

6W Series Weld Fittings



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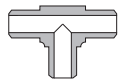
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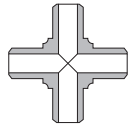
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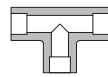
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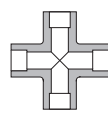
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Tube Butt Weld to Tube Socket Weld - WA



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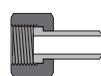
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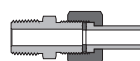
Pipe to Weld Fittings

Pipe to Tube Butt Weld - PUW



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Male Pipe to Tube Butt Weld - MUW



A-163

Ordering Number Description

A-164

Features

- ◎ 316 stainless steel as standard material. Other materials are available upon request
- ◎ Straight fittings are manufactured from quality bar stock. Shaped fittings are made by forging
- ◎ Quality machining of all ports ensures consistent welding
- ◎ Radius junction design for elbows provides smooth flow path
- ◎ All fittings are cleaned to remove oil, grease and loose particles
- ◎ Every fitting is marked with size, material and heat number

Technical Data

- ◎ Sizes range from 1/8" to 2" and 6 mm to 38 mm.
- ◎ Dimensions and Wall Thickness of Tubes with Butt Welding Ends

Fractional Tube	
Tube O.D. in.	Wall Thickness in.
1/4	0.065
3/8	0.095
1/2	0.095
5/8	0.109
3/4	0.120
1	0.134

Metric Tube	
Tube O.D. mm	Wall Thickness mm
6	1.8
8	1.8
10	2.2
12	2.2
14	2.5
15	2.5
16	2.8
18	2.8
20	3.0
22	3.0
25	3.5
27	4.0
28	4.0
30	4.0
32	4.5
34	4.5
38	5.0

Pipe		O.D.		Nominal Wall Thickness SCH80	
NPS	DN	in.	mm	in.	mm
1/8	6	0.405	10.3	0.095	2.41
1/4	8	0.540	13.7	0.119	3.02
3/8	10	0.675	17.1	0.126	3.20
1/2	15	0.840	21.3	0.147	3.73
3/4	20	1.050	26.7	0.154	3.91
1	25	1.315	33.4	0.179	4.55

For welding ends in other dimensions or with other wall thickness, please contact FITOK or our authorized distributors.

- ◎ Working Temperature:

Material	Minimum Temperature	Maximum Temperature
316 stainless steel	-325°F (-198°C)	1000°F (538°C)
316L stainless steel	-325°F (-198°C)	850°F (454°C)
904L stainless steel	-325°F (-198°C)	700°F (371°C)

- ◎ Working Pressure:

1. The working pressures shown are based on ANSI/ASME B31.3 at ambient temperature, to determine working pressures in accordance with ANSI/ASME B31.1, multiply the working pressures by 0.94.
2. Use the allowable working pressure at ambient temperature to multiply the elevated temperature factors to get the working pressure at elevated temperature. To know the elevated temperature factor, please see F-14.

Materials

Material	Bar Stock	Forgings	Designator
316 stainless steel	ASTM A276, ASME SA479	ASTM A182, ASME SA182	SS
316L stainless steel			6L
904L stainless steel	ASTM B649	ASTM A182	904L

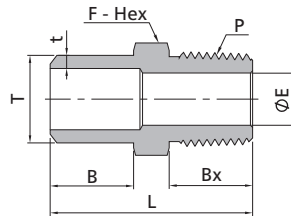
- ◎ Using the same materials to weld will ensure the same coefficients of expansion and good welding.
- ◎ Tungsten Inert Gas (TIG) Welding is recommended.

Dimensions

Dimensions are for reference only, subject to change.

Tube Butt Weld Fittings

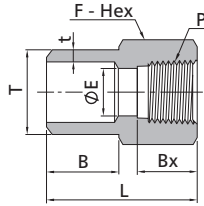
Male Connectors



Fractional Tube									NPT Thread
T-Tube O.D. (in.)	t-Wall Thickness (in.)	P-NPT Size	Basic Ordering Number	Dimensions, in. (mm)					Working Pressure psig (bar)
				L	B	Bx	F	E	
1/4	0.065	1/4	-WM-TB4-NS4	1.17 (29.7)	0.38 (9.7)	0.56 (14.2)	0.56 (14.3)	0.28 (7.1)	8000 (551)
1/4	0.065	1/2	-WM-TB4-NS8	1.45 (36.8)	0.38 (9.7)	0.75 (19.1)	0.87 (22.2)	0.47 (11.9)	7700 (530)
3/8	0.095	1/4	-WM-TB6-NS4	1.17 (29.7)	0.38 (9.7)	0.56 (14.2)	0.56 (14.3)	0.28 (7.1)	8000 (551)
3/8	0.095	1/2	-WM-TB6-NS8	1.45 (36.8)	0.38 (9.7)	0.75 (19.1)	0.87 (22.2)	0.47 (11.9)	7700 (530)
1/2	0.095	1/4	-WM-TB8-NS4	1.35 (34.3)	0.56 (14.2)	0.56 (14.2)	0.56 (14.3)	0.28 (7.1)	6780 (468)
1/2	0.095	1/2	-WM-TB8-NS8	1.63 (41.4)	0.56 (14.2)	0.75 (19.1)	0.87 (22.2)	0.47 (11.9)	6780 (468)
5/8	0.109	1/4	-WM-TB10-NS4	1.37 (34.8)	0.56 (14.2)	0.56 (14.2)	0.69 (17.5)	0.28 (7.1)	5760 (397)
5/8	0.109	1/2	-WM-TB10-NS8	1.63 (41.4)	0.56 (14.2)	0.75 (19.1)	0.87 (22.2)	0.47 (11.9)	5760 (397)
3/4	0.120	1/4	-WM-TB12-NS4	1.58 (40.1)	0.75 (19.1)	0.56 (14.2)	0.81 (20.6)	0.28 (7.1)	5530 (381)
3/4	0.120	1/2	-WM-TB12-NS8	1.82 (46.2)	0.75 (19.1)	0.75 (19.1)	0.87 (22.2)	0.47 (11.9)	5530 (381)
1	0.134	1/4	-WM-TB16-NS4	1.69 (42.9)	0.75 (19.1)	0.56 (14.2)	1.06 (27.0)	0.28 (7.1)	4480 (309)
1	0.134	1/2	-WM-TB16-NS8	1.88 (47.8)	0.75 (19.1)	0.75 (19.1)	1.06 (27.0)	0.47 (11.9)	4480 (309)

Metric Tube									NPT Thread
T-Tube O.D. (mm)	t-Wall Thickness (mm)	P-NPT Size	Basic Ordering Number	Dimensions, mm (in.)					Working Pressure psig (bar)
				L	B	Bx	F	E	
12	2.2	1/4	-WM-MTB12-NS4	34.3 (1.35)	14.2 (0.56)	14.2 (0.56)	14.0 (0.55)	7.1 (0.28)	6470 (446)
12	2.2	1/2	-WM-MTB12-NS8	41.1 (1.62)	14.2 (0.56)	19.1 (0.75)	22.0 (0.87)	11.9 (0.47)	6470 (446)
14	2.5	1/4	-WM-MTB14-NS4	34.3 (1.35)	14.2 (0.56)	14.2 (0.56)	15.0 (0.59)	7.1 (0.28)	6280 (433)
14	2.5	1/2	-WM-MTB14-NS8	41.4 (1.63)	14.2 (0.56)	19.1 (0.75)	22.0 (0.87)	11.9 (0.47)	6280 (433)
15	2.5	1/4	-WM-MTB15-NS4	34.8 (1.37)	14.2 (0.56)	14.2 (0.56)	16.0 (0.63)	7.1 (0.28)	5770 (398)
16	2.8	1/4	-WM-MTB16-NS4	35.6 (1.40)	14.2 (0.56)	14.2 (0.56)	18.0 (0.71)	7.1 (0.28)	6140 (423)
16	2.8	1/2	-WM-MTB16-NS8	41.1 (1.62)	14.2 (0.56)	19.1 (0.75)	22.0 (0.87)	11.9 (0.47)	6140 (423)
20	3.0	1/2	-WM-MTB20-NS8	46.2 (1.82)	19.1 (0.75)	19.1 (0.75)	22.0 (0.87)	11.9 (0.47)	5110 (352)
22	3.0	1/4	-WM-MTB22-NS4	41.2 (1.62)	19.1 (0.75)	14.2 (0.56)	24.0 (0.94)	7.1 (0.28)	4620 (319)
22	3.0	1/2	-WM-MTB22-NS8	46.1 (1.81)	19.1 (0.75)	19.1 (0.75)	24.0 (0.94)	11.9 (0.47)	4620 (319)
25	3.5	3/4	-WM-MTB25-NS12	47.8 (1.88)	19.1 (0.75)	19.1 (0.75)	27.0 (1.06)	15.7 (0.62)	4730 (326)
25	3.5	1	-WM-MTB25-NS16	54.9 (2.16)	19.1 (0.75)	23.9 (0.94)	35.0 (1.38)	22.4 (0.88)	4730 (326)
28	4.0	1/2	-WM-MTB28-NS8	54.2 (2.13)	21.4 (0.84)	19.1 (0.75)	30.0 (1.18)	11.9 (0.47)	4850 (335)

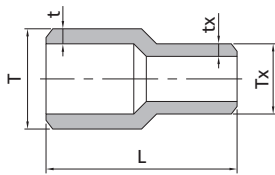
Female Connectors



Fractional Tube					NPT Thread				
T-Tube O.D. (in.)	t-Wall Thickness (in.)	P-NPT Size	Basic Ordering Number	Dimensions, in. (mm)					Working Pressure psig (bar)
				L	B	Bx	F	E	
1/4	0.065	1/4	-WF-TB4-NS4	1.10 (27.9)	0.38 (9.7)	0.59 (15.0)	0.75 (19.1)	0.12 (3.0)	6600 (454)
1/4	0.065	3/8	-WF-TB4-NS6	1.16 (29.5)	0.38 (9.7)	0.59 (15.0)	0.87 (22.2)	0.12 (3.0)	5300 (365)
3/8	0.095	1/4	-WF-TB6-NS4	1.10 (27.9)	0.38 (9.7)	0.59 (15.0)	0.75 (19.1)	0.19 (4.7)	6600 (454)
3/8	0.095	3/8	-WF-TB6-NS6	1.16 (29.5)	0.38 (9.7)	0.59 (15.0)	0.87 (22.2)	0.19 (4.7)	5300 (365)
1/2	0.095	1/4	-WF-TB8-NS4	1.34 (34.0)	0.56 (14.2)	0.59 (15.0)	0.75 (19.1)	0.31 (7.9)	6600 (454)
1/2	0.095	3/8	-WF-TB8-NS6	1.34 (34.0)	0.56 (14.2)	0.59 (15.0)	0.87 (22.2)	0.31 (7.9)	5300 (365)
1/2	0.095	1/2	-WF-TB8-NS8	1.53 (38.9)	0.56 (14.2)	0.78 (19.8)	1.06 (27.0)	0.31 (7.9)	4900 (337)

Metric Tube					NPT Thread				
T-Tube O.D. (mm)	t-Wall Thickness (mm)	P-NPT Size	Basic Ordering Number	Dimensions, mm (in.)					Working Pressure psig (bar)
				L	B	Bx	F	E	
14	2.5	1/4	-WF-MTB14-NS4	33.0 (1.30)	14.2 (0.56)	15.0 (0.59)	19.0 (0.75)	9.0 (0.35)	6280 (433)
14	2.5	1/2	-WF-MTB14-NS8	38.9 (1.53)	14.2 (0.56)	19.8 (0.78)	27.0 (1.06)	9.0 (0.35)	4900 (337)
20	3.0	1/2	-WF-MTB20-NS8	43.7 (1.72)	19.1 (0.75)	19.8 (0.78)	27.0 (1.06)	14.0 (0.55)	4900 (337)
28	4.0	1/2	-WF-MTB28-NS8	49.8 (1.96)	23.9 (0.94)	19.8 (0.78)	30.0 (1.18)	15.7 (0.62)	4850 (335)

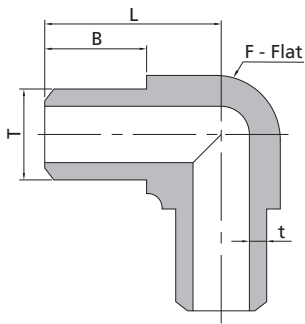
Reducing Unions



Fractional Tube					Fractional Tube	
T-Tube O.D. (in.)	t-Wall Thickness (in.)	Tx-Tube O.D. (in.)	tx-Wall Thickness (in.)	Basic Ordering Number	L in. (mm)	Working Pressure psig (bar)
3/8	0.095	1/4	0.065	-WU-TB6-TB4	1.50 (38.1)	9930 (685)
1/2	0.095	1/4	0.065	-WU-TB8-TB4	1.50 (38.1)	6780 (468)
1/2	0.095	3/8	0.095	-WU-TB8-TB6	1.50 (38.1)	6780 (468)
3/4	0.120	1/2	0.095	-WU-TB12-TB8	1.50 (38.1)	5530 (381)
1	0.134	3/4	0.120	-WU-TB16-TB12	1.50 (38.1)	4480 (309)

Metric Tube					Metric Tube	
T-Tube O.D. (mm)	t-Wall Thickness (mm)	Tx-Tube O.D. (mm)	tx-Wall Thickness (mm)	Basic Ordering Number	L mm (in.)	Working Pressure psig (bar)
20	3.0	14	2.5	-WU-MTB20-MTB14	38.1 (1.50)	6470 (445)
22	3.0	14	2.5	-WU-MTB22-MTB14	38.1 (1.50)	5780 (395)
22	3.0	18	2.8	-WU-MTB22-MTB18	38.1 (1.50)	5780 (395)
25	3.5	22	3.0	-WU-MTB25-MTB22	38.1 (1.50)	5780 (395)
38	5.0	25	3.5	-WU-MTB38-MTB25	38.1 (1.50)	5540 (380)

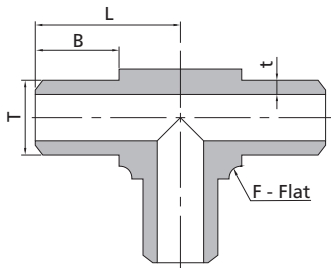
Union Elbows



Fractional Tube						
T-Tube O.D. (in.)	t-Wall Thickness (in.)	Basic Ordering Number	Dimensions, in. (mm)			Working Pressure psig (bar)
			L	B	F	
1/4	0.065	-WLU-TB4	0.64 (16.3)	0.38 (9.7)	0.37 (9.5)	10320 (712)
3/8	0.095	-WLU-TB6	0.71 (18.0)	0.38 (9.7)	0.44 (11.1)	9930 (685)
1/2	0.095	-WLU-TB8	0.96 (24.4)	0.56 (14.2)	0.56 (14.3)	6780 (468)
3/4	0.120	-WLU-TB12	1.31 (33.3)	0.75 (19.1)	0.81 (20.6)	5530 (381)
1	0.134	-WLU-TB16	1.46 (37.1)	0.75 (19.1)	1.06 (27.0)	4480 (309)

Metric Tube						
T-Tube O.D. (mm)	t-Wall Thickness (mm)	Basic Ordering Number	Dimensions, mm (in.)			Working Pressure psig (bar)
			L	B	F	
10	2.2	-WLU-MTB10	18.0 (0.71)	9.7 (0.38)	11.1 (0.44)	8160 (563)
14	2.5	-WLU-MTB14	25.4 (1.00)	14.2 (0.56)	15.9 (0.63)	6280 (433)
16	2.8	-WLU-MTB16	26.2 (1.03)	14.2 (0.56)	17.5 (0.69)	6140 (423)
20	3.0	-WLU-MTB20	33.3 (1.31)	19.1 (0.75)	20.6 (0.81)	5110 (352)
22	3.0	-WLU-MTB22	35.3 (1.39)	19.1 (0.75)	23.8 (0.94)	4620 (319)
25	3.5	-WLU-MTB25	37.1 (1.46)	19.1 (0.75)	27.0 (1.06)	4730 (326)

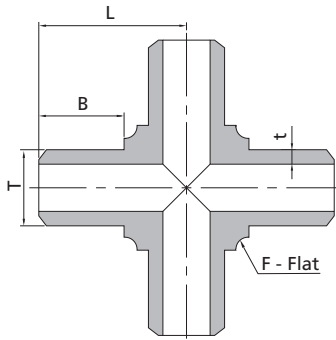
Union Tees



Fractional Tube						
T-Tube O.D. (in.)	t-Wall Thickness (in.)	Basic Ordering Number	Dimensions, in. (mm)			Working Pressure psig (bar)
			L	B	F	
1/4	0.065	-WT-TB4	0.64 (16.3)	0.38 (9.7)	0.37 (9.5)	10320 (712)
3/8	0.095	-WT-TB6	0.71 (18.0)	0.38 (9.7)	0.44 (11.1)	9930 (685)
1/2	0.095	-WT-TB8	0.96 (24.4)	0.56 (14.2)	0.56 (14.3)	6780 (468)
3/4	0.120	-WT-TB12	1.31 (33.3)	0.75 (19.1)	0.81 (20.6)	5530 (381)
1	0.134	-WT-TB16	1.46 (37.1)	0.75 (19.1)	1.06 (27.0)	4480 (309)

Metric Tube						
T-Tube O.D. (mm)	t-Wall Thickness (mm)	Basic Ordering Number	Dimensions, mm (in.)			Working Pressure psig (bar)
			L	B	F	
6	1.8	-WT-MTB6	16.3 (0.64)	9.7 (0.38)	9.5 (0.37)	12660 (873)
8	1.8	-WT-MTB8	16.3 (0.64)	9.7 (0.38)	9.5 (0.37)	8320 (574)
10	2.2	-WT-MTB10	18.0 (0.71)	9.7 (0.38)	11.1 (0.44)	8160 (563)
12	2.2	-WT-MTB12	24.4 (0.96)	14.2 (0.56)	14.3 (0.56)	6470 (446)
14	2.5	-WT-MTB14	25.4 (1.00)	14.2 (0.56)	15.9 (0.63)	6280 (433)
16	2.8	-WT-MTB16	26.2 (1.03)	14.2 (0.56)	17.5 (0.69)	6140 (423)
20	3.0	-WT-MTB20	33.3 (1.31)	19.1 (0.75)	20.6 (0.81)	5110 (352)
22	3.0	-WT-MTB22	35.3 (1.39)	19.1 (0.75)	23.8 (0.94)	4620 (319)
25	3.5	-WT-MTB25	37.1 (1.46)	19.1 (0.75)	27.0 (1.06)	4730 (326)
32	4.5	-WT-MTB32	49.3 (1.94)	23.9 (0.94)	34.9 (1.37)	4730 (326)

Union Crosses

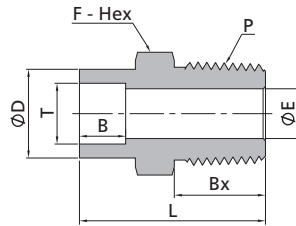


Fractional Tube						
T-Tube O.D. (in.)	t-Wall Thickness (in.)	Basic Ordering Number	Dimensions, in. (mm)			Working Pressure psig (bar)
			L	B	F	
1/4	0.065	-WC-TB4	0.64 (16.3)	0.38 (9.7)	0.37 (9.5)	10320 (712)
3/8	0.095	-WC-TB6	0.71 (18.0)	0.38 (9.7)	0.44 (11.1)	9930 (685)
1/2	0.095	-WC-TB8	0.96 (24.4)	0.56 (14.2)	0.56 (14.3)	6780 (468)
3/4	0.120	-WC-TB12	1.31 (33.3)	0.75 (19.1)	0.81 (20.6)	5530 (381)
1	0.134	-WC-TB16	1.63 (41.3)	0.75 (19.1)	1.25 (31.8)	4480 (309)

Metric Tube						
T-Tube O.D. (mm)	t-Wall Thickness (mm)	Basic Ordering Number	Dimensions, mm (in.)			Working Pressure psig (bar)
			L	B	F	
6	1.8	-WC-MTB6	16.3 (0.64)	9.7 (0.38)	9.5 (0.37)	12660 (873)
8	1.8	-WC-MTB8	16.3 (0.64)	9.7 (0.38)	9.5 (0.37)	8320 (574)
10	2.2	-WC-MTB10	18.0 (0.71)	9.7 (0.38)	11.1 (0.44)	8160 (563)

Tube Socket Weld Fittings

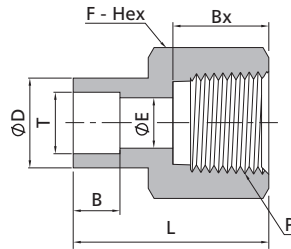
Male Connectors



Fractional Tube							NPT Thread		
T-Tube Size (in.)	P-NPT Size	Basic Ordering Number	Dimensions, in. (mm)						Working Pressure psig (bar)
			L	D	B	Bx	F	E	
1/4	1/4	-WM-TS4-NS4	1.15 (29.2)	0.48 (12.2)	0.28 (7.1)	0.56 (14.2)	0.56 (14.3)	0.19 (4.8)	8000 (551)
3/8	1/4	-WM-TS6-NS4	1.25 (31.8)	0.60 (15.2)	0.31 (7.9)	0.56 (14.2)	0.63 (15.9)	0.28 (7.1)	8000 (551)
3/8	3/8	-WM-TS6-NS6	1.25 (31.8)	0.60 (15.2)	0.31 (7.9)	0.56 (14.2)	0.69 (17.5)	0.28 (7.1)	7800 (537)
3/8	1/2	-WM-TS6-NS8	1.47 (37.3)	0.60 (15.2)	0.31 (7.9)	0.75 (19.1)	0.87 (22.2)	0.28 (7.1)	7700 (530)
1/2	1/4	-WM-TS8-NS4	1.31 (33.3)	0.73 (18.5)	0.38 (9.7)	0.56 (14.2)	0.75 (19.1)	0.28 (7.1)	6600 (454)
1/2	3/8	-WM-TS8-NS6	1.31 (33.3)	0.73 (18.5)	0.38 (9.7)	0.56 (14.2)	0.75 (19.1)	0.38 (9.6)	6600 (454)
1/2	1/2	-WM-TS8-NS8	1.53 (38.9)	0.73 (18.5)	0.38 (9.7)	0.75 (19.1)	0.87 (22.2)	0.41 (10.4)	6600 (454)
3/4	3/4	-WM-TS12-NS12	1.78 (45.1)	1.04 (26.4)	0.44 (11.2)	0.75 (19.1)	1.06 (27.0)	0.62 (15.7)	5900 (406)
1	1	-WM-TS16-NS16	2.11 (53.6)	1.36 (34.5)	0.62 (15.7)	0.94 (23.9)	1.37 (34.9)	0.88 (22.4)	5300 (365)

Metric Tube							NPT Thread		
T-Tube Size (mm)	P-NPT Size	Basic Ordering Number	Dimensions, mm (in.)						Working Pressure psig (bar)
			L	D	B	Bx	F	E	
6	1/4	-WM-MTS6-NS4	29.2 (1.15)	12.0 (0.47)	7.1 (0.28)	14.2 (0.56)	14.0 (0.55)	4.8 (0.19)	8000 (551)
12	1/2	-WM-MTS12-NS8	38.9 (1.53)	20.2 (0.80)	9.7 (0.38)	19.1 (0.75)	22.0 (0.87)	9.5 (0.37)	6820 (470)
14	1/4	-WM-MTS14-NS4	33.3 (1.31)	23.8 (0.94)	10.0 (0.39)	14.2 (0.56)	24.0 (0.94)	7.1 (0.28)	6930 (478)
14	3/8	-WM-MTS14-NS6	35.0 (1.38)	23.8 (0.94)	10.0 (0.39)	14.2 (0.56)	24.0 (0.94)	9.6 (0.38)	6930 (478)
14	1/2	-WM-MTS14-NS8	40.0 (1.57)	23.8 (0.94)	10.0 (0.39)	19.1 (0.75)	24.0 (0.94)	10.4 (0.41)	6930 (478)
16	1/4	-WM-MTS16-NS4	35.0 (1.38)	23.8 (0.94)	10.4 (0.41)	14.2 (0.56)	24.0 (0.94)	7.1 (0.28)	6190 (426)
16	1/2	-WM-MTS16-NS8	40.0 (1.57)	23.8 (0.94)	10.4 (0.41)	19.1 (0.75)	24.0 (0.94)	11.9 (0.47)	6190 (426)
18	1/4	-WM-MTS18-NS4	40.1 (1.58)	26.0 (1.02)	11.2 (0.44)	14.2 (0.56)	27.0 (1.06)	7.1 (0.28)	6050 (417)
28	3/4	-WM-MTS28-NS12	55.5 (2.19)	40.0 (1.57)	20.0 (0.79)	19.1 (0.75)	41.0 (1.61)	15.7 (0.62)	5040 (348)
38	1 1/4	-WM-MTS38-NS20	68.3 (2.69)	50.8 (2.00)	22.0 (0.87)	23.9 (0.94)	52.0 (2.05)	28.6 (1.13)	5000 (344)

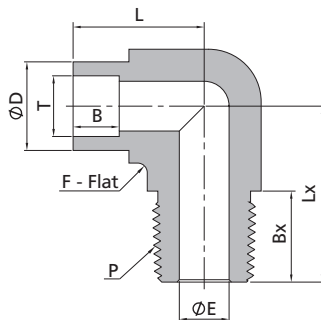
Female Connectors



Fractional Tube			NPT Thread						
T-Tube Size (in.)	P-NPT Size	Basic Ordering Number	Dimensions, in. (mm)						Working Pressure psig (bar)
			L	D	B	Bx	F	E	
1/8	1/8	-WF-TS2-NS2	0.83 (21.1)	0.29 (7.4)	0.10 (2.5)	0.41 (10.4)	0.56 (14.3)	0.09 (2.3)	6500 (447)
1/4	1/8	-WF-TS4-NS2	1.05 (26.7)	0.48 (12.2)	0.28 (7.1)	0.41 (10.4)	0.56 (14.3)	0.19 (4.8)	6500 (447)
1/4	1/4	-WF-TS4-NS4	1.18 (30.0)	0.48 (12.2)	0.28 (7.1)	0.59 (15.0)	0.75 (19.1)	0.19 (4.8)	6600 (454)
3/8	1/4	-WF-TS6-NS4	1.24 (31.5)	0.60 (15.2)	0.31 (7.9)	0.59 (15.0)	0.75 (19.1)	0.28 (7.1)	6600 (454)
1/2	3/8	-WF-TS8-NS6	1.36 (34.5)	0.73 (18.5)	0.38 (9.7)	0.59 (15.0)	0.87 (22.2)	0.41 (10.4)	5300 (365)
1/2	1/2	-WF-TS8-NS8	1.59 (40.4)	0.73 (18.5)	0.38 (9.7)	0.78 (19.8)	1.06 (27.0)	0.41 (10.4)	4900 (337)
3/4	3/4	-WF-TS12-NS12	1.73 (43.9)	1.04 (26.4)	0.44 (11.2)	0.81 (20.6)	1.31 (33.3)	0.63 (16.0)	4600 (316)
1	1	-WF-TS16-NS16	2.13 (54.1)	1.36 (34.5)	0.62 (15.7)	1.00 (25.4)	1.63 (41.3)	0.88 (22.4)	4400 (303)

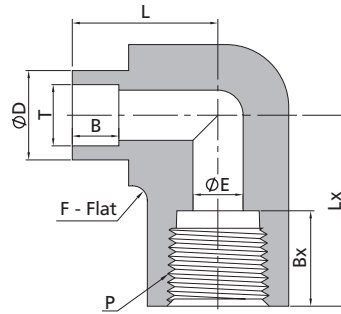
Metric Tube			NPT Thread						
T-Tube Size (mm)	P-NPT Size	Basic Ordering Number	Dimensions, mm (in.)						Working Pressure psig (bar)
			L	D	B	Bx	F	E	
8	1/4	-WF-MTS8-NS4	27.0 (1.06)	14.3 (0.56)	7.9 (0.31)	15.0 (0.59)	19.0 (0.75)	4.8 (0.19)	6600 (454)
10	1/4	-WF-MTS10-NS4	29.0 (1.14)	16.5 (0.65)	7.9 (0.31)	15.0 (0.59)	19.0 (0.75)	7.1 (0.28)	6600 (454)
14	1/4	-WF-MTS14-NS4	32.0 (1.26)	23.8 (0.94)	10.0 (0.39)	15.0 (0.59)	24.0 (0.94)	9.5 (0.37)	6930 (478)
28	3/4	-WF-MTS28-NS12	54.1 (2.13)	40.0 (1.57)	20.0 (0.79)	20.6 (0.81)	41.0 (1.61)	19.8 (0.78)	4600 (316)

Male Elbows



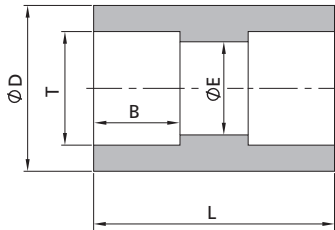
Fractional Tube			NPT Thread						
T-Tube Size (in.)	P-NPT Size	Basic Ordering Number	Dimensions, in. (mm)						Working Pressure psig (bar)
			L	Lx	D	B	Bx	F	
1/4	1/4	SS-WLM-TS4-NS4	0.79 (20.1)	1.05 (26.7)	0.58 (14.7)	0.28 (7.1)	0.56 (14.2)	0.50 (12.7)	8000 (551)
3/8	1/4	SS-WLM-TS6-NS4	1.04 (26.4)	1.05 (26.7)	0.58 (14.7)	0.31 (7.9)	0.56 (14.2)	0.50 (12.7)	8000 (551)
3/8	3/8	SS-WLM-TS6-NS6	0.97 (24.6)	1.17 (29.7)	0.80 (20.2)	0.31 (7.9)	0.56 (14.2)	0.69 (17.5)	7800 (537)
3/8	1/2	SS-WLM-TS6-NS8	1.02 (25.9)	1.45 (36.8)	0.94 (23.8)	0.31 (7.9)	0.75 (19.1)	0.81 (20.6)	7700 (530)
1/2	1/2	SS-WLM-TS8-NS8	1.08 (27.4)	1.45 (36.8)	0.94 (23.8)	0.38 (9.7)	0.75 (19.1)	0.81 (20.6)	6600 (454)
3/4	3/4	SS-WLM-TS12-NS12	1.53 (38.9)	1.56 (39.6)	1.04 (26.4)	0.44 (11.2)	0.75 (19.1)	1.06 (27.0)	5900 (406)

Female Elbows



Fractional Tube										NPT Thread
T-Tube Size (in.)	P-NPT Size	Basic Ordering Number	Dimensions, in. (mm)							Working Pressure psig (bar)
			L	Lx	D	B	Bx	F	E	
1/4	1/4	SS-WLF-TS4-NS4	0.90 (22.9)	1.17 (29.7)	0.80 (20.2)	0.28 (7.1)	0.59 (15.0)	0.69 (17.5)	0.19 (4.8)	7400 (509)
3/8	1/4	SS-WLF-TS6-NS4	0.99 (25.1)	1.17 (29.7)	0.80 (20.2)	0.31 (7.9)	0.59 (15.0)	0.69 (17.5)	0.28 (7.1)	7400 (509)
3/8	1/2	SS-WLF-TS6-NS8	1.13 (28.7)	1.56 (39.6)	1.15 (29.3)	0.31 (7.9)	0.78 (19.8)	1.00 (25.4)	0.28 (7.1)	5700 (392)
1/2	1/2	SS-WLF-TS8-NS8	1.19 (30.2)	1.56 (39.6)	1.15 (29.3)	0.38 (9.7)	0.78 (19.8)	1.00 (25.4)	0.41 (10.4)	5700 (392)

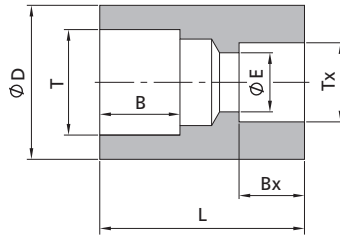
Unions



Fractional Tube						
T-Tube Size (in.)	Basic Ordering Number	Dimensions, in. (mm)				Working Pressure psig (bar)
		L	D	B	E	
1/4	SS-WU-TS4	0.75 (19.1)	0.48 (12.2)	0.28 (7.1)	0.19 (4.8)	10700 (737)
3/8	SS-WU-TS6	0.88 (22.4)	0.60 (15.2)	0.31 (7.9)	0.28 (7.1)	8100 (558)
1/2	SS-WU-TS8	1.06 (26.9)	0.73 (18.5)	0.38 (9.7)	0.41 (10.4)	6600 (454)
5/8	SS-WU-TS10	1.19 (30.2)	0.92 (23.4)	0.41 (10.4)	0.50 (12.7)	6200 (427)
3/4	SS-WU-TS12	1.31 (33.3)	1.04 (26.4)	0.44 (11.2)	0.63 (16.0)	5900 (406)
7/8	SS-WU-TS14	1.40 (35.5)	1.24 (31.5)	0.50 (12.7)	0.74 (18.8)	5730 (395)
1	SS-WU-TS16	1.44 (36.6)	1.36 (34.5)	0.62 (15.7)	0.88 (22.4)	5600 (385)

Metric Tube						
T-Tube Size (mm)	Basic Ordering Number	Dimensions, mm (in.)				Working Pressure psig (bar)
		L	D	B	E	
8	SS-WU-MTS8	22.4 (0.88)	14.3 (0.56)	7.9 (0.31)	6.4 (0.25)	9790 (675)
10	SS-WU-MTS10	23.6 (0.93)	16.5 (0.65)	7.9 (0.31)	7.4 (0.29)	8100 (558)
12	SS-WU-MTS12	26.9 (1.06)	20.2 (0.80)	9.7 (0.38)	9.5 (0.37)	6820 (470)
14	SS-WU-MTS14	28.0 (1.10)	23.8 (0.94)	10.0 (0.39)	10.4 (0.41)	6930 (478)
16	SS-WU-MTS16	30.2 (1.19)	23.8 (0.94)	10.4 (0.41)	12.7 (0.50)	6190 (426)
20	SS-WU-MTS20	28.0 (1.10)	27.0 (1.06)	11.2 (0.44)	17.0 (0.67)	5510 (380)

Reducing Unions

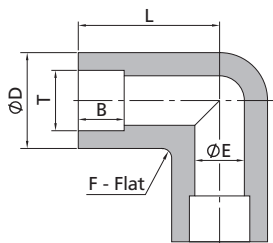


Fractional Tube			Dimensions, in. (mm)					Fractional Tube
T-Tube Size (in.)	Tx-Tube Size (in.)	Basic Ordering Number	L	D	B	E	Bx	Working Pressure psig (bar)
3/8	1/4	-WU-TS6-TS4	0.88 (22.4)	0.60 (15.2)	0.31 (7.9)	0.19 (4.8)	0.28 (7.1)	8100 (558)
1/2	1/4	-WU-TS8-TS4	0.96 (24.3)	0.73 (18.5)	0.38 (9.7)	0.19 (4.8)	0.28 (7.1)	6600 (454)
1/2	3/8	-WU-TS8-TS6	1.03 (26.1)	0.73 (18.5)	0.38 (9.7)	0.28 (7.1)	0.31 (7.9)	6600 (454)
3/4	3/8	-WU-TS12-TS6	1.17 (29.8)	1.04 (26.4)	0.44 (11.2)	0.28 (7.1)	0.31 (7.9)	5900 (406)
3/4	1/2	-WU-TS12-TS8	1.24 (31.6)	1.04 (26.4)	0.44 (11.2)	0.41 (10.4)	0.38 (9.7)	5900 (406)
1	3/4	-WU-TS16-TS12	1.26 (32.1)	1.36 (34.5)	0.62 (15.7)	0.63 (16.0)	0.44 (11.2)	5600 (385)

Metric Tube			Dimensions, mm (in.)					Metric Tube
T-Tube Size (mm)	Tx-Tube Size (mm)	Basic Ordering Number	L	D	B	E	Bx	Working Pressure psig (bar)
14	10	-WU-MTS14-MTS10	26.0 (1.02)	23.8 (0.94)	10.4 (0.41)	7.4 (0.29)	7.9 (0.31)	6930 (478)
25	14	-WU-MTS25-MTS14	30.0 (1.18)	34.5 (1.36)	15.7 (0.62)	10.4 (0.41)	10.0 (0.39)	5450 (376)
25	22	-WU-MTS25-MTS22	35.8 (1.41)	34.5 (1.36)	15.7 (0.62)	19.0 (0.75)	13.5 (0.53)	5450 (376)

Metric Tube			Dimensions, mm (in.)					Fractional Tube
T-Tube Size (mm)	Tx-Tube Size (in.)	Basic Ordering Number	L	D	B	E	Bx	Working Pressure psig (bar)
20	3/4	-WU-MTS20-TS12	28.0 (1.10)	27.0 (1.06)	11.2 (0.44)	15.7 (0.62)	11.2 (0.44)	5510 (380)
28	3/4	-WU-MTS28-TS12	36.8 (1.45)	40.0 (1.57)	20.0 (0.79)	15.7 (0.62)	11.2 (0.44)	5040 (348)

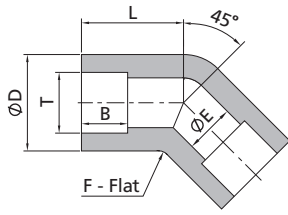
Union Elbows



Fractional Tube		Dimensions, in. (mm)					Working Pressure psig (bar)
T-Tube Size (in.)	Basic Ordering Number	L	D	B	F	E	
1/8	-WLU-TS2	0.59 (15.0)	0.43 (11.0)	0.10 (2.5)	0.37 (9.5)	0.09 (2.3)	12600 (863)
1/4	-WLU-TS4	0.86 (21.8)	0.50 (12.8)	0.28 (7.1)	0.44 (11.1)	0.19 (4.8)	10700 (737)
3/8	-WLU-TS6	1.04 (26.4)	0.65 (16.5)	0.31 (7.9)	0.56 (14.3)	0.28 (7.1)	8100 (558)
1/2	-WLU-TS8	1.17 (29.7)	0.80 (20.2)	0.38 (9.7)	0.69 (17.5)	0.41 (10.4)	6600 (454)
5/8	-WLU-TS10	1.42 (36.1)	0.94 (23.8)	0.41 (10.4)	0.81 (20.6)	0.50 (12.7)	6200 (427)
3/4	-WLU-TS12	1.56 (39.6)	1.15 (29.3)	0.44 (11.2)	1.00 (25.4)	0.63 (16.0)	5900 (406)
1	-WLU-TS16	1.92 (48.8)	1.44 (36.7)	0.62 (15.7)	1.25 (31.8)	0.88 (22.4)	5600 (385)

Metric Tube		Dimensions, mm (in.)					Working Pressure psig (bar)
T-Tube Size (mm)	Basic Ordering Number	L	D	B	F	E	
10	-WLU-MTS10	24.6 (0.97)	16.5 (0.65)	7.9 (0.31)	14.3 (0.56)	7.4 (0.29)	8100 (558)
12	-WLU-MTS12	29.7 (1.17)	20.2 (0.80)	9.7 (0.38)	17.5 (0.69)	9.5 (0.37)	6820 (470)
14	-WLU-MTS14	31.7 (1.25)	23.8 (0.94)	10.0 (0.39)	20.6 (0.81)	10.4 (0.41)	6930 (478)
16	-WLU-MTS16	34.7 (1.37)	23.8 (0.94)	10.4 (0.41)	20.6 (0.81)	12.7 (0.50)	6190 (426)

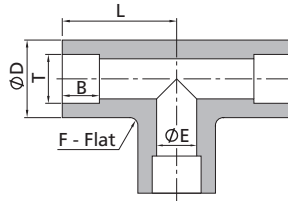
Union 45° Elbows



Fractional Tube							
T-Tube Size (in.)	Basic Ordering Number	Dimensions, in. (mm)					Working Pressure psig (bar)
		L	D	B	F	E	
1/4	SS-WV-TS4	0.59 (15.0)	0.58 (14.7)	0.28 (7.1)	0.50 (12.7)	0.19 (4.8)	10700 (737)
3/8	SS-WV-TS6	0.78 (19.7)	0.65 (16.5)	0.31 (7.9)	0.56 (14.3)	0.28 (7.1)	8100 (558)
1/2	SS-WV-TS8	0.84 (21.3)	0.80 (20.2)	0.38 (9.7)	0.69 (17.5)	0.41 (10.4)	6600 (454)
3/4	SS-WV-TS12	1.13 (28.7)	1.15 (29.3)	0.44 (11.2)	1.00 (25.4)	0.63 (16.0)	5900 (406)
1	SS-WV-TS16	1.57 (40.0)	1.59 (40.3)	0.62 (15.7)	1.37 (34.9)	0.88 (22.4)	5600 (385)

Metric Tube							
T-Tube Size (mm)	Basic Ordering Number	Dimensions, mm (in.)					Working Pressure psig (bar)
		L	D	B	F	E	
8	SS-WV-MTS8	17.3 (0.68)	14.7 (0.58)	7.9 (0.31)	12.7 (0.50)	6.4 (0.25)	9790 (675)
10	SS-WV-MTS10	19.1 (0.75)	16.5 (0.65)	7.9 (0.31)	14.3 (0.56)	7.4 (0.29)	8100 (558)
12	SS-WV-MTS12	21.3 (0.84)	20.2 (0.80)	9.7 (0.38)	17.5 (0.69)	9.5 (0.37)	6820 (470)
14	SS-WV-MTS14	26.4 (1.04)	23.8 (0.94)	10.0 (0.39)	20.6 (0.81)	10.4 (0.41)	6930 (478)
16	SS-WV-MTS16	26.4 (1.04)	23.8 (0.94)	10.4 (0.41)	20.6 (0.81)	12.7 (0.50)	6190 (426)
20	SS-WV-MTS20	28.7 (1.13)	29.3 (1.15)	11.2 (0.44)	25.4 (1.00)	17.0 (0.67)	5510 (380)
22	SS-WV-MTS22	29.7 (1.17)	31.2 (1.23)	13.5 (0.53)	27.0 (1.06)	19.0 (0.75)	5700 (396)
23	SS-WV-MTS25	40.0 (1.57)	40.3 (1.59)	15.7 (0.62)	34.9 (1.37)	22.0 (0.87)	5450 (376)

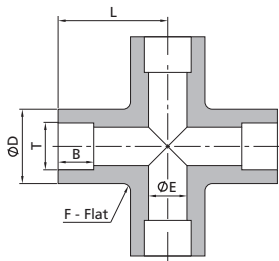
Union Tees



Fractional Tube							
T-Tube Size (in.)	Basic Ordering Number	Dimensions, in. (mm)					Working Pressure psig (bar)
		L	D	B	F	E	
1/8	-WT-TS2	0.59 (15.0)	0.39 (10.0)	0.10 (2.5)	0.44 (11.1)	0.09 (2.3)	12600 (868)
1/4	-WT-TS4	0.86 (21.8)	0.50 (12.8)	0.28 (7.1)	0.44 (11.1)	0.19 (4.8)	10700 (737)
3/8	-WT-TS6	1.04 (26.4)	0.65 (16.5)	0.31 (7.9)	0.56 (14.3)	0.28 (7.1)	8100 (558)
1/2	-WT-TS8	1.17 (29.7)	0.80 (20.2)	0.38 (9.7)	0.69 (17.5)	0.41 (10.4)	6600 (454)
5/8	-WT-TS10	1.42 (36.1)	0.94 (23.8)	0.41 (10.4)	0.81 (20.6)	0.50 (12.7)	6200 (428)
3/4	-WT-TS12	1.56 (39.6)	1.15 (29.3)	0.44 (11.2)	1.00 (25.4)	0.63 (16.0)	5900 (406)
1	-WT-TS16	1.92 (48.8)	1.44 (36.7)	0.62 (15.7)	1.25 (31.8)	0.88 (22.4)	5600 (385)

Metric Tube							
T-Tube Size (mm)	Basic Ordering Number	Dimensions, mm (in.)					Working Pressure psig (bar)
		L	D	B	F	E	
8	-WT-MTS8	19.8 (0.78)	14.7 (0.58)	7.9 (0.31)	12.7 (0.50)	6.4 (0.25)	9790 (675)
10	-WT-MTS10	24.6 (0.97)	16.5 (0.65)	7.9 (0.31)	14.3 (0.56)	7.4 (0.29)	8100 (558)
12	-WT-MTS12	29.7 (1.17)	20.2 (0.80)	9.7 (0.38)	17.5 (0.69)	9.5 (0.37)	6820 (470)
14	-WT-MTS14	31.7 (1.25)	23.8 (0.94)	10.0 (0.39)	20.6 (0.81)	10.4 (0.41)	6930 (478)
16	-WT-MTS16	36.0 (1.42)	23.8 (0.94)	10.4 (0.41)	20.6 (0.81)	12.7 (0.50)	6190 (426)
20	-WT-MTS20	39.6 (1.56)	29.3 (1.15)	11.2 (0.44)	25.4 (1.00)	17.0 (0.67)	5510 (380)
22	-WT-MTS22	41.3 (1.63)	31.2 (1.23)	13.5 (0.53)	27.0 (1.06)	19.0 (0.75)	5700 (396)
25	-WT-MTS25	48.8 (1.92)	36.7 (1.44)	15.7 (0.62)	31.8 (1.25)	22.0 (0.87)	5450 (376)

Union Crosses

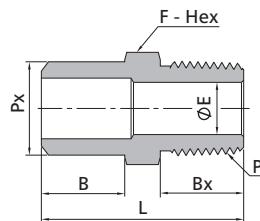


Fractional Tube		Dimensions, in. (mm)					Working Pressure psig (bar)
T-Tube Size (in.)	Basic Ordering Number	L	D	B	F	E	
1/8	-WC-TS2	0.59 (15.0)	0.43 (11.0)	0.10 (2.5)	0.44 (11.1)	0.09 (2.3)	12600 (863)
1/4	-WC-TS4	0.86 (21.8)	0.50 (12.8)	0.28 (7.1)	0.44 (11.1)	0.19 (4.8)	10700 (737)
3/8	-WC-TS6	1.04 (26.4)	0.58 (14.7)	0.31 (7.9)	0.50 (12.7)	0.28 (7.1)	8100 (558)
1/2	-WC-TS8	1.17 (29.7)	0.80 (20.2)	0.38 (9.7)	0.69 (17.5)	0.41 (10.4)	6600 (454)
5/8	-WC-TS10	1.42 (36.1)	0.94 (23.8)	0.41 (10.4)	0.81 (20.6)	0.50 (12.7)	6200 (428)
3/4	-WC-TS12	1.56 (39.6)	1.15 (29.3)	0.44 (11.2)	1.00 (25.4)	0.63 (16.0)	5900 (406)
1	-WC-TS16	1.92 (48.8)	1.44 (36.7)	0.62 (15.7)	1.25 (31.8)	0.88 (22.4)	5600 (385)

Metric Tube		Dimensions, mm (in.)					Working Pressure psig (bar)
T-Tube Size (mm)	Basic Ordering Number	L	D	B	F	E	
8	-WC-MTS8	19.8 (0.78)	14.7 (0.58)	7.9 (0.31)	12.7 (0.50)	6.4 (0.25)	9790 (675)
10	-WC-MTS10	24.6 (0.97)	16.5 (0.65)	7.9 (0.31)	14.3 (0.56)	7.1 (0.28)	8100 (558)
12	-WC-MTS12	29.7 (1.17)	20.2 (0.80)	9.7 (0.38)	17.5 (0.69)	9.5 (0.37)	6820 (470)
14	-WC-MTS14	31.7 (1.25)	23.8 (0.94)	10.0 (0.39)	20.6 (0.81)	10.4 (0.41)	6930 (478)
16	-WC-MTS16	36.0 (1.42)	23.8 (0.94)	10.4 (0.41)	20.6 (0.81)	12.7 (0.50)	6190 (426)
20	-WC-MTS20	39.6 (1.56)	29.3 (1.15)	11.2 (0.44)	25.4 (1.00)	17.0 (0.67)	5510 (380)
22	-WC-MTS22	1.22 (31.00)	31.2 (1.23)	13.5 (0.53)	27.0 (1.06)	19.0 (0.75)	5700 (396)
25	-WC-MTS25	48.8 (1.92)	36.7 (1.44)	15.7 (0.62)	31.8 (1.25)	22.0 (0.87)	5450 (376)

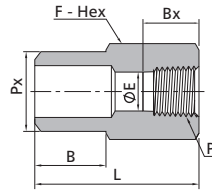
Pipe Butt Weld Fittings

Male Connectors



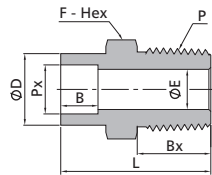
Pipe			Dimensions, in. (mm)					NPT Thread
Px-Sch80 Pipe Size	P-NPT Size	Basic Ordering Number	L	B	Bx	F	E	Working Pressure psig (bar)
1/4	1/4	-WM-PB4-NS4	1.35 (34.3)	0.56 (14.2)	0.56 (14.2)	0.56 (14.3)	0.28 (7.1)	8000 (551)
1/4	1/2	-WM-PB4-NS8	1.63 (41.3)	0.56 (14.2)	0.75 (19.1)	0.87 (22.2)	0.30 (7.7)	7700 (537)
3/8	1/4	-WM-PB6-NS4	1.37 (34.8)	0.56 (14.2)	0.56 (14.2)	0.69 (17.5)	0.28 (7.1)	6650 (459)
3/8	1/2	-WM-PB6-NS8	1.63 (41.3)	0.56 (14.2)	0.75 (19.1)	0.87 (22.2)	0.42 (10.7)	6650 (459)
1/2	1/4	-WM-PB8-NS4	1.63 (41.3)	0.75 (19.1)	0.56 (14.2)	0.87 (22.2)	0.28 (7.1)	6190 (427)
1/2	1/2	-WM-PB8-NS8	1.82 (46.2)	0.75 (19.1)	0.75 (19.1)	0.87 (22.2)	0.47 (11.9)	6190 (427)
3/4	1/4	-WM-PB12-NS4	1.69 (42.9)	0.75 (19.1)	0.56 (14.2)	1.06 (27.0)	0.28 (7.1)	5040 (348)
3/4	1/2	-WM-PB12-NS8	1.88 (47.8)	0.75 (19.1)	0.75 (19.1)	1.06 (27.0)	0.47 (11.9)	5040 (348)
1	1/4	-WM-PB16-NS4	1.97 (50.0)	0.94 (23.9)	0.56 (14.2)	1.37 (34.9)	0.28 (7.1)	4640 (320)
1	1/2	-WM-PB16-NS8	2.16 (54.9)	0.94 (23.9)	0.75 (19.1)	1.37 (34.9)	0.47 (11.9)	4640 (320)

Female Connectors



Pipe			NPT Thread					
Px-Sch80 Pipe Size	P-NPT Size	Basic Ordering Number	Dimensions, in. (mm)					Working Pressure psig (bar)
			L	B	Bx	F	E	
1/4	1/2	-WF-PB4-NS8	1.53 (38.9)	0.56 (14.2)	0.78 (19.8)	1.06 (27.0)	0.30 (7.6)	4900 (337)
3/8	1/2	-WF-PB6-NS8	1.53 (38.9)	0.56 (14.2)	0.78 (19.8)	1.06 (27.0)	0.42 (10.7)	4900 (337)
1/2	1/4	-WF-PB8-NS4	1.47 (37.3)	0.75 (19.1)	0.59 (15.0)	0.87 (22.2)	0.41 (10.4)	7500 (516)
1/2	1/2	-WF-PB8-NS8	1.72 (43.7)	0.75 (19.1)	0.78 (19.8)	1.06 (27.0)	0.55 (13.9)	4900 (337)

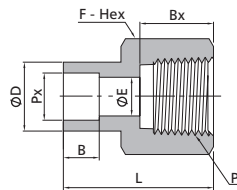
Pipe Socket Weld Fittings



Male Connectors

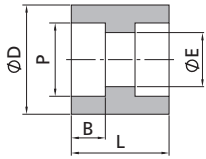
Pipe			NPT Thread						
Px-Pipe Size	P-NPT Size	Basic Ordering Number	Dimensions, in. (mm)						Working Pressure psig (bar)
			L	D	B	Bx	F	E	
1/4	1/4	-WM-PS4-NS4	1.39 (35.2)	0.88 (22.4)	0.39 (9.9)	0.56 (14.2)	0.94 (23.8)	0.28 (7.1)	8000 (551)
1/4	1/2	-WM-PS4-NS8	1.57 (40.0)	0.88 (22.4)	0.39 (9.9)	0.75 (19.1)	0.94 (23.8)	0.36 (9.1)	7700 (530)
3/8	3/8	-WM-PS6-NS6	1.50 (38.0)	1.03 (26.2)	0.39 (9.9)	0.56 (14.2)	1.06 (27.0)	0.38 (9.7)	7100 (489)
3/8	1/2	-WM-PS6-NS8	1.69 (42.9)	1.03 (26.2)	0.39 (9.9)	0.75 (19.1)	1.06 (27.0)	0.47 (11.9)	7100 (489)
1/2	3/8	-WM-PS8-NS6	1.59 (40.3)	1.25 (31.8)	0.39 (9.9)	0.56 (14.2)	1.31 (33.3)	0.38 (9.7)	6800 (468)
1/2	1/2	-WM-PS8-NS8	1.78 (45.2)	1.25 (31.8)	0.39 (9.9)	0.75 (19.1)	1.31 (33.3)	0.47 (11.9)	6800 (468)
3/4	1/2	-WM-PS12-NS8	2.14 (54.3)	1.47 (37.3)	0.51 (13.0)	0.75 (19.1)	1.50 (38.1)	0.47 (11.9)	5800 (399)
3/4	3/4	-WM-PS12-NS12	2.14 (54.3)	1.47 (37.3)	0.51 (13.0)	0.75 (19.1)	1.50 (38.1)	0.62 (15.7)	5800 (399)
1	3/4	-WM-PS16-NS12	2.20 (55.8)	1.86 (47.2)	0.51 (13.0)	0.75 (19.1)	1.87 (47.6)	0.62 (15.7)	6100 (420)
1	1	-WM-PS16-NS16	2.39 (60.6)	1.86 (47.2)	0.51 (13.0)	0.94 (23.9)	1.87 (47.6)	0.88 (22.4)	5300 (365)

Female Connectors



Pipe									NPT Thread
Px-Pipe Size	P-NPT Size	Basic Ordering Number	Dimensions, in. (mm)						Working Pressure psig (bar)
			L	D	B	Bx	F	E	
1/4	1/4	-WF-PS4-NS4	1.32 (33.5)	0.88 (22.4)	0.39 (9.9)	0.59 (15.0)	0.94 (23.8)	0.36 (9.1)	8000 (551)
1/4	3/8	-WF-PS4-NS6	1.32 (33.5)	0.88 (22.4)	0.39 (9.9)	0.59 (15.0)	0.94 (23.8)	0.36 (9.1)	6790 (463)
3/8	3/8	-WF-PS6-NS6	1.34 (34.1)	1.03 (26.2)	0.39 (9.9)	0.59 (15.0)	1.06 (27.0)	0.49 (12.4)	7100 (489)
3/8	1/2	-WF-PS6-NS8	1.54 (39.1)	1.03 (26.2)	0.39 (9.9)	0.78 (19.8)	1.06 (27.0)	0.49 (12.4)	4900 (337)
1/2	1/2	-WF-PS8-NS8	1.57 (40.0)	1.25 (31.8)	0.39 (9.9)	0.78 (19.8)	1.31 (33.3)	0.62 (15.7)	6800 (468)
1/2	3/4	-WF-PS8-NS12	1.60 (40.6)	1.25 (31.8)	0.39 (9.9)	0.81 (20.6)	1.31 (33.3)	0.62 (15.7)	4600 (316)
3/4	3/4	-WF-PS12-NS12	2.09 (53.2)	1.47 (37.3)	0.51 (13.0)	0.81 (20.6)	1.50 (38.1)	0.82 (20.8)	5800 (399)
3/4	1	-WF-PS12-NS16	2.29 (58.1)	1.47 (37.3)	0.51 (13.0)	1.00 (25.4)	1.63 (41.3)	0.82 (20.8)	4400 (303)

Unions

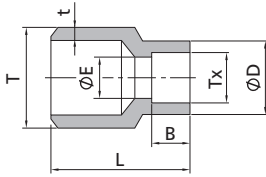


Pipe						
P-Pipe Size	Basic Ordering Number	Dimensions, in. (mm)				Working Pressure psig (bar)
		L	D	B	E	
1/8	-WU-PS2	1.01 (25.7)	0.67 (17.1)	0.39 (9.9)	0.28 (7.0)	8230 (568)
1/4	-WU-PS4	1.06 (26.9)	0.88 (22.4)	0.39 (9.9)	0.38 (9.7)	8000 (551)
3/8	-WU-PS6	1.12 (28.4)	1.03 (26.2)	0.39 (9.9)	0.49 (12.4)	7100 (489)
1/2	-WU-PS8	1.16 (29.5)	1.25 (31.8)	0.39 (9.9)	0.62 (15.7)	6800 (468)
3/4	-WU-PS12	1.75 (44.5)	1.47 (37.3)	0.51 (13.0)	0.82 (20.8)	5800 (399)
1	-WU-PS16	1.75 (44.5)	1.86 (47.2)	0.51 (13.0)	1.05 (26.7)	6100 (420)

Pipe Fittings
Weld Fittings

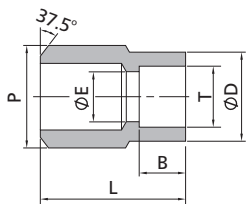
Weld Adapters

Tube Butt Weld to Tube Socket Weld



Fractional Tube								
T-Tube O.D. (in.)	t-Wall Thickness (in.)	Tx-Tube O.D. (in.)	Basic Ordering Number	Dimensions, in. (mm)				Working Pressure psig (bar)
				L	B	D	E	
1/4	0.083	1/8	-WA-TB4-TS2	0.56 (14.2)	0.10 (2.5)	0.31 (8.0)	0.09 (2.3)	12600 (868)
3/8	0.095	1/4	-WA-TB6-TS4	0.75 (19.1)	0.28 (7.1)	0.48 (12.2)	0.19 (4.8)	8200 (564)
1/2	0.095	1/4	-WA-TB8-TS4	0.88 (22.4)	0.28 (7.1)	0.50 (12.7)	0.19 (4.8)	7500 (516)
1/2	0.095	3/8	-WA-TB8-TS6	0.88 (22.4)	0.31 (7.9)	0.60 (15.2)	0.28 (7.1)	7500 (516)
3/4	0.120	1/2	-WA-TB12-TS8	1.12 (28.4)	0.38 (9.7)	0.73 (18.5)	0.41 (10.4)	6300 (434)
1	0.134	1/2	-WA-TB16-TS8	1.38 (35.1)	0.38 (9.7)	0.73 (18.5)	0.41 (10.4)	5300 (365)
1	0.134	3/4	-WA-TB16-TS12	1.50 (38.1)	0.44 (11.2)	1.04 (26.4)	0.63 (16.0)	5300 (365)

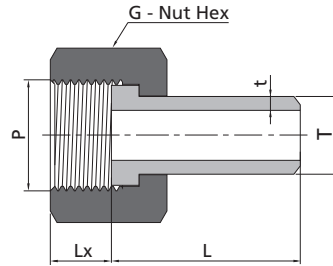
Pipe Butt Weld to Tube Socket Weld



Pipe				Fractional Tube			
P-Sch80 Pipe Size	T-Tube Size (in.)	Basic Ordering Number	Dimensions, in. (mm)				Working Pressure psig (bar)
			L	B	D	E	
1/4	1/4	-WA-PB4-TS4	0.88 (22.4)	0.28 (7.1)	0.48 (12.2)	0.19 (4.8)	10810 (744)
3/8	1/4	-WA-PB6-TS4	1.03 (26.2)	0.31 (7.9)	0.48 (12.2)	0.19 (4.8)	8500 (586)
3/8	3/8	-WA-PB6-TS6	1.03 (26.2)	0.31 (7.9)	0.60 (15.2)	0.28 (7.1)	8500 (586)
3/8	1/2	-WA-PB6-TS8	1.00 (25.4)	0.38 (9.7)	0.73 (18.5)	0.41 (10.4)	6930 (476)
1/2	1/4	-WA-PB8-TS4	1.12 (28.4)	0.28 (7.1)	0.48 (12.2)	0.19 (4.8)	8190 (563)
1/2	3/8	-WA-PB8-TS6	1.12 (28.4)	0.31 (7.9)	0.60 (15.2)	0.28 (7.1)	8190 (563)
1/2	1/2	-WA-PB8-TS8	1.19 (30.2)	0.38 (9.7)	0.73 (18.5)	0.41 (10.4)	6930 (476)
3/4	1/4	-WA-PB12-TS4	1.50 (38.1)	0.28 (7.1)	0.48 (12.2)	0.19 (4.8)	6930 (476)
3/4	3/8	-WA-PB12-TS6	1.50 (38.1)	0.31 (7.9)	0.60 (15.2)	0.28 (7.1)	6930 (476)
3/4	1/2	-WA-PB12-TS8	1.50 (38.1)	0.38 (9.7)	0.73 (18.5)	0.41 (10.4)	6930 (476)
3/4	3/4	-WA-PB12-TS12	1.50 (38.1)	0.44 (11.2)	1.04 (26.4)	0.63 (16.0)	6190 (483)
1	3/8	-WA-PB16-TS6	1.38 (35.1)	0.31 (7.9)	0.60 (15.2)	0.28 (7.1)	6300 (434)
1	1/2	-WA-PB16-TS8	1.56 (39.6)	0.38 (9.7)	0.73 (18.5)	0.41 (10.4)	6300 (434)

Pipe to Weld Fittings

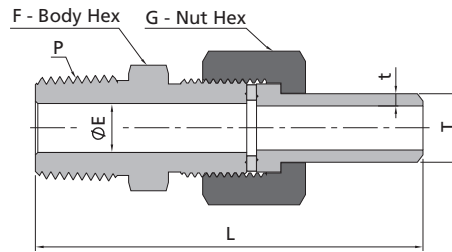
Pipe to Tube Butt Weld



ISO Parallel Thread				Metric Tube			
P-ISO Thread Size	T-Tube O.D. (mm)	t-Wall Thickness (mm)	Basic Ordering Number	Dimensions, mm (in.)			Working Pressure psig (bar)
				L	G	Lx	
1/2	12	2.2	-PUW-RG8-MTB12	34.0 (1.34)	27.0 (1.06)	11.0 (0.43)	6470 (446)
1/2	14	2.5	-PUW-RG8-MTB14	34.0 (1.34)	27.0 (1.06)	11.0 (0.43)	6280 (433)
1/2	16	2.8	-PUW-RG8-MTB16	34.0 (1.34)	27.0 (1.06)	11.0 (0.43)	6140 (423)

Metric Thread				Metric Tube			
P-Metric Thread Size	T-Tube O.D. (mm)	t-Wall Thickness (mm)	Basic Ordering Number	Dimensions, mm (in.)			Working Pressure psig (bar)
				L	G	Lx	
M12 x 1.5	6	1.8	-PUW-MS12-MTB6	25.0 (0.98)	16.0 (0.63)	9.0 (0.35)	12660 (873)
M12 x 1.5	8	1.8	-PUW-MS12-MTB8	30.0 (1.18)	16.0 (0.63)	9.0 (0.35)	8320 (574)
M14 x 1.5	8	1.8	-PUW-MS14-MTB8	30.0 (1.18)	18.0 (0.71)	9.0 (0.35)	8320 (574)
M14 x 1.5	10	2.2	-PUW-MS14-MTB10	30.0 (1.18)	18.0 (0.71)	9.0 (0.35)	8160 (563)
M16 x 1.5	8	1.8	-PUW-MS16-MTB8	30.0 (1.18)	22.0 (0.87)	9.0 (0.35)	8320 (574)
M16 x 1.5	10	2.2	-PUW-MS16-MTB10	30.0 (1.18)	22.0 (0.87)	9.0 (0.35)	8160 (563)
M16 x 1.5	12	2.2	-PUW-MS16-MTB12	34.0 (1.34)	22.0 (0.87)	9.0 (0.35)	6470 (446)
M18 x 1.5	10	2.2	-PUW-MS18-MTB10	34.0 (1.34)	22.0 (0.87)	10.0 (0.39)	8160 (563)
M18 x 1.5	12	2.2	-PUW-MS18-MTB12	34.0 (1.34)	22.0 (0.87)	10.0 (0.39)	6470 (446)
M18 x 1.5	14	2.5	-PUW-MS18-MTB14	34.0 (1.34)	22.0 (0.87)	10.0 (0.39)	6280 (433)
M20 x 1.5	10	2.2	-PUW-MS20-MTB10	34.0 (1.34)	25.0 (0.98)	11.0 (0.43)	8160 (563)
M20 x 1.5	12	2.2	-PUW-MS20-MTB12	34.0 (1.34)	25.0 (0.98)	11.0 (0.43)	6470 (446)
M20 x 1.5	14	2.5	-PUW-MS20-MTB14	34.0 (1.34)	25.0 (0.98)	11.0 (0.43)	6280 (433)
M20 x 1.5	15	2.5	-PUW-MS20-MTB15	34.0 (1.34)	25.0 (0.98)	11.0 (0.43)	6160 (425)
M20 x 1.5	16	2.8	-PUW-MS20-MTB16	34.0 (1.34)	25.0 (0.98)	11.0 (0.43)	6140 (423)
M22 x 1.5	14	2.5	-PUW-MS22-MTB14	34.0 (1.34)	27.0 (1.06)	11.0 (0.43)	6280 (433)
M22 x 1.5	16	2.8	-PUW-MS22-MTB16	34.0 (1.34)	27.0 (1.06)	11.0 (0.43)	6140 (423)
M24 x 1.5	16	2.8	-PUW-MS24-MTB16	34.0 (1.34)	30.0 (1.18)	11.0 (0.43)	6140 (423)
M24 x 1.5	18	2.8	-PUW-MS24-MTB18	34.0 (1.34)	30.0 (1.18)	11.0 (0.43)	5670 (392)
M24 x 1.5	20	3.0	-PUW-MS24-MTB20	34.0 (1.34)	30.0 (1.18)	11.0 (0.43)	5110 (352)
M27 x 2	14	2.5	-PUW-MS27-MTB14	34.0 (1.34)	32.0 (1.26)	14.0 (0.55)	6280 (433)
M27 x 2	16	2.8	-PUW-MS27-MTB16	34.0 (1.34)	32.0 (1.26)	14.0 (0.55)	6140 (423)
M27 x 2	18	2.8	-PUW-MS27-MTB18	34.0 (1.34)	32.0 (1.26)	14.0 (0.55)	5670 (392)
M27 x 2	20	3.0	-PUW-MS27-MTB20	40.0 (1.57)	32.0 (1.26)	14.0 (0.55)	5110 (352)
M27 x 2	22	3.0	-PUW-MS27-MTB22	40.0 (1.57)	32.0 (1.26)	14.0 (0.55)	4620 (319)
M30 x 2	22	3.0	-PUW-MS30-MTB22	40.0 (1.57)	35.0 (1.38)	18.0 (0.71)	4620 (319)
M30 x 2	25	3.5	-PUW-MS30-MTB25	45.0 (1.77)	35.0 (1.38)	18.0 (0.71)	4730 (326)
M33 x 2	28	4.0	-PUW-MS33-MTB28	45.0 (1.77)	41.0 (1.61)	18.0 (0.71)	5160 (356)
M36 x 2	30	4.0	-PUW-MS36-MTB30	45.0 (1.77)	41.0 (1.61)	18.0 (0.71)	4760 (328)

Male Pipe to Tube Butt Weld



NPT Thread				Metric Tube				
P-NPT Size	T-Tube O.D. (mm)	t-Wall Thickness (mm)	Basic Ordering Number	Dimensions, mm (in.)				Working Pressure psig (bar)
				L	F	G	E	
1/8	14	2.5	-MUW-NS2-MTB14	68.7 (2.70)	22.2 (0.87)	25.0 (0.98)	4.8 (0.19)	6280 (433)
1/4	6	1.8	-MUW-NS4-MTB6	60.4 (2.38)	14.3 (0.56)	16.0 (0.63)	6.0 (0.24)	8240 (566)
1/4	8	1.8	-MUW-NS4-MTB8	65.4 (2.57)	14.3 (0.56)	16.0 (0.63)	6.0 (0.24)	8240 (566)
1/4	10	2.2	-MUW-NS4-MTB10	73.2 (2.88)	22.2 (0.87)	25.0 (0.98)	7.1 (0.28)	8160 (563)
1/4	12	2.2	-MUW-NS4-MTB12	71.2 (2.80)	17.5 (0.69)	22.0 (0.87)	7.1 (0.28)	6470 (446)
1/4	14	2.5	-MUW-NS4-MTB14	73.2 (2.88)	22.2 (0.87)	25.0 (0.98)	7.1 (0.28)	6280 (433)
1/4	16	2.8	-MUW-NS4-MTB16	73.2 (2.88)	22.2 (0.87)	25.0 (0.98)	7.1 (0.28)	6140 (423)
1/4	18	2.8	-MUW-NS4-MTB18	74.2 (2.92)	25.4 (1.00)	30.0 (1.18)	7.1 (0.28)	5670 (392)
3/8	14	2.5	-MUW-NS6-MTB14	73.2 (2.88)	19.1 (0.75)	22.0 (0.87)	9.5 (0.37)	6280 (433)
1/2	12	2.2	-MUW-NS8-MTB12	78.0 (3.07)	22.2 (0.87)	25.0 (0.98)	10.0 (0.39)	6470 (446)
1/2	14	2.5	-MUW-NS8-MTB14	78.0 (3.07)	22.2 (0.87)	25.0 (0.98)	10.0 (0.39)	6280 (433)
1/2	16	2.8	-MUW-NS8-MTB16	78.0 (3.07)	22.2 (0.87)	25.0 (0.98)	10.0 (0.39)	6140 (423)
1/2	22	3.0	-MUW-NS8-MTB22	88.0 (3.46)	28.6 (1.13)	32.0 (1.26)	11.9 (0.47)	4620 (319)
1/2	25	2.8	-MUW-NS8-MTB25	88.0 (3.46)	31.75 (1.25)	35.0 (1.38)	11.9 (0.47)	4730 (326)
1	25	3.5	-MUW-NS16-MTB25	103.8 (4.09)	34.9 (1.37)	35.0 (1.38)	19.4 (0.76)	4730 (326)

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