2	H1		
A562828-02-02	1/8"-27	1/8"-27	19,8	19,8	11		
A562828-04-04	1/4"-18	1/4"-18	27,7	27,7	14		
A562828-04-06	1/4"-18	3/8"-18	31,0	31,0	19		
A562828-06-06	3/8"-18	3/8"-18	31,0	31,0	19		
A562828-06-08	3/8"-18	1/2"-14	32,5	37,3	22		
A562828-08-08	1/2"-14	1/2"-14	37,3	37,3	22		
A562828-12-12	3/4"-14	3/4"-14	40,4	40,4	27		
A562828-16-16	1"-11.1/2	1"-11.1/2	50,0	50,0	33		
A562828-20-20	1.1/4"-11.1/2	1.1/4"-11.1/2	60,5	60,5	41		

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

NPTF - NPSM ADAPTORS



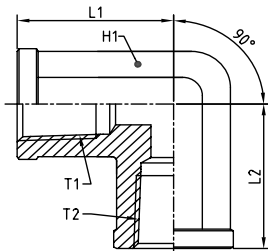
A572834

90° ELBOW ADAPTOR NPSM SWIVEL FEMALE 60° CONE (SAE J514)
NPTF FIXED FEMALE (SAE J514)

PART. REF.	THREADS	DIMENSIONS mm	
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	T1 (NPSM)	T2 (NPTF)	L1	L2	H1	H2
A572834-04-04	1/4"-18	1/4"-18	30,0	22,4	19	19
A572834-06-06	3/8"-18	3/8"-18	32,3	25,9	22	22
A572834-08-08	1/2"-14	1/2"-14	38,6	31,2	27	27
A572834-12-12	3/4"-14	3/4"-14	46,2	34,5	33	32
A572834-16-16	1"-11,5	1"-11,5	52,8	41,5	41	38
A572834-20-20	1.1/4"-11,5	1.1/4"-11,5	57,2	43,2	48	50
A572834-24-24	1.1/2"-11,5	1.1/2"-11,5	71,9	52,8	65	54

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A573434

90° ELBOW ADAPTOR NPTF FIXED FEMALE (SAE J514)

PART. REF.	THREADS	DIMENSIONS mm	
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	T1 (NPTF)	T2 (NPTF)	L1	L2	H1
A573434-02-02	1/8"-27	1/8"-27	16,8	16,8	14
A573434-02-04	1/8"-27	1/4"-18	22,4	22,4	19
A573434-04-04	1/4"-18	1/4"-18	22,4	22,4	19
A573434-06-06	3/8"-18	3/8"-18	25,9	25,9	22
A573434-06-08	3/8"-18	1/2"-14	31,2	31,2	27
A573434-08-08	1/2"-14	1/2"-14	31,2	31,2	27
A573434-12-12	3/4"-14	3/4"-14	34,5	34,5	33
A573434-16-16	1"-11,5	1"-11,5	41,2	41,2	41
A573434-20-20	1.1/4"-11,5	1.1/4"-11,5	43,2	43,2	48
A573434-24-24	1.1/2"-11,5	1.1/2"-11,5	52,8	52,8	65

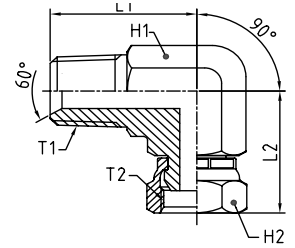
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

NPTF - NPSM ADAPTORS

A582828

90° ELBOW ADAPTOR NPTF MALE 60° CONE SEAT (SAE J514)
NPSM SWIVEL FEMALE 60° CONE (SAE J514)

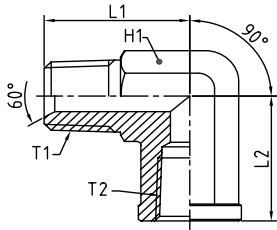


PART. REF.	THREADS		DIMENSIONS mm				
	T1 (NPTF)	T2 (NPSM)	L1	L2	H1	H2	
A582828-04-04	1/4"-18	1/4"-18	27,7	27,2	14	19	
A582828-04-06	1/4"-18	3/8"-18	31,0	30,5	19	22	
A582828-06-04	3/8"-18	1/4"-18	31,0	29,5	19	19	
A582828-06-06	3/8"-18	3/8"-18	31,0	30,5	19	22	
A582828-06-08	3/8"-18	1/2"-14	32,5	35,3	22	27	
A582828-08-06	1/2"-14	3/8"-18	37,3	31,8	22	22	
A582828-08-08	1/2"-14	1/2"-14	37,3	35,3	22	27	
A582828-12-12	3/4"-14	3/4"-14	40,4	41,9	27	32	
A582828-16-16	1"-11,5	1"-11,5	50,0	48,0	33	38	
A582828-20-20	1.1/4"-11,5	1.1/4"-11,5	60,5	54,6	41	50	
A582828-24-24	1.1/2"-11,5	1.1/2"-11,5	67,0	58,7	48	54	

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

NPTF - NPSM ADAPTORS



A582834

90° ELBOW ADAPTOR NPTF MALE 60° CONE SEAT (SAE J514)
NPTF FIXED FEMALE (SAE J514)

PART. REF.	THREADS		DIMENSIONS mm				
	T1 (NPTF)	T2 (NPTF)	L1	L2	H1		
A582834-02-02	1/8"-27	1/8"-27	19,8	16,8	14		
A582834-02-04	1/8"-27	1/4"-18	22,9	22,4	19		
A582834-04-02	1/4"-18	1/8"-27	27,7	17,0	14		
A582834-04-04	1/4"-18	1/4"-18	27,7	22,4	19		
A582834-04-06	1/4"-18	3/8"-18	31,0	25,9	22		
A582834-06-04	3/8"-18	1/4"-18	31,0	25,7	19		
A582834-06-06	3/8"-18	3/8"-18	31,0	25,9	22		
A582834-06-08	3/8"-18	1/2"-14	32,5	31,2	27		
A582834-08-06	1/2"-14	3/8"-18	37,3	25,9	22		
A582834-08-08	1/2"-14	1/2"-14	37,3	31,2	27		
A582834-12-12	3/4"-14	3/4"-14	40,4	34,5	33		
A582834-16-16	1"-11,5	1"-11,5	50,0	41,2	41		
A582834-20-20	1.1/4"-11,5	1.1/4"-11,5	60,5	43,2	48		
A582834-24-24	1.1/2"-11,5	1.1/2"-11,5	67,0	52,8	65		

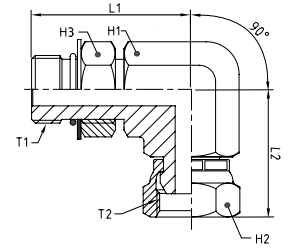
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

NPTF - NPSM ADAPTORS

A583128

90° ELBOW ADJUSTABLE ADAPTOR SAE MALE O-RING BOSS TYPE (SAE J1926) NPSM SWIVEL FEMALE 60° CONE (SAE J514)

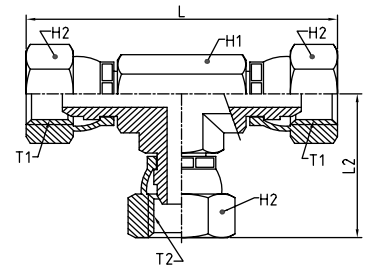


PART. REF.	THREADS		DIMENSIONS mm				
	T1 (UNF)	T2 (NPSM)	L1	L2	H1	H2	H3
A583128-04-04	7/16"-20	1/4"-18	26,2	24,9	11	19	16
A583128-06-04	9/16"-18	1/4"-18	31,8	27,2	14	19	19
A583128-06-06	9/16"-18	3/8"-18	31,8	28,2	14	22	19
A583128-08-06	3/4"-16	3/8"-18	36,8	30,5	19	22	22
A583128-08-08	3/4"-16	1/2"-14	36,8	33,5	19	27	22
A583128-08-12	3/4"-16	3/4"-14	41,2	41,9	27	32	22
A583128-10-08	7/8"-14	1/2"-14	43,2	35,3	22	27	27
A583128-10-12	7/8"-14	3/4"-14	45,2	41,2	27	32	27
A583128-12-12	1.1/16"-12	3/4"-14	49,3	41,9	27	32	32
A583128-16-16	1.5/16"-12	1"-11.1/2	52,0	48,0	33	38	38

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A732828

UNION TEE NPSM SWIVEL FEMALE 60° CONE (SAE J514)

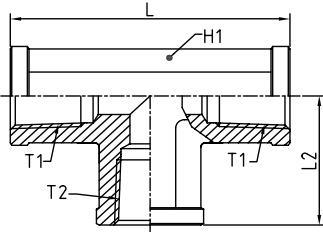


PART. REF.	THREADS		DIMENSIONS mm				
	T1 (NPSM)	T2 (NPSM)	L	L2	H1	H2	
A732828-04-04	1/4"-18	1/4"-18	54,4	27,2	14	19	
A732828-06-06	3/8"-18	3/8"-18	61,0	30,5	19	22	
A732828-08-08	1/2"-14	1/2"-14	70,6	35,3	22	27	
A732828-12-12	3/4"-14	3/4"-14	83,8	41,9	27	32	
A732828-16-16	1"-11,5	1"-11,5	96,0	48,0	33	38	
A732828-20-20	1.1/4"-11,5	1.1/4"-11,5	109,2	54,6	41	50	

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

NPTF - NPSM ADAPTORS



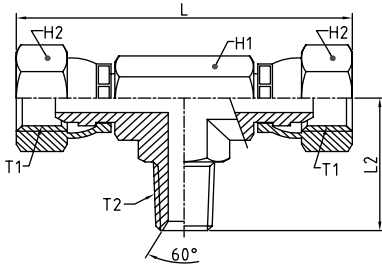
A733434

UNION TEE NPTF FIXED FEMALE (SAE J514)

PART. REF.	THREADS	DIMENSIONS mm					
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	T1 (NPTF)	T2 (NPTF)	L	L2	H1		
A733434-02-02	1/8"-27	1/8"-27	33,5	16,8	14		
A733434-04-04	1/4"-18	1/4"-18	44,7	22,4	19		
A733434-06-06	3/8"-18	3/8"-18	51,8	25,9	22		
A733434-08-08	1/2"-14	1/2"-14	62,5	31,2	27		
A733434-12-12	3/4"-14	3/4"-14	69,0	34,5	33		
A733434-16-16	1"-11.1/2	1"-11.1/2	82,3	41,2	41		
A733434-20-20	1.1/4"-11.1/2	1.1/4"-11.1/2	86,4	43,2	48		
A733434-24-24	1.1/2"-11.1/2	1.1/2"-11.1/2	105,7	52,8	65		

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A742828

BRANCH TEE NPSM SWIVEL FEMALE 60° CONE (SAE J514)
NPTF MALE 60° CONE SEAT (SAE J514)

PART. REF.	THREADS	DIMENSIONS mm					
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	T1 (NPSM)	T2 (NPTF)	L	L2	H1	H2	
A742828-04-04	1/4"-18	1/4"-18	54,4	27,7	14	19	
A742828-06-06	3/8"-18	3/8"-18	61,0	31,0	19	22	
A742828-08-08	1/2"-14	1/2"-14	70,6	37,3	22	27	
A742828-12-12	3/4"-14	3/4"-14	83,8	40,4	27	32	
A742828-16-16	1"-11,5	1"-11,5	96,0	50,0	33	38	
A742828-20-20	1.1/4"-11,5	1.1/4"-11,5	109,2	60,5	41	50	

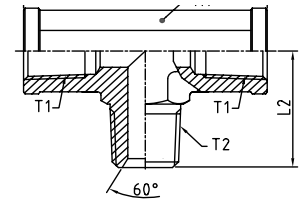
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

NPTF - NPSM ADAPTORS

A742834

BRANCH TEE NPTF FIXED FEMALE (SAE J514)
NPTF MALE 60° CONE SEAT (SAE J514)

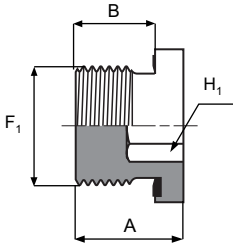


PART. REF.	THREADS		DIMENSIONS mm				
	T1 (NPTF)	T2 (NPTF)	L	L2	H1		
A742834-02-02	1/8"-27	1/8"-27	33,5	19,8	14		
A742834-04-04	1/4"-18	1/4"-18	44,7	27,7	19		
A742834-06-06	3/8"-18	3/8"-18	51,8	31,0	22		
A742834-08-08	1/2"-14	1/2"-14	62,5	37,3	27		
A742834-12-12	3/4"-14	3/4"-14	69,0	40,4	33		
A742834-16-16	1"-11,5	1"-11,5	82,3	50,0	41		

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code **.SS**

ADAPTORS

METRIC



A401900E

METRIC MALE PLUG WITH SHAPED SEAL AND HEXAGONAL SOCKET HEAD

PART. REF.	THREADS	DIMENSIONS mm		
	F ₁ (METR)	A	B	H ₁
A401900E-10	M10x1,0	12,0	8,0	5
A401900E-12	M12x1,5	17,0	12,0	6
A401900E-14	M14x1,5	17,0	12,0	6
A401900E-16	M16x1,5	17,0	12,0	8
A401900E-18	M18x1,5	17,0	12,0	8
A401900E-20	M20x1,5	19,0	14,0	10
A401900E-22	M22x1,5	19,0	14,0	10
A401900E-26	M26x1,5	21,0	16,0	12
A401900E-27	M27x2,0	21,0	16,0	12
A401900E-33	M33x2,0	22,5	16,0	17
A401900E-42	M42x2,0	22,5	16,0	22
A401900E-48	M48x2,0	22,0	16,0	24

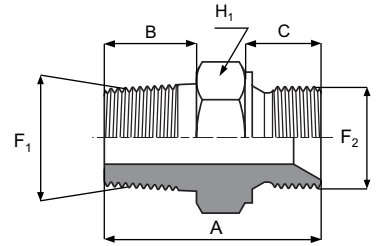
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

METRIC

A500710

BSP MALE TAPERED (ISO 7)
METRIC MALE, 60° CONE SUPERLIGHT TYPE

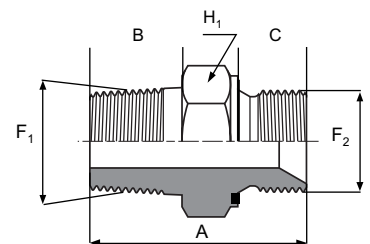


PART. REF.	THREADS		DIMENSIONS mm			
	F ₁ (BSPT)	F ₂ (METR)	A	B	C	H ₁
A500710-02-12	1/8" - 28	M12x1,5	28,0	10,0	10,0	14
A500710-02-14	1/8" - 28	M14x1,5	27,0	10,0	10,0	17
A500710-04-14	1/4" - 19	M14x1,5	30,0	14,0	10,0	19
A500710-04-16	1/4" - 19	M16x1,5	30,0	14,0	10,0	22
A500710-04-18	1/4" - 19	M18x1,5	32,0	14,0	10,0	22
A500710-04-22	1/4" - 19	M22x1,5	34,0	14,0	12,0	24
A500710-06-14	3/8" - 19	M14x1,5	36,0	15,0	12,0	19
A500710-06-16	3/8" - 19	M16x1,5	30,0	14,0	10,0	22
A500710-06-18	3/8" - 19	M18x1,5	31,0	14,0	10,0	22
A500710-06-22	3/8" - 19	M22x1,5	35,0	15,5	12,0	24
A500710-08-16	1/2" - 14	M16x1,5	40,0	19,0	10,0	22
A500710-08-18	1/2" - 14	M18x1,5	37,0	19,0	10,0	22
A500710-08-22	1/2" - 14	M22x1,5	39,0	19,0	12,0	24
A500710-08-26	1/2" - 14	M26x1,5	40,0	19,0	12,0	32
A500710-12-22	3/4" - 14	M22x1,5	43,0	19,0	14,0	33
A500710-12-26	3/4" - 14	M26x1,5	40,0	19,0	12,0	37
A500710-12-30	3/4" - 14	M30x1,5	41,0	19,0	12,0	37
A500710-16-30	1" - 11	M30x1,5	53,0	24,0	18,0	42

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A500719

BSP MALE TAPERED (ISO 7)
METRIC MALE (ISO 6149-1)

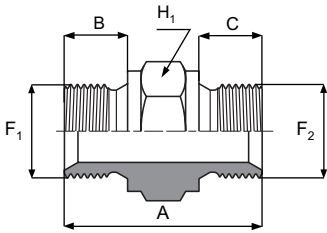


PART. REF.	THREADS		DIMENSIONS mm			
	F ₁ (BSPT)	F ₂ (METR)	A	B	C	H ₁
A500719-06-22	3/8" - 19	M22x1,5	39,0	15,0	15,0	27
A500719-08-22	1/2" - 14	M22x1,5	43,0	19,0	14,5	27

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

METRIC

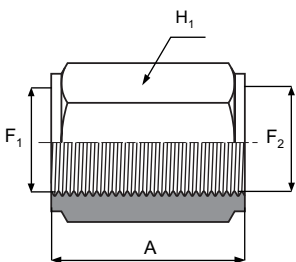


A501010

METRIC MALE, 60° CONE SEAT, DIN SUPERLIGHT TYPE

PART. REF.	THREADS		DIMENSIONS mm			
	F ₁ (METR)	F ₂ (METR)	A	B	C	H ₁
A501010-12-12	M12x1,5	M12x1,5	34,0	12,0	12,0	19
A501010-12-14	M12x1,5	M14x1,5	34,0	12,0	12,0	19
A501010-14-14	M14x1,5	M14x1,5	34,0	12,0	12,0	24
A501010-14-16	M14x1,5	M16x1,5	34,0	12,0	12,0	24
A501010-16-16	M16x1,5	M16x1,5	34,0	12,0	12,0	27
A501010-16-18	M16x1,5	M18x1,5	35,5	12,0	12,0	27
A501010-18-18	M18x1,5	M18x1,5	36,0	12,0	12,0	27
A501010-22-22	M22x1,5	M22x1,5	40,0	14,0	14,0	32
A501010-26-26	M26x1,5	M26x1,5	47,0	16,0	16,0	27
A501010-30-30	M30x1,5	M30x1,5	48,0	16,0	16,0	32
A501010-38-38	M38x1,5	M38x1,5	50,0	16,0	16,0	42
A501010-45-45	M45x1,5	M45x1,5	52,0	16,0	16,0	46
A501010-52-52	M52x1,5	M52x1,5	43,0	14,0	14,0	49
A501010-65-65	M65x2,0	M65x2,0	49,0	17,0	17,0	55

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A511919

METRIC FEMALE (ISO 6149-1)

PART. REF.	THREADS		DIMENSIONS mm			
	F ₁ (METR)	F ₂ (METR)	A	H ₁		
A511919-22-22	M22x1,5	M22x1,5	38,0	27		

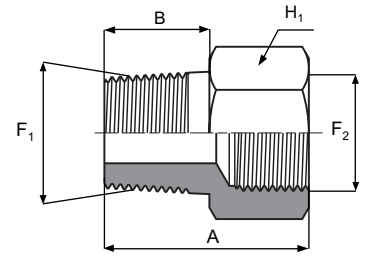
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

METRIC

A520714

BSP MALE TAPERED (ISO 7)
METRIC FIXED FEMALE

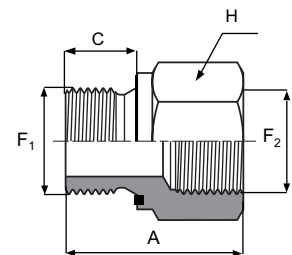


PART. REF.	THREADS		DIMENSIONS mm		
	F ₁ (BSPT)	F ₂ (METR)	A	B	H ₁
A520714-06-16	3/8" - 19	M16x1,5	30,0	15,0	21
A520714-06-22	3/8" - 19	M22x1,5	34,5	15,5	26
A520714-08-16	1/2" - 14	M16x1,5	22,5	15,5	22
A520714-08-22	1/2" - 14	M22x1,5	38,5	19,0	26

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A521904

METRIC MALE (ISO 6149-2)
BSP FIXED FEMALE

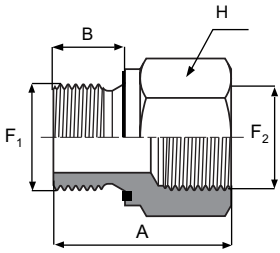


PART. REF.	THREADS		DIMENSIONS mm		
	F ₁ (METR)	F ₂ (BSP)	A	B	H ₁
A521904-16-04	M16x1,5	1/4" - 19	28,5	12,0	16
A521904-22-04	M22x1,5	1/4" - 19	21,0	12,0	19
A521904-16-06	M16x1,5	3/8" - 19	30,5	12,0	21
A521904-22-06	M22x1,5	3/8" - 19	22,0	13,0	26
A521904-16-08	M16x1,5	1/2" - 14	36,0	12,0	22
A521904-22-08	M22x1,5	1/2" - 14	36,0	14,0	26

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

METRIC

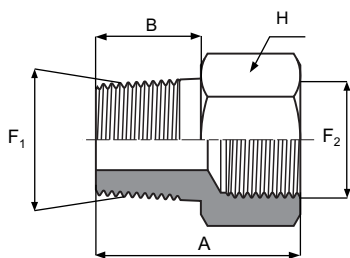


A521914

METRIC MALE (ISO 6149-2)
METRIC FIXED FEMALE (DIN 3852-1)

PART. REF.	THREADS		DIMENSIONS mm		
	F ₁ (METR)	F ₂ (METR)	A	B	H
A521914-16-22	M16x1,5	M22x1,5	31,5	12,0	26
A521914-22-16	M22x1,5	M16x1,5	21,0	12,0	21

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A521935

METRIC MALE (ISO 6149)
NPT FEMALE

PART. REF.	THREADS		DIMENSIONS mm		
	F ₁ (NPT)	F ₂ (METR)	A	B	H
A521935-16-04	1/4" - 18	M16x1,5	31,0	12,0	21
A521935-22-04	1/4" - 18	M22x1,5	24,5	11,0	21
A521935-22-06	3/8" - 18	M22x1,5	24,5	11,0	26

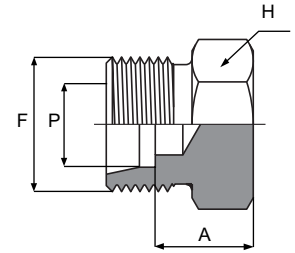
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

A401100

METRIC MALE PLUG, LIGHT TYPE (DIN 2353)

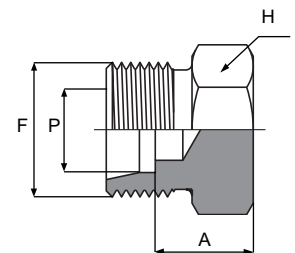


PART. REF.	THREADS	DIMENSIONS mm			
	F (METR)	W.P. (bar)	P	A	H
A401100-06	M12x1,5	315	6,0	7,0	12
A401100-08	M14x1,5	315	8,0	8,0	14
A401100-10	M16x1,5	315	10,0	9,0	17
A401100-12	M18x1,5	315	12,0	10,0	19
A401100-15	M22x1,5	315	15,0	11,0	24
A401100-18	M26x1,5	160	18,0	11,5	17
A401100-22	M30x2,0	160	22,0	13,5	32
A401100-28	M36x2,0	160	28,0	14,5	41
A401100-35	M45x2,0	160	35,0	14,5	46
A401100-42	M52x2,0	160	42,0	16,0	55

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A401200

METRIC MALE PLUG, HEAVY TYPE (DIN 2353)

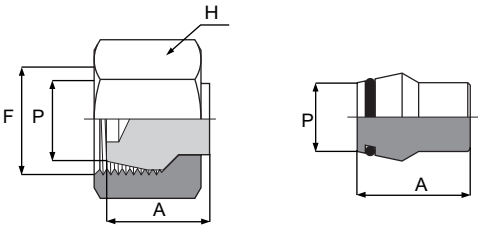


PART. REF.	THREADS	DIMENSIONS mm			
	F (METR)	W.P. (bar)	P	A	H
A401200-06	M14x1,5	630	6,0	11,0	14
A401200-08	M16x1,5	630	8,0	13,0	17
A401200-10	M18x1,5	630	10,0	12,5	19
A401200-12	M20x1,5	630	12,0	14,5	22
A401200-14	M22x1,5	630	14,0	16,0	24
A401200-16	M24x1,5	400	16,0	15,5	27
A401200-20	M30x2,0	400	20,0	17,5	32
A401200-25	M36x2,0	400	25,0	20,0	41
A401200-30	M42x2,0	400	30,0	20,5	46
A401200-38	M52x2,0	315	38,0	23,0	55

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC



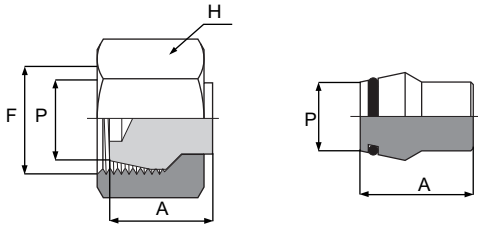
A411500

METRIC FEMALE PLUG, LIGHT TYPE (DIN 2353)

PART. REF.	THREADS	DIMENSIONS mm			
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	F (METR)	W.P. (bar)	P	A	H
A41151600-06	M12x1,5	315	6,0	13,5	14
A41151600-08	M14x1,5	315	8,0	14,0	17
A41151600-10	M16x1,5	315	10,0	18,0	19
A41151600-12	M18x1,5	315	12,0	19,0	22
A411500-15-22	M22x1,5	315	15,0	19,0	27
A411500-18-26	M26x1,5	315	18,0	20,0	32
A411500-22-30	M30x2,0	160	22,0	20,5	36
A411500-28-36	M36x2,0	160	28,0	20,5	41
A411500-35-45	M45x2,0	160	35,0	20,5	50
A411500-42-52	M52x2,0	160	42,0	20,5	60

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A411600

METRIC FEMALE PLUG, HEAVY TYPE (DIN 2353)

PART. REF.	THREADS	DIMENSIONS mm			
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	F (METR)	W.P. (bar)	P	A	H
A41151600-06	M14x1,5	630	6,0	13,5	17
A41151600-08	M16x1,5	630	8,0	14,0	19
A41151600-10	M18x1,5	630	10,0	18,0	12
A41151600-12	M20x1,5	630	12,0	19,0	24
A411600-14-22	M22x1,5	630	14,0	19,0	27
A411600-16-24	M24x1,5	400	16,0	20,0	30
A411600-20-30	M30x2,0	400	20,0	20,0	36
A411600-25-36	M36x2,0	400	25,0	20,5	46
A411600-30-42	M42x2,0	400	30,0	20,5	50
A411600-38-52	M52x2,0	315	38,0	20,5	60

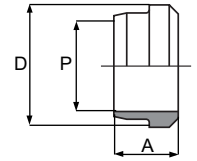
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

A421100

BITE RING, LIGHT TYPE (DIN 2353)

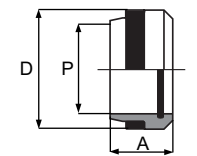


PART. REF.	WORKING PRESSURE	DIMENSIONS mm		
	W.P. (bar)	P	A	D
A421100-06-12	315	6,0	9,5	10,0
A421100-08-14	315	8,0	9,5	12,0
A421100-10-16	315	10,0	10,0	14,0
A421100-12-18	315	12,0	10,0	16,0
A421100-15-22	315	15,0	10,0	20,0
A421100-18-26	315	18,0	10,0	23,0
A421100-22-30	160	22,0	10,5	27,0
A421100-28-36	160	28,0	11,0	33,0
A421100-35-45	160	35,0	13,0	41,0
A421100-42-52	160	42,0	13,0	48,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A421100B4

BITE RING B4, LIGHT TYPE (DIN 2353)

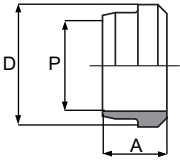


PART. REF.	WORKING PRESSURE	DIMENSIONS mm		
	W.P. (bar)	P	A	D
A421100-06-12B4	315	6,0	9,5	10,0
A421100-08-14B4	315	8,0	9,5	12,0
A421100-10-16B4	315	10,0	10,0	14,0
A421100-12-18B4	315	12,0	10,0	16,0
A421100-15-22B4	315	15,0	10,0	20,0
A421100-18-26B4	315	18,0	10,0	23,0
A421100-22-30B4	160	22,0	10,5	27,0
A421100-28-36B4	160	28,0	11,0	33,0
A421100-35-45B4	160	35,0	13,0	41,0
A421100-42-52B4	160	42,0	13,0	48,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

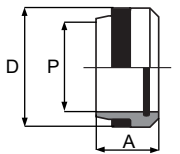


A421200

BITE RING, HEAVY TYPE (DIN 2353)

PART. REF.	WORKING PRESSURE	DIMENSIONS mm		
	W.P. (bar)	P	A	D
A421200-06-14	630	6,0	9,5	10,0
A421200-08-16	630	8,0	9,5	12,0
A421200-10-18	630	10,0	10,0	14,0
A421200-12-20	630	12,0	10,0	16,0
A421200-14-22	630	14,0	10,0	19,0
A421200-16-24	400	16,0	10,5	21,0
A421200-20-30	400	20,0	12,0	26,0
A421200-25-36	400	25,0	12,0	32,0
A421200-30-42	400	30,0	13,0	38,0
A421200-38-52	315	38,0	13,0	48,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A421200B4

BITE RING B4, HEAVY TYPE (DIN 2353)

PART. REF.	WORKING PRESSURE	DIMENSIONS mm		
	W.P. (bar)	P	A	D
A421200-06-14B4	630	6,0	9,5	10,0
A421200-08-16B4	630	8,0	9,5	12,0
A421200-10-18B4	630	10,0	10,0	14,0
A421200-12-20B4	630	12,0	10,0	16,0
A421200-14-22B4	630	14,0	10,0	19,0
A421200-16-24B4	400	16,0	10,5	21,0
A421200-20-30B4	400	20,0	12,0	26,0
A421200-25-36B4	400	25,0	12,0	32,0
A421200-30-42B4	400	30,0	13,0	38,0
A421200-38-52B4	315	38,0	13,0	48,0

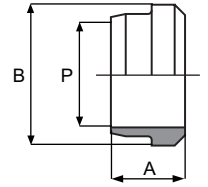
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

A421700

METRIC SLEEVE, FRENCH MILLIMETRIC TYPE

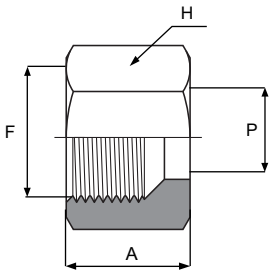


PART. REF.	WORKING PRESSURE	DIMENSIONS mm		
	W.P. (bar)	P	A	B
A421700-04-10	400	4,0	7,2	6,0
A421700-14-20	400	14,0	10,0	17,0
A421700-20-27	250	20,0	10,0	23,0
A421700-25-33	250	25,0	10,0	28,0
A421700-30-39	160	30,0	10,5	34,0
A421700-32-42	160	32,0	10,5	36,0
A421700-38-48	100	38,0	10,5	42,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC



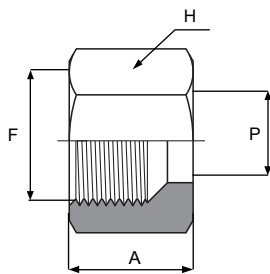
A431100

METRIC NUT, LIGHT TYPE (DIN 2353)

PART. REF.	THREADS	W.P.	DIMENSIONS mm		
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	F (METR)	bar	P	A	H
A431100-06-12	M12x1,5	315	6,0	14,5	14
A431100-08-14	M14x1,5	315	8,0	14,5	17
A431100-10-16	M16x1,5	315	10,0	15,5	19
A431100-12-18	M18x1,5	315	12,0	15,5	22
A431100-15-22	M22x1,5	315	15,0	17,0	27
A431100-18-26	M26x1,5	315	18,0	18,0	32
A431100-22-30	M30x2,0	160	22,0	20,0	36
A431100-28-36	M36x2,0	160	28,0	21,0	41
A431100-35-45	M45x2,0	160	35,0	24,0	50
A431100-42-52	M52x2,0	160	42,0	24,0	60

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A431200

METRIC NUT, HEAVY TYPE (DIN 2353)

PART. REF.	THREADS	W.P.	DIMENSIONS mm		
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	F (METR)	bar	P	A	H
A431200-06-14	M14x1,5	630	6,0	16,5	17
A431200-08-16	M16x1,5	630	8,0	16,5	19
A431200-10-18	M18x1,5	630	10,0	17,5	22
A431200-12-20	M20x1,5	630	12,0	17,5	24
A431200-14-22	M22x1,5	630	14,0	20,,5	27
A431200-16-24	M24x1,5	400	16,0	20,5	30
A431200-20-30	M30x2,0	400	20,0	24,0	36
A431200-25-36	M36x2,0	400	25,0	27,0	46
A431200-30-42	M42x2,0	400	30,0	29,0	50
A431200-38-52	M52x2,0	315	38,0	32,5	60

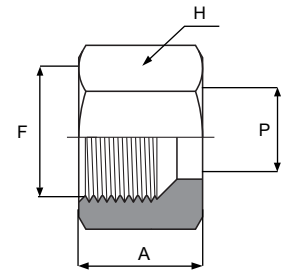
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

A431700

METRIC NUT, FRENCH MILLIMETRIC TYPE

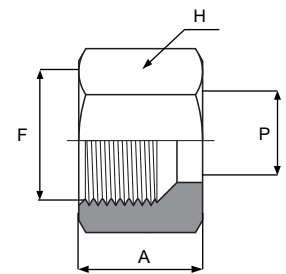


PART. REF.	THREADS	DIMENSIONS mm			W.P.
	F (METR)	P	A	H	bar
A431700-04-10	M10x1,0	4,0	12,0	12	400
A431700-06-12	M12x1,0	6,0	15,5	17	400
A431700-14-20	M20x1,5	14,0	17,0	27	400
A431700-18-27	M27x1,5	18,0	20,0	32	250
A431700-20-27	M27x1,5	20,0	24,5	36	250
A431700-25-33	M33x1,5	25,0	20,5	41	250
A431700-30-39	M39x1,5	30,0	21,5	46	160
A431700-32-42	M42x1,5	32,0	23,5	50	160
A431700-38-48	M48x1,5	38,0	24,5	60	160

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A431800

METRIC NUT, FRENCH GAZ TYPE

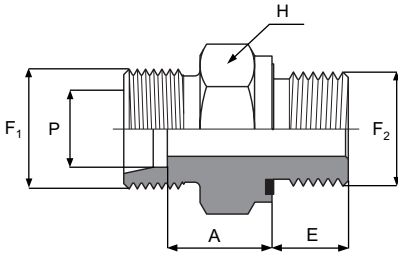


PART. REF.	THREADS	DIMENSIONS mm			W.P.
	F (METR)	P	A	H	bar
A431800-13-20H24	M20x1,5	13,25	17,0	24	400
A431800-13-20H27	M20x1,5	13,25	17,0	27	400
A431800-17-24	M24x1,5	16,75	18,0	30	400
A431800-21-30	M30x1,5	21,25	20,5	36	250
A431800-27-36	M36x1,5	26,75	21,5	46	250
A431800-33-45	M45x1,5	33,5	23,5	55	160
A431800-42-52	M52x1,5	42,25	24,5	65	100
A431800-49-58	M58x2,0	48,25	26,0	70	100

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC



A501106

METRIC MALE LIGHT TYPE (DIN 2353)
BSP MALE O'RING

PART. REF.	THREADS	W.P.	DIMENSIONS mm				
	F ₁ (METR)	F ₂ (BSP)	bar	P	A	H	E
A501106-06-02	M12x1,5	1/8" - 28	315	6,0	8,5	14	8,0
A501106-08-02	M14x1,5	1/8" - 28	315	8,0	9,5	14	8,0
A501106-10-02	M16x1,5	1/8" - 28	315	10,0	10,5	17	8,0
A501106-06-04	M12x1,5	1/4" - 19	315	6,0	10,0	19	12,0
A501106-08-04	M14x1,5	1/4" - 19	315	8,0	10,0	19	12,0
A501106-10-04	M16x1,5	1/4" - 19	315	10,0	11,0	19	12,0
A501106-12-04	M18x1,5	1/4" - 19	315	12,0	12,0	19	12,0
A501106-06-06	M12x1,5	3/8" - 19	315	6,0	11,5	22	12,0
A501106-08-06	M14x1,5	3/8" - 19	315	8,0	11,5	22	12,0
A501106-10-06	M16x1,5	3/8" - 19	315	10,0	12,5	22	12,0
A501106-12-06	M18x1,5	3/8" - 19	315	12,0	12,5	22	12,0
A501106-15-06	M22x1,5	3/8" - 19	315	15,0	13,5	24	12,0
A501106-08-08	M14x1,5	1/2" - 14	315	8,0	12,0	27	4,0
A501106-10-08	M16x1,5	1/2" - 14	315	10,0	13,0	27	14,0
A501106-12-08	M18x1,5	1/2" - 14	315	12,0	13,0	27	14,0
A501106-15-08	M22x1,5	1/2" - 14	315	15,0	14,0	27	14,0
A501106-18-08	M26x1,5	1/2" - 14	315	18,0	14,5	27	14,0
A501106-22-08	M30x2,0	1/2" - 14	160	22,0	16,5	32	14,0
A501106-15-12	M22x1,5	3/4" - 14	315	15,0	15,0	32	16,0
A501106-18-12	M26x1,5	3/4" - 14	315	18,0	14,5	32	16,0
A501106-22-12	M30x2,0	3/4" - 14	160	22,0	16,5	32	16,0
A501106-22-16	M30x2,0	1" - 11	160	22,0	17,5	41	18,0
A501106-28-16	M36x2,0	1" - 11	160	28,0	17,5	41	18,0
A501106-35-16	M45x2,0	1" - 11	160	35,0	17,5	46	18,0
A501106-35-20	M45x2,0	1.1/4" - 11	160	35,0	17,5	50	20,0
A501106-42-24	M52x2,0	1.1/2" - 11	160	42,0	19,0	55	22,0

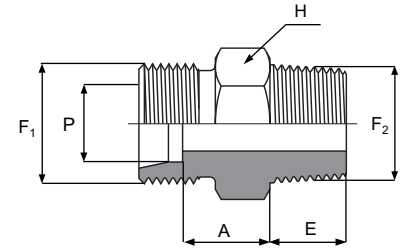
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

A501107

BSP MALE TAPERED (ISO 7)
METRIC MALE LIGHT TYPE (DIN 2353)

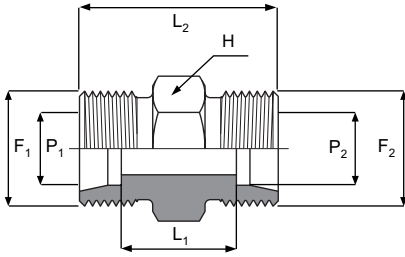


PART. REF.	THREADS	W.P.	DIMENSIONS mm				
	F1 (METR)	F2 (BSPT)	bar	P	A	H	E
A501107-06-02	M12x1,5	1/8" - 28	315	6,0	7,0	12	8,0
A501107-06-04	M12x1,5	1/4" - 19	315	6,0	8,0	14	12,0
A501107-08-04	M14x1,5	1/4" - 19	315	8,0	8,0	17	12,0
A501107-08-06	M14x1,5	3/8" - 19	315	8,0	9,0	19	12,0
A501107-08-08	M14x1,5	1/2" - 14	315	8,0	9,0	22	14,0
A501107-10-04	M16x1,5	1/4" - 19	315	10,0	9,0	17	12,0
A501107-10-06	M16x1,5	3/8" - 19	315	10,0	10,0	19	12,0
A501107-10-08	M16x1,5	1/2" - 14	315	10,0	10,0	22	14,0
A501107-12-04	M18x1,5	1/4" - 19	315	12,0	10,0	19	12,0
A501107-12-06	M18x1,5	3/8" - 19	315	12,0	10,0	19	12,0
A501107-12-08	M18x1,5	1/2" - 14	315	12,0	10,0	22	14,0
A501107-15-06	M22x1,5	3/8" - 19	315	15,0	11,0	24	12,0
A501107-15-08	M22x1,5	1/2" - 14	315	15,0	11,0	24	14,0
A501107-18-08	M26x1,5	1/2" - 14	315	18,0	11,5	27	14,0
A501107-18-12	M26x1,5	3/4" - 14	315	18,0	11,5	32	16,0
A501107-22-12	M30x2,0	3/4" - 14	160	22,0	13,5	32	16,0
A501107-28-16	M36x2,0	1" - 11	160	28,0	14,5	41	18,0
A501107-35-20	M45x2,0	1.1/4" - 11	160	35,0	14,5	46	20,0
A501107-42-24	M52x2,0	1.1/2" - 11	160	42,0	16,0	55	22,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC



A501111

METRIC MALE LIGHT TYPE (DIN 2353)

PART. REF.	THREADS	W.P.	DIMENSIONS mm					
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	F1 (METR)	F2 (METR)	bar	P1	P2	L1	L2	H
A501111-06-06	M12x1,5	M12x1,5	315	6,0	6,0	10,0	24,0	12,0
A501111-08-06	M14x1,5	M12x1,5	315	8,0	6,0	11,0	25,0	14,0
A501111-08-08	M14x1,5	M14x1,5	315	8,0	8,0	11,0	25,0	14,0
A501111-10-06	M16x1,5	M12x1,5	315	10,0	6,0	12,0	26,0	17,0
A501111-10-08	M16x1,5	M14x1,5	315	10,0	8,0	12,0	26,0	17,0
A501111-10-10	M16x1,5	M16x1,5	315	10,0	10,0	13,0	27,0	17,0
A501111-12-06	M18x1,5	M12x1,5	315	12	6	13	27	19
A501111-12-08	M18x1,5	M14x1,5	315	12,0	8,0	13,0	27,0	19,0
A501111-12-10	M18x1,5	M16x1,5	315	12,0	10,0	14,0	28,0	19,0
A501111-12-12	M18x1,5	M18x1,5	315	12,0	12,0	14,0	28,0	19,0
A501111-15-10	M22x1,5	M16x1,5	315	15,0	10,0	15,0	29,0	24,0
A501111-15-12	M22x1,5	M18x1,5	315	15,0	12,0	15,0	29,0	24,0
A501111-15-15	M22x1,5	M22x1,5	315	15,0	15,0	16,0	30,0	24,0
A501111-18-10	M26x1,5	M16x1,5	315	18	10	15,5	30	27
A501111-18-12	M26x1,5	M18x1,5	315	18,0	12,0	15,5	30,0	27,0
A501111-18-15	M26x1,5	M22x1,5	315	18,0	15,0	16,5	31,0	27,0
A501111-18-18	M26x1,5	M26x1,5	315	18,0	18,0	16,0	31,0	27,0
A501111-22-15	M30x2,0	M22x1,5	160	22,0	15,0	18,5	33,0	32,0
A501111-22-18	M30x2,0	M26x1,5	160	22,0	18,0	18,0	33,0	32,0
A501111-22-22	M30x2,0	M30x2,0	160	22,0	22,0	20,0	35,0	32,0
A501111-28-18	M36x2,0	M26x1,5	160	28,0	18,0	19,0	34,0	41,0
A501111-28-22	M36x2,0	M30x2,0	160	28,0	22,0	21,0	36,0	41,0
A501111-28-28	M36x2,0	M36x2,0	160	28,0	28,0	21,0	36,0	41,0
A501111-35-22	M45x2,0	M30x2,0	160	35,0	22,0	21,0	39,0	46,0
A501111-35-28	M45x2,0	M36x2,0	160	35,0	28,0	21,0	39,0	46,0
A501111-35-35	M45x2,0	M45x2,0	160	35,0	35,0	20,0	41,0	46,0
A501111-42-42	M52x2,0	M52x2,0	160	42,0	42,0	21,0	43,0	55,0

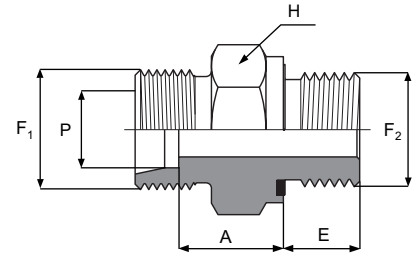
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

A501114

METRIC MALE (DIN 3852-11)
METRIC MALE, LIGHT TYPE (DIN 2353)

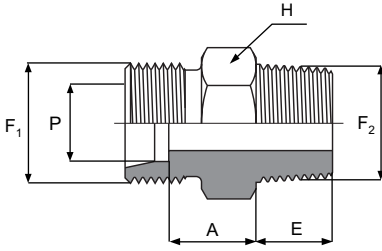


PART. REF.	THREADS		W.P.	DIMENSIONS mm			
	F1 (METR)	F2 (METR)	bar	P	A	H	E
A501114-06-10	M12x1,5	M10x1,0	315	6,0	8,5	14	8,0
A501114-08-12	M14x1,5	M12x1,5	315	8,0	10,0	17	12,0
A501114-10-14	M16x1,5	M14x1,5	315	10,0	11,0	19	12,0
A501114-10-16	M16x1,5	M16x1,5	315	10,0	12,5	22	12,0
A501114-10-18	M16x1,5	M18x1,5	315	10,0	12,5	24	12,0
A501114-12-14	M18x1,5	M14x1,5	315	12,0	12,5	19	12,0
A501114-12-16	M18x1,5	M16x1,5	315	12,0	12,5	22	12,0
A501114-12-18	M18x1,5	M18x1,5	315	12,0	12,5	24	12,0
A501114-12-22	M18x1,5	M22x1,5	315	12,0	14,0	27	14,0
A501114-15-18	M22x1,5	M18x1,5	315	15,0	13,5	24	12,0
A501114-15-22	M22x1,5	M22x1,5	315	15,0	15,0	27	14,0
A501114-18-18	M26x1,5	M18x1,5	315	18,0	14,0	27	12,0
A501114-18-22	M26x1,5	M22x1,5	160	18,0	14,5	27	14,0
A501114-22-22	M30x2,0	M22x1,5	160	22,0	16,5	32	14,0
A501114-22-26	M30x2,0	M26x1,5	160	22,0	16,5	32	16,0
A501114-28-33	M36x2,0	M33x2,0	160	28,0	17,5	41	18,0
A501114-35-42	M45x2,0	M42x2,0	160	35,0	17,5	50	20,0
A501114-42-48	M52x2,0	M48x2,0	160	42,0	19,0	55	22,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC



A501128

METRIC MALE LIGHT TYPE (DIN 2353)
NPTF MALE (SAE J476A)

PART. REF.	THREADS	W.P.	DIMENSIONS mm				
	F ₁ (METR)	F ₂ (NPTF)	bar	P	A	H	E
A501128-06-02	M12x1,5	1/8" - 27	315	6,0	7,0	12	10,0
A501128-06-04	M12x1,5	1/4" - 18	315	6,0	8,0	14	15,0
A501128-08-04	M14x1,5	1/4" - 18	315	8,0	8,0	17	15,0
A501128-08-06	M14x1,5	3/8" - 18	315	8,0	9,0	19	15,0
A501128-08-08	M14x1,5	1/2" - 14	315	8,0	9,5	22	19,5
A501128-10-04	M16x1,5	1/4" - 18	315	10,0	9,0	17	15,0
A501128-10-06	M16x1,5	3/8" - 18	315	10,0	10,0	19	15,0
A501128-12-04	M18x1,5	1/4" - 18	315	12,0	10,0	19	15,0
A501128-12-08	M18x1,5	1/2" - 14	315	12,0	10,5	22	19,5
A501128-15-08	M22x1,5	1/2" - 14	315	15,0	11,5	24	19,5
A501128-18-08	M26x1,5	1/2" - 14	315	18,0	12,0	27	19,5
A501128-18-12	M26x1,5	3/4" - 14	315	18,0	11,5	32	20,0
A501128-22-12	M30x2,0	3/4" - 14	160	22,0	13,5	32	20,0
A501128-28-16	M36x2,0	1" - 11 ^{1/2}	160	28,0	14,5	41	25,0
A501128-35-20	M45x2,0	1.1/4" - 11 ^{1/2}	160	35,0	15,0	46	25,5
A501128-42-24	M52x2,0	1.1/2" - 11 ^{1/2}	160	42,0	15,0	50	25,5

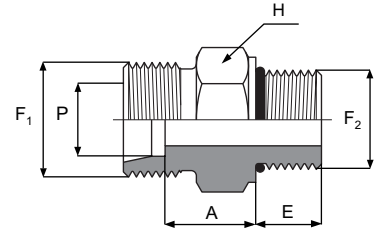
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

A501130

METRIC MALE LIGHT TYPE (DIN 2353)
SAE MALE O'RING BOSS TYPE (SAE J1926)

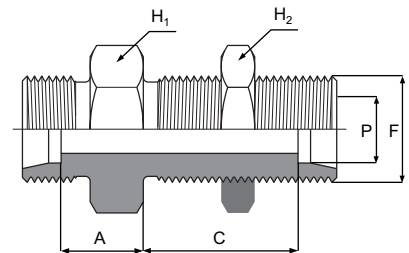


PART. REF.	THREADS		W.P.	DIMENSIONS mm			
	F ₁ (METR)	F ₂ (UNF)	bar	P	A	H	E
A501130-08-04	M14x1,5	7/16 - 20	315	8,0	9,9	14	9,1
A501130-10-04	M16x1,5	7/16 - 20	315	10,0	10,9	17	9,1
A501130-12-06	M18x1,5	9/16 - 18	315	12,0	11,0	19	10,0
A501130-12-08	M18x1,5	3/4" - 16	315	12,0	12,9	22	11,1
A501130-12-10	M18x1,5	7/8 - 14	315	12,0	14,3	27	12,7
A501130-15-08	M22x1,5	3/4" - 16	315	15,0	13,9	24	11,1
A501130-15-10	M22x1,5	7/8 - 14	315	15,0	14,5	27	12,7
A501130-18-08	M26x1,5	3/4" - 16	315	18,0	14,4	27	11,1
A501130-18-10	M26x1,5	7/8 - 14	315	18,0	14,8	27	12,7
A501130-22-10	M30x2	7/8" - 14	160	22	16,8	32	12,7

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A501177

METRIC MALE LIGHT TYPE
METRIC BULKHEAD MALE LIGHT TYPE (DIN 2353)

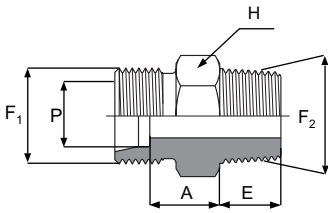


PART. REF.	THREADS	W.P.	DIMENSIONS mm				
	F ₁ (METR)	bar	P	A	H ₁	H ₂	C
A501177-06-06	M12x1,5	315	6,0	7,0	17	17	27,0
A501177-08-08	M14x1,5	315	8,0	8,0	19	19	27,0
A501177-10-10	M16x1,5	315	10,0	10,0	22	22	28,0
A501177-12-12	M18x1,5	315	12,0	10,0	24	24	29,0
A501177-15-15	M22x1,5	315	15,0	12,0	27	30	31,0
A501177-18-18	M26x1,5	315	18,0	13,5	32	36	32,5
A501177-22-22	M30x2,0	160	22,0	16,5	36	41	34,5
A501177-28-28	M36x2,0	160	28,0	18,5	41	46	35,5
A501177-35-35	M45x2,0	160	35,0	18,5	50	55	36,5
A501177-42-42	M52x2,0	160	42,0	19,0	60	65	36,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

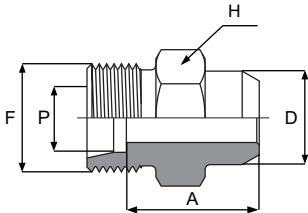


A501188

METRIC MALE LIGHT TYPE (DIN 2353)
METRIC MALE TAPERED

PART. REF.	THREADS	W.P.	DIMENSIONS mm				
	F ₁ (METR)	F ₂ (METR)	bar	P	A	H	E
A501188-06-10	M12x1,5	M10x1,0	315	6,0	7,0	12	8,0
A501188-08-12	M14x1,5	M12x1,5	315	8,0	8,0	17	12,0
A501188-10-14	M16x1,5	M14x1,5	315	10,0	9,0	17	12,0
A501188-12-16	M18x1,5	M16x1,5	315	12,0	10,0	19	12,0
A501188-15-18	M22x1,5	M18x1,5	315	15,0	11,0	24	12,0
A501188-18-22	M26x1,5	M22x1,5	315	18,0	11,5	27	14,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A501195

METRIC MALE LIGHT TYPE (DIN 2353)
WELDING PIPE

PART. REF.	THREADS	W.P.	DIMENSIONS mm				
	F (METR)	bar	P	A	H	D	
A501195-06-10	M12x1,5	315	6,0	14,0	12	10,0	
A501195-08-12	M14x1,5	315	8,0	16,0	14	12,0	
A501195-10-14	M16x1,5	315	10,0	18,0	17	14,0	
A501195-12-16	M18x1,5	315	12,0	18,0	19	16,0	
A501195-15-19	M22x1,5	315	15,0	22,0	22	19,0	
A501195-18-22	M26x1,5	315	18,0	23,5	27	22,0	
A501195-22-27	M30x2,0	160	22,0	28,5	32	27,0	
A501195-28-32	M36x2,0	160	28,0	30,5	41	32,0	
A501195-35-40	M45x2,0	160	35,0	32,5	46	40,0	
A501195-42-46	M52x2,0	160	42,0	35,0	55	46,0	

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

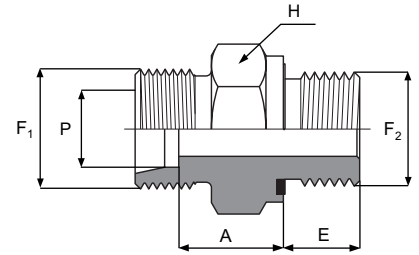
ADAPTORS

BRC

A501206

METRIC MALE HEAVY TYPE (DIN 2353)

BSP MALE O'RING

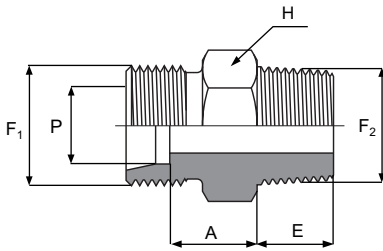


PART. REF.	THREADS	W.P.	DIMENSIONS mm				
	F1 (METR)	F2 (BSP)	bar	P	A	H	E
A501206-06-04	M14x1,5	1/4" - 19	630	6,0	13,0	19	12,0
A501206-08-04	M16x1,5	1/4" - 19	630	8,0	15,0	19	12,0
A501206-08-06	M16x1,5	3/8" - 19	630	8,0	15,5	22	12,0
A501206-10-04	M18x1,5	1/4" - 19	630	10,0	14,5	19	12,0
A501206-10-06	M18x1,5	3/8" - 19	630	10,0	15,0	22	12,0
A501206-10-08	M18x1,5	1/2" - 14	630	10,0	17,5	27	14,0
A501206-12-04	M20x1,5	1/4" - 19	630	12,0	16,5	22	12,0
A501206-12-06	M20x1,5	3/8" - 19	630	12,0	17,0	22	12,0
A501206-12-08	M20x1,5	1/2" - 14	630	12,0	17,5	27	14,0
A501206-14-06	M22x1,5	3/8" - 19	630	14,0	18,5	24	12,0
A501206-14-08	M22x1,5	1/2" - 14	630	14,0	19,0	27	14,0
A501206-16-06	M24x1,5	3/8" - 19	400	16,0	18,0	27	12,0
A501206-16-08	M24x1,5	1/2" - 14	400	16,0	18,5	27	14,0
A501206-16-12	M24x1,5	3/4" - 14	400	16,0	20,5	32	16,0
A501206-20-08	M30x2,0	1/2" - 14	400	20,0	20,5	32	14,0
A501206-20-12	M30x2,0	3/4" - 14	400	20,0	20,5	32	16,0
A501206-20-16	M30x2,0	1" - 11	400	20,0	22,5	41	18,0
A501206-25-12	M36x2,0	3/4" - 14	400	25,0	23,0	41	16,0
A501206-25-16	M36x2,0	1" - 11	400	25,0	23,0	41	18,0
A501206-30-16	M42x2,0	1" - 11	400	30,0	23,5	46	18,0
A501206-30-20	M42x2,0	1.1/4" - 11	400	30,0	23,5	50	20,0
A501206-38-20	M52x2,0	1.1/4" - 11	315	38,0	26,0	55	20,0
A501206-38-24	M52x2,0	1.1/2" - 11	315	38,0	26,0	55	22,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC



A501207

METRIC MALE HEAVY TYPE (DIN 2353)
BSP MALE TAPERED (ISO 7)

PART. REF.	THREADS	W.P.	DIMENSIONS mm				
	F ₁ (METR)	F ₂ (BSPT)	bar	P	A	H	E
A501207-06-04	M14x1,5	1/4" - 19	630	6,0	11,0	17	12,0
A501207-08-04	M16x1,5	1/4" - 19	630	8,0	13,0	17	12,0
A501207-10-06	M18x1,5	3/8" - 19	630	10,0	12,5	19	12,0
A501207-12-04	M20x1,5	1/4" - 19	630	12,0	14,5	22	13,0
A501207-12-06	M20x1,5	3/8" - 19	630	12,0	14,5	22	12,0
A501207-12-08	M20x1,5	1/2" - 14	630	12,0	14,5	22	14,0
A501207-14-06	M22x1,5	3/8" - 19	630	14,0	16,0	24	12,0
A501207-14-08	M22x1,5	1/2" - 14	630	14,0	16,0	24	14,0
A501207-16-08	M24x1,5	1/2" - 14	400	16,0	15,5	27	14,0
A501207-20-12	M30x2,0	3/4" - 14	400	20,0	17,5	32	16,0
A501207-25-16	M36x2,0	1" - 11	400	25,0	20,0	41	18,0
A501207-30-20	M42x2,0	1.1/4" - 11	400	30,0	20,5	46	20,0
A501207-38-24	M52x2,0	1.1/2" 11	315	38,0	23,0	55	22,0

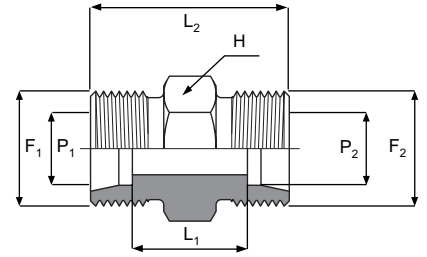
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

A501212

METRIC MALE HEAVY TYPE (DIN 2353)

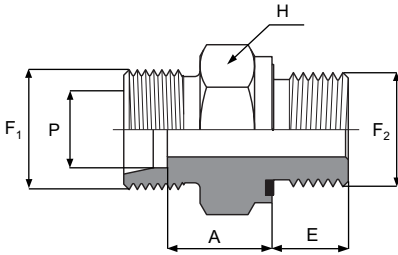


PART. REF.	THREADS		W.P.	DIMENSIONS mm				
	F ₁ (METR)	F ₂ (METR)		P ₁	P ₂	L ₁	L ₂	H
A501212-06-06	M14x1,5	M14x1,5	630	6	6	16	30	14
A501212-08-06	M16x1,5	M14x1,5	630	8	6	18	32	17
A501212-08-08	M16x1,5	M16x1,5	630	8	8	18	32	17
A501212-10-06	M18x1,5	M14x1,5	630	10	6	17,5	32	19
A501212-10-08	M18x1,5	M16x1,5	630	10	8	17,5	32	19
A501212-10-10	M18x1,5	M18x1,5	630	10	10	17	32	19
A501212-12-08	M20x1,5	M16x1,5	630	12	8	19,5	34	22
A501212-12-10	M20x1,5	M18x1,5	630	12	10	19	34	22
A501212-12-12	M20x1,5	M20x1,5	630	12	12	19	34	22
A501212-14-10	M22x1,5	M16x1,5	630	10	10	20,5	36	24
A501212-14-12	M22x1,5	M20x1,5	630	14	12	20,5	36	24
A501212-14-14	M22x1,5	M22x1,5	630	14	14	22	38	24
A501212-16-12	M24x1,5	M20x1,5	400	14	12	20	36	27
A501212-16-14	M24x1,5	M22x1,5	400	16	14	21,5	38	27
A501212-16-16	M24x1,5	M24x1,5	400	16	16	21	38	27
A501212-20-12	M30x2,0	M20x1,5	400	16	12	22	40	32
A501212-20-16	M30x2,0	M24x1,5	400	20	16	23	42	32
A501212-20-20	M30x2,0	M30x2,0	400	20	20	23	44	32
A501212-25-16	M36x2,0	M24x1,5	400	20	16	25,5	46	41
A501212-25-20	M36x2,0	M30x2,0	400	25	20	25,5	48	41
A501212-25-25	M36x2,0	M36x2,0	400	25	25	26	50	41
A501212-30-25	M42x2,0	M36x2,0	400	25	25	26,5	52	46
A501212-30-30	M42x2,0	M42x2,0	400	30	30	27	54	46
A501212-38-30	M52x2,0	M42x2,0	400	38	30	29,5	59	55
A501212-38-38	M52x2,0	M52x2,0	315	38	38	29	61	55

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC



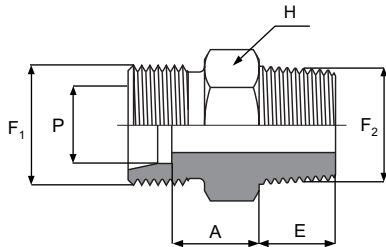
A501214

METRIC MALE HEAVY TYPE (DIN 2353)
METRIC MALE (DIN 3852-11)

PART. REF.	THREADS	W.P.	DIMENSIONS mm				
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	F ₁ (METR)	F ₂ (METR)	bar	P	A	H	E
A501214-06-12	M14x1,5	M12x1,5	630	6,0	13,0	17	12,0
A501214-08-14	M16x1,5	M14x1,5	630	8,0	15,0	19	12,0
A501214-10-16	M18x1,5	M16x1,5	630	10,0	15,0	22	12,0
A501214-12-18	M20x1,5	M18x1,5	630	12,0	17,0	24	12,0
A501214-12-22	M20x1,5	M22x1,5	630	12,0	17,5	27	14,0
A501214-14-20	M22x1,5	M20x1,5	630	14,0	19,0	27	14,0
A501214-16-18	M24x1,5	M18x1,5	400	16,0	18,0	27	12,0
A501214-16-22	M24x2,0	M22x1,5	400	16,0	18,5	27	14,0
A501214-20-27	M30x2,0	M27x2,0	400	20,0	20,5	32	16,0
A501214-25-27	M36x2	M27x2	400	25	23	41	16
A501214-25-33	M36x2,0	M33x2,0	400	25,0	23,0	41	18,0
A501214-30-42	M42x2,0	M42x2,0	400	30,0	23,5	50	20,0
A501214-38-48	M52x2,0	M48x2,0	315	38,0	26,0	55	22,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A501228

METRIC MALE HEAVY TYPE (DIN 2353)
NPTF MALE (SAE J476A)

PART. REF.	THREADS	W.P.	DIMENSIONS mm				
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	F ₁ (METR)	F ₂ (NPTF)	bar	P	A	H	E
A501228-06-04	M14x1,5	1/4" - 18	630	6,0	11,0	17	15,0
A501228-08-04	M16x1,5	1/4" - 18	630	8,0	13,0	17	15,0
A501228-10-06	M18x1,5	3/8" - 18	630	10,0	12,5	19	15,0
A501228-12-06	M20x1,5	3/8" - 18	630	12,0	14,5	22	15,0
A501228-12-08	M20x1,5	1/2" - 14	630	12,0	15,0	22	19,5
A501228-14-08	M22x1,5	1/2" - 14	630	14,0	16,5	24	19,5
A501228-16-08	M24x1,5	1/2" - 14	400	16,0	16,0	27	19,5
A501228-20-12	M30x2,0	3/4" - 14	400	20,0	17,5	32	20,0
A501228-25-16	M36x2,0	1" - 11 ^{1/2}	400	25,0	20,0	41	25,0
A501228-30-16	M42x2,0	1" - 11 ^{1/2}	400	30,0	20,5	46	25,0
A501228-30-20	M42x2,0	1.1/4" - 11 ^{1/2}	400	30,0	21,0	46	25,5

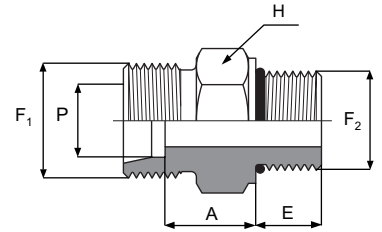
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

A501230

METRIC MALE HEAVY TYPE (DIN 2353)
SAE MALE O'RING BOSS TYPE (SAE J1926)

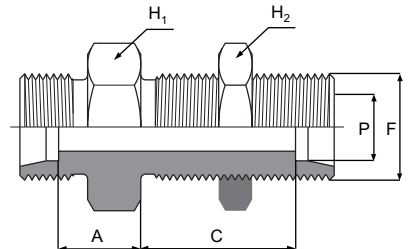


PART. REF.	THREADS	W.P.	DIMENSIONS mm				
	F ₁ (METR)	F ₂ (UNF)	bar	P	A	H	E
A501230-08-04	M16x1,5	7/16 - 20	630	8,0	14,9	17	9,1
A501230-10-06	M18x1,5	9/16 - 18	630	10,0	14,5	19	10,0
A501230-12-06	M20x1,5	9/16 - 18	630	12,0	14,5	22	10,0
A501230-16-08	M24x1,5	3/4" - 16	400	16,0	15,4	27	11,1
A501230-16-10	M24x1,5	7/8 - 14	400	16,0	18,8	27	12,7
A501230-20-08	M30x2,0	3/4" - 16	400	20,0	20,4	32	11,1
A501230-20-10	M30x2,0	7/8 - 14	400	20,0	20,8	32	12,7
A501230-20-12	M30x2,0	1.1/16 - 12	400	20,0	20,4	32	15,1

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A501287

METRIC MALE HEAVY TYPE
METRIC BULKHEAD MALE HEAVY TYPE (DIN 2353)

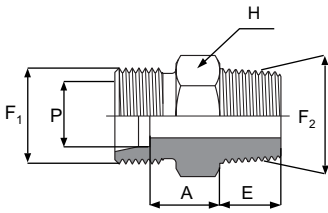


PART. REF.	THREADS	W.P.	DIMENSIONS mm				
	F ₁ (METR)	bar	P	A	H ₁	H ₂	C
A501287-06-06	M14x1,5	630	6,0	12,0	19	19	29,0
A501287-08-08	M16x1,5	630	8,0	13,0	22	22	29,0
A501287-10-10	M18x1,5	630	10,0	14,5	24	24	29,5
A501287-12-12	M20x1,5	630	12,0	14,5	27	27	30,5
A501287-14-14	M22x1,5	630	14,0	17,0	30	30	32,0
A501287-16-16	M24x1,5	400	16,0	16,5	32	32	31,5
A501287-20-20	M30x2,0	400	20,0	17,5	41	41	33,5
A501287-25-25	M36x2,0	400	25,0	20,0	46	46	35,0
A501287-30-30	M42x2,0	400	30,0	21,5	50	50	37,5
A501287-38-38	M52x2,0	315	38,0	22,0	65	65	37,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

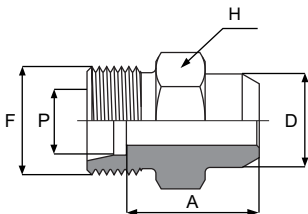


A501288

METRIC MALE HEAVY TYPE (DIN 2353)
METRIC MALE TAPERED

PART. REF.	THREADS		W.P.	DIMENSIONS mm			
	F ₁ (METR)	F ₂ (METR)		P	A	H	E
A501288-06-12	M14x1,5	M12x1,5	630	6,0	11,0	17	12,0
A501288-08-14	M16x1,5	M14x1,5	630	8,0	13,0	17	12,0
A501288-10-16	M18x1,5	M16x1,5	630	10,0	12,5	19	12,0
A501288-12-18	M20x1,5	M18x1,5	630	12,0	14,5	22	12,0
A501288-14-20	M22x1,5	M20x1,5	630	14,0	16,0	24	14,0
A501288-16-22	M24x1,5	M22x1,5	400	16,0	15,5	27	14,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A501295

METRIC MALE HEAVY TYPE (DIN 2353)
WELDING PIPE

PART. REF.	THREADS	W.P.	DIMENSIONS mm			
			F (METR)	P	A	H
A501295-06-11	M14x1,5	630	6,0	19,0	14	11,0
A501295-08-13	M16x1,5	630	8,0	21,0	17	13,0
A501295-10-15	M18x1,5	630	10,0	22,5	19	15,0
A501295-12-17	M20x1,5	630	12,0	24,5	22	17,0
A501295-14-19	M22x1,5	630	14,0	27,0	24	19,0
A501295-16-21	M24x1,5	400	16,0	26,5	27	21,0
A501295-20-26	M30x2,0	400	20,0	29,5	32	26,0
A501295-25-31	M36x2,0	400	25,0	32,0	41	31,0
A501295-30-36	M42x2,0	400	30,0	35,5	46	36,0
A501295-38-44	M52x2,0	315	38,0	38,0	55	44,0

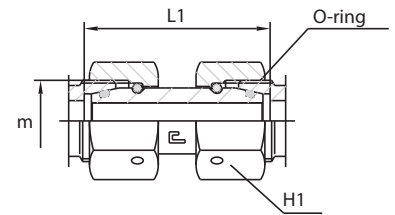
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

A511515

METRIC FEMALE CONNECTOR, LIGHT TYPE
STRAIGHT COUPLING WITH SWIVEL NUT (DIN 2353)

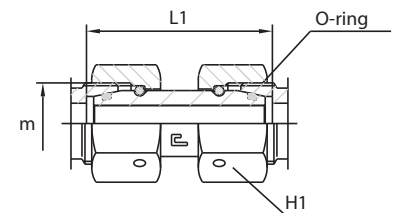


PART. REF.	THREADS	W.P.	DIMENSIONS mm		
		bar	PIPE	L ₁	H ₁
A511515-06-06	M12x1,5	315	6	40	14
A511515-08-08	M14x1,5	315	8	40	17
A511515-10-10	M16x1,5	315	10	39	19
A511515-12-12	M18x1,5	315	12	39	22
A511515-15-15	M22x1,5	315	15	45	27
A511515-18-18	M26x1,5	315	18	43	32
A511515-22-22	M30x2	160	22	48	36
A511515-28-28	M36x2	160	28	49	41
A511515-35-35	M45x2	160	35	60	50
A511515-42-42	M52x2	160	42	60	60

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A511616

METRIC FEMALE CONNECTOR, HEAVY TYPE
STRAIGHT COUPLING WITH SWIVEL NUT (DIN 2353)

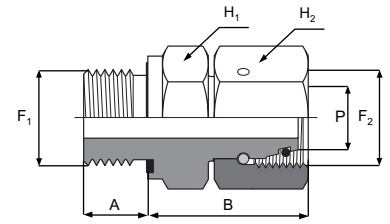


PART. REF.	THREADS	W.P.	DIMENSIONS mm		
		bar	PIPE	L ₁	H ₁
A511616-06-06	M14x1,5	630	6	37	17
A511616-08-08	M16x1,5	630	8	38	19
A511616-10-10	M18x1,5	630	10	44	22
A511616-12-12	M20x1,5	630	12	41	24
A511616-14-14	M22x1,5	630	14	44	27
A511616-16-16	M24x1,5	400	16	51	30
A511616-20-20	M30x2	400	20	56	36
A511616-25-25	M36x2	400	25	60	46
A511616-30-30	M42x2	400	30	62	50
A511616-38-38	M52x2	315	38	70	60

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A520615

BSP MALE
METRIC FEMALE LIGHT TYPE (DIN 2353)

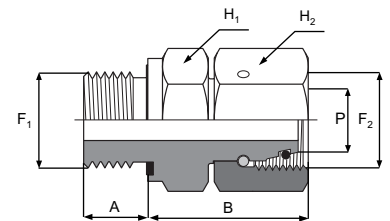


PART. REF.	THREADS	W.P.	DIMENSIONS mm					
	F ₁ (BSP)	F ₂ (METR)	bar	P	A	H ₁	H ₂	B
A520615-02-06	1/8" - 28	M12x1,5	315	6,0	8,0	14	14	24,5
A520615-04-08	1/4" - 19	M14x1,5	315	8,0	12,0	19	17	29,5
A520615-04-10	1/4" - 19	M16x1,5	315	10,0	12,0	19	19	27,5
A520615-06-12	3/8" - 19	M18x1,5	315	12,0	12,0	22	22	34,0
A520615-08-15	1/2" - 14	M22x1,5	315	15,0	14,0	27	27	32,0
A520615-08-18	1/2" - 14	M26x1,5	160	18,0	14,0	27	32	31,5
A520615-12-22	3/4" - 14	M30x2,0	160	22,0	16,0	32	36	32,5
A520615-16-28	1" - 11	M36x2,0	160	28,0	18,0	41	41	35,0
A520615-20-35	1.1/4" - 11	M45x2,0	160	35,0	20,0	50	50	42,5
A520615-24-42	1.1/2" - 11	M52x2,0	160	42,0	22,0	55	60	46,5

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A520616

BSP MALE
METRIC FEMALE HEAVY TYPE (DIN 2353)



PART. REF.	THREADS	W.P.	DIMENSIONS mm					
	F ₁ (BSP)	F ₂ (METR)	bar	P	A	H ₁	H ₂	B
A520616-04-06	1/4" - 19	M14x1,5	630	6,0	12,0	19	17	27,0
A520616-04-08	1/4" - 19	M16x1,5	630	8,0	12,0	19	19	29,5
A520616-06-10	3/8" - 19	M18x1,5	630	10,0	12,0	22	22	32,0
A520616-06-12	3/8" - 19	M20x1,5	630	12,0	12,0	22	24	34,0
A520616-08-14	1/2" - 14	M22x1,5	630	14,0	14,0	27	27	36,5
A520616-08-16	1/2" - 14	M24x1,5	400	16,0	14,0	27	30	37,0
A520616-08-20	1/2" - 14	M30x2,0	400	20,0	16,0	32	36	43,0
A520616-12-20	3/4" - 14	M30x2,0	400	20,0	16,0	32	36	43,0
A520616-16-25	1" - 11	M36x2,0	400	25,0	18,0	41	46	48,0
A520616-20-30	1.1/4" - 11	M42x2,0	400	30,0	20,0	50	50	51,0
A520616-24-38	1.1/2" - 11	M52x2,0	315	38,0	22,0	55	60	60,0

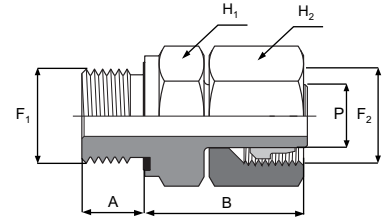
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

A520620

BSP MALE
METRIC FEMALE STANDPIPE, LIGHT TYPE (DIN 2353)

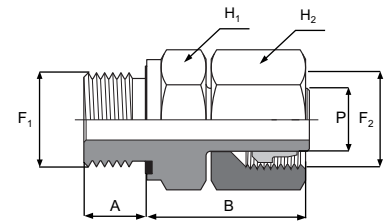


PART. REF.	THREADS		W.P.	DIMENSIONS mm				
	F ₁ (BSP)	F ₂ (METR)	bar	P	A	H ₁	H ₂	B
A520620-02-06	1/8" - 28	M12x1,5	315	6,0	8,0	14	14	24,5
A520620-04-08	1/4" - 19	M14x1,5	315	8,0	12,0	19	17	29,5
A520620-04-10	1/4" - 19	M16x1,5	315	10,0	12,0	19	19	27,5
A520620-04-12	1/4" - 19	M18x1,5	315	12,0	12,0	19	22	29,5
A520620-06-12	3/8" - 19	M18x1,5	315	12,0	12,0	22	22	34,0
A520620-08-12	1/2" - 14	M18x1,5	315	12,0	14,0	27	22	34,5
A520620-08-15	1/2" - 14	M22x1,5	315	15,0	14,0	27	27	32,0
A520620-08-18	1/2" - 14	M26x1,5	315	18,0	14,0	27	32	31,5
A520620-12-22	3/4" - 14	M30x2,0	160	22,0	16,0	32	36	32,5

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A520621

BSP MALE
METRIC FEMALE STANDPIPE, HEAVY TYPE (DIN 2353)

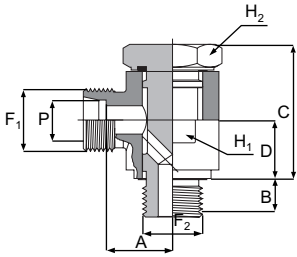


PART. REF.	THREADS		W.P.	DIMENSIONS mm				
	F ₁ (BSP)	F ₂ (METR)	bar	P	A	H ₁	H ₂	B
A520621-04-06	1/4" - 19	M14x1,5	630	6,0	12,0	19	17	27,0
A520621-04-08	1/4" - 19	M16x1,5	630	8,0	12,0	19	19	29,5
A520621-06-10	3/8" - 19	M18x1,5	630	10,0	12,0	22	22	32,0
A520621-06-12	3/8" - 19	M20x1,5	630	12,0	12,0	22	24	34,0
A520621-08-12	1/2" - 14	M20x1,5	630	12,0	14,0	27	24	35,0
A520621-08-14	1/2" - 14	M22x1,5	630	14,0	14,0	27	27	36,5
A520621-08-16	1/2" - 14	M24x1,5	400	16,0	14,0	27	30	37,0
A520621-12-16	3/4" - 14	M24x1,5	400	16,0	16,0	32	30	39,0
A520621-12-20	3/4" - 14	M30x2,0	400	20,0	16,0	32	36	43,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC



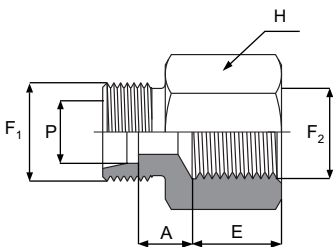
A521103

METRIC MALE, LIGHT TYPE (DIN 2353)
BSP BANJO COUPLING WITH ELASTOMER SEAL

PART. REF.	THREADS	W.P.	DIMENSIONS mm						
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	F ₂ (BSP)	bar	P	A	H ₁	H ₂	B	C	D
A521103-06-02	1/8" - 28	315	6,0	12,0	17	17	8,0	18,5	10,5
A521103-08-04	1/4" - 19	315	8,0	14,5	22	19	12,0	25,0	14,0
A521103-10-04	1/4" - 19	315	10,0	15,5	22	19	12,0	25,0	14,0
A521103-12-06	3/8" - 19	315	12,0	18,0	27	24	12,0	30,0	16,5
A521103-15-08	1/2" - 14	315	15,0	22,0	32	30	14,0	37,5	21,5
A521103-18-08	1/2" - 14	315	18,0	21,5	32	30	14,0	37,5	21,5
A521103-22-12	3/4 - 14	160	22,0	26,5	41	36	16,0	44,0	24,0
A521103-28-16	1" - 11	160	28,0	31,0	50	46	18,0	55,5	30,5
A521103-35-20	1.1/4" - 11	160	35,0	35,0	60	55	20,0	65,5	35,5
A521103-42-24	1.1/2" - 11	160	42,0	39,5	70	60	22,0	75,5	40,5

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A521104

METRIC MALE, LIGHT TYPE (DIN 2353)
BSP FIXED FEMALE

PART. REF.	THREADS	W.P.	DIMENSIONS mm				
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	F1 (METR)	F2 (BSP)	bar	P	A	H	E
A521104-06-02	M12x1,5	1/8" - 28	315	6,0	9,0	14	10,0
A521104-08-04	M14x1,5	1/4" - 19	315	8,0	10,0	19	14,0
A521104-08-06	M14x1,5	3/8" - 19	315	8,0	13,0	22	11,0
A521104-10-04	M16x1,5	1/4" - 19	315	10,0	11,0	19	14,0
A521104-12-04	M18x1,5	1/4" - 19	315	12,0	12,0	19	11,0
A521104-12-06	M18x1,5	3/8" - 19	315	12,0	12,0	24	14,0
A521104-12-08	M18x1,5	1/2" - 14	315	12,0	16,0	27	15,0
A521104-15-08	M22x1,5	1/2" - 14	315	15,0	14,0	27	17,0
A521104-18-08	M26x1,5	1/2" - 14	315	18,0	13,5	27	17,0
A521104-22-12	M30x2,0	3/4" - 14	160	22,0	16,5	36	19,0
A521104-28-16	M36x2,0	1" - 11	160	28,0	16,0	41	21,5
A521104-35-20	M42x2,0	1.1/4" - 11	160	35,0	18,0	55	23,5
A521104-42-24	M52x2,0	1.1/2" - 11	160	42,0	17,5	60	25,5

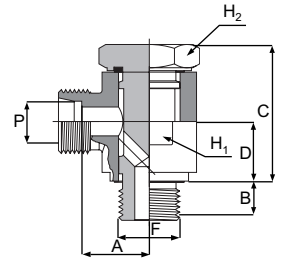
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

A521109

METRIC MALE, LIGHT TYPE (DIN 2353)
METRIC BANJO COUPLING WITH ELASTOMER SEAL

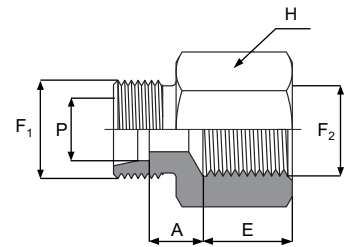


PART. REF.	THREADS	W.P.	DIMENSIONS mm						
	F (METR)	bar	P	A	H ₁	H ₂	B	C	D
A521109-06-10	M10x1,0	315	6,0	12,0	17	17	8,0	18,5	10,5
A521109-08-12	M12x1,5	315	8,0	14,5	22	19	12,0	25,0	14,0
A521109-10-14	M14x1,5	315	10,0	15,5	22	19	12,0	25,0	14,0
A521109-12-16	M16x1,5	315	12,0	18,0	27	24	12,0	30,0	16,5
A521109-15-18	M18x1,5	315	15,0	22,0	32	27	12,0	33,5	18,5
A521109-18-22	M22x1,5	315	18,0	21,5	32	30	14,0	37,5	21,5
A521109-22-26	M26x1,5	160	22,0	26,5	41	36	16,0	44,0	24,0
A521109-28-33	M33x2,0	160	28,0	31,0	50	46	18,0	55,5	30,5
A521109-35-42	M42x2,0	160	35,0	35,0	60	55	20,0	65,5	35,5
A521109-42-48	M48x2,0	160	42,0	39,5	70	60	22,0	75,5	40,5

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A521114

METRIC MALE, LIGHT TYPE (DIN 2353)
METRIC FIXED FEMALE (DIN 3852-11)



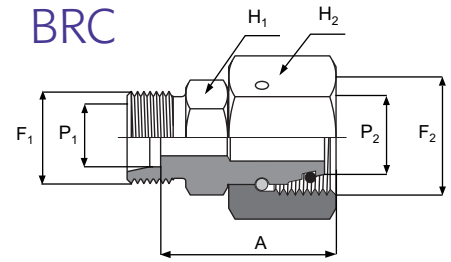
PART. REF.	THREADS		W.P.	DIMENSIONS mm			
	F ₁ (METR)	F ₂ (METR)	bar	P	A	H	E
A521114-06-10	M12x1,5	M10x1,0	315	6,0	9,0	14	10,0
A521114-08-12	M14x1,5	M12x1,5	315	8,0	9,5	17	14,5
A521114-10-14	M16x1,5	M14x1,5	315	10,0	10,5	19	14,5
A521114-12-16	M18x1,5	M16x1,5	315	12,0	11,5	22	14,5
A521114-15-18	M22x1,5	M18x1,5	315	15,0	16,5	24	14,5
A521114-18-22	M26x1,5	M22x1,5	315	18,0	14,0	30	16,5
A521114-22-26	M30x2,0	M26x1,5	160	22,0	16,0	32	18,5
A521114-28-33	M36x2,0	M33x2,0	160	28,0	16,5	41	21,0
A521114-35-42	M45x2,0	M42x2,0	160	35,0	17,5	55	23,0
A521114-42-48	M52x2,0	M48x2,0	160	42,0	18,0	60	25,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

A521115

REDUCING ADAPTOR WITH O'RING, LIGHT TYPE (DIN 2353)



PART. REF.	THREADS		W.P.	DIMENSIONS mm				
	F1 (METR)	F2 (METR)	bar	P1	P2	A	H1	H2
A521115-06-08	M12x1,5	M14x1,5	315	6,0	8,0	24,0	12	17
A521115-06-10	M12x1,5	M16x1,5	315	6,0	10,0	25,0	14	19
A521115-06-12	M12x1,5	M18x1,5	315	6,0	12,0	25,0	17	22
A521115-06-15	M12x1,5	M22x1,5	315	6,0	15,0	26,0	19	27
A521115-06-18	M12x1,5	M26x1,5	315	6,0	18,0	29,5	24	32
A521115-06-22	M12x1,5	M30x2,0	160	6,0	22,0	30,5	27	36
A521115-06-22	M12x1,5	M30x2,0	160	6,0	22,0	30,5	27	36
A521115-06-35	M12x1,5	M45x2,0	160	6,0	35,0	37,0	41	50
A521115-06-42	M12x1,5	M52x2,0	160	6,0	42,0	38,0	50	60
A521115-08-10	M14x1,5	M16x1,5	315	8,0	10,0	25,0	14	19
A521115-08-12	M14x1,5	M18x1,5	315	8,0	12,0	25,0	17	22
A521115-08-15	M14x1,5	M22x1,5	315	8,0	15,0	29,0	19	27
A521115-08-18	M14x1,5	M26x1,5	315	8,0	18,0	29,5	24	32
A521115-08-22	M14x1,5	M30x2,0	160	8,0	22,0	30,5	27	36
A521115-08-28	M14x1,5	M36x2,0	160	8,0	28,0	31,5	32	41
A521115-08-35	M14x1,5	M45x2,0	160	8,0	35,0	37,0	41	50
A521115-08-42	M14x1,5	M52x2,0	160	8,0	42,0	38,0	50	60
A521115-10-12	M16x1,5	M18x1,5	315	10,0	12,0	26,0	17	22
A521115-10-15	M16x1,5	M22x1,5	315	10,0	15,0	30,0	19	27
A521115-10-18	M16x1,5	M26x1,5	315	10,0	18,0	30,5	24	32
A521115-10-22	M16x1,5	M30x2,0	160	10,0	22,0	31,5	27	36
A521115-10-28	M16x1,5	M36x2,0	160	10,0	28,0	32,5	32	41
A521115-10-35	M16x1,5	M45x2,0	160	10,0	35,0	38,0	41	50
A521115-10-42	M16x1,5	M52x2,0	160	10,0	42,0	39,0	50	60
A521115-12-15	M18x1,5	M22x1,5	315	12,0	15,0	30,0	19	27
A521115-12-18	M18x1,5	M26x1,5	315	12,0	18,0	30,5	24	32
A521115-12-22	M18x1,5	M30x2,0	160	12,0	22,0	31,5	27	36
A521115-12-28	M18x1,5	M36x2,0	160	12,0	28,0	32,5	32	41
A521115-12-35	M18x1,5	M45x2,0	160	12,0	35,0	38,0	41	50
A521115-12-42	M18x1,5	M52x2,0	160	12,0	42,0	39,0	50	60
A521115-15-18	M22x1,5	M26x1,5	315	15,0	18,0	31,5	24	32
A521115-15-22	M22x1,5	M30x2,0	160	15,0	22,0	31,5	27	36
A521115-15-28	M22x1,5	M36x2,0	160	15,0	28,0	33,5	32	41
A521115-15-35	M22x1,5	M45x2,0	160	15,0	35,0	39,0	41	50
A521115-15-42	M22x1,5	M52x2,0	160	15,0	42,0	40,0	50	60
A521115-18-22	M26x1,5	M30x2,0	160	18,0	22,0	32,0	27	36
A521115-18-28	M26x1,5	M36x2,0	160	18,0	28,0	33,0	32	41

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

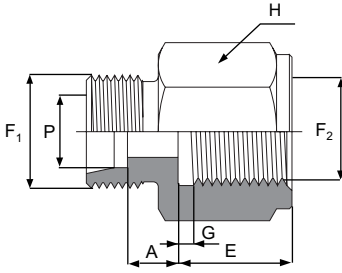
ADAPTORS

BRC

PART. REF.	THREADS		W.P.	DIMENSIONS mm				
	F ₁ (METR)	F ₂ (METR)		bar	P ₁	P ₂	A	H ₁
A521115-18-35	M26x1,5	M45x2,0	160	18,0	35,0	38,5	41	50
A521115-18-42	M26x1,5	M52x2,0	160	18,0	42,0	39,5	50	60
A521115-22-28	M30x2,0	M36x2,0	160	22,0	28,0	35,0	32	41
A521115-22-35	M30x2,0	M45x2,0	160	22,0	35,0	40,5	41	50
A521115-28-35	M36x2,0	M45x2,0	160	28,0	35,0	40,5	41	50
A521115-22-42	M30x2,0	M52x2,0	160	22,0	42,0	41,5	50	60
A521115-28-42	M36x2,0	M52x2,0	160	28,0	42,0	41,5	50	60
A521115-35-42	M45x2,0	M52x2,0	160	35,0	42,0	40,5	50	60

ADAPTORS

BRC



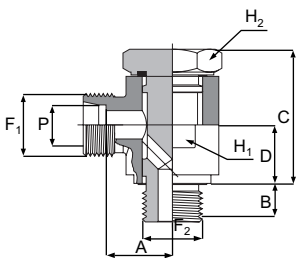
A521153

METRIC MALE, LIGHT TYPE (DIN 2353)
BSP PRESSURE GAUGE PORT

PART. REF.	THREADS	W.P.	DIMENSIONS mm					
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	F ₁ (METR)	F ₂ (BSP)	bar	P	A	H	E	G
A521153-06-04	M12x1,5	1/4" - 19	315	6,0	7,5	19	14,5	4,5
A521153-08-04	M14x1,5	1/4" - 19	315	8,0	7,5	19	14,5	4,5
A521153-10-04	M16x1,5	1/4" - 19	315	10,0	8,5	19	14,5	4,5
A521153-12-04	M18x1,5	1/4" - 19	315	12,0	8,5	19	14,5	4,5

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A521203

METRIC MALE, HEAVY TYPE (DIN 2353)
BSP BANJO COUPLING WITH ELASTOMER SEAL

PART. REF.	THREADS	W.P.	DIMENSIONS mm						
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	F ₂ (BSP)	bar	P	A	H ₁	H ₂	B	C	D
A521203-06-04	1/4" - 19	630	6,0	16,5	22	19	12,0	25,0	14,0
A521203-08-04	1/4" - 19	630	8,0	16,5	22	19	12,0	25,0	14,0
A521203-10-06	3/8" - 19	630	10,0	18,5	27	24	12,0	30,0	16,5
A521203-12-06	3/8" - 19	630	12,0	18,5	27	24	12,0	30,0	16,5
A521203-14-08	1/2" - 14	630	14,0	23,0	32	30	14,0	37,5	21,5
A521203-16-08	1/2" - 14	400	16,0	22,5	32	30	14,0	37,5	21,5
A521203-20-12	3/4" - 14	400	20,0	25,5	41	36	16,0	44,0	24,0
A521203-25-16	1" - 11	400	25,0	31,5	50	46	18,0	55,5	30,5
A521203-30-20	1.1/4" - 11	400	30,0	36,0	60	55	20,0	65,5	35,5
A521203-38-24	1.1/2" - 11	315	38,0	40,5	70	60	22,0	75,5	40,5

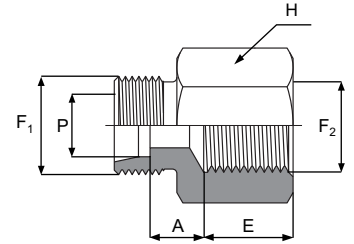
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

A521204

METRIC MALE, HEAVY TYPE (DIN 2353)
BSP FIXED FEMALE

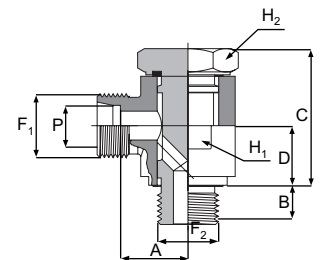


PART. REF.	THREADS	W.P.	DIMENSIONS mm				
	F ₁ (METR)	F ₂ (BSP)	bar	P	A	H	E
A521204-06-04	M14x1,5	1/4" - 19	630	6,0	12,0	19	14,0
A521204-08-04	M16x1,5	1/4" - 19	630	8,0	12,0	19	14,0
A521204-10-06	M18x1,5	3/8" - 19	630	10,0	12,5	24	14,0
A521204-12-06	M20x1,5	3/8" - 19	630	12,0	12,5	24	14,0
A521204-14-08	M22x1,5	1/2" - 14	630	14,0	15,0	30	17,0
A521204-16-08	M24x1,5	1/2" - 14	400	16,0	14,5	30	17,0
A521204-20-12	M30x2,0	3/4" - 14	400	20,0	15,5	36	19,0
A521204-25-16	M36x2,0	1" - 11	400	25,0	15,5	41	21,5
A521204-30-20	M42x2,0	1.1/4" - 11	400	30,0	19,0	55	23,5
A521204-38-24	M52x2,0	1.1/2" - 11	400	38,0	18,5	60	25,5

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A521209

METRIC MALE, HEAVY TYPE (DIN 2353)
METRIC BANJO COUPLING WITH ELASTOMER SEAL

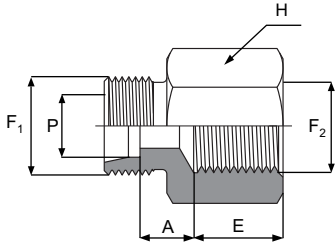


PART. REF.	THREADS	W.P.	DIMENSIONS mm						
	F (METR)	bar	P	A	H ₁	H ₂	B	C	D
A521209-06-12	M12x1,5	630	6,0	16,5	22	19	12,0	25,0	14,0
A521209-08-14	M14x1,5	630	8,0	16,5	22	19	12,0	25,0	14,0
A521209-10-16	M16x1,5	630	10,0	18,5	27	24	12,0	30,0	16,5
A521209-12-18	M18x1,5	630	12,0	21,5	32	24	12,0	33,5	18,5
A521209-14-20	M20x1,5	630	14,0	23,0	32	30	14,0	36,0	20,0
A521209-16-22	M22x1,5	400	16,0	22,5	32	30	14,0	37,5	21,5
A521209-20-27	M27x2,0	400	20,0	25,5	41	36	16,0	44,0	24,0
A521209-25-33	M33x2,0	400	25,0	31,5	50	46	18,0	55,5	30,5
A521209-30-42	M42x2,0	400	30,0	36,0	60	55	20,0	65,5	35,5
A521209-38-48	M48x2,0	400	38,0	40,5	70	60	22,0	75,5	40,5

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC



A521214

METRIC MALE, HEAVY TYPE (DIN 2353)
METRIC FIXED FEMALE (DIN 3852-11)

PART. REF.	THREADS		W.P.	DIMENSIONS mm			
	F ₁ (METR)	F ₂ (METR)	bar	P	A	H	E
A521214-06-12	M14x1,5	M12x1,5	630	6,0	11,5	17	14,5
A521214-08-14	M16x1,5	M14x1,5	630	8,0	11,5	19	14,5
A521214-10-16	M18x2,0	M16x2,0	630	10,0	12,0	22	14,5
A521214-12-18	M20x1,5	M18x1,5	630	12,0	12,0	24	14,5
A521214-14-20	M22x1,5	M20x1,5	630	14,0	13,5	27	14,5
A521214-16-22	M24x1,5	M22x1,5	400	16,0	14,0	30	17,0
A521214-20-27	M30x2,0	M27x2,0	400	20,0	15,5	36	19,0
A521214-25-33	M36x2,0	M33x2,0	400	25,0	16,0	41	21,0
A521214-30-42	M42x2,0	M42x2,0	400	30,0	19,5	55	23,0
A521214-38-48	M52x2,0	M48x2,0	315	38,0	19,0	60	25,0

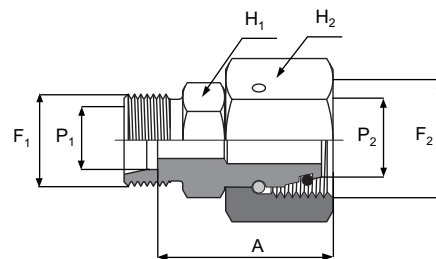
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

A521216

METRIC REDUCING ADAPTOR WITH O'RING, HEAVY TYPE
(DIN 2353)



PART. REF.	THREADS		W.P.	DIMENSIONS mm				
	F1 (METR)	F2 (METR)		P1	P2	A	H1	H2
A521216-06-08	M14x1,5	M16x1,5	630	6,0	8,0	29,0	14	19
A521216-06-10	M14x1,5	M18x1,5	630	6,0	10,0	31,5	17	22
A521216-06-12	M14x1,5	M20x1,5	630	6,0	12,0	31,0	17	24
A521216-06-14	M14x1,5	M22x1,5	630	6,0	14,0	34,0	19	27
A521216-06-16	M14x1,5	M24x1,5	400	6,0	16,0	38,5	22	30
A521216-06-20	M14x1,5	M30x2,0	400	6,0	20,0	41,0	27	36
A521216-06-25	M14x1,5	M36x2,0	400	6,0	25,0	45,5	32	46
A521216-06-30	M14x1,5	M42x2,0	400	6,0	30,0	50,0	41	50
A521216-06-38	M14x1,5	M52x2,0	315	6,0	38,0	52,0	50	60
A521216-08-10	M16x1,5	M18x1,5	630	8,0	10,0	31,0	17	22
A521216-08-12	M16x1,5	M20x1,5	630	8,0	12,0	31,0	17	24
A521216-08-14	M16x1,5	M22x1,5	630	8,0	14,0	34,0	19	27
A521216-08-16	M16x1,5	M24x1,5	400	8,0	16,0	38,5	22	30
A521216-08-20	M16x1,5	M30x2,0	400	8,0	20,0	41,0	27	36
A521216-08-25	M16x1,5	M36x2,0	400	8,0	25,0	45,5	32	46
A521216-08-30	M16x1,5	M42x2,0	400	8,0	30,0	50,0	41	50
A521216-08-38	M16x1,5	M52x2,0	315	8,0	38,0	52,0	50	60
A521216-10-12	M18x1,5	M20x1,5	630	10,0	12,0	30,5	19	24
A521216-10-14	M18x1,5	M22x1,5	630	10,0	14,0	33,5	19	27
A521216-10-16	M18x1,5	M24x1,5	400	10,0	16,0	38,0	22	30
A521216-10-20	M18x1,5	M30x2,0	400	10,0	20,0	40,5	27	36
A521216-10-25	M18x1,5	M36x2,0	400	10,0	25,0	45,0	32	46
A521216-10-30	M18x1,5	M42x2,0	400	10,0	30,0	49,5	41	50
A521216-10-38	M18x1,5	M52x2,0	315	10,0	38,0	51,5	50	60
A521216-12-14	M20x1,5	M22x1,5	630	12,0	14,0	35,5	22	27
A521216-12-16	M20x1,5	M24x1,5	400	12,0	16,0	38,0	22	30
A521216-12-20	M20x1,5	M30x2,0	400	12,0	20,0	40,5	27	36
A521216-12-25	M20x1,5	M36x2,0	400	12,0	25,0	45,0	32	46
A521216-12-30	M20x1,5	M42x2,0	400	12,0	30,0	49,5	41	50
A521216-12-38	M20x1,5	M52x2,0	315	12,0	38,0	51,5	50	60
A521216-14-16	M22x1,5	M24x1,5	400	14,0	16,0	39,5	24	30
A521216-14-20	M22x1,5	M22x1,5	400	14,0	20,0	42,0	27	36
A521216-14-25	M22x1,5	M36x2,0	400	14,0	25,0	46,5	32	46
A521216-14-30	M22x2,0	M42x2,0	400	14,0	30,0	51,0	41	50
A521216-14-38	M22x1,5	M52x2,0	315	14,0	38,0	53,0	50	60
A521216-16-20	M24x1,5	M30x2,0	400	16,0	20,0	41,5	27	36
A521216-16-25	M24X1,5	M36X2,0	400	16,0	25,0	46,0	32	46

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

PART. REF.	THREADS		W.P.	DIMENSIONS mm				
	F ₁ (METR)	F ₂ (METR)		bar	P ₁	P ₂	A	H ₁
A521216-16-30	M24x1,5	M42x2,0	400	16,0	30,0	50,5	41	50
A521216-16-38	M24x1,5	M52x2,0	315	16,0	38,0	52,5	50	60
A521216-20-25	M30x2,0	M36x2,0	400	20,0	25,0	46,0	32	46
A521216-20-30	M30x2,0	M42x2,0	400	20,0	30,0	50,5	41	50
A521216-20-38	M30x2,0	M52x2,0	315	20,0	38,0	52,5	50	60
A521216-25-30	M36x2,0	M42x2,0	400	25,0	30,0	51,0	41	50
A521216-25-38	M36x2,0	M52x2,0	315	25,0	38,0	53,0	50	60
A521216-30-38	M42x2,0	M52x2,0	315	30,0	38,0	53,5	50	60

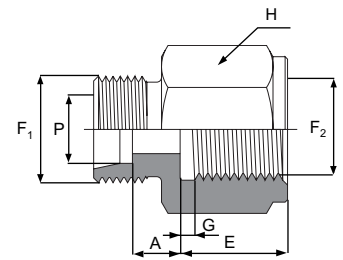
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

A521253

METRIC MALE, LIGHT TYPE (DIN 2353)
BSP PRESSURE GAUGE PORT

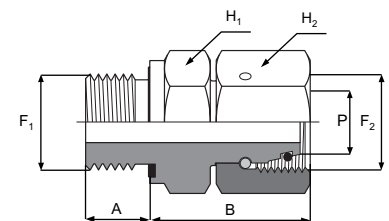


PART. REF.	THREADS		W.P.	DIMENSIONS mm				
	F ₁ (METR)	F ₂ (BSP)	bar	P	A	H	E	G
A521253-06-08	M14x1,5	1/2" - 14	630	6,0	11,0	30	20,0	5,0
A521253-08-08	M16x1,5	1/2" - 14	630	8,0	11,0	30	20,0	5,0
A521253-10-08	M18x1,5	1/2" - 14	630	10,0	10,5	30	20,0	5,0
A521253-12-08	M20x1,5	1/2" - 14	630	12,0	10,5	30	20,0	5,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A521415

METRIC MALE (DIN 3852-11)
METRIC FEMALE, LIGHT TYPE (DIN 2353)

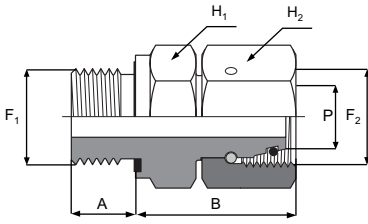


PART. REF.	THREADS		W.P.	DIMENSIONS mm				
	F ₁ (METR)	F ₂ (METR)	bar	P	A	H ₁	H ₂	B
A521415-10-06	M10x1,0	M12x1,5	315	6,0	8,0	14	14	24,5
A521415-12-08	M12x1,5	M14x1,5	315	8,0	12,0	17	17	26,5
A521415-14-10	M14x1,5	M16x1,5	315	10,0	12,0	19	19	27,5
A521415-16-12	M16x1,5	M18x1,5	315	12,0	12,0	22	22	30,5
A521415-18-15	M18x1,5	M22x1,5	315	15,0	12,0	24	27	31,5
A521415-22-18	M22x1,5	M26x1,5	315	18,0	14,0	27	32	31,5
A521415-26-22	M26x1,5	M30x2,0	160	22,0	16,0	32	36	32,5
A521415-33-28	M33x2,0	M36x2,0	160	28,0	18,0	41	41	35,0
A521415-42-35	M42x2,0	M45x2,0	160	35,0	20,0	50	50	42,5
A521415-48-42	M48x2,0	M52x2,0	160	42,0	22,0	55	60	46,5

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC



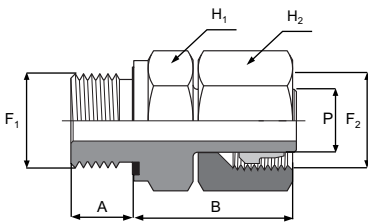
A521416

METRIC MALE (DIN 3852-11)
METRIC FEMALE, HEAVY TYPE (DIN 2353)

PART. REF.	THREADS	W.P.	DIMENSIONS mm					
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	F ₁ (METR)	F ₂ (METR)	bar	P	A	H ₁	H ₂	B
A521416-12-06	M12x1,5	M14x1,5	630	6,0	12,0	17	17	27,0
A521416-14-08	M14x1,5	M16x1,5	630	8,0	12,0	19	19	29,5
A521416-16-10	M16x1,5	M18x1,5	630	10,0	12,0	22	22	32,0
A521416-18-12	M18x1,5	M20x1,5	630	12,0	12,0	24	24	34,0
A521416-20-14	M20x1,5	M22x1,5	630	14,0	14,0	27	27	36,5
A521416-22-16	M22x1,5	M24x1,5	400	16,0	14,0	27	30	37,0
A521416-27-20	M27x2,0	M30x2,0	400	20,0	16,0	32	36	43,0
A521416-33-25	M33x2,0	M36x2,0	400	25,0	18,0	41	46	48,0
A521416-42-30	M42x2,0	M42x2,0	400	30,0	20,0	50	50	51,0
A521416-48-38	M48x2,0	M52x2,0	315	38,0	22,0	55	60	60,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A521420

METRIC MALE (DIN 3852-11)
METRIC FEMALE STANDPIPE, LIGHT TYPE (DIN 2353)

PART. REF.	THREADS	W.P.	DIMENSIONS mm					
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	F ₁ (METR)	F ₂ (METR)	bar	P	A	H ₁	H ₂	B
A521420-10-06	M10x1,0	M12x1,5	315	6,0	8,0	14	14	24,5
A521420-12-08	M12x1,5	M14x1,5	315	8,0	12,0	17	17	26,5
A521420-14-10	M14x1,5	M16x1,5	315	10,0	12,0	19	19	27,5
A521420-16-12	M16x1,5	M18x1,5	315	12,0	12,0	22	22	30,5
A521420-18-15	M18x1,5	M22x1,5	315	15,0	12,0	24	27	31,5
A521420-22-18	M22x1,5	M26x1,5	315	18,0	14,0	27	32	31,5
A521420-26-22	M26x1,5	M30x2,0	160	22,0	16,0	32	36	32,5

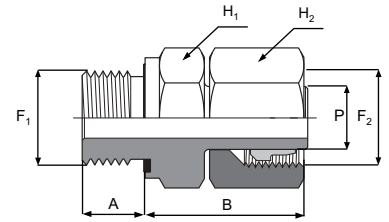
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

A521421

METRIC MALE (DIN 3852-11)
METRIC FEMALE STANDPIPE, HEAVY TYPE (DIN 2353)



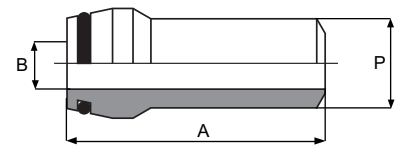
PART. REF.	THREADS	W.P.	DIMENSIONS mm					
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	F ₁ (METR)	F ₂ (METR)	bar	P	A	H ₁	H ₂	B
A521421-12-06	M12x1,5	M14x1,5	630	6,0	12,0	17	17	27,0
A521421-14-08	M14x1,5	M16x1,5	630	8,0	12,0	19	19	29,5
A521421-16-10	M16x1,5	M18x1,5	630	10,0	12,0	22	22	32,0
A521421-18-12	M18x1,5	M20x1,5	630	12,0	12,0	24	24	34,0
A521421-20-14	M20x1,5	M22x1,5	630	14,0	14,0	27	27	36,5
A521421-22-16	M22x1,5	M24x1,5	400	16,0	14,0	27	30	37,0
A521421-27-20	M27x2,0	M30x2,0	400	20,0	16,0	32	36	43,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A521695

WELDING FITTING WITH O'RING, HEAVY TYPE (DIN 2353)



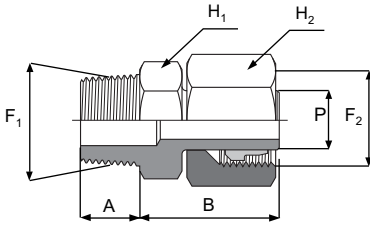
PART. REF.	WORKING PRESSURE	DIMENSIONS mm		
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	W.P. (bar)	P	A	B
A521695-08-08	630	8,0	31,0	4,0
A521695-10-10	400	10,0	32,5	6,0
A521695-12-12	630	12,0	32,5	7,0
A521695-14-14	400	14,0	38,5	8,0
A521695-16-16	400	16,0	39,0	10,0
A521695-20-20	400	20,0	45,0	12,0
A521695-25-25	315	25,0	49,5	17,0
A521695-30-30	250	30,0	52,0	22,0
A521695-38-52	250	38,0	56,5	28,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

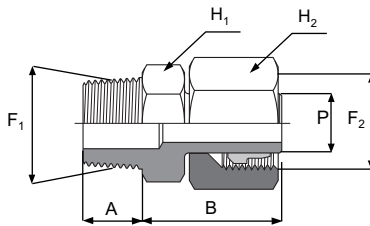


A522820

NPTF MALE (SAE J476A)
METRIC FEMALE STANDPIPE, LIGHT TYPE (DIN 2353)

PART. REF.	THREADS	W.P.	DIMENSIONS mm					
	F ₁ (NPTF)	F ₂ (METR)	W.P.	P	A	H ₁	H ₂	B
A522820-02-06	1/8" - 27	M12x1,5	315	6,0	10,0	12	14	23,0
A522820-04-08	1/4" - 18	M14x1,5	315	8,0	15,0	14	17	27,5
A522820-04-10	1/4" - 18	M16x1,5	315	10,0	15,0	14	19	25,5
A522820-06-12	3/8" - 18	M18x1,5	315	12,0	15,0	19	22	31,5
A522820-08-15	1/2" - 14	M22x1,5	315	15,0	19,5	22	27	29,0
A522820-08-18	1/2" - 14	M26x1,5	315	18,0	19,5	22	32	28,5
A522820-12-22	3/4" - 14	M30x2,0	160	22,0	20,0	27	36	29,5
A522820-16-28	1" - 11 ^{1/2}	M36x2,0	160	28,0	23,0	40	46	34,5
A522820-20-35	1.1/4" - 11 ^{1/2}	M45x2,0	160	35,0	25,5	46	50	39,5
A522820-24-42	1.1/2" - 11 ^{1/2}	M52x2,0	160	42,0	26,0	50	60	43,5

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A522821

NPTF MALE (SAE J476A)
METRIC FEMALE STANDPIPE, HEAVY TYPE (DIN 2353)

PART. REF.	THREADS	W.P.	DIMENSIONS mm					
	F ₁ (NPTF)	F ₂ (METR)	bar	P	A	H ₁	H ₂	B
A522821-04-06	1/4" - 18	M14x1,5	630	6,0	15,0	14	17	25,0
A522821-04-08	1/4" - 18	M16x1,5	630	8,0	15,0	14	19	27,5
A522821-06-10	3/8" - 18	M18x1,5	630	10,0	15,0	19	22	29,5
A522821-06-12	3/8" - 18	M20x1,5	630	12,0	15,0	19	24	31,5
A522821-08-16	1/2" - 14	M24x1,5	400	16,0	19,5	22	30	34,0
A522821-12-20	3/4" - 14	M30x2,0	400	20,0	20,0	27	36	40,0
A522821-16-25	1" - 11 ^{1/2}	M36x2,0	400	25,0	25,0	36	46	45,0
A522821-20-30	1.1/4" - 11 ^{1/2}	M42x2,0	400	30,0	25,5	46	50	48,0
A522821-24-38	1.1/2" - 11 ^{1/2}	M52x2,0	315	38,0	26,0	50	60	57,0

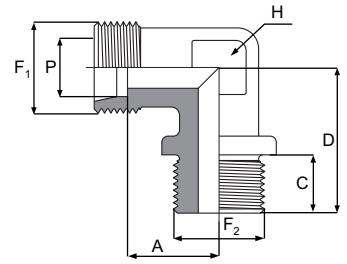
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

A561106

METRIC MALE, LIGHT TYPE (DIN 2353)
BSP FLAT FACE MALE, 90° ELBOW

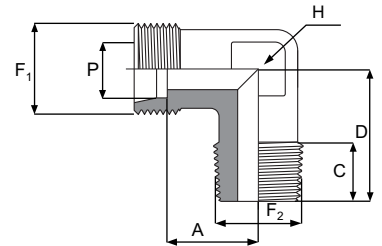


PART. REF.	THREADS		W.P.	DIMENSIONS mm				
	F ₁ (METR)	F ₂ (BSP)	bar	P	A	H	C	D
A561106-22-12	M30x2,0	3/4" - 14	160	22,0	27,5	27	15,0	43,5
A561106-28-16	M36x2,0	1" - 11	160	28,0	30,5	36	17,0	49,0
A561106-35-20	M45x2,0	1.1/4" - 11	160	35,0	34,5	41	19,0	57,0
A561106-42-24	M52x2,0	1.1/2" - 11	160	42,0	40,0	50	20,0	64,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A561107

METRIC MALE, LIGHT TYPE (DIN 2353)
BSP MALE TAPERED (ISO 7), 90° ELBOW

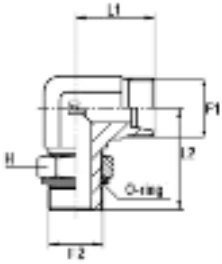


PART. REF.	THREADS		W.P.	DIMENSIONS mm				
	F ₁ (METR)	F ₂ (BSPT)	bar	P	A	H	C	D
A561107-06-02	M12x1,5	1/8" - 28	315	6,0	12,0	12	8,0	20,0
A561107-06-04	M12x1,5	1/4" - 19	315	6,0	14,0	12	12,0	26,0
A561107-08-02	M14x1,5	1/8" - 28	315	8,0	14,0	12	8,0	22,0
A561107-08-04	M14x1,5	1/4" - 19	315	8,0	14,0	12	12,0	26,0
A561107-08-06	M14x1,5	3/8" - 19	315	8,0	16,0	17	12,0	28,0
A561107-10-02	M16x1,5	1/8" - 28	315	10,0	15,0	14	8,0	22,0
A561107-10-04	M16x1,5	1/4" - 19	315	10,0	15,0	14	12,0	27,0
A561107-10-06	M16x1,5	3/8" - 19	315	10,0	17,0	17	12,0	28,0
A561107-12-04	M18x1,5	1/4" - 19	315	12,0	17,0	17	12,0	28,0
A561107-12-06	M18x1,5	3/8" - 19	315	12,0	17,0	17	12,0	28,0
A561107-12-08	M18x1,5	1/2" - 14	315	12,0	20,0	19	14,0	34,0
A561107-15-06	M22x1,5	3/8" - 19	315	15,0	21,0	19	12,0	30,0
A561107-15-08	M22x1,5	1/2" - 14	315	15,0	21,0	19	14,0	34,0
A561107-18-08	M26x1,5	1/2" - 14	315	18,0	23,5	24	14,0	36,0
A561107-22-12	M30x2,0	3/4" - 14	160	22,0	27,5	27	16,0	42,0
A561107-28-16	M36x2,0	1" - 11	160	28,0	30,5	36	18,0	48,0
A561107-35-20	M45x2,0	1.1/4" - 11	160	35,0	34,5	41	20,0	54,0
A561107-42-24	M52x2,0	1.1/2" - 11	160	42,0	40,0	50	22,0	61,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC



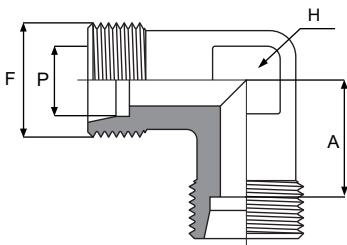
A561109

METRIC MALE, LIGHT TYPE (DIN 2353)
BSP MALE O'RING (ISO 1179-3), 90° ELBOW

PART. REF.	THREADS	W.P.	DIMENSIONS mm				
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	F ₁ (METR)	F ₂ (BSP)	W.P.	L ₁	L ₂	H	P
A561109-06-02	M12x1,5	1/8"	315	19,0	26,0	14	6,0
A561109-08-04	M14x1,5	1/4"	315	21,0	32,0	19	8,0
A561109-10-04	M16x1,5	1/4"	315	22,0	32,0	19	10,0
A561109-12-06	M18x1,5	3/8"	250	24,0	37,0	22	12,0
A561109-15-08	M22x1,5	1/2"	250	28,0	44,0	27	15,0
A561109-18-08	M26x1,5	1/2"	250	31,0	47,0	27	18,0
A561109-22-12	M30x2,0	3/4"	160	35,0	51,0	36	22,0
A561109-28-16	M36x2,0	1"	160	38,0	53,0	41	28,0
A561109-35-20	M45x2,0	1.1/4"	160	45,0	59,0	50	35,0
A561109-42-24	M52x2,0	1.1/2"	160	51,0	64,0	55	42,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A561111

METRIC MALE, LIGHT TYPE (DIN 2353), 90° EQUAL ELBOW

PART. REF.	THREADS	W.P.	DIMENSIONS mm			
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	F (METR)	W.P.	P	A	H
A561111-06-06	M12x1,5	315	6,0	12,0	12
A561111-08-08	M14x1,5	315	8,0	14,0	12
A561111-10-10	M16x1,5	315	10,0	15,0	14
A561111-12-12	M18x1,5	315	12,0	17,0	17
A561111-15-15	M22x1,5	315	15,0	21,0	19
A561111-18-18	M26x1,5	315	18,0	23,5	24
A561111-22-22	M30x2,0	160	22,0	27,5	27
A561111-28-28	M36x2,0	160	28,0	30,5	36
A561111-35-35	M45x2,0	160	35,0	34,5	41
A561111-42-42	M52x2,0	160	42,0	40,0	50

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

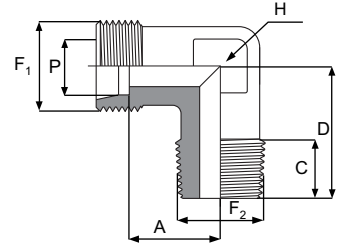
ADAPTORS

BRC

A561128

METRIC MALE, LIGHT TYPE (DIN 2353)

NPT MALE (SAE J476A), 90° ELBOW

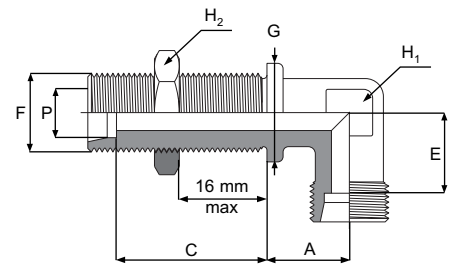


PART. REF.	THREADS	W.P.	DIMENSIONS mm					
	F ₁ (METR)	F ₂ (NPT)	bar	P	A	H ₁	C	D
A561128-06-02	M12x1,5	1/8" - 27	315	6,0	12,0	12	10,0	20,0
A561128-08-04	M14x1,5	1/4" - 18	315	8,0	14,0	12	15,0	26,0
A561128-10-04	M16x1,5	1/4" - 18	315	10,0	15,0	14	15,0	27,0
A561128-12-04	M18x1,5	1/4" - 18	315	12,0	17,0	17	15,0	28,0
A561128-12-06	M18x1,5	3/8" - 18	315	12,0	17,0	17	15,0	28,0
A561128-15-08	M22x1,5	1/2" - 14	315	15,0	21,0	19	19,5	34,0
A561128-18-08	M26x1,5	1/2" - 14	315	18,0	23,5	24	19,5	36,0
A561128-22-12	M30x2,0	3/4" - 14	160	22,0	27,5	27	20,0	42,0
A561128-28-16	M36x2,0	1" - 11 ^{1/2}	160	28,0	30,5	36	25,0	48,0
A561128-35-20	M45x2,0	1.1/4" - 11 ^{1/2}	160	35,0	34,5	41	25,5	57,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A561177

METRIC BULKHEAD MALE, LIGHT TYPE (DIN 2353), 90° ELBOW

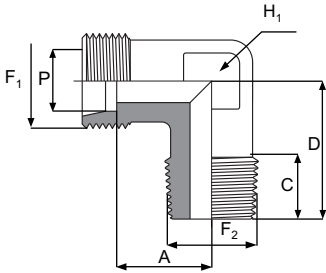


PART. REF.	THREADS	W.P.	DIMENSIONS mm						
	F (METR)	bar	P	A	H ₁	C	H ₂	E	G
A561177-06-06	M12x1,5	315	6,0	14,0	12	27,0	17	12,0	17,0
A561177-08-08	M14x1,5	315	8,0	17,0	12	27,0	19	14,0	19,0
A561177-10-10	M16x1,5	315	10,0	18,0	14	28,0	22	15,0	22,0
A561177-12-12	M18x1,5	315	12,0	20,0	17	29,0	24	17,0	24,0
A561177-15-15	M22x1,5	315	15,0	23,0	19	31,0	30	21,0	27,0
A561177-18-18	M26x1,5	315	18,0	24,0	24	32,5	36	23,5	32,0
A561177-22-22	M30x2,0	160	22,0	30,0	27	34,5	41	27,5	36,0
A561177-28-28	M36x2,0	160	28,0	34,0	36	35,5	46	30,5	42,0
A561177-35-35	M45x2,0	160	35,0	39,0	41	36,5	55	34,5	50,0
A561177-42-42	M52x2,0	160	42,0	43,0	50	36,0	65	40,0	60,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC



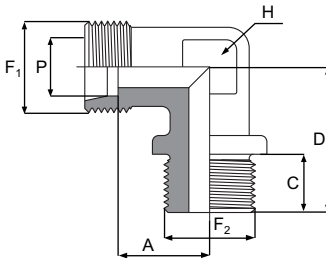
A561188

METRIC MALE, LIGHT TYPE (DIN 2353)
METRIC MALE TAPERED, 90° ELBOW

PART. REF.	THREADS	W.P.	DIMENSIONS mm					
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	F ₁ (METR)	F ₂ (METR)	bar	P	A	H ₁	C	D
A561188-06-10	M12x1,5	M10x1,0	315	6,0	12,0	12	8,0	20,0
A561188-08-12	M14x1,5	M12x1,5	315	8,0	14,0	12	12,0	26,0
A561188-10-14	M16x1,5	M14x1,5	315	10,0	15,0	14	12,0	27,0
A561188-12-16	M18x1,5	M16x1,5	315	12,0	17,0	17	12,0	28,0
A561188-15-18	M22x1,5	M18x1,5	315	15,0	21,0	19	12,0	32,0
A561188-18-22	M26x1,5	M22x1,5	315	18,0	23,5	24	14,0	36,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A561206

METRIC MALE, HEAVY TYPE (DIN 2353)
BSP FLAT FACE MALE, 90° ELBOW

PART. REF.	THREADS	W.P.	DIMENSIONS mm					
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	F ₁ (METR)	F ₂ (BSP)	bar	P	A	H	C	D
A561206-20-12	M30x2,0	3/4" - 14	400	20,0	26,5	27	15,0	43,5
A561206-25-16	M36x2,0	1" - 11	400	25,0	30,0	36	17,0	49,0
A561206-30-24	M42x2,0	1.1/4" - 11	400	30,0	41,0	50	20,0	64,0
A561206-38-24	M52x2,0	1.1/2" - 11	400	38,0	41,0	50	20,0	72,0

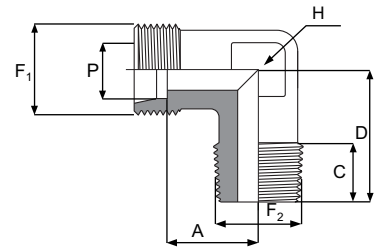
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

A561207

METRIC MALE HEAVY TYPE (DIN 2353)
BSP MALE TAPERED (ISO 7), 90° ELBOW

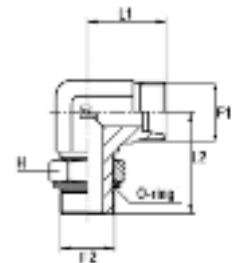


PART. REF.	THREADS		W.P.	DIMENSIONS mm				
	F ₁ (METR)	F ₂ (BSPT)	bar	P	A	H	C	D
A561207-06-04	M14x1,5	1/4" - 19	630	6,0	16,0	12	12,0	26,0
A561207-08-04	M16x1,5	1/4" - 19	630	8,0	17,0	14	12,0	27,0
A561207-08-06	M16x1,5	3/8" - 19	630	10,0	17,5	17	12,0	28,0
A561207-12-06	M20x1,5	3/8" - 19	630	12,0	21,5	17	12,0	28,0
A561207-12-08	M20x1,5	1/2" - 14	630	12,0	20,5	19	14,0	32,0
A561207-14-06	M22x1,5	3/8" - 19	630	14,0	22,0	19	12,0	30,0
A561207-14-08	M22x1,5	1/2" - 14	630	14,0	22,0	19	14,0	32,0
A561207-16-08	M24x1,5	1/2" - 14	400	16,0	24,5	24	14,0	32,0
A561207-20-12	M30x2,0	3/4" - 14	400	20,0	26,5	27	16,0	42,0
A561207-25-16	M36x2,0	1" - 11	400	25,0	30,0	36	18,0	48,0
A561207-30-20	M42x2,0	1.1/4" - 11	400	30,0	35,5	41	20,0	54,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A561209

METRIC MALE HEAVY TYPE (DIN 2353)
BSP MALE O'RING, 90° ELBOW

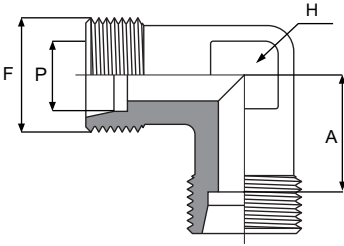


PART. REF.	THREADS		W.P.	DIMENSIONS mm			
	F ₁ (METR)	F ₂ (BSP)	bar	L ₁	L ₂	H	P
A561209-06-04	M14x1,5	1/4"	315	23,0	32,0	19	6,0
A561209-08-04	M16x1,5	1/4"	315	24,0	32,0	19	8,0
A561209-10-06	M18x1,5	3/8"	250	25,0	37,0	22	10,0
A561209-12-06	M20x1,5	3/8"	250	29,0	37,0	22	12,0
A561209-14-08	M22x1,5	1/2"	250	30,0	44,0	27	14,0
A561209-16-08	M24x1,5	1/2"	250	33,0	47,0	27	16,0
A561209-20-12	M30x2,0	3/4"	250	37,0	51,0	36	20,0
A561209-25-16	M36x2,0	1"	200	42,0	53,0	41	25,0
A561209-30-20	M45x2,0	1.1/4"	200	49,0	59,0	50	30,0
A561209-38-24	M52x2,0	1.1/2"	160	57,0	64,0	55	38,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC



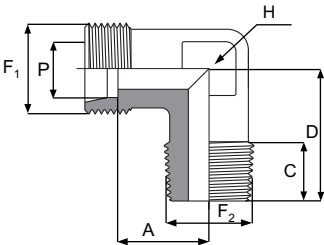
A561212

METRIC MALE HEAVY TYPE (DIN 2353), 90° ELBOW

PART. REF.	THREADS	W.P.	DIMENSIONS mm		
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	F (METR)	bar	P	A	H
A561212-06-06	M14x1,5	630	6,0	16,0	12
A561212-08-08	M16x1,5	630	8,0	17,0	14
A561212-10-10	M18x1,5	630	10,0	17,5	17
A561212-12-12	M20x1,5	630	12,0	21,5	17
A561212-14-14	M22x1,5	630	14,0	22,0	19
A561212-16-16	M24x1,5	400	16,0	24,5	24
A561212-20-20	M30x2,0	400	20,0	26,5	27
A561212-25-25	M36x2,0	400	25,0	30,0	36
A561212-30-30	M42x2,0	400	30,0	35,5	41
A561212-38-38	M52x2,0	400	38,0	41,0	50

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A561228

METRIC MALE, HEAVY TYPE (DIN 2353)
NPT MALE (SAE J476A), 90° ELBOW

PART. REF.	THREADS	W.P.	DIMENSIONS mm					
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	F ₁ (METR)	F ₂ (NPT)	bar	P	A	H ₁	C	D
A561228-08-04	M16x1,5	1/4" - 18	630	8,0	17,0	14	15,0	27,0
A561228-10-06	M18x1,5	3/8" - 18	630	10,0	17,5	17	15,0	28,0
A561228-12-06	M20x1,5	3/8" - 18	630	12,0	21,5	17	15,0	28,0
A561228-14-08	M22x1,5	1/2" - 14	630	14,0	22,0	19	19,5	34,0
A561228-16-08	M24x1,5	1/2" - 14	400	16,0	24,5	24	19,5	36,0
A561228-20-12	M30x2,0	3/4" - 14	400	20,0	26,5	27	20,0	42,0

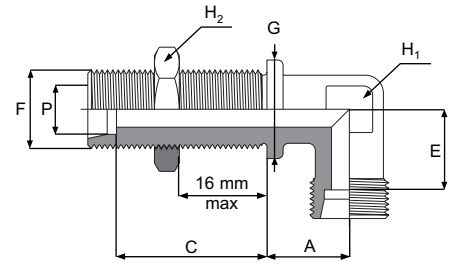
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

A561287

METRIC BULKHEAD MALE, HEAVY TYPE (DIN 2353), 90° ELBOW

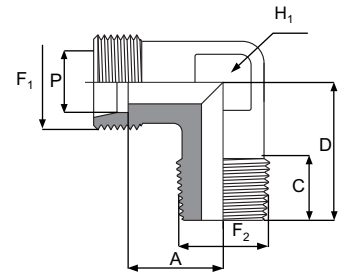


PART. REF.	THREADS	W.P.	DIMENSIONS mm						
	F (METR)	bar	P	A	H ₁	C	H ₂	E	G
A561287-06-06	M14x1,5	630	6,0	17,0	12	29,0	19	16,0	19,0
A561287-08-08	M16x1,5	630	8,0	18,0	14	29,0	22	17,0	22,0
A561287-10-10	M18x1,5	630	10,0	20,0	17	29,5	24	17,5	24,0
A561287-12-12	M20x1,5	630	12,0	21,0	17	30,5	27	21,5	27,0
A561287-14-14	M22x1,5	630	14,0	23,0	19	32,0	30	22,0	27,0
A561287-16-16	M24x1,5	400	16,0	24,0	24	31,5	32	24,5	30,0
A561287-20-20	M30x2,0	400	20,0	30,0	27	33,5	41	26,5	36,0
A561287-25-25	M36x2,0	400	25,0	34,0	36	35,0	46	30,0	42,0
A561287-30-30	M42x2,0	400	30,0	39,0	41	37,5	50	35,5	50,0
A561287-38-38	M52x2,0	400	38,0	43,0	50	37,0	65	41,0	60,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A561288

METRIC MALE, HEAVY TYPE (DIN 2353)
METRIC MALE TAPERED, 90° ELBOW

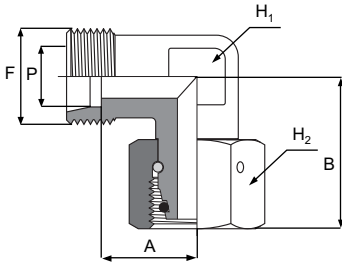


PART. REF.	THREADS	W.P.	DIMENSIONS mm					
	F ₁ (METR)	F ₂ (METR)	bar	P	A	H ₁	C	D
A561288-06-12	M14x1,5	M12x1,5	630	6,0	16,0	12	12,0	20,0
A561288-08-14	M16x1,5	M14x1,5	630	8,0	17,0	14	12,0	20,0
A561288-10-16	M18x1,5	M16x1,5	630	10,0	17,5	17	12,0	28,0
A561288-12-18	M20x1,5	M18x1,5	630	12,0	21,5	17	12,0	28,0
A561288-14-20	M22x1,5	M20x1,5	630	14,0	22,0	19	14,0	32,0
A561288-16-22	M24x1,5	M22x1,5	400	16,0	24,5	24	14,0	32,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC



A581115

METRIC FEMALE STUD ELBOW, LIGHT TYPE (DIN 2353)

PART. REF.	THREADS	W.P.	DIMENSIONS mm				
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	F (METR)	bar	P	A	H ₁	H ₂	B
A581115-06-12	M12x1,5	315	6,0	12,0	12	14	26,0
A581115-08-14	M14x1,5	315	8,0	14,0	12	17	27,0
A581115-10-16	M16x1,5	315	10,0	15,0	14	19	28,5
A581115-12-18	M18x1,5	315	12,0	17,0	17	22	29,0
A581115-15-22	M22x1,5	315	14,0	21,0	19	27	32,0
A581115-18-26	M26x1,5	315	18,0	23,5	24	32	35,0
A581115-22-30	M30x2,0	160	22,0	27,5	27	36	38,0
A581115-28-36	M36x2,0	160	28,0	30,5	36	41	41,5
A581115-35-45	M45x2,0	160	35,0	34,5	41	50	51,0
A581115-42-52	M52x2,0	160	42,0	40,0	50	60	56,0

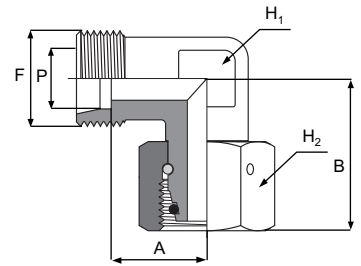
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

A581216

METRIC FEMALE STUD ELBOW, HEAVY TYPE (DIN 2353)

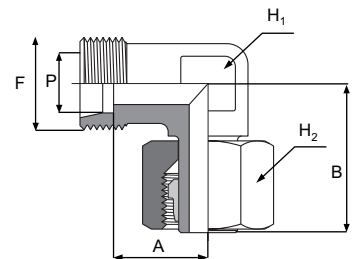


PART. REF.	THREADS	W.P.	DIMENSIONS mm				
	F (METR)	bar	P	A	H ₁	H ₂	B
A581216-06-14	M14x1,5	630	6,0	16,0	12	17	27,0
A581216-08-16	M16x1,5	630	8,0	17,0	14	19	27,0
A581216-10-18	M18x1,5	630	10,0	17,5	17	22	29,5
A581216-12-20	M20x1,5	630	12,0	21,5	17	24	30,5
A581216-14-22	M22x1,5	630	14,0	22,0	19	27	34,5
A581216-16-24	M24x1,5	400	16,0	24,5	24	30	36,0
A581216-20-30	M30x2,0	400	20,0	26,5	27	36	44,0
A581216-25-36	M36x2,0	400	25,0	30,0	36	46	49,5
A581216-30-42	M42x2,0	400	30,0	35,5	41	50	55,0
A581216-38-52	M52x2,0	315	38,0	41,0	50	60	63,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A581221

METRIC FEMALE STUD STANDPIPE 90° ELBOW, HEAVY TYPE (DIN 2353)

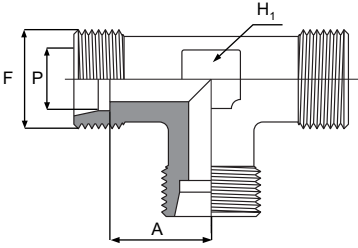


PART. REF.	THREADS	W.P.	DIMENSIONS mm				
	F (METR)	bar	P	A	H ₁	H ₂	B
A581221-06-14	M14x1,5	630	6,0	16,0	12	17	27,0
A581221-08-16	M16x1,5	630	8,0	17,0	14	19	27,5
A581221-10-18	M18x1,5	630	10,0	17,5	17	22	30,0
A581221-12-20	M20x1,5	630	12,0	21,5	17	24	31,0
A581221-14-22	M22x1,5	630	14,0	22,0	19	27	35,0
A581221-16-24	M24x1,5	400	16,0	24,5	24	30	36,5
A581221-20-30	M30x2,0	400	20,0	26,5	27	36	44,5

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

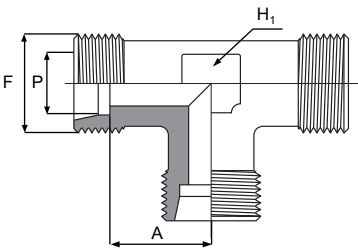


A701111

UNION TEE, LIGHT TYPE (DIN 2353)

PART. REF.	THREADS	W.P.	DIMENSIONS mm		
	F (METR)	bar	P	A	H ₁
A701111-06-06	M12x1,5	315	6,0	12,0	12
A701111-08-08	M14x1,5	315	8,0	14,0	12
A701111-10-10	M16x1,5	315	10,0	15,0	14
A701111-12-12	M18x1,5	315	12,0	17,0	17
A701111-15-15	M22x1,5	315	15,0	21,0	19
A701111-18-18	M26x1,5	160	18,0	23,5	24
A701111-22-22	M30x2,0	160	22,0	27,5	27
A701111-28-28	M36x2,0	160	28,0	30,5	36
A701111-35-35	M45x2,0	160	35,0	34,5	41
A701111-42-42	M52x2,0	160	42,0	40,0	50

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A701212

UNION TEE, HEAVY TYPE (DIN 2353)

PART. REF.	THREADS	W.P.	DIMENSIONS mm		
	F (METR)	bar	P	A	H ₁
A701212-06-06	M14x1,5	630	6,0	16,0	12
A701212-08-08	M16x1,5	630	8,0	17,0	14
A701212-10-10	M18x1,5	630	10,0	17,5	17
A701212-12-12	M20x1,5	630	12,0	21,5	17
A701212-14-14	M22x1,5	630	14,0	22,0	19
A701212-16-16	M24x1,5	400	16,0	24,5	24
A701212-20-20	M30x2,0	400	20,0	26,5	27
A701212-25-25	M36x2,0	400	25,0	30,0	36
A701212-30-30	M42x2,0	400	30,0	35,5	41
A701212-38-38	M52x2,0	400	38,0	41,0	50

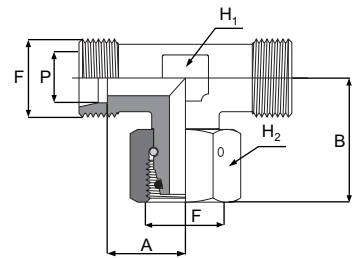
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

A711115

ADJUSTABLE STUD BRANCH TEE WITH O'RING, LIGHT TYPE (DIN 2353)

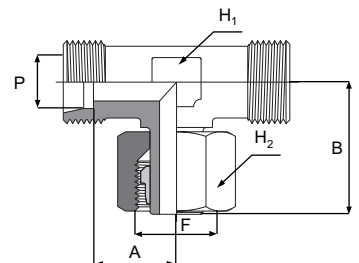


PART. REF.	THREADS	W.P.	DIMENSIONS mm				
	F (METR)	bar	P	A	H ₁	H ₂	B
A711115-06-12	M12x1,5	315	6,0	12,0	12	14	26,0
A711115-08-14	M14x1,5	315	8,0	14,0	12	17	27,5
A711115-10-16	M16x1,5	315	10,0	15,0	14	19	29,0
A711115-12-18	M18x1,5	315	12,0	17,0	17	22	29,5
A711115-15-22	M22x1,5	315	15,0	21,0	19	27	32,5
A711115-18-26	M26x1,5	315	18,0	23,5	24	32	35,5
A711115-22-30	M30x2,0	160	22,0	27,5	27	36	38,5
A711115-28-36	M36x2,0	160	28,0	30,5	36	41	41,5
A711115-35-45	M45x2,0	160	35,0	34,5	41	50	51,5
A711115-42-52	M52x2,0	160	42,0	40,0	50	60	56,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A711120

ADJUSTABLE STUD BRANCH TEE, LIGHT TYPE (DIN 2353)

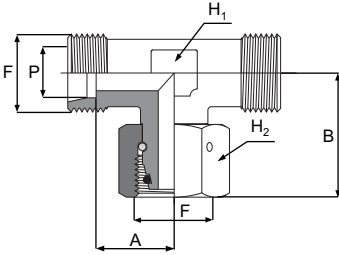


PART. REF.	THREADS	W.P.	DIMENSIONS mm				
	F (METR)	bar	P	A	H ₁	H ₂	B
A711120-06-12	M12x1,5	315	6,0	12,0	12	14	26,0
A711120-08-14	M14x1,5	315	8,0	14,0	12	17	27,0
A711120-10-16	M16x1,5	315	10,0	15,0	14	19	28,5
A711120-12-18	M18x1,5	315	12,0	17,0	17	22	29,0
A711120-15-22	M22x1,5	315	15,0	21,0	19	27	32,0
A711120-18-26	M26x1,5	315	18,0	23,5	24	32	35,0
A711120-22-30	M30x2,0	160	22,0	27,5	27	36	38,0
A711120-28-36	M36x2,0	160	28,0	30,5	36	41	41,5
A711120-35-45	M45x2,0	160	35,0	34,5	41	50	51,0
A711120-42-52	M52x2,0	160	42,0	40,0	50	60	56,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

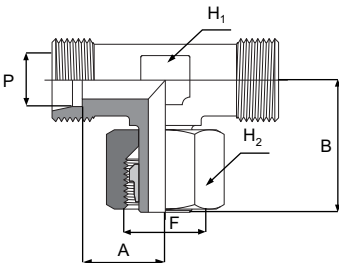


A711216

ADJUSTABLE STUD BRANCH TEE WITH O'RING, HEAVY TYPE (DIN 2353)

PART. REF.	THREADS	W.P.	DIMENSIONS mm				
	F (METR)	bar	P	A	H ₁	H ₂	B
A711216-06-14	M14x1,5	630	6,0	16,0	12	17	27,0
A711216-08-16	M16x1,5	630	8,0	17,0	14	19	27,5
A711216-10-18	M18x1,5	630	10,0	17,5	17	22	30,0
A711216-12-20	M20x1,5	630	12,0	21,5	17	24	31,0
A711216-14-22	M22x1,5	630	14,0	22,0	19	27	35,0
A711216-16-24	M24x1,5	400	16,0	24,5	24	30	36,5
A711216-20-30	M30x2,0	400	20,0	26,5	27	36	44,5
A711216-25-36	M36x2,0	400	25,0	30,0	36	46	50,0
A711216-30-42	M42x2,0	400	30,0	35,5	41	50	55,5
A711216-38-52	M52x2,0	315	38,0	41,0	50	60	63,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A711221

ADJUSTABLE STUD BRANCH TEE, HEAVY TYPE (DIN 2353)

PART. REF.	THREADS	W.P.	DIMENSIONS mm				
	F (METR)	bar	P	A	H ₁	H ₂	B
A711221-06-14	M14x1,5	630	6,0	16,0	12	17	27,0
A711221-08-16	M16x1,5	630	8,0	17,0	14	19	27,0
A711221-10-18	M18x1,5	630	10,0	17,5	17	22	29,5
A711221-12-20	M20x1,5	630	12,0	21,5	17	24	30,5
A711221-14-22	M22x1,5	630	14,0	22,0	19	27	34,5
A711221-16-24	M24x1,5	400	16,0	24,5	24	30	36,0
A711221-20-30	M30x2,0	400	20,0	26,5	27	36	44,0
A711221-25-36	M36x2,0	400	25,0	30,0	36	46	49,5
A711221-30-42	M42x2,0	400	30,0	35,5	41	50	55,0
A711221-38-52	M52x2,0	400	38,0	41,0	50	60	63,0

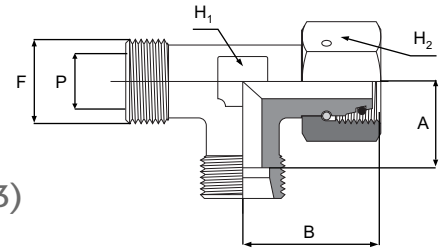
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

A721115

ADJUSTABLE STUD RUN TEE WITH O'RING, LIGHT TYPE (DIN 2353)

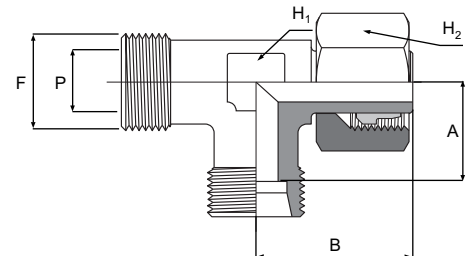


PART. REF.	THREADS	W.P.	DIMENSIONS mm				
	F (METR)	bar	P	A	H ₁	H ₂	B
A721115-06-12	M12x1,5	315	6,0	12,0	12	14	26,0
A721115-08-14	M14x1,5	315	8,0	14,0	12	17	27,5
A721115-10-16	M16x1,5	315	10,0	15,0	14	19	29,0
A721115-12-18	M18x1,5	315	12,0	17,0	17	22	29,5
A721115-15-22	M22x1,5	315	15,0	21,0	19	27	32,5
A721115-18-26	M26x1,5	160	18,0	23,5	24	32	35,5
A721115-22-30	M30x2,0	160	22,0	27,5	27	36	38,5
A721115-28-36	M36x2,0	160	28,0	30,5	36	41	41,5
A721115-35-45	M45x2,0	160	35,0	34,5	41	50	51,5
A721115-42-52	M52x2,0	160	42,0	40,0	50	60	56,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A721120

ADJUSTABLE STUD RUN TEE, LIGHT TYPE (DIN 2353)

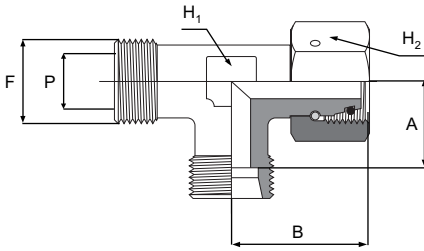


PART. REF.	THREADS	W.P.	DIMENSIONS mm				
	F (METR)	bar	P	A	H ₁	H ₂	B
A721120-06-12	M12x1,5	315	6,0	12,0	12	14	26,0
A721120-08-14	M14x1,5	315	8,0	14,0	12	17	27,0
A721120-10-16	M16x1,5	315	10,0	15,0	14	19	28,5
A721120-12-18	M18x1,5	315	12,0	17,0	17	22	29,0
A721120-15-22	M22x1,5	315	15,0	21,0	19	27	32,0
A721120-18-26	M26x1,5	315	18,0	23,5	24	32	35,0
A721120-22-30	M30x2,0	160	22,0	27,5	27	36	38,0
A721120-28-36	M36x2,0	160	28,0	30,5	36	41	41,5
A721120-35-45	M45x2,0	160	35,0	34,5	41	50	51,0
A721120-42-52	M52x2,0	160	42,0	40,0	50	60	56,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC



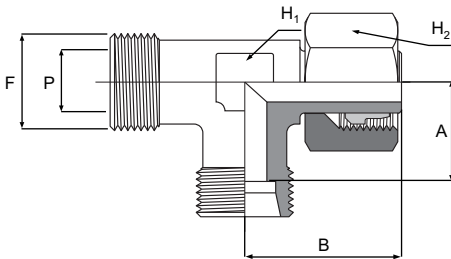
A721216

ADJUSTABLE STUD RUN TEE WITH O'RING, HEAVY TYPE (DIN 2353)

PART. REF.	THREADS	W.P.	DIMENSIONS mm				
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	F (METR)	bar	P	A	H ₁	H ₂	B
A721216-06-14	M14x1,5	630	6,0	16,0	12	17	27,0
A721216-08-16	M16x1,5	630	8,0	17,0	14	19	27,5
A721216-10-18	M18x1,5	630	10,0	17,5	17	22	30,0
A721216-12-20	M20x1,5	630	12,0	21,5	17	24	31,0
A721216-14-22	M22x1,5	630	14,0	22,0	19	27	35,0
A721216-16-24	M24x1,5	400	16,0	24,5	24	30	36,5
A721216-20-30	M30x2,0	400	20,0	26,5	27	36	44,5
A721216-25-36	M36x2,0	400	25,0	30,0	36	46	50,0
A721216-30-42	M42x2,0	400	30,0	35,5	41	50	55,5
A721216-38-52	M52x2,0	315	38,0	41,0	50	60	63,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A721221

ADJUSTABLE STUD RUN TEE, HEAVY TYPE (DIN 2353)

PART. REF.	THREADS	W.P.	DIMENSIONS mm				
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	F (METR)	bar	P	A	H ₁	H ₂	B
A721221-06-14	M14x1,5	630	6,0	16,0	12	17	27,0
A721221-08-16	M16x1,5	630	8,0	17,0	14	19	27,0
A721221-10-18	M18x1,5	630	10,0	17,5	17	22	29,5
A721221-12-20	M20x1,5	630	12,0	21,5	17	24	30,5
A721221-14-22	M22x1,5	630	14,0	22,0	19	27	34,5
A721221-16-24	M24x1,5	400	16,0	24,5	24	30	36,0
A721221-20-30	M30x2,0	400	20,0	26,5	27	36	44,0
A721221-25-36	M36x2,0	400	25,0	30,0	36	46	49,5
A721221-30-42	M42x2,0	400	30,0	35,5	41	50	55,0
A721221-38-52	M52x2,0	315	38,0	41,0	50	60	63,0

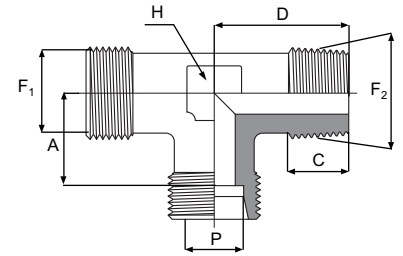
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

A761107

MALE STUD RUN TEE, LIGHT SERIES (DIN 2353)
BSP MALE TAPERED (ISO 7)

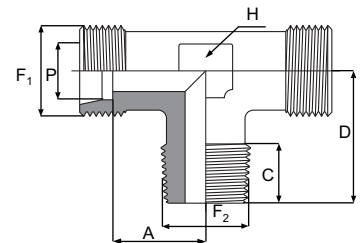


PART. REF.	THREADS		W.P.	DIMENSIONS mm				
	F ₁ (METR)	F ₂ (BSPT)		bar	P	A	H	C
A761107-08-04	M14x1,5	1/4" - 19	315	8,0	14,0	12	12,0	26,0
A761107-10-04	M16x1,5	1/4" - 19	315	10,0	15,0	14	12,0	27,0
A761107-12-06	M18x1,5	3/8" - 19	315	12,0	17,0	17	12,0	28,0
A761107-15-08	M22x1,5	1/2" - 14	315	15,0	21,0	19	14,0	34,0
A761107-18-08	M26x1,5	1/2" - 14	315	18,0	23,5	24	14,0	36,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

A781107

MALE STUD BRANCH TEE, LIGHT SERIES (DIN 2353)
BSP MALE TAPERED (ISO 7)

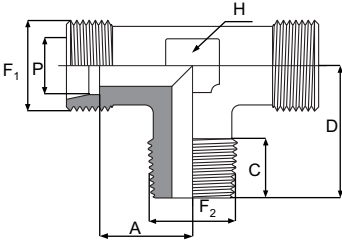


PART. REF.	THREADS		W.P.	DIMENSIONS mm				
	F ₁ (METR)	F ₂ (BSPT)		bar	P	A	H	C
A781107-06-02	M12x1,5	1/8" - 28	315	6,0	12,0	12	8,0	20,0
A781107-08-04	M14x1,5	1/4" - 19	315	8,0	14,0	12	12,0	26,0
A781107-10-04	M16x1,5	1/4" - 19	315	10,0	15,0	14	12,0	27,0
A781107-12-06	M18x1,5	3/8" - 19	315	12,0	17,0	17	12,0	28,0
A781107-15-08	M22x1,5	1/2" - 14	315	15,0	21,0	19	14,0	34,0
A781107-18-08	M26x1,5	1/2" - 14	315	18,0	23,5	24	14,0	36,0
A781107-22-12	M30x2,0	3/4" - 14	315	22,0	27,5	27	16,0	42,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC



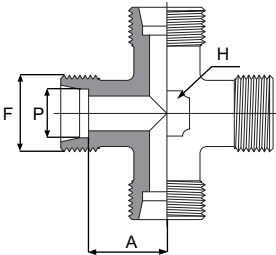
A781207

MALE STUD BRANCH TEE, HEAVY SERIES (DIN 2353)
BSP MALE TAPERED (ISO 7)

PART. REF.	THREADS	W.P.	DIMENSIONS mm					
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	F ₁ (METR)	F ₂ (BSPT)	bar	P	A	H	C	D
A781207-06-04	M14x1,5	1/4" - 19	630	6,0	16,0	12	12,0	26,0
A781207-08-04	M16x1,5	1/4" - 19	630	8,0	17,0	14	12,0	27,0
A781207-10-06	M18x1,5	3/8" - 19	630	10,0	17,5	17	12,0	28,0
A781207-12-06	M20x1,5	3/8" - 19	630	12,0	21,5	17	12,0	28,0
A781207-14-08	M22x1,5	1/2" - 14	630	14,0	22,0	19	14,0	32,0
A781207-16-08	M24x1,5	1/2" - 14	400	16,0	24,5	24	14,0	32,0

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



A901111

EQUAL CROSS, LIGHT TYPE (DIN 2353)

PART. REF.	THREADS	W.P.	DIMENSIONS mm			
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	F (METR)	bar	P	A	H
A901111-06-06	M12x1,5	315	6,0	12,0	12
A901111-08-08	M14x1,5	315	8,0	14,0	12
A901111-10-10	M16x1,5	315	10,0	15,0	14
A901111-12-12	M18x1,5	315	12,0	17,0	17
A901111-15-15	M22x1,5	315	15,0	21,0	19
A901111-18-18	M26x1,5	315	18,0	23,5	24
A901111-22-22	M30x2,0	160	22,0	27,5	27
A901111-28-28	M36x2,0	160	28,0	30,5	36
A901111-35-35	M45x2,0	160	35,0	34,5	41
A901111-42-42	M52x2,0	160	42,0	40,0	50

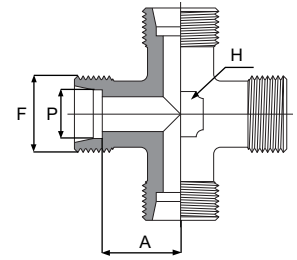
If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

BRC

A901212

EQUAL CROSS, HEAVY TYPE (DIN 2353)

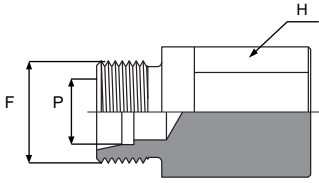


PART. REF.	THREADS	W.P.	DIMENSIONS mm		
	F (METR)	bar	P	A	H
A901212-06-06	M14x1,5	630	6,0	16,0	12
A901212-08-08	M16x1,5	630	8,0	17,0	14
A901212-10-10	M18x1,5	630	10,0	17,5	17
A901212-12-12	M20x1,5	630	12,0	21,5	17
A901212-14-14	M22x1,5	630	14,0	22,0	19
A901212-16-16	M24x1,5	400	16,0	24,5	24
A901212-20-20	M30x2,0	400	20,0	26,5	27
A901212-25-25	M36x2,0	400	25,0	30,0	36
A901212-30-30	M42x2,0	400	30,0	35,5	41
A901212-38-38	M52x2,0	400	38,0	41,0	50

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

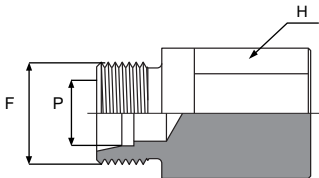
ACCESSORIES



PRE-ASSEMBLY TOOL FOR LIGHT
AND HEAVY TYPE BITE RING CONNECTORS (DIN 2353)

PART. REF.	THREADS	DIMENSIONS mm			
	F (METR)	P	H		
JG15532	M12x1,5	6,0	12		
JG15533	M14x1,5	8,0	14		
JG7143	M16x1,5	10,0	17		
JG7144	M18x1,5	12,0	19		
JG15536	M22x1,5	15,0	22		
JG15537	M26x1,5	18,0	27		
JG15538	M30x2,0	22,0	30		
JG15539	M36x2,0	28,0	36		
JG15541	M52x2,0	42,0	50		

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS



PRE-ASSEMBLY TOOL FOR LIGHT
AND HEAVY TYPE BITE RING CONNECTORS (DIN 2353)

PART. REF.	THREADS	DIMENSIONS mm			
	F (METR)	P	H		
JG15542	M14x1,5	6,0	14		
JG15543	M16x1,5	8,0	17		
JG15544	M18x1,5	10,0	19		
JG15545	M20x1,5	12,0	19		
JG15546	M22x1,5	14,0	22		
JG15547	M24x1,5	16,0	24		
JG15548	M30x2,0	20,0	30		
JG15549	M36x2,0	25,0	36		
JG15550	M42x2,0	30,0	41		

If You wish to order a fitting/ ferrule/ adaptor in stainless, please add at the end of code .SS

ADAPTORS

ACCESSORIES

METRIC STEEL PIPE (DIN 2391)
ZINC-PLATED METRIC STEEL PIPE (DIN 2391)
ALSO AVAILABLE IN STAINLESS STEEL



PART. REF.	PART. REF.	Outside diameter (O.D.)	Wall thickness	Max. DYNAMIC Working pressure	Max. STATIC Working pressure
(no coating)	(Zinc-plated)	mm	mm	bar	bar
P00450-6000	P00450-6000.Z	4	0,50	277	314
P00475-6000	P00475-6000.Z	4	0,75	415	472
P00410-6000	P00410-6000.Z	4	1,00	555	707
P00575-6000	P00575-6000.Z	5	0,75	332	377
P00510-6000	P00510-6000.Z	5	1,00	443	503
P00675-6000	P00675-6000.Z	6	0,75	294	334
P00610-6000	P00610-6000.Z	6	1,00	394	471
P00875-6000	P00875-6000.Z	8	0,75	294	334
P00810-6000	P00810-6000.Z	8	1,00	441	501
P00815-6000	P00815-6000.Z	8	1,50	436	530
P00820-6000	P00820-6000.Z	8	2,00	555	707
P01010-6000	P01010-6000.Z	10	1,00	249	283
P01015-6000	P01015-6000.Z	10	1,50	374	425
P01020-6000	P01020-6000.Z	10	2,00	499	566
P01025-6000	P01025-6000.Z	10	2,50	555	707
P01210-6000	P01210-6000.Z	12	1,00	207	236
P01215-6000	P01215-6000.Z	12	1,50	311	354
P01220-6000	P01220-6000.Z	12	2,00	394	472
P01410-6000	P01410-6000.Z	14	1,00	178	202
P01415-6000	P01415-6000.Z	14	1,50	267	303
P01420-6000	P01420-6000.Z	14	2,00	356	404
P01425-6000	P01425-6000.Z	14	2,50	445	506
P01510-6000	P01510-6000.Z	15	1,00	166	188

ADAPTORS

ACCESSORIES

PART. REF.	PART. REF.	Outside diameter (O.D.)	Wall thickness	Max. DYNAMIC Working pressure	Max. STATIC Working pressure
(no coating)	(Zinc-plated)	mm	mm	bar	bar
P01515-6000	P01515-6000.Z	15	1,50	249	283
P01520-6000	P01520-6000.Z	15	2,00	332	377
P01525-6000	P01525-6000.Z	15	2,50	415	472
P01530-6000	P01530-6000.Z	15	3,00	499	566
P01610-6000	P01610-6000.Z	16	1,00	155	177
P01615-6000	P01615-6000.Z	16	1,50	233	265
P01620-6000	P01620-6000.Z	16	2,00	311	354
P01625-6000	P01625-6000.Z	16	2,50	389	442
P01630-6000	P01630-6000.Z	16	3,00	467	531
P01818-6000	P01818-6000.Z	18	1,00	138	157
P01850-6000	P01850-6000.Z	18	1,50	207	236
P01820-6000	P01820-6000.Z	18	2,00	277	314
P01825-6000	P01825-6000.Z	18	2,50	346	393
P01830-6000	P01830-6000.Z	18	3,00	415	472
P02010-6000	P02010-6000.Z	20	1,00	124	141
P02015-6000	P02015-6000.Z	20	1,50	187	212
P02020-6000	P02020-6000.Z	20	2,00	249	283
P02025-6000	P02025-6000.Z	20	2,50	311	354
P02030-6000	P02030-6000.Z	20	3,00	374	425
P02035-6000	P02035-6000.Z	20	3,50	436	495
P02040-6000	P02040-6000.Z	20	4,00	499	566
P02210-6000	P02210-6000.Z	22	1,00	113	128
P02215-6000	P02215-6000.Z	22	1,50	170	193

ADAPTORS

ACCESSORIES

PART. REF.	PART. REF.	Outside diameter (O.D.)	Wall thickness	Max. DYNAMIC Working pressure	Max. STATIC Working pressure
(no coating)	(Zinc-plated)	mm	mm	bar	bar
P02220-6000	P02220-6000.Z	22	2,00	226	257
P02225-6000	P02225-6000.Z	22	2,50	283	322
P02230-6000	P02230-6000.Z	22	3,00	340	386
P02235-6000	P02235-6000.Z	22	3,50	397	450
P02240-6000	P02240-6000.Z	22	4,00	453	515
P02510-6000	P02510-6000.Z	25	1,00	99	113
P02515-6000	P02515-6000.Z	25	1,50	149	170
P02520-6000	P02520-6000.Z	25	2,00	199	228
P02525-6000	P02525-6000.Z	25	2,50	249	283
P02530-6000	P02530-6000.Z	25	3,00	267	303
P02535-6000	P02535-6000.Z	25	3,50	349	396
P02540-6000	P02540-6000.Z	25	4,00	399	453
P02545-6000	P02545-6000.Z	25	4,50	449	510
P02550-6000	P02550-6000.Z	25	5,00	499	566
P02810-6000	P02810-6000.Z	28	1,00	89	101
P02815-6000	P02815-6000.Z	28	1,50	133	151
P02820-6000	P02820-6000.Z	28	2,00	178	202
P02825-6000	P02825-6000.Z	28	2,50	222	253
P02830-6000	P02830-6000.Z	28	3,00	267	303
P02835-6000	P02835-6000.Z	28	3,50	311	354
P02840-6000	P02840-6000.Z	28	4,00	356	404
P02845-6000	P02845-6000.Z	28	4,50	401	455
P02850-6000	P02850-6000.Z	28	5,00	445	506
P03020-6000	P03020-6000.Z	30	2,00	166	188
P03025-6000	P03025-6000.Z	30	2,50	207	236
P03030-6000	P03030-6000.Z	30	3,00	249	283
P03035-6000	P03035-6000.Z	30	3,50	291	330
P03040-6000	P03040-6000.Z	30	4,00	332	377
P03045-6000	P03045-6000.Z	30	4,50	379	425
P03050-6000	P03050-6000.Z	30	5,00	415	472
P03060-6000	P03060-6000.Z	30	6,00	499	566
P03230-6000	P03230-6000.Z	32	3,00	-	263
P03520-6000	P03520-6000.Z	35	2,00	142	161

PART. REF.	PART. REF.	Outside diameter (O.D.)	Wall thickness	Max. DYNAMIC Working pressure	Max. STATIC Working pressure
(no coating)	(Zinc-plated)	mm	mm	bar	bar
P03525-6000	P03525-6000.Z	35	2,50	178	202
P03530-6000	P03530-6000.Z	35	3,00	213	242
P03535-6000	P03535-6000.Z	35	3,50	249	283
P03540-6000	P03540-6000.Z	35	4,00	285	323
P03545-6000	P03545-6000.Z	35	4,50	320	364
P03550-6000	P03550-6000.Z	35	5,00	356	404
P03560-6000	P03560-6000.Z	35	6,00	427	485
P03820-6000	P03820-6000.Z	38	2,00	131	149
P03825-6000	P03825-6000.Z	38	2,50	164	186
P03830-6000	P03830-6000.Z	38	3,00	197	223
P03835-6000	P03835-6000.Z	38	3,50	229	261
P03840-6000	P03840-6000.Z	38	4,00	262	298
P03845-6000	P03845-6000.Z	38	4,50	295	335
P03850-6000	P03850-6000.Z	38	5,00	328	372
P03860-6000	P03860-6000.Z	38	6,00	394	447
P03870-6000	P03870-6000.Z	38	7,00	459	522
P04220-6000	P04220-6000.Z	42	2,00	118	134
P04230-6000	P04230-6000.Z	42	3,00	178	202
P04240-6000	P04240-6000.Z	42	4,00	237	269

O.D. - Pipe outside diameter

I.D. - Pipe inside diameter

T.P. - Test pressure

W.P. - Working pressure

B.P. - Burst pressure

Controls

All the tubes are systematically submitted to :

- a non-destructive Eddy Current test
- a visual inspection.

Finishing :

The tubes are square cut with the ends deburred internally and externally.

Moreover, a wide range of the St 37.4 (DIN 1630) tubes is available with a yellow electrolytically galvanized coating on the outside only

to protect from corrosion.

The thickness of this protection is between 10 and 12 μ .

The St.37 tubes can be bent (U shaped) to a radius of 2.5 D mini.

Stocked lengths :

The carbon tubes are stocked in lengths of 6 meters (norm : 0 / + 10 mm) and plugged at each end.

Marking :

The tubes are longitudinally and continuously marked according to the norms.

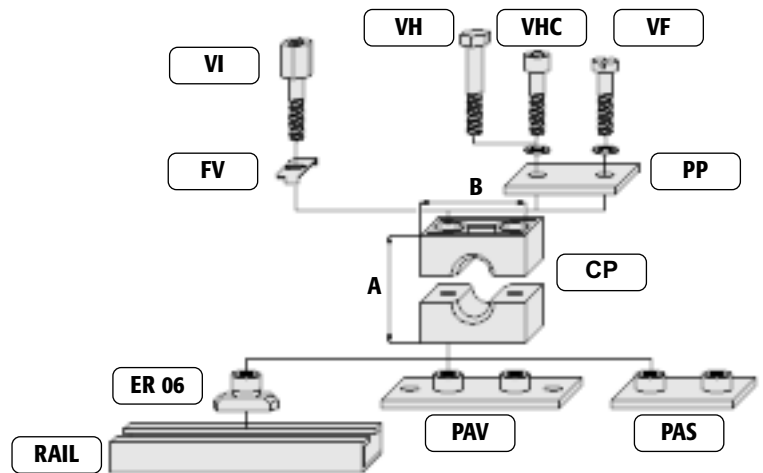
Certificate :

A certificate giving chemical composition and mechanical test results can be supplied with each product upon request.

ADAPTORS

ACCESSORIES

SINGLE STANDARD CLAMPS (DIN 3015)



MODULE	Plastic part			Steel base		Intermediary parts (if needed)	
	AND			OR		AND	
	CP			PAV	PAS	FV	VI
	Polypropylene jaws			Bolt-on base plate	Weld-on base plate	Screw lock washer	Intermediary screw
	Code (diameter)	A mm	B mm	Code	Code	Code	Code
1	CP 06	26,0	34,0	PAV 01	PAS 01	FV	VI 06 x 20
	CP 08	26,0	34,0				
	CP 10	26,0	34,0				
	CP 12	26,0	34,0				
2	CP 13	33,0	40,0	PAV 02	PAS 02	FV	VI 06 x 25
	CP 14	33,0	40,0				
	CP 15	33,0	40,0				
	CP 16	33,0	40,0				
	CP 17	33,0	40,0				
	CP 18	33,0	40,0				
3	CP 19	37,0	48,0	PAV 03	PAS 03	FV	VI 06 x 30
	CP 20	37,0	48,0				
	CP 21	37,0	48,0				
	CP 22	37,0	48,0				
4	CP 27	42,0	57,0	PAV 04	PAS 04	FV	VI 06 x 35
	CP 28	42,0	57,0				
	CP 30	42,0	57,0				
	CP 32	58,0	70,0				
5	CP 33	58,0	70,0	PAV 05	PAS 05	FV	VI 06 x 50
	CP 35	58,0	70,0				
	CP 38	58,0	70,0				
	CP 40	58,0	70,0				
	CP 42	58,0	70,0				
6	CP 48	66,0	86,0	PAV 06	PAS 06	FV	VI 06 x 60

ADAPTORS

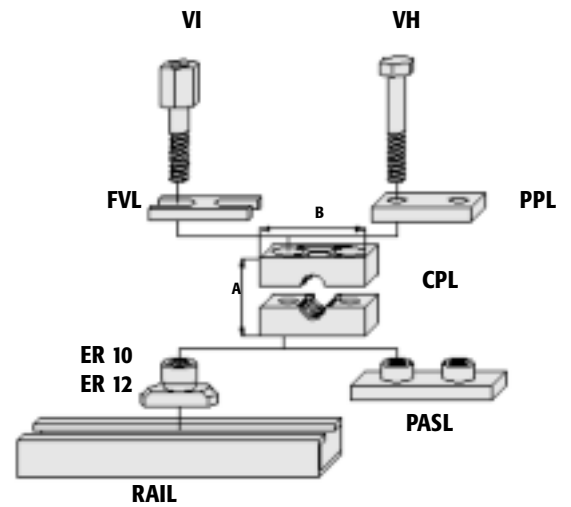
ACCESSORIES

Cover	Fixing screws		
PP	VF	VH	VHC
AND	OR	OR	
Covering plate	Slot-head screw (DIN 84)	Hex-head screw (DIN 931)	Allen head screw (DIN 912)
Code	Code	Code	Code
PP 01	VF 06x20 *10	VH 06x30 *10	VHC 06x20 *10
PP 02	VF 06x25 *10	VH 06x35 *10	VHC 06x25 *10
PP 03	VF 06x30 *10	VH 06x40 *10	VHC 06x30 *10
PP 04	VF 06x35 *10	VH 06x45 *10	VHC 06x35*10
PP 05	VF 06x50 *10	VH 06x60	VHC 06x50 *10
PP 06	VF 06x60 *10	VH 06x70	VHC 06x60*10

ADAPTORS

ACCESSORIES

SINGLE CLAMPS, HEAVY TYPE (DIN 3015)



MODULE	AND			AND	AND	OR	AND	
	Polypropylene jaws			Weld on base plate	Screw lock washer	Intermediary screw	Covering Plate	Hex-head screw DIN 931
	Code	A	B	Code	Code	Code	Code	Code
1	CPL 06	55,0	32,0	PASL 01	FVL 01	VI 10x26	PPL 01	VH 10x45
	CPL 08	55,0	32,0					
	CPL 10	55,0	32,0					
	CPL 12	55,0	32,0					
	CPL 13	55,0	32,0					
	CPL 14	55,0	32,0					
	CPL 15	55,0	32,0					
	CPL 16	55,0	32,0					
	CPL 17	55,0	32,0					
CPL 18	55,0	32,0						
2	CPL 20	70,0	48,0	PASL 02	FVL 02	VI 10x41	PPL 02	VH 10x60
	CPL 21	70,0	48,0					
	CPL 22	70,0	48,0					
	CPL 25	70,0	48,0					
	CPL 27	70,0	48,0					
	CPL 28	70,0	48,0					
	CPL 30	70,0	48,0					
3	CPL 33	85,0	60,0	PASL 03	FVL 03	VI 10x52	PPL 03	VH 10x70
	CPL 35	85,0	60,0					
	CPL 38	85,0	60,0					
	CPL 40	85,0	60,0					
	CPL 42	85,0	60,0					

ADAPTORS

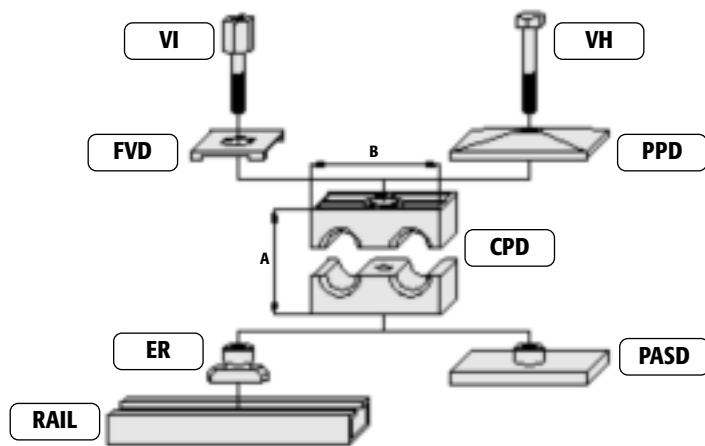
ACCESSORIES

MODULE	AND			AND	AND	OR	AND	
	Polypropylene jaws			Weld on base plate	Screw lock washer	Intermediary screw	Covering Plate	Hex-head screw DIN 931
	Code	A mm	B mm	Code	Code	Code	Code	Code
4	CPL 49	120,0	90,0	PASL 04	FVL 04	V112x83	PPL 04	VH 12x100
	CPL 55	120,0	90,0					
	CPL 61	120,0	90,0					
	CPL 65	120,0	90,0					
	CPL 70	120,0	90,0					
5	CPL 77	152,0	120,0	PASL 05	FVL 05	V116x110	PPL 05	VH 16x130
	CPL 80	152,0	120,0					
	CPL 89	152,0	120,0					
6	CPL 100	205,0	170,0	PASL 06	FVL 06	-	PPL 06	VH 20x190
	CPL 102	205,0	170,0					
	CPL 114	205,0	170,0					
7	CPL 140	250,0	200,0	PASL 07	FVL 07	-	PPL 07	VH 24x220
	CPL 168	250,0	200,0					
8	CPL 219	320,0	270,0	PASL 08	FVL 08	-	PPL 08	VH 30x300

ADAPTORS

ACCESSORIES

TWIN CLAMPS (DIN 3015)



Rail nut references:

MODULE 1: rail nut ER 06 (M6 thread)

MODULE 2 to 5: rail nut ER 08 (M8 thread)

Base rail is delivered in 2 meter length bar only and suggested in different heights : Rail 1 (H=11 mm); Rail 2 (H=14 mm); Rail 3 (H=30 mm).

In case when you need more then one level of clamps, use Screw lock washer and intermediary screw.

Please state reference or computer code and desired quantities when ordering.

MODULE	CPD		AND PASD		AND FVD		OR VI		PPD		VH	
	Polypropylene jaws twin series		Weld on base plate		Screw lock washer		Intermediary screw		Covering plate		Hex-head screw	
	Code (diameter)	A mm	B mm	Code	Code	Code	Code	Code	Code			
1	CPD 06	27,0	36,0	PASD 01	FVD 01	VI 06x20	PPD 01	VH 06x35				
	CPD 08	27,0	36,0									
	CPD 10	27,0	36,0									
	CPD 12	27,0	36,0									
2	CPD 13	26,0	53,0	PASD 02	FVD 02-05	VI 08x20	PPD 02	VH 08x35				
	CPD 14	26,0	53,0									
	CPD 15	26,0	53,0									
	CPD 16	26,0	53,0									
	CPD 17	26,0	53,0									
	CPD 18	26,0	53,0									
3	CPD 19	37,0	67,0	PASD 03	FVD 02-05	VI 08x30	PPD 03	VH 08x45				
	CPD 20	37,0	67,0									
	CPD 21	37,0	67,0									
	CPD 22	37,0	67,0									
4	CPD 25	37,0	67,0	PASD 04	FVD 02-05	VI 08x45	PPD 04	VH 08x50				
	CPD 27	42,0	82,0									
	CPD 28	42,0	82,0									
	CPD 30	42,0	82,0									
5	CPD 33	54,0	106,0	PASD 05	FVD 02-05	VI 08x50	PPD 05	VH 08x65				
	CPD 35	54,0	106,0									
	CPD 38	54,0	106,0									
	CPD 42	54,0	106,0									

SALES TERMS & CONDITIONS

ALL GOODS AND SERVICES PROVIDED BY MANULI FLUICONNECTO ARE FURNISHED ONLY ON THE TERMS AND CONDITIONS STATED BELOW:

1. Validity and right of variation.

These standard terms and conditions of sales (referred to below as Conditions) apply to the relationship involving the supply of products (referred to below as Products) by Manuli Fluiconnecto Companies to professional operators or end-users (referred to below as Buyer).

Manuli Fluiconnecto does hereby reserve the right to add to, amend or vary the Conditions as herein set out, by including such additions, variations or modifications to the quotation or in any written correspondence addressed to the Buyer.

2. Terms of payment.

Credits shall be granted at Manuli Fluiconnecto's absolute discretion and the following terms of payment shall then apply.

- a. Payment at Net Invoice Value is due no later than the due date indicated in the invoice;
- b. If the Buyer fails to make payment in the time and manner specified by Manuli Fluiconnecto or becomes insolvent or has a receiver appointed or passes a resolution for winding up, Fluiconnecto may suspend, at its option, further deliveries;
- c. In case of default in payment by the date indicated on the invoice and in addition to the other remedies permitted under the applicable law and these Conditions, Manuli Fluiconnecto reserves the right to charge interest, without prior notice, at a rate equal to one and a half times the legal interest rate;
- d. In event Manuli Fluiconnecto does not expressly confirm its willingness to apply the terms of payment referred in this section, the Products shall be paid by the Buyer, by means of cash, check, credit card on delivery or an irrevocable letter of credit confirmed by a primary bank accepted by Manuli Fluiconnecto and cashable against the presentation of the delivery documents and the relevant invoice. Such letter of credit must be received by Manuli Fluiconnecto together with the Buyer's Order.

3. Terms of delivery.

The delivery of the Products shall be EXW (Incoterms 2000).

4. Orders' acceptance and Manuli Fluiconnecto's disclaimers of liability

for any provided information. Any order from the Buyer shall be binding for Manuli Fluiconnecto, only when accepted in writing by Manuli Fluiconnecto itself.

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6. Acceptance of the Products. All claims for transit damages, loss or shortage of Products must be submitted by the Buyer to Manuli Fluiconnecto, in writing, within 10 (ten) working days from the date in which the Buyer received the forwarded Products.

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7. Compliance with specifications and terms of warranty.

Manuli Fluiconnecto does hereby represent and warrant that the Product shall comply with the technical specifications forwarded by Manuli Fluiconnecto itself to the Buyer with the written acceptance of the Buyer's order. Manuli Fluiconnecto further represents and warrants that the Products are free of defects for a period equal to twelve (12) months from the date of delivery or in accordance with and subject to the limitations of liability provided for by the Products' warranty manuals actually in force in which the Products are delivered to the Buyer.

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NOTE: In case of dispute, only the original English text will be used, the translation being given for guidance only.

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