

Face Seal Fittings

FO Series O-ring Face Seal Fittings

Features

- ⊙ O-ring seal to provide perfect leak-tight service for working conditions from critical vacuum to high pressure
- ⊙ O-ring contained completely for maximum efficiency
- ⊙ Smooth finish on gland face to ensure positive seal
- ⊙ Test ports at nut for easy leak testing
- ⊙ Easy installation and maintainance
- ⊙ Silver-plated female threads
- ⊙ Standard surface roughness finished to an average of Ra 10 µin. (0.25 µm)
- ⊙ Every gland and body marked with size, material and heat code



Technical Data

- ⊙ Sizes ranging from 1/8" to 1"
- ⊙ Thread Specifications:

Thread Type	Specification
NPT	ASME B1.20.1, SAE AS71051
Unified (SAE)	ASME B1.1, SAE J475

- ⊙ Material

Material	Bar Stock	Forging	Designator
316 SS	ASTM A276, ASME SA479	ASTM A182, ASME SA182	SS
316L SS			6L

- ⊙ Working Pressure:
Working pressures shown in the Catalog are calculated according to ASME B31.3 and B31.1 at ambient temperature.
- ⊙ Working Temperature:
Temperature ranges for FO fittings are restricted by the material of O-rings.

Material	Designator	Working Temperature
Fluorocarbon FKM (70 durometer)	VI7	-10°F to 400°F (-23°C to 204°C)
Fluorocarbon FKM (90 durometer)	VI9	-10°F to 400°F (-23°C to 204°C)
PTFE	T	-50°F to 450°F (-45°C to 232°C)
Buna N (70 durometer)	BN7	-10°F to 250°F (-23°C to 121°C)
Perfluoroelastomer	Z	-10°F to 550°F (-23°C to 287°C)
Ethylene Propylene	E	-50°F to 300°F (-45°C to 148°C)

Fluorocarbon FKM of 90 durometer is used for SAE/MS threads end.

Testing

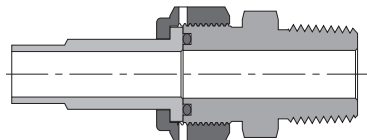
FO fitting is tested with helium (maximum allowable leak rate: 4×10^{-9} std cm³/s).

Ordering Information

- ⦿ Each component can be ordered separately.
- ⦿ The FO body is supplied with O-rings of fluorocarbon FKM (70 durometer).
- ⦿ The ordering number listed in this Series are for 316 SS material fittings. To order 316L SS material fittings, use 6L instead of SS.

Installation Instructions

1. Assemble the gland, nut, O-ring and body as below. Finger tight the nut.

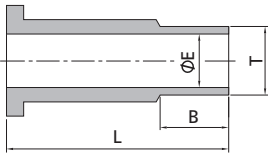


2. Tighten the nut 1/8 - 1/4 turn with a wrench while holding the fitting body steady, until there is a sharp rise in torque.

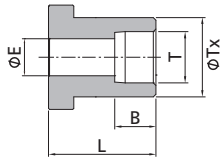
Cautions

- ⦿ Dimensions are for reference only and are subject to change.
- ⦿ Inspect the O-ring each time the groove housing is dismantled.
- ⦿ Before welding the body, the O-ring should be removed to prevent possible damages.
- ⦿ Tungsten Inert Gas Welding (TIG) is recommended.
- ⦿ Do not loosen or tighten fittings when system is pressurized.

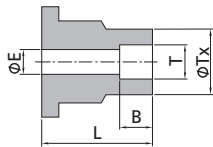
Glands



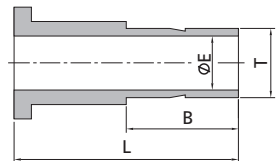
FO Gland to Tube Butt Weld						
FO Size (in.)	T-Tube O.D. (in.)	Ordering Number	Dimension, in. (mm)			Working Pressure psig (bar)
			L	B	E	
1/4	1/8	SS-G-FO4-TB2	0.77 (19.6)	0.28 (7.1)	0.06 (1.5)	11200 (771)
1/4	1/4	SS-G-FO4-TB4	1.12 (28.4)	0.41 (10.4)	0.12 (3.0)	11200 (771)
1/2	1/4	SS-G-FO8-TB4	0.91 (23.1)	0.41 (10.4)	0.12 (3.0)	11200 (771)
1/2	3/8	SS-G-FO8-TB6	0.84 (21.3)	0.41 (10.4)	0.23 (5.8)	8200 (564)
1/2	1/2	SS-G-FO8-TB8	1.06 (26.9)	0.50 (12.7)	0.33 (8.4)	7500 (516)



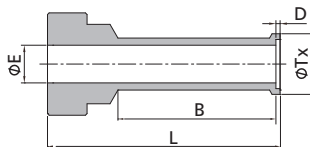
FO Gland to Tube Socket Weld							
FO Size (in.)	T-Tube O.D. (in.)	Ordering Number	Dimension, in. (mm)				Working pressure psig (bar)
			L	B	E	Tx	
1/8	1/8	SS-G-FO2-TS2	0.77 (19.6)	0.10 (2.5)	0.09 (2.3)	0.38 (9.7)	15400 (1061)
1/4	1/4	SS-G-FO4-TS4	0.77 (19.6)	0.28 (7.1)	0.18 (4.6)	0.38 (9.7)	6800 (468)
3/8	3/8	SS-G-FO6-TS6	0.81 (20.6)	0.31 (7.9)	0.28 (7.1)	0.60 (15.2)	8100 (558)
1/2	1/2	SS-G-FO8-TS8	0.81 (20.6)	0.38 (9.7)	0.40 (10.2)	0.60 (15.2)	3000 (206)
3/4	3/4	SS-G-FO12-TS12	0.94 (23.9)	0.44 (11.2)	0.62 (15.7)	0.92 (23.4)	3700 (255)
1	1	SS-G-FO16-TS16	0.98 (24.9)	0.62 (15.7)	0.87 (22.1)	1.19 (30.2)	3000 (206)



FO Gland to Tube Socket Weld Reducing							
FO Size (in.)	T-Tube O.D. (in.)	Ordering Number	Dimension, in. (mm)				Working pressure psig (bar)
			L	B	E	Tx	
1/4	1/8	SS-G-FO4-TS2	0.77 (19.6)	0.10 (2.5)	0.09 (2.3)	0.29 (7.4)	12600 (868)
1/2	1/4	SS-G-FO8-TS4	0.81 (20.6)	0.28 (7.1)	0.18 (4.6)	0.48 (12.2)	10700 (737)

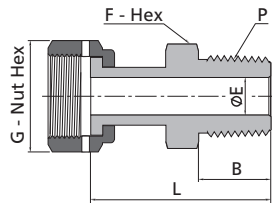


FO Gland to Tube Port						
FO Size (in.)	T-Tube O.D. (in.)	Ordering Number	Dimension, in. (mm)			Working Pressure psig (bar)
			L	B	E	
1/4	1/4	SS-G-FO4-FT4	1.31 (33.3)	0.64 (16.3)	0.18 (4.6)	10200 (702)
1/2	3/8	SS-G-FO8-FT6	1.38 (35.1)	0.70 (17.8)	0.27 (6.8)	6500 (447)
1/2	1/2	SS-G-FO8-FT8	1.62 (41.1)	0.96 (24.4)	0.37 (9.3)	6700 (461)
3/4	3/4	SS-G-FO12-FT12	1.80 (45.7)	1.02 (25.9)	0.58 (14.7)	5800 (399)
1	1	SS-G-FO16-FT16	2.05 (52.1)	1.30 (33.0)	0.80 (20.3)	4700 (323)



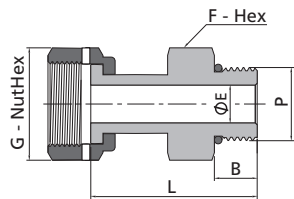
FO Gland to Automatic Tube Weld									
FO Size (in.)	Tube O.D. (in.)	Wall Thickness (in.)	Ordering Number	Dimension, in. (mm)					Working pressure psig (bar)
				L	B	D	E	Tx	
1/4	1/4	0.035	SS-G-FO4-TB4A	1.12 (28.4)	0.78 (19.8)	0.02 (0.51)	0.18 (4.6)	0.29 (7.4)	5100 (351)
1/2	3/8	0.035	SS-G-FO8-TB6A	1.13 (28.7)	0.79 (20.0)	0.03 (0.76)	0.31 (7.9)	0.41 (10.4)	3300 (227)
1/2	1/2	0.049	SS-G-FO8-TB8A	1.14 (29.0)	0.80 (20.3)	0.04 (1.0)	0.40 (10.2)	0.55 (14.0)	3500 (241)
3/4	3/4	0.049	SS-G-FO12-TB12A	1.20 (30.5)	0.80 (20.3)	0.04 (1.0)	0.65 (16.5)	0.80 (20.3)	2200 (151)
1	1	0.065	SS-G-FO16-TB16A	1.41 (35.8)	1.00 (25.4)	0.04 (1.0)	0.87 (22.1)	1.06 (26.9)	2200 (151)

Welded Glands



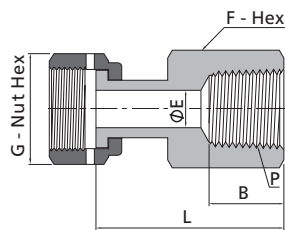
FO Welded Gland to Male NPT

FO Size (in.)	P-NPT Size	Ordering Number	Dimension, in. (mm)					Working Pressure psig (bar)
			L	B	E	G	F	
1/4	1/4	SS-WG-FO4-NS4	1.59 (40.4)	0.56 (14.2)	0.18 (4.6)	11/16 (17.5)	5/8 (15.9)	9800 (675)
1/2	3/8	SS-WG-FO8-NS6	1.67 (42.4)	0.56 (14.2)	0.40 (10.2)	1 (25.4)	15/16 (23.8)	5600 (385)
1/2	1/2	SS-WG-FO8-NS8	1.87 (47.5)	0.75 (19.1)	0.40 (10.2)	1 (25.4)	15/16 (23.8)	5600 (385)
3/4	3/4	SS-WG-FO12-NS12	2.03 (51.6)	0.75 (19.1)	0.62 (15.7)	1 1/2 (38.1)	1 1/16 (27.0)	3900 (268)
1	1	SS-WG-FO16-NS16	2.36 (59.9)	0.94 (23.9)	0.87 (22.1)	1 3/4 (44.5)	1 5/8 (41.3)	2900 (199)



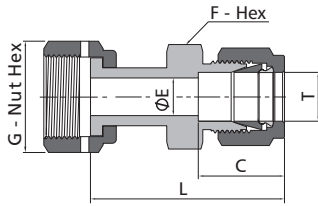
FO Welded Gland to SAE/MS Thread

FO Size (in.)	P-SAE/MS Thread Size	Ordering Number	Dimension, in. (mm)					Working Pressure psig (bar)
			L	B	E	G	F	
1/4	7/16-20	SS-WG-FO4-ST7	1.54 (39.1)	0.36 (9.1)	0.18 (4.6)	11/16 (17.5)	9/16 (14.3)	4500 (310)
1/2	9/16-18	SS-WG-FO8-ST9	1.64 (41.7)	0.39 (9.9)	0.40 (10.2)	1 (25.4)	11/16 (17.5)	4500 (310)
1/2	3/4-16	SS-WG-FO8-ST12	1.71 (43.4)	0.45 (11.2)	0.40 (10.2)	1 (25.4)	7/8 (22.2)	4500 (310)
3/4	1 1/16-12	SS-WG-FO12-ST17	2.07 (52.6)	0.59 (15.0)	0.62 (15.7)	1 1/2 (38.1)	1 1/4 (31.8)	3600 (248)
1	1 5/16-12	SS-WG-FO16-ST21	2.17 (55.1)	0.59 (15.0)	0.87 (22.1)	1 3/4 (44.5)	1 1/2 (38.1)	2900 (199)



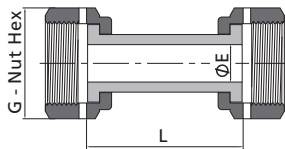
FO Welded Gland to Female NPT

FO Size (in.)	P-NPT Size	Ordering Number	Dimension, in. (mm)					Working Pressure psig (bar)
			L	B	E	G	F	
1/4	1/4	SS-WG-FO4-FNS4	1.57 (39.9)	0.59 (15.0)	0.18 (4.6)	11/16 (17.5)	3/4 (19.1)	6600 (454)
1/2	3/8	SS-WG-FO8-FNS6	1.73 (43.9)	0.59 (15.0)	0.40 (10.2)	1 (25.4)	7/8 (22.2)	5300 (365)
1/2	1/2	SS-WG-FO8-FNS8	1.96 (49.8)	0.78 (19.8)	0.40 (10.2)	1 (25.4)	1 1/16 (27.0)	4900 (337)
3/4	3/4	SS-WG-FO12-FNS12	2.12 (53.8)	0.81 (20.6)	0.62 (15.7)	1 1/2 (38.1)	1 5/16 (33.3)	4000 (275)
1	1	SS-WG-FO16-FNS16	2.29 (58.2)	1.00 (25.4)	0.87 (22.1)	1 3/4 (44.5)	1 5/8 (41.3)	3000 (206)



FO Welded Gland to Tube Fitting

FO Size (in.)	T-Tube O.D. (in.)	Ordering Number	Dimension, in. (mm)					Working Pressure psig (bar)
			L	C	E	G	F	
1/4	1/4	SS-WG-FO4-FL4	1.74 (44.2)	0.60 (15.2)	0.18 (4.6)	11/16 (17.5)	1/2 (12.7)	10200 (702)
1/2	3/8	SS-WG-FO8-FL6	1.87 (47.5)	0.66 (16.8)	0.28 (7.1)	1 (25.4)	5/8 (15.9)	5800 (399)
1/2	1/2	SS-WG-FO8-FL8	2.01 (51.1)	0.90 (22.9)	0.40 (10.2)	1 (25.4)	13/16 (20.6)	5800 (399)
3/4	3/4	SS-WG-FO12-FL12	2.14 (54.4)	0.96 (24.4)	0.62 (15.7)	1 1/2 (38.1)	1 1/16 (27.0)	4000 (275)
1	1	SS-WG-FO16-FL16	2.45 (62.2)	1.23 (31.2)	0.87 (22.1)	1 3/4 (44.5)	1 3/8 (34.9)	3000 (206)

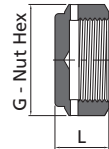
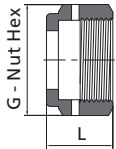


FO Welded Gland Union

FO Size (in.)	Ordering Number	Dimension, in. (mm)			Working Pressure psig (bar)
		L	E	G	
1/4	SS-WG-FO4	1.42 (36.1)	0.18 (4.6)	11/16 (17.5)	10200 (702)
1/2	SS-WG-FO8	1.61 (40.9)	0.40 (10.2)	1 (25.4)	5800 (399)

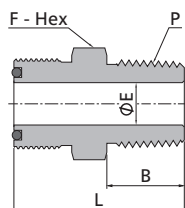
Nuts

Female				
FO Size (in.)	Ordering Number	Dimension, in. (mm)		
		L	G	
1/8-1/4	SS-N-FO4	0.66 (16.8)	11/16 (17.5)	
3/8-1/2	SS-N-FO8	0.69 (17.5)	1 (25.4)	
3/4	SS-N-FO12	0.81 (20.6)	1 1/2 (38.1)	
1	SS-N-FO16	0.81 (20.6)	1 3/4 (44.5)	

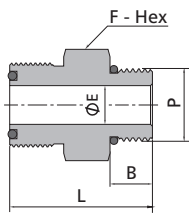


Blind				
FO Size (in.)	Ordering Number	Dimension, in. (mm)		
		L	G	
1/8-1/4	SS-N-FO4-B	0.44 (11.2)	11/16 (17.5)	
3/8-1/2	SS-N-FO8-B	0.56 (14.2)	1 (25.4)	
3/4	SS-N-FO12-B	0.75 (19.1)	1 1/2 (38.1)	
1	SS-N-FO16-B	0.81 (20.6)	1 3/4 (44.5)	

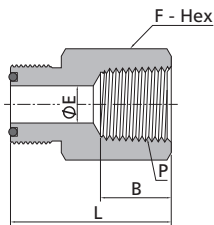
Bodies



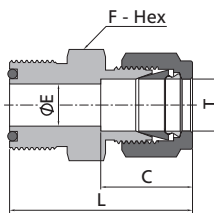
FO Body to Male NPT							
FO Size (in.)	P-NPT Size	Ordering Number	Dimension, in. (mm)				Working pressure psig (bar)
			L	F	B	E	
1/4	1/8	SS-CM-FO4-NS2	1.16 (29.5)	5/8 (15.9)	0.38 (9.7)	0.18 (4.6)	10000 (689)
1/4	1/4	SS-CM-FO4-NS4	1.34 (34.0)	5/8 (15.9)	0.56 (14.2)	0.18 (4.6)	13400 (923)
1/2	3/8	SS-CM-FO8-NS6	1.46 (37.1)	15/16 (23.8)	0.56 (14.2)	0.38 (9.7)	7800 (537)
1/2	1/2	SS-CM-FO8-NS8	1.65 (41.9)	15/16 (23.8)	0.75 (19.1)	0.40 (10.2)	10000 (689)
3/4	3/4	SS-CM-FO12-NS12	1.75 (44.5)	1 5/16 (33.3)	0.75 (19.1)	0.62 (15.7)	7300 (502)
1	1	SS-CM-FO16-NS16	1.97 (50.0)	1 5/8 (41.3)	0.94 (23.9)	0.87 (22.1)	5300 (365)



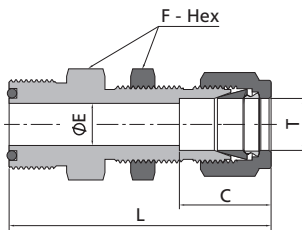
FO Body to SAE/MS Thread								
FO Size (in.)	P-SAE/MS Thread Size	Ordering Number	Dimension, in. (mm)				Working pressure psig (bar)	
			L	F	B	E		
1/4	7/16-20	SS-CM-FO4-ST7	1.24 (31.5)	11/16 (17.5)	0.36 (9.1)	0.18 (4.6)	4500 (310)	
1/4	9/16-18	SS-CM-FO4-ST9	1.17 (29.7)	11/16 (17.5)	0.39 (9.9)	0.18 (4.6)	4500 (310)	
1/2	7/16-20	SS-CM-FO8-ST7	1.36 (34.5)	15/16 (23.8)	0.36 (9.1)	0.18 (4.6)	4500 (310)	
1/2	9/16-18	SS-CM-FO8-ST9	1.39 (35.3)	15/16 (23.8)	0.39 (9.9)	0.30 (7.6)	4500 (310)	
1/2	3/4-16	SS-CM-FO8-ST12	1.47 (37.3)	1 (25.4)	0.44 (11.2)	0.40 (10.2)	4500 (310)	
3/4	1 1/16-12	SS-CM-FO12-ST17	1.73 (43.9)	1 3/8 (34.9)	0.59 (15.0)	0.62 (15.7)	3600 (248)	
1	1 5/16-12	SS-CM-FO16-ST21	1.79 (45.5)	1 5/8 (41.3)	0.59 (15.0)	0.85 (21.6)	2900 (199)	



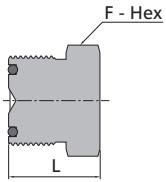
FO Body to Female NPT								
FO Size (in.)	P-NPT Size	Ordering Number	Dimension, in. (mm)				Working Pressure psig (bar)	
			L	F	B	E		
1/4	1/8	SS-CF-FO4-NS2	1.25 (31.8)	5/8 (15.9)	0.41 (10.4)	0.18 (4.6)	8400 (578)	
1/4	1/4	SS-CF-FO4-NS4	1.39 (35.3)	3/4 (19.1)	0.59 (15.0)	0.18 (4.6)	6600 (454)	
1/2	3/8	SS-CF-FO8-NS6	1.57 (39.9)	15/16 (23.8)	0.59 (15.0)	0.40 (10.2)	6600 (454)	
1/2	1/2	SS-CF-FO8-NS8	1.77 (45.0)	1 1/16 (27.0)	0.78 (19.8)	0.40 (10.2)	4900 (337)	
3/4	3/4	SS-CF-FO12-NS12	1.93 (49.0)	1 5/16 (33.3)	0.81 (20.6)	0.62 (15.7)	4600 (316)	
1	1	SS-CF-FO16-NS16	2.02 (51.3)	1 5/8 (41.3)	1.00 (25.4)	0.87 (22.1)	4400 (303)	



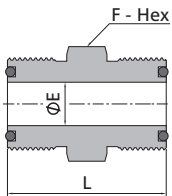
FO Body to Tube Fitting								
FO Size (in.)	T-tube O.D. (in.)	Ordering Number	Dimension, in. (mm)				Working Pressure psig (bar)	
			L	F	C	E		
1/4	1/8	SS-U-FO4-FL2	1.38 (35.1)	5/8 (15.9)	0.51 (13.0)	0.09 (2.3)	10900 (751)	
1/4	1/4	SS-U-FO4-FL4	1.47 (37.3)	5/8 (15.9)	0.60 (15.2)	0.18 (4.6)	10200 (702)	
1/2	3/8	SS-U-FO8-FL6	1.65 (41.9)	15/16 (23.8)	0.66 (16.8)	0.28 (7.1)	6500 (447)	
1/2	1/2	SS-U-FO8-FL8	1.78 (45.2)	15/16 (23.8)	0.90 (22.9)	0.40 (10.2)	6700 (461)	
3/4	3/4	SS-U-FO12-FL12	1.86 (47.2)	1 5/16 (33.3)	0.96 (24.4)	0.62 (15.7)	5800 (399)	
1	1	SS-U-FO16-FL16	2.06 (52.3)	1 5/8 (41.3)	1.23 (31.2)	0.87 (22.1)	4700 (323)	



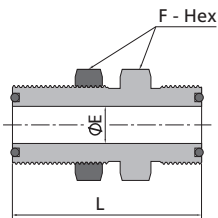
FO Body to Bulkhead Tube Fitting										
FO Size (in.)	T-tube O.D. (in.)	Ordering Number	Dimension, in. (mm)				Panel Hole Drill Size in. (mm)	Max. Panel Thickness in. (mm)	Working Pressure psig (bar)	
			L	F	C	E				
1/4	1/4	SS-UB-FO4-FL4	2.10 (53.4)	5/8 (15.9)	0.60 (15.2)	0.18 (4.6)	0.45 (11.5)	0.40 (10.2)	10200 (702)	
1/2	3/8	SS-UB-FO8-FL6	2.34 (59.4)	15/16 (23.8)	0.66 (16.8)	0.28 (7.1)	0.58 (14.7)	0.44 (11.2)	6500 (447)	
1/2	1/2	SS-UB-FO8-FL8	2.55 (64.8)	15/16 (23.8)	0.90 (22.9)	0.40 (10.2)	0.76 (19.4)	0.50 (12.7)	6700 (461)	
3/4	3/4	SS-UB-FO12-FL12	2.86 (72.6)	1 5/16 (33.3)	0.96 (24.4)	0.62 (15.7)	1.02 (25.8)	0.66 (16.8)	5800 (399)	
1	1	SS-UB-FO16-FL16	3.29 (83.6)	1 5/8 (41.3)	1.23 (31.2)	0.87 (22.1)	1.33 (33.7)	0.75 (19.1)	4700 (323)	



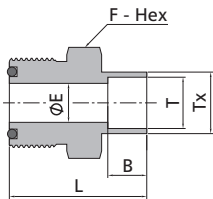
Blind Body			
FO Size (in.)	Ordering Number	Dimension, in. (mm)	
		L	F
1/4	SS-BY-FO4	0.77 (19.6)	5/8 (15.9)
1/2	SS-BY-FO8	0.89 (22.6)	15/16 (23.8)
3/4	SS-BY-FO12	0.99 (25.1)	1 5/16 (33.3)
1	SS-BY-FO16	1.02 (25.9)	1 5/8 (41.3)



Union Body						
FO Size (in.)	FO Size (in.)	Ordering Number	Dimension, in. (mm)			Working Pressure psig (bar)
			L	F	E	
1/4	1/4	SS-U-FO4	1.25 (31.8)	5/8 (15.9)	0.18 (4.6)	14300 (985)
1/2	1/4	SS-U-FO8-FO4	1.43 (36.3)	15/16 (23.8)	0.18 (4.6)	11100 (764)
1/2	1/2	SS-U-FO8	1.50 (38.1)	15/16 (23.8)	0.40 (10.2)	11100 (764)

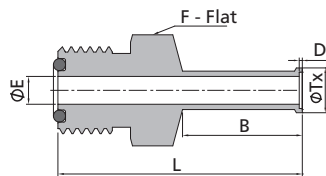


Bulkhead Union Body							
FO Size (in.)	Ordering Number	Dimension, in. (mm)			Panel Hole Drill Size in. (mm)	Max. Panel Thickness in. (mm)	Working Pressure psig (bar)
		L	F	E			
1/4	SS-BU-FO4	1.88 (47.8)	3/4 (19.1)	0.18 (4.60)	0.58 (14.7)	0.36 (9.10)	14300 (985)
1/2	SS-BU-FO8	2.09 (53.1)	1 1/16 (27.0)	0.40 (10.2)	0.89 (22.6)	0.40 (10.2)	11100 (764)



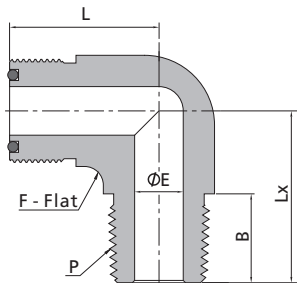
FO Body to Tube Socket Weld								
FO Size (in.)	T-Tube O.D. (in.)	Ordering Number	Dimension, in. (mm)					Working Pressure psig (bar)
			L	F	E	B	Tx	
1/8	1/8	SS-CW-FO4-TS2	0.88 (22.4)	5/8 (15.9)	0.09 (2.3)	0.10 (2.5)	0.29 (7.4)	12600 (868)
1/4	1/4	SS-CW-FO4-TS4	1.09 (27.7)	5/8 (15.9)	0.18 (4.6)	0.28 (7.1)	0.38 (9.7)	6800 (468)
3/8	3/8	SS-CW-FO8-TS6	1.28 (32.5)	15/16 (23.8)	0.28 (7.1)	0.31 (7.9)	0.60 (15.2)	8100 (558)
1/2	1/2	SS-CW-FO8-TS8	1.34 (34.0)	15/16 (23.8)	0.40 (10.2)	0.38 (9.7)	0.60 (15.2)	3000 (206)
3/4	3/4	SS-CW-FO12-TS12	1.50 (38.1)	1 5/16 (33.3)	0.62 (15.7)	0.44 (11.2)	0.92 (23.4)	3700 (254)
1	1	SS-CW-FO16-TS16	1.72 (43.7)	1 5/8 (41.3)	0.87 (22.1)	0.62 (15.7)	1.19 (30.2)	3000 (206)

33 Face Seal Fittings



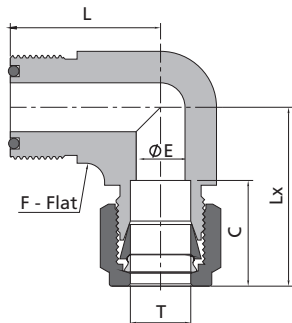
FO Body to Automatic Tube Weld

FO Size (in.)	T-tube O.D. (in.)	Wall (in.)	Ordering Number	Dimension, in. (mm)						Working Pressure psig (bar)
				L	B	D	E	Tx	F	
1/4	1/4	0.035	SS-CW-FO4-TB4A	1.59 (40.4)	0.78 (19.8)	0.02 (0.5)	0.18 (4.6)	0.29 (7.4)	5/8 (15.9)	5100 (351)
1/2	3/8	0.035	SS-CW-FO8-TB6A	1.74 (44.2)	0.79 (20.0)	0.03 (0.8)	0.31 (7.9)	0.41 (10.4)	15/16 (23.8)	3300 (227)
1/2	1/2	0.049	SS-CW-FO8-TB8A	1.75 (44.4)	0.80 (20.3)	0.04 (1.0)	0.40 (10.2)	0.55 (14.0)	15/16 (23.8)	3500 (241)
3/4	3/4	0.049	SS-CW-FO12-TB12A	1.78 (45.2)	0.80 (20.3)	0.04 (1.0)	0.65 (16.5)	0.80 (20.3)	1 5/16 (23.8)	2200 (151)
1	1	0.065	SS-CW-FO16-TB16A	2.03 (51.6)	1.00 (25.4)	0.04 (1.0)	0.87 (22.1)	1.06 (26.9)	1 5/8 (47.6)	2200 (151)



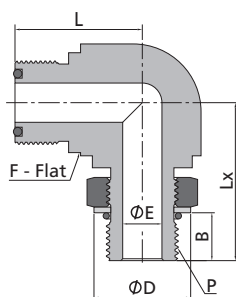
FO Body to Male NPT Elbow

FO Size (in.)	P-NPT Size	Ordering Number	Dimension, in. (mm)					Working Pressure psig (bar)
			L	F	B	E	Lx	
1/4	1/8	SS-LM-FO4-NS2	0.96 (24.4)	9/16 (14.3)	0.38 (9.7)	0.18 (4.6)	0.87 (22.1)	10000 (689)
1/4	1/4	SS-LM-FO4-NS4	0.96 (24.4)	9/16 (14.3)	0.56 (14.2)	0.18 (4.6)	1.05 (26.7)	8000 (551)
1/2	3/8	SS-LM-FO8-NS6	1.26 (32.0)	13/16 (20.6)	0.56 (14.2)	0.38 (9.7)	1.26 (32.0)	7800 (537)
1/2	1/2	SS-LM-FO8-NS8	1.26 (32.0)	13/16 (20.6)	0.75 (19.1)	0.40 (10.2)	1.45 (36.8)	7700 (530)
3/4	3/4	SS-LM-FO12-NS12	1.48 (37.6)	1 1/4 (31.8)	0.75 (19.1)	0.62 (15.7)	1.67 (42.4)	7300 (502)
1	1	SS-LM-FO16-NS16	1.56 (39.6)	1 11/16 (42.9)	0.94 (23.9)	0.87 (22.0)	1.94 (49.3)	5300 (365)



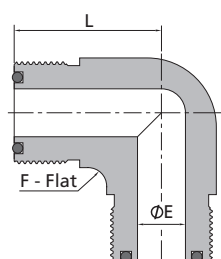
FO Body to Tube Fitting Elbow

FO Size (in.)	T-Tube O.D. (in.)	Ordering Number	Dimension, in. (mm)					Working Pressure psig (bar)
			L	F	C	E	Lx	
1/4	1/4	SS-LU-FO4-FL4	0.96 (24.4)	9/16 (14.3)	0.60 (15.2)	0.18 (4.6)	1.19 (30.2)	10200 (702)
1/2	3/8	SS-LU-FO8-FL6	1.26 (32.0)	13/16 (20.6)	0.66 (16.8)	0.28 (7.1)	1.39 (35.3)	6500 (447)
1/2	1/2	SS-LU-FO8-FL8	1.26 (32.0)	13/16 (20.6)	0.90 (22.9)	0.40 (10.2)	1.50 (38.1)	6700 (461)
3/4	3/4	SS-LU-FO12-FL12	1.48 (37.6)	1 1/4 (31.8)	0.96 (24.4)	0.62 (15.7)	1.80 (45.7)	5800 (399)
1	1	SS-LU-FO16-FL16	1.56 (39.6)	1 11/16 (42.9)	1.23 (31.2)	0.87 (22.1)	2.04 (51.8)	4700 (323)



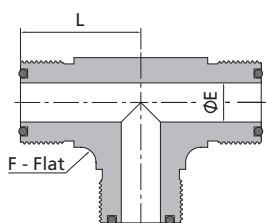
FO Body to Male SAE/MS Thread Adjustable Elbow

FO Size (in.)	P-SAE/MS Thread Size	Ordering Number	Dimension, in. (mm)						Working Pressure psig (bar)
			L	F	B	E	D	Lx	
1/4	7/16-20	SS-LP-FO4-ST7	0.96 (24.4)	1/2 (12.7)	0.39 (9.9)	0.18 (4.6)	0.65 (16.5)	1.19 (30.2)	4500 (310)
1/2	9/16-18	SS-LP-FO8-ST9	1.33 (33.8)	13/16 (20.6)	0.44 (11.2)	0.30 (7.6)	0.79 (20.1)	1.54 (39.1)	3600 (248)
1/2	3/4-16	SS-LP-FO8-ST12	1.33 (33.8)	13/16 (20.6)	0.50 (12.7)	0.40 (10.2)	1.01 (25.7)	1.65 (41.9)	3600 (248)
3/4	1 1/16-12	SS-LP-FO12-ST17	1.53 (38.9)	1 1/4 (31.8)	0.66 (16.8)	0.62 (15.7)	1.44 (36.6)	2.13 (54.1)	2900 (199)
1	1 5/16-12	SS-LP-FO16-ST21	1.72 (43.7)	1 11/16 (42.9)	0.66 (16.8)	0.87 (22.1)	1.73 (43.9)	2.31 (58.7)	2300 (158)



FO Body Union Elbow

FO Size (in.)	Ordering Number	Dimension, in. (mm)			Working Pressure psig (bar)
		L	F	E	
1/4	SS-LU-FO4	0.96 (24.4)	9/16 (14.3)	0.18 (4.6)	14300 (985)
1/2	SS-LU-FO8	1.26 (32.0)	13/16 (20.6)	0.40 (10.2)	11100 (764)
3/4	SS-LU-FO12	1.48 (37.6)	1 1/4 (31.8)	0.62 (15.7)	10900 (751)
1	SS-LU-FO16	1.56 (39.6)	1 11/16 (42.9)	0.87 (22.1)	8800 (606)



FO Body Union Tee

FO Size (in.)	Ordering Number	Dimension, in. (mm)			Working Pressure psig (bar)
		L	F	E	
1/4	SS-TTT-FO4	0.96 (24.4)	9/16 (14.3)	0.18 (4.6)	14300 (985)
1/2	SS-TTT-FO8	1.26 (32.0)	13/16 (20.6)	0.40 (10.2)	11100 (764)
3/4	SS-TTT-FO12	1.48 (37.6)	1 1/4 (31.8)	0.62 (15.7)	10900 (751)
1	SS-TTT-FO16	1.56 (39.6)	1 11/16 (42.9)	0.87 (22.1)	8800 (606)

O-rings



FO Size (in.)	Basic Ordering Number
1/8-1/4	-010
3/8-1/2	-111
3/4	-116
1	-215

Add the O-ring material designator in page F-40 as a prefix to the basic ordering number to get the complete ordering number.

Example: V17-010