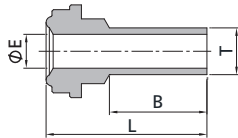


Glands

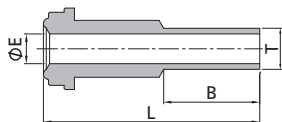


FR Gland to Short Fractional Tube Butt Weld

FR Size (in.)	T-Tube O.D. (in.)	Nominal Wall Thickness (in.)	Basic Ordering Number	Dimension, in. (mm)			Working Pressure, psig (bar)		
				L	B	E	6L	CU	NI
1/8	1/8	0.028	-G-FR2-TB2-12S	1.08 (27.4)	0.75 (19.1)	0.06 (1.5)	8500 (586)	6800 (468)	8500 (586)
1/4	1/8	0.028	-G-FR4-TB2-12S	1.10 (27.9)	0.75 (19.1)	0.06 (1.5)	5100 (351)	5100 (351)	5100 (351)
1/4	1/4	0.035	-G-FR4-TB4-4S	0.60 (15.2)	0.25 (6.4)	0.18 (4.6)	5100 (351)	5100 (351)	5100 (351)
1/4	1/4	0.035	-G-FR4-TB4-6S	0.72 (18.3)	0.38 (9.6)	0.18 (4.6)	5100 (351)	5100 (351)	5100 (351)
1/4	1/4	0.035	-G-FR4-TB4-12S	1.10 (27.9)	0.75 (19.1)	0.18 (4.6)	5100 (351)	5100 (351)	5100 (351)
1/2	1/4	0.035	-G-FR8-TB4-12S	1.12 (28.4)	0.75 (19.1)	0.18 (4.6)	4300 (296)	2800 (192)	3500 (241)
1/2	3/8	0.035	-G-FR8-TB6-4S	0.62 (15.7)	0.25 (6.4)	0.31 (7.9)	3300 (227)	2600 (179)	3300 (227)
1/2	3/8	0.035	-G-FR8-TB6-12S	1.12 (28.4)	0.75 (19.1)	0.31 (7.9)	3300 (227)	2600 (179)	3300 (227)
1/2	1/2	0.049	-G-FR8-TB8-4S	0.62 (15.7)	0.25 (6.4)	0.40 (10.2)	3500 (241)	2800 (192)	3500 (241)
1/2	1/2	0.049	-G-FR8-TB8-6S	0.74 (18.8)	0.38 (9.6)	0.40 (10.2)	3500 (241)	2800 (192)	3500 (241)
1/2	1/2	0.049	-G-FR8-TB8-12S	1.12 (28.4)	0.75 (19.1)	0.40 (10.2)	3500 (241)	2800 (192)	3500 (241)

FR Gland to Short Metric Tube Butt Weld

FR Size (in.)	T-Tube O.D. (mm)	Nominal Wall Thickness (mm)	Basic Ordering Number	Dimension, mm (in.)			Working Pressure, bar (psig)		
				L	B	E	6L	CU	NI
1/4	6	1.0	-G-FR4-MTB6-12S	29.5 (1.16)	19.1 (0.75)	4.0 (0.16)	468 (6800)	372 (5400)	468 (6800)
1/4	8	1.0	-G-FR4-MTB8-12S	29.5 (1.16)	19.1 (0.75)	6.0 (0.24)	337 (4900)	337 (4900)	337 (4900)
1/2	10	1.0	-G-FR8-MTB10-12S	29.5 (1.16)	19.1 (0.75)	8.0 (0.31)	241 (3500)	192 (2800)	241 (3500)
1/2	12	1.0	-G-FR8-MTB12-12S	29.5 (1.16)	19.1 (0.75)	10.0 (0.39)	213 (3100)	165 (2400)	213 (3100)
3/4	18	1.5	-G-FR12-MTB18-12S	31.0 (1.22)	19.1 (0.75)	15.0 (0.59)	206 (3000)	165 (2400)	206 (3000)



FR Gland to Long Fractional Tube Butt Weld

FR Size (in.)	T-Tube O.D. (in.)	Nominal Wall Thickness (in.)	Basic Ordering Number	Dimension, in. (mm)			Working Pressure, psig (bar)		
				L	B	E	6L	CU	NI
1/8	1/8	0.028	-G-FR2-TB2-12	1.42 (36.1)	0.75 (19.1)	0.06 (1.5)	8500 (586)	6800 (468)	8500 (586)
1/4	1/4	0.035	-G-FR4-TB4-4	1.20 (30.5)	0.25 (6.4)	0.18 (4.6)	5100 (351)	5100 (351)	5100 (351)
1/4	1/4	0.035	-G-FR4-TB4-1.31 ^①	1.31 (33.3)	0.36 (9.1)	0.18 (4.6)	5100 (351)	5100 (351)	5100 (351)
1/4	1/4	0.035	-G-FR4-TB4-6	1.32 (33.5)	0.38 (9.6)	0.18 (4.6)	5100 (351)	5100 (351)	5100 (351)
1/4	1/4	0.035	-G-FR4-TB4-12	1.70 (43.2)	0.75 (19.1)	0.18 (4.6)	5100 (351)	5100 (351)	5100 (351)
1/2	1/4	0.035	-G-FR8-TB4-12	1.80 (45.7)	0.75 (19.1)	0.18 (4.6)	4300 (296)	2800 (192)	3500 (241)
1/2	3/8	0.035	-G-FR8-TB6-4	1.29 (32.8)	0.25 (6.4)	0.31 (7.9)	3300 (227)	2600 (179)	3300 (227)
1/2	3/8	0.035	-G-FR8-TB6-12	1.79 (45.5)	0.75 (19.1)	0.31 (7.9)	3300 (227)	2600 (179)	3300 (227)
1/2	1/2	0.049	-G-FR8-TB8-4	1.29 (32.8)	0.25 (6.4)	0.40 (10.2)	3500 (241)	2800 (192)	3500 (241)
1/2	1/2	0.049	-G-FR8-TB8-6	1.41 (35.8)	0.38 (9.6)	0.40 (10.2)	3500 (241)	2800 (192)	3500 (241)
1/2	1/2	0.049	-G-FR8-TB8-12	1.79 (45.5)	0.75 (19.1)	0.40 (10.2)	3500 (241)	2800 (192)	3500 (241)
3/4	3/4	0.049	-G-FR12-TB12-12	2.03 (51.6)	0.75 (19.1)	0.65 (16.5)	2400 (165)	1900 (130)	2400 (165)
1	1	0.065	-G-FR16-TB16-12	2.32 (58.9)	0.75 (19.1)	0.87 (22.1)	2400 (165)	1900 (130)	2400 (165)

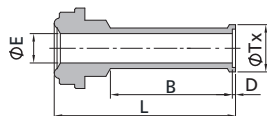
FR Gland to Long Metric Tube Butt Weld

FR Size (in.)	T-Tube O.D. (mm)	Nominal Wall Thickness (mm)	Basic Ordering Number	Dimension, mm (in.)			Working Pressure, bar (psig)		
				L	B	E	6L	CU	NI
1/4	6	1.0	-G-FR4-MTB6-12	43.2 (1.7)	19.1 (0.75)	4.0 (0.16)	468 (6800)	372 (5400)	468 (6800)
1/4	8	1.0	-G-FR4-MTB8-12	43.2 (1.7)	19.1 (0.75)	6.0 (0.24)	337 (4900)	337 (4900)	337 (4900)
1/2	10	1.0	-G-FR8-MTB10-12	45.5 (1.79)	19.1 (0.75)	8.0 (0.31)	241 (3500)	192 (2800)	241 (3500)
1/2	12	1.0	-G-FR8-MTB12-12	45.5 (1.79)	19.1 (0.75)	10.0 (0.39)	213 (3100)	165 (2400)	213 (3100)
3/4	18	1.5	-G-FR12-MTB18-12	51.6 (2.03)	19.1 (0.75)	15.0 (0.59)	206 (3000)	165 (2400)	206 (3000)

Suffix -4, -6, -12 indicates that Dimension B equals to the specific suffix value times 1/16. Example: With suffix "12", Dimension B = 12/16 = 3/4" or 19.1 mm.

① -1.31 means the length of Dim L.

07 Face Seal Fittings

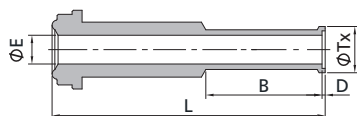


Short Fractional Automatic Tube Butt Weld

FR Size (in.)	Tube O.D. (in.)	Nominal Wall Thickness (in.)	Basic Ordering Number	Dimension, in. (mm)					Working Pressure, psig (bar)		
				L	B	D	E	Tx	6L	CU	NI
1/4	1/4	0.035	-AG-FR4-TB4-12S	1.12 (28.4)	0.75 (19.1)	0.02 (0.5)	0.18 (4.6)	0.29 (7.4)	5100 (351)	5100 (351)	5100 (351)
1/2	3/8	0.035	-AG-FR8-TB6-12S	1.15 (29.2)	0.75 (19.1)	0.03 (0.8)	0.31 (7.9)	0.41 (10.4)	3300 (227)	2600 (179)	3300 (227)
1/2	1/2	0.049	-AG-FR8-TB8-12S	1.16 (29.5)	0.75 (19.1)	0.04 (1.0)	0.40 (10.2)	0.55 (14.0)	3500 (241)	2800 (192)	3500 (241)

Short Metric Automatic Tube Butt Weld

FR Size (in.)	Tube O.D. (mm)	Nominal Wall Thickness (mm)	Basic Ordering Number	Dimension, mm (in.)					Working Pressure, bar (psig)		
				L	B	D	E	Tx	6L	CU	NI
1/4	6	1.0	-AG-FR4-MTB6-12S	30.0 (1.18)	19.1 (0.75)	0.5 (0.02)	4.0 (0.16)	6.8 (0.27)	468 (6800)	372 (5400)	468 (6800)
1/4	8	1.0	-AG-FR4-MTB8-12S	30.2 (1.19)	19.1 (0.75)	0.8 (0.03)	6.0 (0.24)	8.9 (0.35)	337 (4900)	337 (4900)	337 (4900)
1/2	10	1.0	-AG-FR8-MTB10-12S	31.0 (1.22)	19.1 (0.75)	0.8 (0.03)	8.0 (0.31)	10.9 (0.43)	241 (3500)	192 (2800)	241 (3500)
1/2	12	1.0	-AG-FR8-MTB12-12S	30.5 (1.20)	19.1 (0.75)	1.0 (0.04)	10.0 (0.39)	13.2 (0.52)	213 (3100)	165 (2400)	213 (3100)

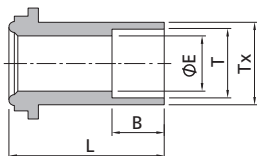


Long Fractional Automatic Tube Butt Weld

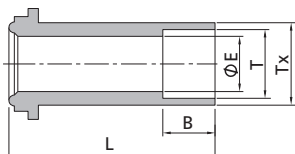
FR Size (in.)	Tube O.D. (in.)	Nominal Wall Thickness (in.)	Basic Ordering Number	Dimension, in. (mm)					Working Pressure, psig (bar)		
				L	B	D	E	Tx	6L	CU	NI
1/4	1/4	0.035	-AG-FR4-TB4-12	1.72 (43.7)	0.75 (19.1)	0.02 (0.5)	0.18 (4.6)	0.29 (7.4)	5100 (351)	5100 (351)	5100 (351)
1/2	1/4	0.035	-AG-FR8-TB4-12	1.82 (46.2)	0.75 (19.1)	0.02 (0.5)	0.18 (4.6)	0.29 (7.4)	3500 (241)	2800 (192)	3500 (241)
1/2	3/8	0.035	-AG-FR8-TB6-12	1.82 (46.2)	0.75 (19.1)	0.03 (0.8)	0.31 (7.9)	0.41 (10.4)	3300 (227)	2600 (179)	3300 (227)
1/2	1/2	0.049	-AG-FR8-TB8-12	1.83 (46.5)	0.75 (19.1)	0.04 (1.0)	0.40 (10.2)	0.55 (14.0)	3500 (241)	2800 (192)	3500 (241)
3/4	3/4	0.049	-AG-FR12-TB12-12	2.07 (52.6)	0.75 (19.1)	0.04 (1.0)	0.65 (16.5)	0.80 (20.3)	2400 (165)	2400 (165)	2400 (165)
1	1	0.065	-AG-FR16-TB16-16	2.57 (65.3)	0.96 (24.4)	0.04 (1.0)	0.87 (22.1)	1.06 (26.9)	2400 (165)	1900 (130)	2400 (165)

Long Metric Automatic Tube Butt Weld

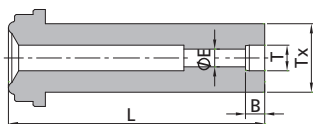
FR Size (in.)	Tube O.D. (mm)	Nominal Wall Thickness (mm)	Basic Ordering Number	Dimension, mm (in.)					Working Pressure, bar (psig)		
				L	B	D	E	Tx	6L	CU	NI
1/4	6	1.0	-AG-FR4-MTB6-12	43.7 (1.72)	19.1 (0.75)	0.5 (0.02)	4.0 (0.16)	6.8 (0.27)	468 (6800)	372 (5400)	468 (6800)
1/2	12	1.0	-AG-FR8-MTB12-12	46.5 (1.83)	19.1 (0.75)	1.0 (0.04)	10.0 (0.39)	13.2 (0.52)	213 (3100)	165 (2400)	213 (3100)
3/4	18	1.5	-AG-FR12-MTB18-12	52.6 (2.07)	19.1 (0.75)	1.0 (0.04)	15.0 (0.59)	19.3 (0.76)	206 (3000)	165 (2400)	206 (3000)

**FR Gland to Short Tube Socket Weld**

FR Size (in.)	T-Tube O.D. (in.)	Basic Ordering Number	Dimension, in. (mm)				Working Pressure, psig (bar)		
			L	B	E	Tx	6L	CU	NI
1/4	1/4	-G-FR4-TS4-0.50	0.50 (12.7)	0.28 (7.1)	0.18 (4.6)	0.35 (8.9)	5500 (378)	5500 (378)	5500 (378)
1/4	1/4	-G-FR4-TS4-0.75	0.75 (19.1)	0.28 (7.1)	0.18 (4.6)	0.35 (8.9)	5500 (378)	5500 (378)	5500 (378)

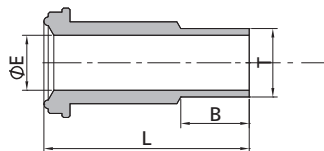
**FR Gland to Tube Socket Weld**

FR Size (in.)	T-Tube O.D. (in.)	Basic Ordering Number	Dimension, in. (mm)				Working Pressure, psig (bar)		
			L	B	E	Tx	6L	CU	NI
1/8	1/16	-G-FR2-TS1	0.70 (17.8)	0.10 (2.5)	0.05 (1.3)	0.13 (3.3)	9000 (620)	7200 (496)	9000 (620)
1/8	1/8	-G-FR2-TS2	0.70 (17.8)	0.10 (2.5)	0.09 (2.3)	0.20 (5.1)	7100 (489)	7100 (489)	7100 (489)
1/4	1/4	-G-FR4-TS4	1.31 (33.3)	0.28 (7.1)	0.18 (4.6)	0.35 (8.9)	5500 (378)	5500 (378)	5500 (378)
1/2	3/8	-G-FR8-TS6	1.50 (38.1)	0.31 (7.9)	0.28 (7.1)	0.60 (15.2)	4300 (296)	2800 (192)	3500 (241)
1/2	1/2	-G-FR8-TS8	1.50 (38.1)	0.38 (9.7)	0.40 (10.2)	0.60 (15.2)	3000 (206)	2400 (165)	3000 (206)
5/8	5/8	-G-FR10-TS10	1.56 (39.6)	0.41 (10.4)	0.50 (12.7)	0.72 (18.3)	2800 (192)	2200 (151)	2800 (192)
3/4	3/4	-G-FR12-TS12	2.00 (50.8)	0.44 (11.2)	0.62 (15.7)	0.88 (22.4)	2800 (192)	2200 (151)	2800 (192)
1	1	-G-FR16-TS16	2.22 (56.4)	0.62 (15.7)	0.87 (22.1)	1.19 (30.2)	3000 (206)	1900 (130)	2400 (165)

**Reducing Socket Weld**

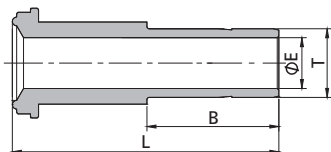
FR Size (in.)	T-Tube O.D. (in.)	Basic Ordering Number	Dimension, in. (mm)				Working Pressure, psig (bar)		
			L	B	E	Tx	6L	CU	NI
1/4	1/8	-G-FR4-RTS2	1.31 (33.3)	0.10 (2.5)	0.09 (2.3)	0.35 (8.9)	8000 (551)	8000 (551)	8000 (551)
1/2	1/4	-G-FR8-RTS4	1.50 (38.1)	0.28 (7.1)	0.18 (4.6)	0.60 (15.2)	3500 (241)	3500 (241)	3500 (241)

09 Face Seal Fittings



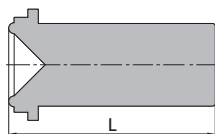
FR Gland to Male Weld

FR Size (in.)	T-Tube O.D. (in.)	Basic Ordering Number	Dimension, in. (mm)			Working Pressure, psig (bar)		
			L	B	E	6L	CU	NI
1/8	1/8	-G-FR2-TB2	0.70 (17.8)	0.28 (7.1)	0.06 (1.5)	11200 (772)	7200 (496)	9000 (620)
1/4	1/8	-G-FR4-TB2	1.31 (33.3)	0.28 (7.1)	0.06 (1.5)	10000 (690)	6400 (440)	8000 (551)
1/4	1/4	-G-FR4-TB4	1.31 (33.3)	0.41 (10.4)	0.12 (3.0)	10000 (690)	6400 (440)	8000 (551)
1/2	1/4	-G-FR8-TB4	1.50 (38.1)	0.41 (10.4)	0.12 (3.0)	4300 (296)	2800 (192)	3500 (241)
1/2	3/8	-G-FR8-TB6	1.50 (38.1)	0.41 (10.4)	0.28 (7.1)	4300 (296)	2800 (192)	3500 (241)
1/2	1/2	-G-FR8-TB8	1.50 (38.1)	0.50 (12.7)	0.40 (10.2)	3500 (241)	3500 (241)	3500 (241)
3/4	3/4	-G-FR12-TB12	2.00 (50.8)	0.62 (15.7)	0.53 (13.5)	3700 (254)	2400 (165)	3000 (206)
1	1	-G-FR16-TB16	2.22 (56.4)	0.81 (20.6)	0.75 (19.1)	3000 (206)	1900 (130)	2400 (165)



FR Gland to Tube Port

FR Size (in.)	T-Tube O.D. (in.)	Basic Ordering Number	Dimension, in. (mm)			Working Pressure, psig (bar)		
			L	B	E	6L	CU	NI
1/4	1/4	-G-FR4-FT4	1.62 (41.0)	0.64 (16.2)	0.17 (4.3)	10000 (690)	6400 (440)	8000 (551)
1/2	3/8	-G-FR8-FT6	1.81 (46.0)	0.70 (17.8)	0.27 (6.9)	4300 (296)	2800 (192)	3500 (241)
1/2	1/2	-G-FR8-FT8	1.94 (49.3)	0.96 (24.4)	0.37 (9.4)	4300 (296)	2800 (192)	3500 (241)



Blind Gland

FR Size (in.)	Basic Ordering Number	Dimension, in. (mm)
		L
1/8	-G-FR2-B	0.70 (17.8)
1/4	-G-FR4-B	1.31 (33.3)
1/2	-G-FR8-B	1.50 (38.1)
3/4	-G-FR12-B	2.00 (50.8)
1	-G-FR16-B	2.22 (56.4)