

Steel Flareless Ermeto Connectors

Typical Application:

Hydraulic, instrumentation and chemical processing. Highly recommended for high pressure and high vibration applications.

Pressure: See chart below.

Sealing Method:
3-piece bite-type.

Vibration Rating:
Excellent resistance

Material: Carbon steel–, Stainless steel– Bodies and nuts type 316, sleeves 17-4PH

Used With: Aluminum, hard or half-hard copper, steel, stainless steel, monel, titanium and heavy wall tubing that cannot be flared.

Advantages: No tube flaring. Used with extra heavy wall tubing. Broad selection of styles and sizes.

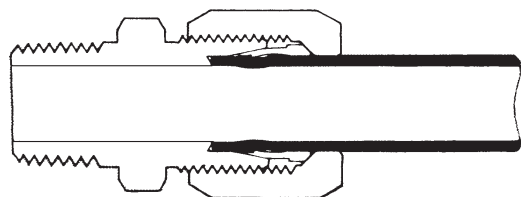
Conformance:

Meets ASA, ASME, SAE, and MS specifications and standards.

Ordering Information:

Connectors are ordered as complete assemblies. To order bodies only (less nut and sleeve), prefix catalog number with the letter "B." Example: B7205x4. Order nuts and sleeves separately by catalog number.

Label Set: FS-1600



Tube O.D.	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1	1-1/4	1-1/2	2
Thread	5/16-24	3/8-24	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	2-1/2-12

Ermeto Connectors 7000 Series Pressure Rating Chart

CONNECTION TYPE	END HOSE												
	1/8	3/16	1/4	5/16	3/8	1/2	3/4	5/8	7/8	1	1-1/4	1-1/2	2
Ermeto Connectors	5000	5000	5000	5000	5000	4000	4000	4000	4000	4000	3000	3000	3000
W/Adjustable Straight Thread O-Ring	5000	5000	4500	4000	4000	4000	3000	3000	2500	2500	2000	1500	1125
With Male Pipe	5000		5000		5000	4000		4000		4000	3000	2500	2500
With Female Pipe	5000		5000		4000	3000		2500		2000	1500	1500	1000

Preset with Preset Tool:

(Preset Tools are listed on page 389.)

- Slide nut and then sleeve on tube. Shoulder of sleeve 'A' must be toward nut.
- Insert tube into presetting tool. Be sure that tube is bottomed on fitting tube stop at point 'B'. Lubricate threads, seat of fitting and shoulder of sleeve with good grade of lubricant.
- Turn nut slowly with wrench while turning tube with other hand. When the sleeve grips the tube, that is, when the tube can no longer be turned by hand – STOP – and note the position of the wrench. This is the "Ring Grip" point. Tighten nut an additional number of turns past the ring grip point as shown in Table 1, page 316.

CAUTION: All stainless steel sleeves should be preset in tool prior to installation.

Preset in Fitting Body

- Follow same procedure as when presetting with preset tool. Once the fitting nut has been turned the proper number of turns past ring grip, the fitting assembly is complete and ready for use.

Note:

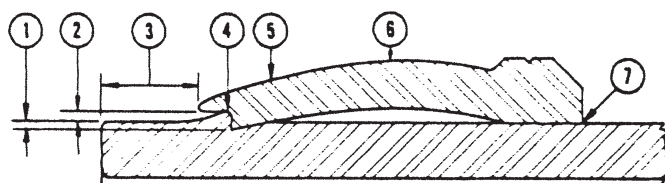
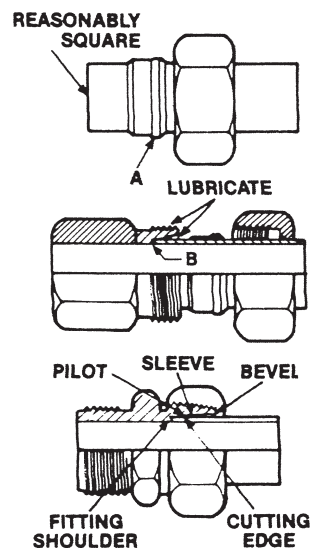
Only carbon steel sleeves can be preset directly into the fitting body. Due to possible thread galling, the use of presetting tools is required when stainless steel Connectors are to be assembled.

WARNING

Follow the installation procedures below with care to ensure proper installation of Ermeto Connectors.

Installation:

- After sleeve and nut have been preset on the tubing and checked as described, the assembly is ready for installation into the Ermeto connector seat.
- Lubricate threads, seat of fitting and shoulder of sleeve with a good grade of lubricant compatible with system fluid.
- Insert tube assembly into fitting and tighten nut until sharp rise in torque is felt.
- Starting at the position of sharp torque rise, tighten nut 1/4 turn to complete the assembly.

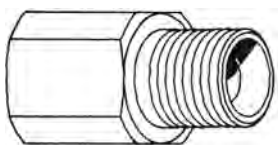


Steel Flareless Ermeto Connectors

TABLE 1

Number of Additional Turns from "Ring Grip" for Hand Presetting Operation – Ermeto Sleeve

TUBE SIZE	**TUBE MATERIAL	.018	.022	.028	.035	.049	.065	.083	.095	.109	.120
2	C1010	1-1/6	1-1/6	1-1/6	1-1/6						
	MIL T 8504	1-1/6	1-1/6	1-1/6	1-1/6						
3	C1010 1-1/6	1-1/6	1-1/6	1							
	MIL T 8504	1-1/6	1-1/6	1-1/6	1						
4	C1010			1-1/6	1-1/6	1-1/6	1				
	MIL T 8504			1-1/6	1	1	5/6				
5	C1010			1-1/6	1-1/6	1-1/6	1				
	MIL T 8504			1-1/6	1-1/6	1	1				
6	C1010				1-1/6	1-1/6	1	1			
	MIL T 8504				1-1/6	1	5/6	5/6			
8	C1010				1-1/6	1-1/6	1	1	1		
	MIL T 8504				1-1/6	1	5/6	5/6	5/6		
10	C1010					1-1/6	1	5/6	5/6	5/6	5/6
	MIL T 8504					1-1/6	1	5/6	5/6	5/6	5/6
12	C1010				1	1	5/6	5/6	5/6	5/6	5/6
	MIL T 8504				1-1/6	1	5/6	5/6	5/6	5/6	5/6
16	C1010				1-1/6	1-1/6	5/6	5/6	5/6	5/6	5/6
	MIL T 8504				1-1/6	1-1/6	5/6	5/6	5/6	5/6	5/6
20	C1010				1-1/6	1	1	1	5/6	5/6	5/6
	MIL T 8504				1	1	1	1	5/6	5/6	5/6
24	C1010								1	1	1
	MIL T 8504								1	1	1
32	C1010								1	1	1
	MIL T 8504								1	1	1



Presetting tools provide a more accurate and positive leakproof method of coupling flareless Connectors. Presetting steel Ermeto sleeves on tubing prior to the fitting assembly will permit the maximum high performance obtainable with flareless Connectors. Due to possible thread galling the use of presetting tools is required when stainless steel Connectors are to be assembled. See page 431 for T-570-1 hydraulic preset machine.

Ermeto Hand-Presetting Tools 7000 Series

CATALOG NUMBER	SEAT SIZE	TUBE O.D. (INCHES)	THREAD SIZE
T-7002	2	1/8	5/16-24
T-7003	3	3/16	3/8-24
T-7004	4	1/4	7/16-20
T-7005	5	5/16	1/2-20
T-7006	6	3/8	9/16-18
T-7008	8	1/2	3/4-16
T-7010	10	5/8	7/8-14
T-7012	12	3/4	1-1/16-12
T-7016	16	1	1-5/16-12
T-7020	20	1-1/4	1-5/8-12
T-7024	24	1-1/2	1-7/8-12
T-7032	32	2	2-1/2-12

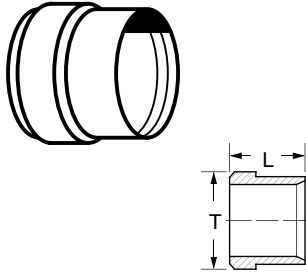
Steel Connectors

• Available in Stainless Steel.

Steel Flareless Ermeto Connectors

Sleeve

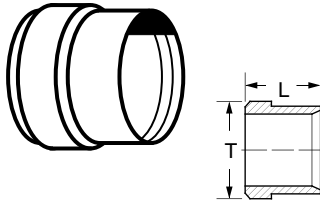
Stainless Steel No. 7176x
(Ref. SAE No. 080115B)



TUBE O.D.	CATALOG NUMBER	L	DIA. T
1/8	7165x2•	.28	.20
3/16	7165x3•	.28	.31
1/4	7165x4•	.34	.36
5/16	7165x5•	.34	.42
3/8	7165x6•	.38	.48
1/2	7165x8•	.38	.63
5/8	7165x10•	.42	.75
3/4	7165x12•	.42	.88
7/8	7165x14•	.42	1.00
1	7165x16•	.42	1.13
1-1/4	7165x20•	.42	1.41
1-1/2	7165x24•	.42	1.66
2	7165x32•	.45	2.19

Sleeve

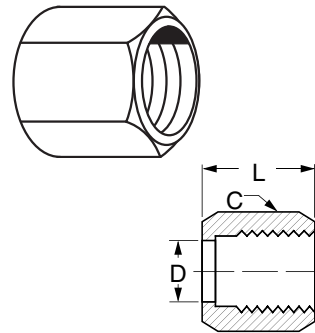
(For use with diesel nuts only)



TUBE O.D.	CATALOG NUMBER	L	DIA. T
1/4	8165x4	.34	.38
5/16	8165x5	.34	.44
3/8	8165x6	.38	.50

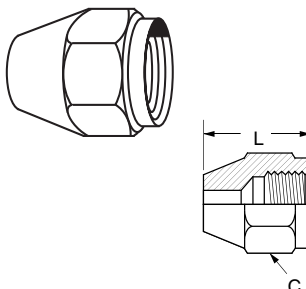
Nut

Stainless Steel No. 7117x
(Ref. SAE No. 080110)



TUBE O.D.	CATALOG NUMBER	HEX C	L	D DIA.
1/8	7105x2•	3/8	.53	.132
3/16	7105x3•	7/16	.61	.195
1/4	7105x4•	9/16	.70	.257
5/16	7105x5•	5/8	.72	.320
3/8	7105x6•	11/16	.75	.382
1/2	7105x8•	7/8	.84	.508
5/8	7105x10•	1	.92	.634
3/4	7105x12•	1-1/4	.97	.759
7/8	7105x14•	1-3/8	1.00	.884
1	7105x16•	1-1/2	1.05	1.009
1-1/4	7105x20•	2	1.05	1.263
1-1/2	7105x24•	2-1/4	1.03	1.513
2	7105x32•	2-7/8	1.12	2.017

Diesel Nut



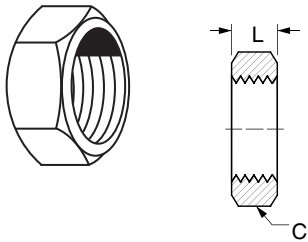
TUBE O.D.	THREAD SIZE	CATALOG NUMBER	HEX C	L
1/4	9/16-18	8112x4	3/4	.94
5/16	5/8-18	8112x5	13/16	1.00
3/8	3/4-16	8112x6	15/16	1.13

Steel Connectors

Steel Flareless Ermeto Connectors

Bulkhead Nut

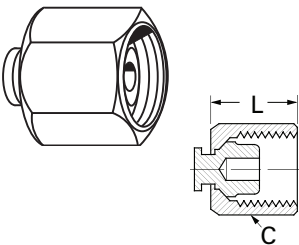
Stainless Steel No. 7936x
(Ref. SAE No. 080118)



TUBE O.D.	CATALOG NUMBER	HEX C	L
1/4	7924x4•	11/16	.28
3/8	7924x6•	13/16	.27
1/2	7924x8•	1	.31
5/8	7924x10	1-1/8	.36
3/4	7924x12•	1-3/8	.41
7/8	7924x14	1-1/2	.41
1	7924x16•	1-5/8	.41
1-1/4	7924x20	1-7/8	.41

Cap

Stainless Steel No. 7141x
(Ref. SAE No. 080112)

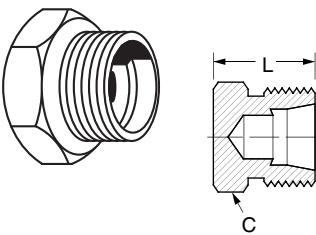


TUBE O.D.	CATALOG NUMBER	HEX C	L
1/4	7129x4•	9/16	.70
3/8	7129x6•	11/16	.75
1/2	7129x8•	7/8	.84
5/8	7129x10•	1	.92
3/4	7129x12•	1-1/4	.97
1	7129x16•	1-1/2	1.05
1-1/4	7129x20	2	1.05

•7141x2 also available

Plug

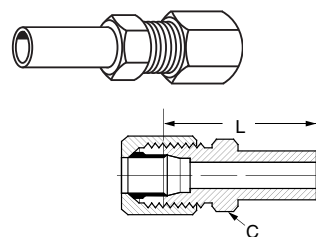
Stainless Steel No. 7241x
(Ref. SAE No. 080109)



TUBE O.D.	CATALOG NUMBER	HEX C	L
1/8	7229x2	7/16	.63
1/4	7229x4•	1/2	.71
5/16	7229x5	9/16	.71
3/8	7229x6•	5/8	.75
1/2	7229x8•	13/16	.85
5/8	7229x10	15/16	.97
3/4	7229x12•	1-1/8	1.10
1	7229x16	1-3/8	1.10

Reducer

Stainless Steel No. 7027x
(Ref. SAE No. 080123)



BODY SIZE T	TUBE SIZE E	CATALOG NUMBER	HEX C	L
3/8	1/4	7015x6x4•	1/2	1.61
1/2	1/4	7015x8x4•	9/16	1.73
1/2	3/8	7015x8x6•	5/8	1.77
5/8	1/2	7015x10x8•	13/16	1.96
3/4	3/8	7015x12x6•	13/16	1.93
3/4	1/2	7015x12x8•	13/16	2.03
1	3/4	7015x16x12•	1-1/8	2.24
1-1/4	1	7015x20x16•	1-3/8	2.28

•7027x16x8 also available

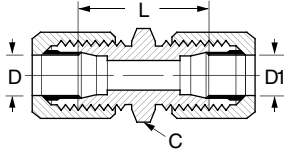
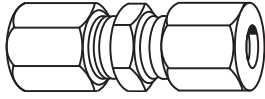
Steel Connectors

• Available in Stainless Steel.

Steel Flareless Ermeto Connectors

Small Hex Union

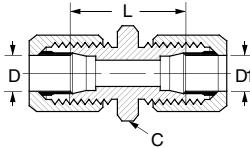
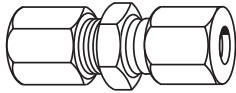
Stainless Steel No. 7317x
(Ref. SAE No. 080101)



TUBE O.D.	TUBE O.D.	CATALOG NUMBER	HEX C	D	D1	L
1/8	1/8	7305x2•	7/16	.093	.093	1.02
3/16	3/16	7305x3•	7/16	.125	.125	1.11
1/4	1/4	7305x4•	1/2	.203	.203	1.18
5/16	5/16	7305x5•	9/16	.234	.234	1.18
3/8	1/4	7305x6x4•	5/8	.281	.203	1.22
3/8	3/8	7305x6•	5/8	.281	.281	1.24
1/2	3/8	7305x8x6	13/16	.422	.281	1.33
1/2	1/2	7305x8•	13/16	.422	.422	1.42
5/8	5/8	7305x10•	15/16	.500	.500	1.61
3/4	3/4	7305x12•	1-1/8	.656	.656	1.81
7/8	7/8	7305x14	1-1/4	.718	.718	1.81
1	1	7305x16•	1-3/8	.875	.875	1.81
1-1/4	1-1/4	7305x20	1-11/16	1.093	1.093	1.89
1-1/2	1-1/2	7305x24	2	1.344	1.344	1.96
2	2	7305x32	2-5/8	1.813	1.813	2.11

Large Hex Union

Stainless Steel No. 7318x
(Ref. SAE No. 080119)

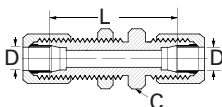
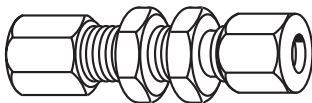


TUBE O.D.	TUBE O.D.	CATALOG NUMBER	HEX C	D	D1	L
1/4	1/4	7306x4•	11/16	.203	.203	1.18
3/8	3/8	7306x6•	13/16	.281	.281	1.24
1/2	3/8	7306x8x6•	1	.422	.281	1.33
1/2	1/2	7306x8•	1	.422	.422	1.42
3/4	3/4	7306x12•	1-3/8	.656	.656	1.81
1	1	7306x16	1-5/8	.875	.875	1.81

•7318x6x4 also available

Bulkhead Union

Stainless Steel No. 7337x
(Ref. SAE No. 080601)



TUBE O.D.	CATALOG NUMBER	HEX C	D	L
1/4	7325x4•	11/16	.203	1.89
3/8	7325x6•	13/16	.281	1.98
1/2	7325x8•	1	.422	2.22
3/4	7325x12•	1-3/8	.656	2.72
1	7325x16	1-5/8	.875	2.72

For bulkhead nuts see page 318.

APPLICATION DATA

LOW & MEDIUM PRESSURE HOSE

HIGH PRESSURE HOSE

SPECIALTY HOSE

ACCESSORIES & ASSEMBLY INSTRUCTIONS

ADAPTERS & TUBE HOSE ENDS

HOSE ASSEMBLY EQUIPMENT

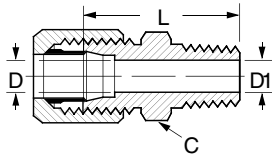
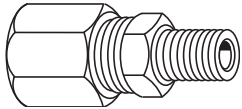
TECHNICAL DATA

Steel Connectors

Steel Flareless Ermeto Connectors

Male Connector

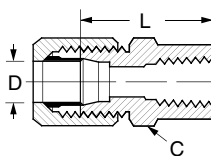
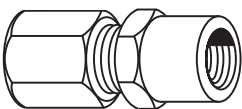
Stainless Steel No. 7217x
(Ref. SAE No. 080102)



TUBE O.D.	MALE PIPE THREAD	CATALOG NUMBER	HEX C	D	D1 OPT.	L
1/8	1/8	7205x2•	7/16	.093	.188	1.04
1/8	1/4	7205x2x4•	9/16	.093	.281	1.25
3/16	1/8	7205x3•	7/16	.125	.188	1.09
1/4	1/8	7205x4•	1/2	.203	.188	1.12
1/4	1/4	7205x4x4•	9/16	.203	.281	1.32
1/4	3/8	7205x4x6•	3/4	.203	.406	1.33
1/4	1/2	7205x4x8•	7/8	.203	.531	1.58
5/16	1/8	7205x5•	9/16	.234	.188	1.12
5/16	1/4	7205x5x4•	9/16	.234	.281	1.32
3/8	1/8	7205x6x2•	5/8	.281	.188	1.15
3/8	1/4	7205x6•	5/8	.281	.281	1.34
3/8	3/8	7205x6x6•	3/4	.281	.406	1.35
3/8	1/2	7205x6x8•	7/8	.281	.531	1.60
1/2	1/4	7205x8x4•	13/16	.422	.281	1.44
1/2	3/8	7205x8•	13/16	.422	.406	1.44
1/2	1/2	7205x8x8•	7/8	.422	.531	1.69
1/2	3/4	7205x8x12•	1-1/8	.422	.719	1.76
5/8	3/8	7205x10x6•	15/16	.500	.406	1.56
5/8	1/2	7205x10•	15/16	.500	.531	1.75
3/4	1/2	7205x12x8•	1-1/8	.656	.531	1.88
3/4	3/4	7205x12•	1-1/8	.656	.719	1.88
7/8	3/4	7205x14•	1-1/4	.718	.719	1.88
1	3/4	7205x16x12•	1-3/8	.875	.719	1.88
1	1	7205x16•	1-3/8	.875	.938	2.07
1-1/4	1-1/4	7205x20	1-11/16	1.093	1.250	2.18
1-1/2	1-1/2	7205x24	2	1.344	1.500	2.28
2	2	7205x32	2-5/8	1.813	1.938	2.46

Female Connector

Stainless Steel No. 7267x
(Ref. SAE No. 080103)



TUBE O.D.	FEM. PIPE THREAD	CATALOG NUMBER	HEX C	D	L
1/8	1/8	7255x2•	9/16	.093	1.05
3/16	1/8	7255x3•	9/16	.125	1.08
1/4	1/8	7255x4•	9/16	.203	1.09
1/4	1/4	7255x4x4•	3/4	.203	1.20
5/16	1/8	7255x5•	9/16	.234	1.08
3/8	1/4	7255x6•	3/4	.281	1.31
3/8	3/8	7255x6x6•	7/8	.281	1.40
1/2	1/4	7255x8x4•	7/8	.422	1.38
1/2	3/8	7255x8•	7/8	.422	1.47
1/2	1/2	7255x8x8•	1-1/8	.422	1.63
5/8	1/2	7255x10	1-1/8	.500	1.76
3/4	3/4	7255x12•	1-3/8	.656	1.89
7/8	3/4	7255x14	1-3/8	.718	1.86
1	1	7255x16•	1-5/8	.875	2.13
1-1/4	1-1/4	7255x20	2	1.093	2.22

• 7267x6x8 also available

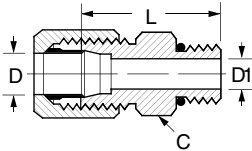
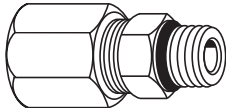
Steel Connectors

• Available in Stainless Steel.

Steel Flareless Ermeto Connectors

Straight Thread O-Ring Connector

Stainless Steel No. 7327x
(Ref. SAE No. 080120)

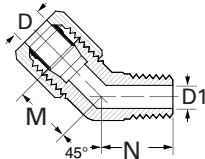
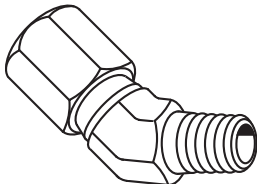


Replacement O-rings page 325.

TUBE O.D.	PORT SIZE	CATALOG NUMBER	HEX C	D	L	D1 OPT.
3/16	3/16	7315x3	1/2	.125	1.04	–
1/4	1/4	7315x4•	9/16	.203	1.13	–
1/4	5/16	7315x4x5•	5/8	.203	1.13	–
1/4	3/8	7315x4x6•	11/16	.203	1.19	.281
5/16	5/16	7315x5	5/8	.234	1.13	–
3/8	3/8	7315x6•	11/16	.281	1.21	–
3/8	1/2	7315x6x8	7/8	.281	1.29	.422
1/2	1/2	7315x8•	7/8	.422	1.38	–
1/2	5/8	7315x8x10	1	.422	1.51	.500
1/2	3/4	7315x8x12•	1-1/4	.422	1.67	.656
5/8	5/8	7315x10•	1	.500	1.57	–
3/4	3/4	7315x12•	1-1/4	.656	1.79	–
3/4	1	7315x12x16	1-1/2	.656	1.82	.876
7/8	7/8	7315x14	1-3/8	.718	1.79	–
1	3/4	7315x16x12	1-1/2	.875	1.82	.656
1	1	7315x16•	1-1/2	.875	1.82	–
1-1/4	1-1/4	7315x20	1-7/8	1.093	1.90	–
1-1/2	1-1/2	7315x24	2-1/8	1.344	1.97	–
2	2	7315x32	2-3/4	1.813	2.13	–

45° Male Elbow

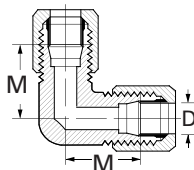
Stainless Steel No. 7367x
(Ref. SAE No. 080302)



TUBE O.D.	MALE PIPE THREAD	CATALOG NUMBER	D	D1	M	N	ACROSS FLATS
1/4	1/8	7355x4•	.203	.188	.70	.64	7/16
1/4	1/4	7355x4x4•	.203	.281	.83	.86	9/16
5/16	1/8	7355x5	.234	.188	.75	.64	9/16
3/8	1/4	7355x6•	.281	.281	.83	.86	9/16
1/2	3/8	7355x8•	.422	.406	.98	.95	3/4
5/8	1/2	7355x10	.500	.531	1.08	1.17	7/8
3/4	3/4	7355x12	.656	.719	1.27	1.20	1-1/16
1	1	7355x16	.875	.938	1.36	1.48	1-5/16

90° Union Elbow

Stainless Steel No. 7517x
(Ref. SAE No. 080201)



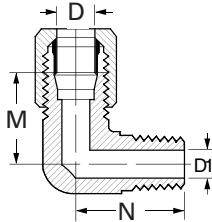
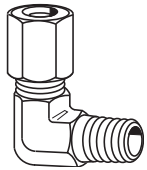
TUBE O.D.	CATALOG NUMBER	D	M	ACROSS FLATS
1/4	7505x4•	.203	.89	7/16
5/16	7505x5	.234	.95	1/2
3/8	7505x6•	.281	1.05	9/16
1/2	7505x8•	.422	1.25	3/4
5/8	7505x10•	.500	1.42	7/8
3/4	7505x12•	.656	1.58	1-1/16
7/8	7505x14•	.718	1.66	1-5/16
1	7505x16•	.875	1.73	1-5/16
1-1/4	7505x20	1.093	1.89	1-5/8
1-1/2	7505x24	1.346	2.02	1-7/8

Steel Connectors

Steel Flareless Ermeto Connectors

90° Male Elbow

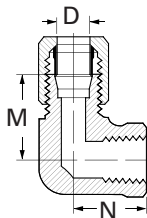
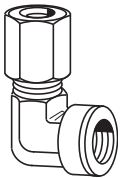
Stainless Steel No. 7417x
(Ref. SAE No. 080202)



TUBE O.D.	MALE PIPE THREAD	CATALOG NUMBER	D	D1	M	N	ACROSS FLATS
1/8	1/8	7405x2•	.093	.188	.77	.72	7/16
3/16	1/8	7405x3	.125	.188	.83	.72	7/16
1/4	1/8	7405x4•	.203	.188	.89	.78	7/16
1/4	1/4	7405x4x4•	.203	.281	1.03	1.09	9/16
5/16	1/8	7405x5•	.234	.188	.95	.81	1/2
5/16	1/4	7405x5x4•	.234	.281	1.03	1.09	9/16
3/8	1/8	7405x6x2•	.281	.188	1.05	.90	9/16
3/8	1/4	7405x6•	.281	.281	1.05	1.09	9/16
3/8	3/8	7405x6x6•	.281	.406	1.16	1.22	3/4
3/8	1/2	7405x6x8•	.281	.531	1.24	1.47	7/8
1/2	1/4	7405x8x4•	.422	.281	1.25	1.22	3/4
1/2	3/8	7405x8•	.422	.406	1.25	1.22	3/4
1/2	1/2	7405x8x8•	.422	.531	1.35	1.47	7/8
5/8	3/8	7405x10x6•	.500	.406	1.42	1.28	7/8
5/8	1/2	7405x10•	.500	.531	1.42	1.47	7/8
3/4	1/2	7405x12x8	.656	.531	1.58	1.59	1-1/16
3/4	3/4	7405x12•	.656	.719	1.58	1.59	1-1/16
7/8	3/4	7405x14	.718	.719	1.62	1.69	1-5/16
1	3/4	7405x16x12	.875	.719	1.73	1.78	1-5/16
1	1	7405x16•	.875	.938	1.73	1.97	1-5/16
1-1/4	1-1/4	7405x20	1.093	1.250	1.89	2.38	1-5/8
1-1/2	1-1/2	7405x24	1.344	1.500	2.02	2.64	1-7/8
2	2	7405x32	1.813	1.938	2.45	3.00	2-9/16

90° Female Elbow

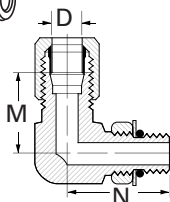
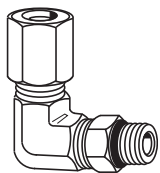
Stainless Steel No. 7467x
(Ref. SAE No. 080203)



TUBE O.D.	FEM. PIPE THREAD	CATALOG NUMBER	D	M	N	ACROSS FLATS
1/4	1/8	7455x4•	.203	.89	.66	9/16
1/4	1/4	7455x4x4•	.203	1.03	.88	3/4
3/8	1/4	7455x6•	.281	1.05	.88	3/4
3/8	3/8	7455x6x6•	.281	1.14	1.02	7/8
1/2	3/8	7455x8•	.422	1.23	1.02	7/8
1/2	1/2	7455x8x8•	.422	1.35	1.23	1-1/16
5/8	1/2	7455x10•	.500	1.42	1.23	1-1/16
3/4	3/4	7455x12•	.656	1.58	1.36	1-5/16
7/8	3/4	7455x14	.718	1.66	1.42	1-5/16
1	1	7455x16	.875	1.73	1.62	1-5/8

90° Elbow - Straight Thread O-Ring

Stainless Steel No. 7527x
(Ref. SAE No. 080220)



TUBE O.D.	PORT SIZE	CATALOG NUMBER	D	M	N	ACROSS FLATS
1/4	1/4	7515x4•	.203	.89	1.03	7/16
5/16	5/16	7515x5	.234	.96	1.13	9/16
3/8	3/8	7515x6•	.281	1.05	1.25	9/16
1/2	1/2	7515x8•	.422	1.25	1.45	3/4
5/8	5/8	7515x10•	.500	1.42	1.70	7/8
3/4	3/4	7515x12•	.656	1.58	1.94	1-1/16
1	3/4	7515x16x12	.875	1.73	2.05	1-5/16
1	1	7515x16•	.875	1.73	2.05	1-5/16
1-1/4	1-1/4	7515x20	1.093	1.89	2.25	1-5/8

Replacement O-rings page 325.

APPLICATION DATA
LOW & MEDIUM PRESSURE HOSE
HIGH PRESSURE HOSE
SPECIALTY HOSE
ACCESSORIES & ASSEMBLY INSTRUCTIONS
ADAPTERS & HOSE ENDS
HOSE ASSEMBLY EQUIPMENT
TECHNICAL DATA

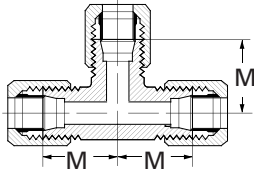
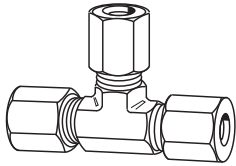
Steel Connectors

• Available in Stainless Steel.

Steel Flareless Ermeto Connectors

Union Tee

Stainless Steel No. 7717x
(Ref. SAE No. 080401)

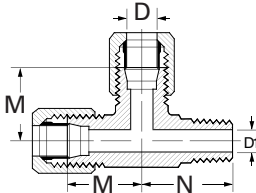
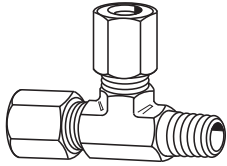


TUBE O.D.	CATALOG NUMBER	D	M	ACROSS FLATS
3/16	7705x3	.125	.83	7/16
1/4	7705x4•	.203	.89	7/16
5/16	7705x5•	.234	.95	9/16
3/8	7705x6•	.281	1.05	9/16
1/2	7705x8•	.422	1.25	3/4
5/8	7705x10•	.500	1.42	7/8
3/4	7705x12•	.656	1.58	1-1/16
7/8	7705x14	.718	1.62	1-5/16
1	7705x16•	.875	1.73	1-5/16

*7717x

Male Run Tee

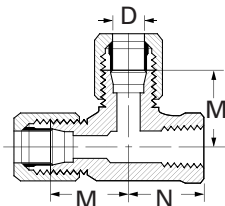
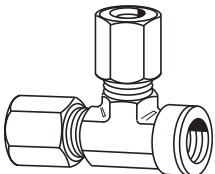
Stainless Steel No. 7767x
(Ref. SAE No. 080424)



TUBE O.D.	MALE PIPE THREAD	CATALOG NUMBER	D	D1	M	N	ACROSS FLATS
1/4	1/8	7755x4•	.203	.188	.89	.78	7/16
1/4	1/4	7755x4x4x4•	.203	.281	1.03	1.09	9/16
3/8	1/4	7755x6•	.281	.281	1.05	1.09	9/16
1/2	3/8	7755x8	.422	.422	1.25	1.22	3/4
1/2	1/2	7755x8x8x8•	.422	.531	1.35	1.47	7/8
5/8	1/2	7755x10	.500	.531	1.42	1.47	7/8
3/4	3/4	7755x12	.656	.719	1.58	1.59	1-1/16
1	1	7755x16	.875	.938	1.73	1.97	1-5/16

Female Run Tee

(Ref. SAE No. 080426)



TUBE O.D.	FEM. PIPE THREAD	CATALOG NUMBER	D	M	N	ACROSS FLATS
1/4	1/8	7805x4	.203	.89	.66	9/16
1/4	1/4	7805x4x4x4	.203	1.03	.88	3/4
3/8	1/4	7805x6	.281	1.05	.88	3/4
1/2	3/8	7805x8	.422	1.23	1.02	7/8
5/8	1/2	7805x10	.500	1.42	1.23	1-1/16
3/4	3/4	7805x12	.656	1.58	1.36	1-5/16

APPLICATION DATA

LOW & MEDIUM PRESSURE HOSE

HIGH PRESSURE HOSE

SPECIALTY HOSE

ACCESSORIES & ASSEMBLY INSTRUCTIONS

ADAPTERS & TUBE HOSE ENDS

HOSE ASSEMBLY EQUIPMENT

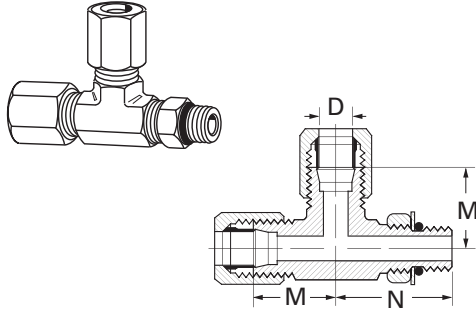
TECHNICAL DATA

Steel Connectors

Steel Flareless Ermeto Connectors

Straight Thread O-Ring Run Tee

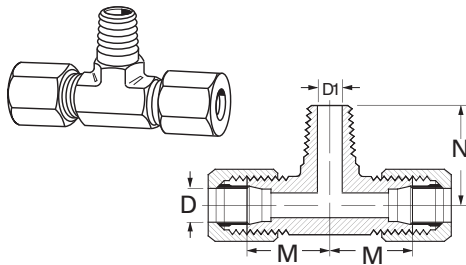
Stainless Steel No. 7716x
(Ref. SAE No. 080428)



TUBE O.D.	PORT SIZE	CATALOG NUMBER	D	M	N	ACROSS FLATS
1/4	1/4	7716x4•	.203	.89	1.03	7/16
3/8	3/8	7716x6•	.281	1.05	1.25	9/16
1/2	1/2	7716x8•	.422	1.25	1.45	3/4

Male Branch Tee

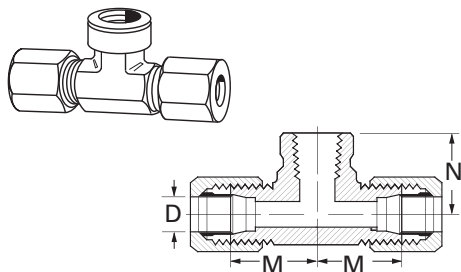
Stainless Steel No. 7605x
(Ref. SAE No. 080425)



TUBE O.D.	MALE PIPE THD.	CATALOG NUMBER	D	D1	M	N	ACROSS FLATS
1/4	1/8	7605x4•	.203	.188	.89	.78	7/16
1/4	1/4	7605x4x4x4•	.203	.281	1.03	1.09	9/16
5/16	1/8	7605x5	.234	.188	.95	.81	9/16
3/8	1/4	7605x6•	.281	.281	1.05	1.09	9/16
1/2	3/8	7605x8•	.422	.406	1.25	1.22	3/4
1/2	1/2	7605x8x8x8•	.422	.531	1.35	1.47	7/8
5/8	1/2	7605x10	.500	.531	1.42	1.47	7/8
3/4	3/4	7605x12	.656	.719	1.58	1.59	1-1/16
1	1	7605x16	.875	.938	1.73	1.97	1-5/16

Female Branch Tee

Stainless Steel No. 7655x
(Ref. SAE No. 080427)



TUBE O.D.	FEMALE PIPE THD.	CATALOG NUMBER	D	M	N	ACROSS FLATS
1/4	1/8	7655x4•	.203	.89	.66	9/16
1/4	1/4	7655x4x4x4•	.203	1.03	.88	3/4
3/8	1/4	7655x6•	.281	1.05	.88	3/4
1/2	3/8	7655x8•	.422	1.23	1.02	7/8
5/8	1/2	7655x10	.500	1.42	1.23	1-1/16
3/4	3/4	7655x12	.656	1.58	1.36	1-5/16
7/8	3/4	7655x14	.718	1.62	1.42	1-5/16
1	1	7655x16	.875	1.73	1.62	1-5/8
1-1/4	1-1/4	7655x20	1.093	2.08	1.70	1-7/8

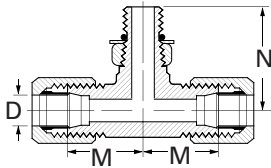
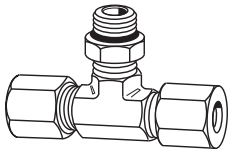
Steel Connectors

• Available in Stainless Steel.

Steel Flareless Ermeto Connectors

Straight Thread O-Ring Branch Tee

Stainless Steel No. 7727x
(Ref. SAE No. 080429)

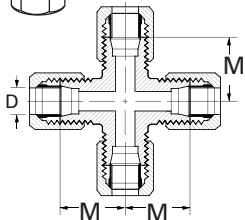
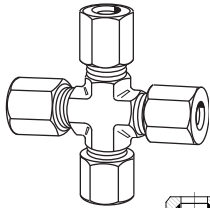


TUBE O.D.	PORT SIZE	CATALOG NUMBER	D	M	N	ACROSS FLATS
1/4	1/4	7715x4*	.203	.89	1.03	7/16
3/8	3/8	7715x6*	.281	1.05	1.25	9/16
1/2	1/2	7715x8	.422	1.25	1.45	3/4

Replacement O-rings see below.

Cross

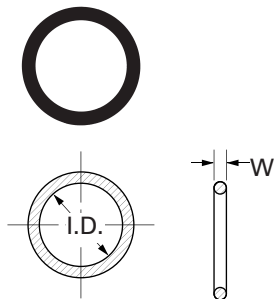
Stainless Steel No. 7967x
(Ref. SAE No. 080501)



TUBE O.D.	CATALOG NUMBER	D	M	ACROSS FLATS
1/4	7955x4*	.203	.89	9/16
3/8	7955x6*	.281	1.05	9/16
1/2	7955x8	.422	1.25	3/4

*Brazed construction.

Straight Thread O-Ring



Material: Buna-N 90 Durometer

Temperature Range:

-40°F to +250°F
(-40°C to +121°C)

Standard O-ring complies with
SAE J515 Type CH.

TUBE O.D.	CATALOG NUMBER	W	I.D.
1/16	7629x1	.058 ± .003	.185 ± .005
1/8	7629x2	.064 ± .003	.239 ± .005
3/16	7629x3	.064 ± .003	.301 ± .005
1/4	7629x4	.072 ± .003	.351 ± .005
5/16	7629x5	.072 ± .003	.414 ± .005
3/8	7629x6	.078 ± .003	.468 ± .005
7/16	7629x7	.082 ± .003	.530 ± .005
1/2	7629x8	.087 ± .003	.644 ± .005
5/8	7629x10	.097 ± .003	.755 ± .005
3/4	7629x12	.116 ± .004	.924 ± .006
7/8	7629x14	.116 ± .004	1.048 ± .006
1	7629x16	.116 ± .004	1.171 ± .006
1-1/4	7629x20	.118 ± .004	1.475 ± .010
1-1/2	7629x24	.118 ± .004	1.720 ± .010
2	7629x32	.118 ± .004	2.337 ± .010

Steel Connectors

Ready-Lok Adapters

Adapter Series:

Ready-Lok Adapters.

Typical Application:

General purpose low, medium, and high pressure hydraulics. Generally found in mining operations.

Pressure: For use in hydraulic systems up to and including SAE 100R12 pressures.**Material:** Carbon steel**Plating:** Zinc**Advantages:** Easy installation. Just lock components together with Ready-Lok staples. Threadless design simplifies field service and cuts maintenance costs.**Ordering Information:**

Order individually by catalog number.

Label Set: FS-2200**Assembly instructions**

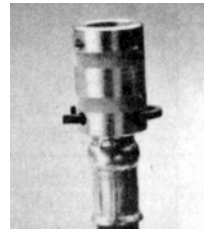
1. Lubricate the male Ready-Lok fitting (including O-Ring).



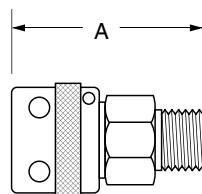
2. Assemble male fitting into fe-male adapter until it bottoms. O-Ring will engage in internal mating surface. Insert staple into adapter.



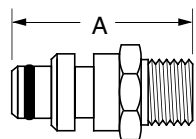
3. When the staple is inserted through the adapter and engages the shoulder of the hose end as shown, the Ready-Lok connection is complete.



4. To disassemble, remove the staple and disengage the hose assembly.

**Male Pipe To Female Ready-Lok Swivel-Straight**

READY-LOK CONNECTOR SIZE	MALE PIPE THREAD	CATALOG NUMBER	A	HEX
1/4	1/4	2008x4S	2.13	3/4
3/8	3/8	2008x6S	2.19	15/16
1/2	1/2	2008x8S	2.51	1-1/8
3/4	3/4	2008x12S	2.49	1-5/16
1	1	2008x16S	3.12	1-11/16
1-1/4	1-1/4	2008x20S	3.17	2-1/8

Male Pipe To Male Ready-Lok Straight

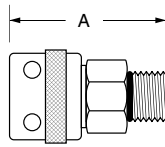
READY-LOK CONNECTOR SIZE	MALE PIPE THREAD	CATALOG NUMBER	A	HEX
1/4	1/4	2013x4S	1.91	5/8
3/8	3/8	2013x6S	1.91	13/16
1/2	1/2	2013x8S	2.16	1
3/4	3/4	2013x12S	2.23	1-3/16
1	1	2013x16S	2.72	1-9/16
1-1/4	1-1/4	2013x20S	2.81	1-7/8

Steel Connectors

Note: Order staples separately.

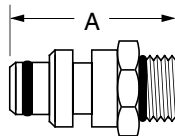
Ready-Lok Adapters

Male Straight Thread O-Ring To Female Ready-Lok Swivel Straight



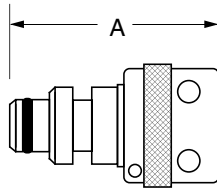
READY-LOK CONNECTOR SIZE	TUBE SIZE	CATALOG NUMBER	STRAIGHT THREAD SIZE	A	
				A	HEX
3/8	3/8	2020x6S	9/16-18	2.02	15/16
1/2	1/2	2020x8S	3/4-16	2.20	1-1/8
3/4	3/4	2020x12S	1-1/16-12	2.33	1-5/16
1	1	2020x16S	1-5/16-12	2.78	1-11/16

Male Straight Thread O-Ring To Male Ready-Lok Straight



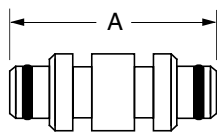
READY-LOK CONNECTOR SIZE	TUBE SIZE	CATALOG NUMBER	STRAIGHT THREAD SIZE	A
1	1	2012x16S	1-15/16-12	2.37

Male Ready-Lok To Female Ready-Lok Swivel-Straight



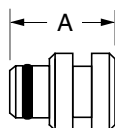
READY-LOK MALE CONNECTOR SIZE	READY-LOK FEMALE CONNECTOR SIZE	CATALOG NUMBER	A
1/2	3/8	2015x8x6S	2.16
3/4	1/2	2015x12x8S	2.25
1-1/4	3/4	2015x20x12S	2.43
1-1/4	1	2015x20x16S	2.79

Male Ready-Lok To Male Ready-Lok Straight



READY-LOK CONNECTOR SIZE	CATALOG NUMBER	A
3/8	2016x6S	2.20
1/2	2016x8S	2.20
3/4	2016x12S	2.20
1	2016x16S	2.63
1-1/4	2016x20S	2.63

Male Ready-Lok Plug



READY-LOK CONNECTOR SIZE	CATALOG NUMBER	A
3/8	2017x6S	1.33
3/4	2017x12S	1.33
1	2017x16S	1.61
1-1/4	2017x20S	1.61

APPLICATION DATA

LOW & MEDIUM PRESSURE HOSE

HIGH PRESSURE HOSE

SPECIALTY HOSE

ACCESSORIES & ASSEMBLY INSTRUCTIONS

ADAPTERS & TUBE HOSE ENDS

HOSE ASSEMBLY EQUIPMENT

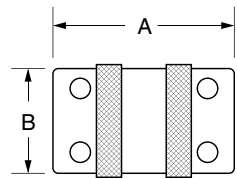
TECHNICAL DATA

Steel Connectors

Note: Order staples separately.

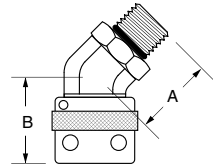
Ready-Lok Adapters

Ready-Lok Female Connector



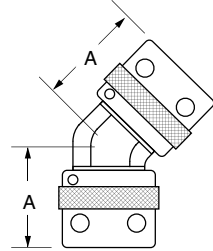
READY-LOK CONNECTOR SIZE	CATALOG NUMBER	A	B
1/4	2004x4S	2.17	1.000
3/8	2004x6S	2.17	1.250
1/2	2004x8S	2.17	1.438
1	2004x16S	2.50	2.125

45° Elbow Male Straight Thread O-Ring To Female Ready-Lok Swivel



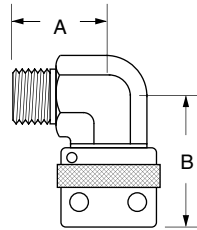
READY-LOK CONNECTOR SIZE	TUBE SIZE	CATALOG NUMBER	STRAIGHT THREAD SIZE	A	B
1	1	2010x16S	1-5/16-12	1.79	2.04

45° Elbow Female Ready-Lok Swivel Connector



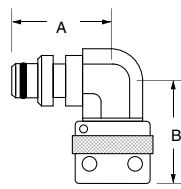
READY-LOK CONNECTOR SIZE	CATALOG NUMBER	A
1-1/4	2006x20S	2.01

Male Pipe To Female Ready-Lok Swivel 90° Elbow



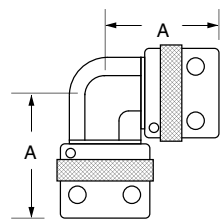
READY-LOK CONNECTOR SIZE	MALE PIPE THREAD	CATALOG NUMBER	A	B
3/8	3/8	2009x6S	1.21	1.69
1/2	1/2	2009x8S	1.49	1.83
1	1	2009x16S	2.01	2.50

90° Elbow Male Ready-Lok To Female Ready-Lok



READY-LOK CONNECTOR SIZE	CATALOG NUMBER	A	B
1/4	2014x4S	1.66	1.55
3/8	2014x6S	1.76	1.66
1/2	2014x8S	1.83	1.84
1-1/4	2014x20S	2.52	2.59

90° Elbow Female Ready-Lok Swivel Connector



READY-LOK CONNECTOR SIZE	CATALOG NUMBER	A
3/8	2005x6S	1.69
1/2	2005x8S	1.84
3/4	2005x12S	1.94
1	2005x16S	2.50
1-1/4	2005x20S	2.59

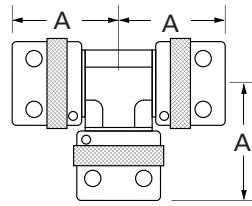
Steel Connectors

Ready-Lok Adapters

Note: Order staples separately.

APPLICATION
DATA

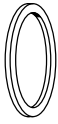
Female Ready-Lok



READY-LOK CONNECTOR SIZE	CATALOG NUMBER	A
3/8	2007x6S	1.72

LOW & MEDIUM
PRESSURE HOSE

Ready-Lok Back-up Ring



Material: Nylon 6/6

READY-LOK CONNECTOR SIZE	CATALOG NUMBER
3/8	2019x6S
1/2	2019x8S
3/4	2019x12S
1	2019x16S
1-1/4	2019x20S

Ready-Lok Staple



READY-LOK CONNECTOR SIZE	CATALOG NUMBER
3/8	2003x6
1/2	2003x8
1	2003x16
1-1/4	2003x20

HIGH PRESSURE HOSE

SPECIALTY HOSE

Ready-Lok O-Ring



Material: Buna-N 90 Durometer

Temperature Range:

-40°F to +250°F
(-40°C to + 121°C)

Standard O-Ring complies with SAE specifications SAE J515 Type CH (Intro to adapter section page 243)

READY-LOK CONNECTOR SIZE	CATALOG NUMBER
1/4	2018x4S
3/8	2018x6S
1/2	2018x8S
3/4	2018x12S
1	2018x16S
1-1/4	2018x20S

ACCESSORIES &
ASM'BLY INSTRUCTIONS

ADAPTERS & TUBE
HOSE ENDS

HOSE ASSEMBLY
EQUIPMENT

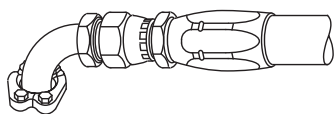
TECHNICAL DATA

Steel Connectors

Split Flange Adapters and Kits

Adapter Used With Standard Female Swivel End

(SAE Code 61)



Weatherhead split flange adapter eliminates the need for special hose ends. Interconnect pumps and valves with SAE flange outlets using low cost standard hose assemblies to replace equipment hose outlets. **Material:** Low carbon steel.

Plating: Zinc

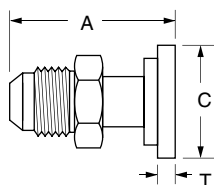
Pressure: Code 61 – 3000 PSI working pressure (32 sizes 2500 PSI W.P.).

Label Set: FS-300

Note:

See page 376 for hydraulic O-ring assortment

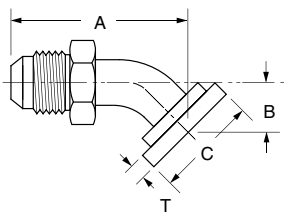
Straight



TUBE SIZE	CODE 61 FLANGE SIZE	CATALOG NUMBER	A	DIA. C	T	THREAD SIZE
1/2	1/2	50008	2.66	1.188	.265	3/4-16
1/2	3/4	50008x12	2.72	1.500	.265	3/4-16
3/4	3/4	50012	2.62	1.500	.265	1-1/16-12
1	1	50016	2.74	1.750	.315	1-5/16-12
1	1-1/4	50016x20	2.74	2.000	.315	1-5/16-12
1-1/4	1	50020x16	2.80	1.750	.315	1-5/8-12
1-1/4	1-1/4	50020	3.27	2.000	.315	1-5/8-12
1-1/2	1-1/2	50024	3.42	2.375	.315	1-7/8-12
2	2	50032	4.24	2.812	.375	2-1/2-12

O-Ring not included.

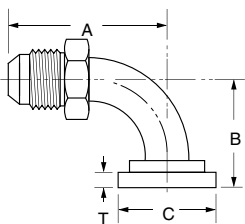
45° Elbow



TUBE SIZE	CODE 61 FLANGE SIZE	CATALOG NUMBER	A	B	DIA. C	T	THREAD SIZE
1/2	1/2	54508	2.91	.78	1.188	.265	3/4-16
1/2	3/4	54508x12	2.93	.84	1.500	.265	3/4-16
3/4	3/4	54512	3.28	1.03	1.500	.265	1-1/16-12
1	1	54516	3.61	1.06	1.750	.315	1-5/16-12
1	1-1/4	54516x20	3.61	1.06	2.000	.315	1-5/16-12
1-1/4	1	54520x16	3.67	1.06	1.750	.315	1-5/8-12
1-1/4	1-1/4	54520	3.86	1.15	2.000	.315	1-5/8-12
1-1/2	1-1/2	54524	4.61	1.41	2.375	.315	1-7/8-12
2	2	54532	6.04	2.00	2.812	.375	2-1/2-12

O-Ring not included.

90° Elbow



TUBE SIZE	CODE 61 FLANGE SIZE	CATALOG NUMBER	A	B	DIA. C	T	THREAD SIZE
1/2	1/2	59008	2.54	1.63	1.188	.265	3/4-16
1/2	3/4	59008x12	2.54	1.69	1.500	.265	3/4-16
3/4	3/4	59012	2.81	2.13	1.500	.265	1-1/16-12
1	1	59016	3.41	2.38	1.750	.315	1-5/16-12
1	1-1/4	59016x20	3.41	2.38	2.000	.315	1-5/16-12
1-1/4	1	59020x16	3.46	2.38	1.750	.315	1-5/8-12
1-1/4	1-1/4	59020	3.71	2.62	2.000	.315	1-5/8-12
1-1/2	1-1/2	59024	4.33	3.12	2.375	.315	1-7/8-12
2	2	59032	5.71	4.50	2.812	.375	2-1/2-12

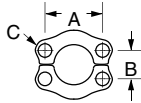
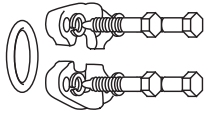
O-Ring not included.

Steel Connectors

Split Flange Adapters and Kits

Split Flange Kits – SAE Standard

Pressure Series
(Code 61) SAE J518



O-Ring Material:
Buna-N 90 Durometer

Temperature Range:
-40°F to +250°F
(-40°C to + 121°C)

Standard O-Ring complies with SAE specification SAE J515 Type CH (See page 243 for O-Ring compound and application chart)

Included in kit.

NOMINAL FLANGE SIZE	CATALOG NUMBER COMPLETE KIT	Included in kit.				A	B	C	BOLT TORQUE RANGE LB.-IN.
		FLANGE HALVES 2 REQ'D.	O-RING	BOLTS	LOCK WASHER				
1/2	SFK-08	8x251	8x252	8x853	8x254	1.50	.69	11/32	175-225
3/4	SFK-12	12x251	12x252	12x853	12x254	1.88	.88	13/32	250-350
1	SFK-16	16x251	16x252	12x853	12x254	2.06	1.03	13/32	325-425
1-1/4	SFK-20	20x251	20x252	20x853	20x254	2.31	1.19	15/32	425-550
1-1/2	SFK-24	24x251	24x252	24x853	24x254	2.75	1.41	17/32	550-700
2	SFK-32	32x251	32x252	24x853	24x254	3.06	1.69	17/32	650-800

Flanges conform to SAE J518.

Steel Connectors

Split Flange Adapters and Kits

Adapter Used With Standard Female Swivel End

(SAE Code 62)

Eaton split flange adapter eliminates the need for special hose ends. Interconnect pumps and valves with SAE flange outlets using low cost standard hose assemblies to replace original equipment hose assembly.

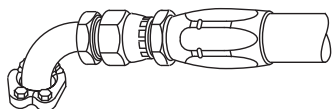
Material: Carbon steel.

Plating: Zinc, Yellow Dichromate finish.

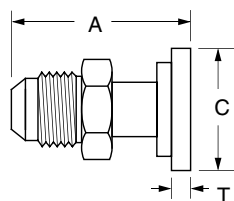
Pressure: Code 62 – 5000 PSI working pressure.

Label Set: FS-300

Note:
See page 408 for hydraulic O-ring assortment.

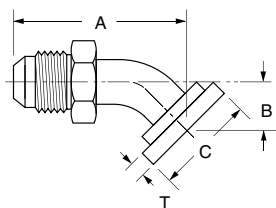


Straight



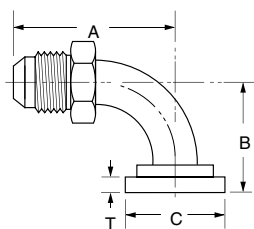
TUBE SIZE	CODE 62 FLANGE SIZE	CATALOG NUMBER	A	DIA. C	T	THREAD SIZE
1/2	1/2	60008	2.32	1.25	.305	3/4-16
3/4	3/4	60012	2.64	1.62	.345	1-1/16-12
1	1	60016	3.44	1.88	.375	1-5/16-12
1-1/4	1-1/4	60020	3.97	2.12	.405	1-5/8-12
1-1/2	1-1/2	60024	4.97	2.50	.495	1-7/8-12
2	2	60032	5.22	3.12	.495	2-1/2-12

45° Elbow



TUBE SIZE	CODE 62 FLANGE SIZE	CATALOG NUMBER	A	B	DIA. C	T	THREAD SIZE
1/2	1/2	64508	2.12	1.10	1.25	.305	3/4-16
3/4	3/4	64512	2.56	1.32	1.62	.345	1-1/16-12
1	1	64516	3.34	1.43	1.88	.375	1-5/16-12
1-1/4	1-1/4	64520	3.49	1.87	2.12	.405	1-5/8-12
1-1/2	1-1/2	64524	6.31	3.07	2.50	.495	1-7/8-12
2	2	64532	8.19	3.74	3.12	.495	2-1/2-12

90° Elbow



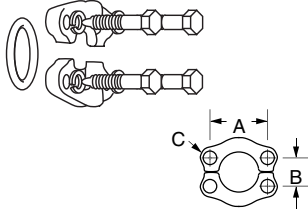
TUBE SIZE	CODE 62 FLANGE SIZE	CATALOG NUMBER	A	B	DIA. C	T	THREAD SIZE
1/2	1/2	69008	1.57	2.11	1.25	.305	3/4-16
3/4	3/4	69012	1.93	2.56	1.62	.345	1-1/16-12
1	1	69016	2.35	2.90	1.88	.375	1-5/16-12
1-1/4	1-1/4	69020	2.91	3.46	2.12	.405	1-5/8-12
1-1/2	1-1/2	69024	5.44	6.53	2.50	.495	1-7/8-12
2	2	69032	7.38	8.22	3.12	.495	2-1/2-12

Steel Connectors

Split Flange Adapters and Kits

Split Flange Kits – SAE High Pressure Series

(Code 62) SAE J518



O-Ring Material:
Buna-N 90 Durometer

Temperature Range:
-40°F to +250°F
(-40°C to + 121°C)

Standard O-Ring complies with SAE specifications SAE J515 Type CH (See page 243 for O-Ring compound and application chart)

Note:
Code 62 split flange kits cannot be used with Thick Flange™ Hose Ends. Use existing split flanges.

Included in kit.

NOMINAL FLANGE SIZE	CATALOG NUMBER COMPLETE KIT	FLANGE HALVES 2 REQ'D.	Included in kit.			A	B	C	BOLT TORQUE RANGE LB.-IN.
			O-RING	BOLTS	LOCK WASHER				
1/2	SFK62-8	8x262	8x252	8x853	8x254	1.57	.72	5/16	175-225
3/4	SFK62-12	12x262	12x252	12x863	12x254	2.00	.94	13/32	300-400
1	SFK62-16	16x262	16x252	16x863	20x254	2.25	1.09	15/32	500-600
1-1/4	SFK62-20	20x262	20x252	20x863	24x254	2.63	1.25	17/32	750-900
1-1/2	SFK62-24	24x262	24x252	24x863	24x264	3.12	1.44	21/32	1400-1600
2	SFK62-32	32x262	32x252	32x863	32x264	3.81	1.75	25/32	2400-2600

Flanges conform to SAE J518.