

Инструментальные сварные фитинги

Технические характеристики

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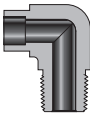
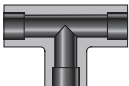
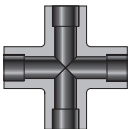
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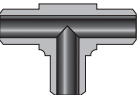
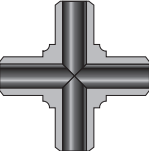
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Сочи (862)225-72-31
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Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
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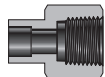
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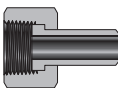
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Pipe to Weld Fittings

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Features

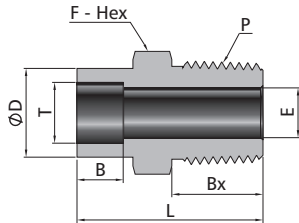
- ❖ Available in sizes from 1/8 to 2 in. and 6 mm to 38 mm
- ❖ Hikelok weld fittings materials include 316 316L stainless steel
- ❖ Quality machining of all ports ensures consistent welding
- ❖ For critical applications and high temperatures

Materials Standards

Materials	Bar Stock	Forgings
316 316L stainless steel	ASTM A276 ASME SA479, EN 1.4401	ASTM A182 ASME SA182, EN 1.4401
Alloy 20	ASTM B473	ASTM B462
Alloy 400/ R-405	ASTM B164, ASME SB164	ASTM B564, ASME SB564
Alloy 600	ASTM B166, ASME SB166	ASTM B564, ASME SB564
Alloy 625	ASTM B446	ASTM B564, ASME SB564
Alloy 825	ASTM B425	ASTM B564, ASME SB564
Alloy C-276	ASTM B574	ASTM B564
Carbon steel	ASTM A108	—
Duplex 2507	ASTM A479	ASTM A182

Tube Socket Weld Fittings

Male Connectors



Fractional Tube

NPT Thread

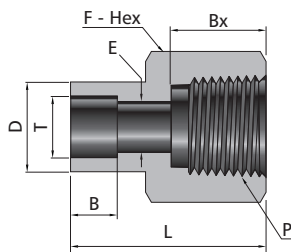
T-Tube Size (in.)	P-NPT Size	Basic Ordering Number	Dimension, mm						Working Pressure psig (bar)
			L	D	B	Bx	F	E	
1/4	1/4	FSW4-WMC-NPT4-	29.2	12.2	7.1	14.2	14.3	4.8	8000 (551)
3/8	1/4	FSW6-WMC-NPT4-	31.8	15.2	7.9	14.2	15.9	7.1	8000 (551)
3/8	3/8	FSW6-WMC-NPT6-	31.8	15.2	7.9	14.2	17.5	7.1	7800 (537)
3/8	1/2	FSW6-WMC-NPT8-	37.3	15.2	7.9	19.1	22.2	7.1	7700 (530)
1/2	1/4	FSW8-WMC-NPT4-	33.3	18.5	9.7	14.2	19.1	7.1	6600 (454)
1/2	3/8	FSW8-WMC-NPT6-	33.3	18.5	9.7	14.2	19.1	9.6	6600 (454)
1/2	1/2	FSW8-WMC-NPT8-	38.9	18.5	9.7	19.1	22.2	10.4	6600 (454)
3/4	3/4	FSW12-WMC-NPT12-	45.1	26.4	11.2	19.1	27.0	15.7	5900 (406)
1	1	FSW16-WMC-NPT16-	53.6	34.5	15.7	23.9	34.9	22.4	5300 (365)

Metric Tube

NPT Thread

T-Tube Size (mm)	P-NPT Size	Basic Ordering Number	Dimension, mm						Working Pressure psig (bar)
			L	D	B	Bx	F	E	
6	1/4	MSW6-WMC-NPT4-	29.2	12.0	7.1	14.2	14	4.8	8000 (551)
12	1/2	MSW12-WMC-NPT8-	38.9	17.6	9.7	19.1	22	9.5	6820 (470)
14	1/4	MSW14-WMC-NPT4-	33.3	21.3	10.4	14.2	15	7.1	6930 (478)
14	3/8	MSW14-WMC-NPT6-	35.0	21.6	10.4	14.2	18	9.6	6930 (478)
14	1/2	MSW14-WMC-NPT8-	40.0	21.3	10.4	19.1	22	10.4	6930 (478)
16	1/4	MSW16-WMC-NPT4-	35.0	23.3	10.4	14.2	18	7.1	6190 (426)
16	1/2	MSW16-WMC-NPT8-	40.0	23.3	10.4	19.1	22	11.9	6190 (426)
18	1/4	MSW18-WMC-NPT4-	40.4	26.0	11.2	14.2	19	7.1	6050 (417)
28	3/4	MSW28-WMC-NPT12-	55.5	40.5	18.4	19.1	30	15.7	5040 (348)
38	1 1/4	MSW38-WMC-NPT20-	68.3	52.5	26.9	23.9	46	28.6	5000 (344)

Female Connectors



Fractional Tube

NPT Thread

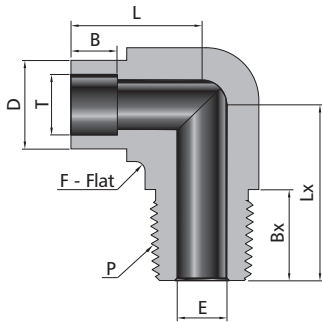
T-Tube Size (in.)	P-NPT Size	Basic Ordering Number	Dimension, mm						Working Pressure psig (bar)
			L	D	B	Bx	F	E	
1/8	1/8	FSW2-WFC-FNPT2-	21.1	7.4	2.5	10.4	14.3	2.3	6500 (447)
1/4	1/8	FSW4-WFC-FNPT2-	26.7	12.2	7.1	10.4	14.3	4.8	6500 (447)
1/4	1/4	FSW4-WFC-FNPT4-	30.0	12.2	7.1	15.0	19.1	4.8	6600 (454)
3/8	1/4	FSW6-WFC-FNPT4-	31.5	15.2	7.9	15.0	19.1	7.1	6600 (454)
1/2	3/8	FSW8-WFC-FNPT6-	34.5	18.5	9.7	15.0	22.2	10.4	5300 (365)
1/2	1/2	FSW8-WFC-FNPT8-	40.4	18.5	9.7	19.8	27.0	10.4	4900 (337)
3/4	3/4	FSW12-WFC-FNPT12-	43.9	26.4	11.2	20.6	33.3	16.0	4600 (316)
1	1	FSW16-WFC-FNPT16-	54.1	34.5	15.7	25.4	41.3	22.4	4400 (303)

Metric Tube

NPT Thread

T-Tube Size (mm)	P-NPT Size	Basic Ordering Number	Dimension, mm						Working Pressure psig (bar)
			L	D	B	Bx	F	E	
8	1/4	MSW8-WFC-FNPT4-	27.0	13.7	7.5	15.0	19	4.8	6600 (454)
10	1/4	MSW10-WFC-FNPT4-	29.0	19.5	9.5	15.0	19	7.1	6600 (454)
14	1/4	MSW14-WFC-FNPT4-	32.0	22.1	10.4	15.0	22	9.5	6930 (478)
28	3/4	MSW28-WFC-FNPT12-	54.1	40.5	18.4	20.6	35	19.8	4600 (316)

Male Elbows

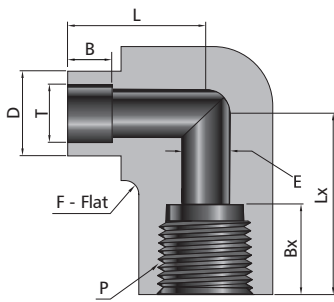


Fractional Tube

T-Tube Size (in.)	P-NPT Size	Basic Ordering Number	Dimension, mm								Working Pressure psig (bar)
			L	Lx	D	B	Bx	F	E		
1/4	1/4	FSW4-WME-NPT4-	20.1	26.7	14.7	7.1	14.2	12.7	4.8	8000 (551)	
3/8	1/4	FSW6-WME-NPT4-	26.4	26.7	14.7	7.9	14.2	12.7	7.1	8000 (551)	
3/8	3/8	FSW6-WME-NPT6-	24.6	29.7	20.2	7.9	14.2	17.5	7.1	7800 (537)	
3/8	1/2	FSW6-WME-NPT8-	25.9	36.8	23.8	7.9	19.1	20.6	7.1	7700 (530)	
1/2	1/2	FSW8-WME-NPT8-	27.4	36.8	23.8	9.7	19.1	20.6	10.4	6600 (454)	
3/4	3/4	FSW12-WME-NPT12-	38.9	39.6	26.4	11.2	19.1	27.0	15.7	5900 (406)	

NPT Thread

Female Elbows

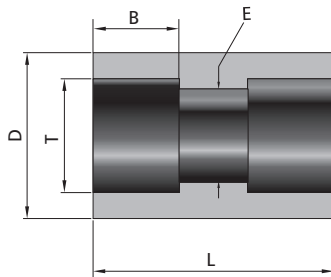


Fractional Tube

T-Tube Size (in.)	P-NPT Size	Basic Ordering Number	Dimension, mm								Working Pressure psig (bar)
			L	Lx	D	B	Bx	F	E		
1/4	1/4	FSW4-WFE-FNPT4-	22.9	29.7	20.2	7.1	15.0	17.5	4.8	7400 (509)	
3/8	1/4	FSW6-WFE-FNPT4-	25.1	29.7	20.2	7.9	15.0	17.5	7.1	7400 (509)	
3/8	1/2	FSW6-WFE-FNPT8-	28.7	39.6	29.3	7.9	19.8	25.4	7.1	5700 (392)	
1/2	1/2	FSW8-WFE-FNPT8-	30.2	39.6	29.3	9.7	19.8	25.4	10.4	5700 (392)	

NPT Thread

Unions



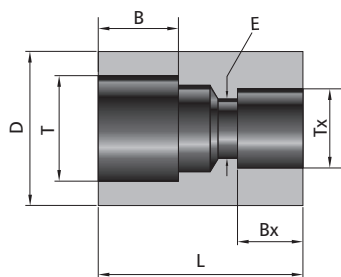
Fractional Tube

T-Tube Size (in.)	Basic Ordering Number	Dimension, mm				Working Pressure psig (bar)
		L	D	B	E	
1/4	FSW4-WU-FSW4-	19.1	12.2	7.1	4.8	10700 (737)
3/8	FSW6-WU-FSW6-	22.4	15.2	7.9	7.1	8100 (558)
1/2	FSW8-WU-FSW8-	26.9	18.5	9.7	10.4	6600 (454)
5/8	FSW10-WU-FSW10-	30.2	23.4	10.4	12.7	6200 (427)
3/4	FSW12-WU-FSW12-	33.3	26.4	11.2	16.0	5900 (406)
7/8	FSW14-WU-FSW14-	35.5	31.5	12.7	18.8	5730 (395)
1	FSW16-WU-FSW16-	36.6	34.5	15.7	22.4	5600 (385)

Metric Tube

T-Tube Size (mm)	Basic Ordering Number	Dimension, mm				Working Pressure psig (bar)
		L	D	B	E	
8	MSW8-WU-MSW8-	22.4	14.3	7.9	6.4	9790 (675)
10	MSW10-WU-MSW10-	23.6	16.5	7.9	7.4	8100 (558)
12	MSW12-WU-MSW12-	26.9	20.2	9.7	9.5	6820 (470)
14	MSW14-WU-MSW14-	28.0	23.8	10.0	10.4	6930 (478)
16	MSW16-WU-MSW16-	30.2	23.8	10.4	12.7	6190 (426)
20	MSW20-WU-MSW20-	28.0	27.0	11.2	17.0	5510 (380)

Reducing Unions



Fractional Tube

T-Tube Size (in.)	Tx-Tube Size (in.)	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)
			L	D	B	E	Bx	
3/8	1/4	FSW6-WU-FSW4-	22.4	15.2	7.9	4.8	7.1	8100 (558)
1/2	1/4	FSW8-WU-FSW4-	24.3	18.5	9.7	4.8	7.1	6600 (454)
1/2	3/8	FSW8-WU-FSW6-	26.1	18.5	9.7	7.1	7.9	6600 (454)
3/4	3/8	FSW12-WU-FSW6-	29.8	26.4	11.2	7.1	7.9	5900 (406)
3/4	1/2	FSW12-WU-FSW8-	31.6	26.4	11.2	10.4	9.7	5900 (406)
1	3/4	FSW16-WU-FSW12-	32.1	34.5	15.7	16.0	11.2	5600 (385)

Fractional Tube

Metric Tube

T-Tube Size (mm)	Tx-Tube Size (mm)	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)
			L	D	B	E	Bx	
14	10	MSW14-WU-MSW10-	26.0	20.0	10.4	7.4	7.9	6930 (478)
25	14	MSW25-WU-MSW14-	30.0	35.0	15.7	10.4	10.0	5450 (376)
25	22	MSW25-WU-MSW22-	35.8	34.5	15.7	19.0	13.5	5450 (376)

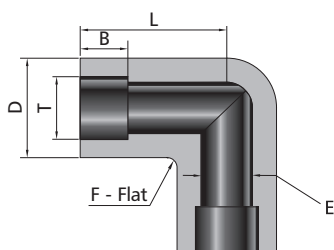
Metric Tube

Metric Tube

T-Tube Size (mm)	Tx-Tube Size (in.)	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)
			L	D	B	E	Bx	
20	3/4	MSW20-WU-FSW12-	28.0	27.0	11.2	15.7	11.2	5510 (380)
28	3/4	MSW28-WU-FSW12-	36.8	40.0	20.0	15.7	11.2	5040 (348)

Fractional Tube

Union Elbows



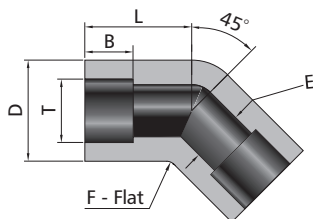
Fractional Tube

T-Tube Size (in.)	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)
		L	D	B	F	E	
1/8	FSW2-WUE-FSW2-	15.0	11.0	2.5	9.5	2.3	12600 (863)
1/4	FSW4-WUE-FSW4-	21.8	12.8	7.1	11.1	4.8	10700 (737)
3/8	FSW6-WUE-FSW6-	26.4	14.7	7.9	12.7	7.1	8100 (558)
1/2	FSW8-WUE-FSW8-	29.7	20.2	9.7	17.5	10.4	6600 (454)
5/8	FSW10-WUE-FSW10-	36.1	23.8	10.4	20.6	12.7	6200 (427)
3/4	FSW12-WUE-FSW12-	39.6	29.3	11.2	25.4	16.0	5900 (406)
1	FSW16-WUE-FSW16-	48.8	36.7	15.7	31.8	22.4	5600 (385)

Metric Tube

T-Tube Size (mm)	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)
		L	D	B	F	E	
10	MSW10-WUE-MSW10-	24.6	16.5	7.9	14.3	7.4	8100 (558)
12	MSW12-WUE-MSW12-	29.7	20.2	9.7	17.5	9.5	6820 (470)
14	MSW14-WUE-MSW14-	36.0	23.8	10.0	20.6	10.4	6930 (478)
16	MSW16-WUE-MSW16-	36.0	23.8	10.4	20.6	12.7	6190 (426)

Union 45° Elbows



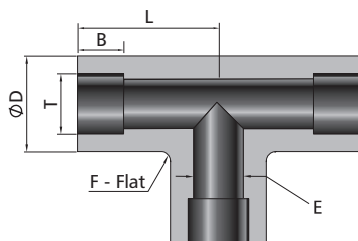
Fractional Tube

T-Tube Size (in.)	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)
		L	D	B	F	E	
1/4	FSW4-W45UE-FSW4-	15.0	14.7	7.1	12.7	4.8	10700 (737)
3/8	FSW6-W45UE-FSW6-	19.1	16.5	7.9	14.3	7.1	8100 (558)
1/2	FSW8-W45UE-FSW8-	21.3	20.2	9.7	17.5	10.4	6600 (454)
3/4	FSW12-W45UE-FSW12-	28.7	29.3	11.2	25.4	16.0	5900 (406)
1	FSW16-W45UE-FSW16-	31.8	36.7	15.7	31.8	22.4	5600 (385)

Metric Tube

T-Tube Size (mm)	Basic Ordering Number	Dimensions, mm					Working Pressure psig (bar)
		L	D	B	F	E	
8	MSW8-W45UE-MSW8-	17.3	14.7	7.9	12.7	6.4	9790 (675)
10	MSW10-W45UE-MSW10-	19.1	16.5	7.9	14.3	7.4	8100 (558)
12	MSW12-W45UE-MSW12-	21.3	20.2	9.7	17.5	9.5	6820 (470)
14	MSW14-W45UE-MSW14-	26.4	23.8	10.0	20.6	10.4	6930 (478)
16	MSW16-W45UE-MSW16-	26.4	23.8	10.4	20.6	12.7	6190 (426)
20	MSW20-W45UE-MSW20-	28.7	29.3	11.2	27.0	16.0	5510 (380)
22	MSW22-W45UE-MSW22-	29.7	31.2	13.5	31.8	19.0	6850 (472)
25	MSW25-W45UE-MSW25-	31.8	36.7	15.7	31.8	22.0	5450 (376)

Union Tees



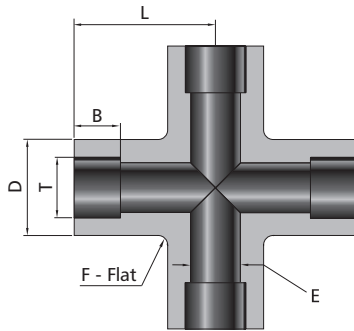
Fractional Tube

T-Tube Size (in.)	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)
		L	D	B	F	E	
1/8	FSW2-WUT-FSW2-FSW2-	15.0	12.8	2.5	9.5	2.3	12600 (868)
1/4	FSW4-WUT-FSW4-FSW4-	21.8	12.8	7.1	11.1	4.8	10700 (737)
3/8	FSW6-WUT-FSW6-FSW6-	26.4	14.7	7.9	12.7	7.1	8100 (558)
1/2	FSW8-WUT-FSW8-FSW8-	29.7	20.2	9.7	17.5	10.4	6600 (454)
5/8	FSW10-WUT-FSW10-FSW10-	36.1	23.8	10.4	20.6	12.7	6200 (428)
3/4	FSW12-WUT-FSW12-FSW12-	39.6	29.3	11.2	25.4	16.0	5900 (406)
1	FSW16-WUT-FSW16-FSW16-	48.8	36.7	15.7	31.8	22.4	5600 (385)

Metric Tube

T-Tube Size (mm)	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)
		L	D	B	F	E	
8	MSW8-WUT-MSW8-MSW8-	18.5	14.7	7.9	12.7	6.4	9790 (675)
10	MSW10-WUT-MSW10-MSW10-	24.6	16.5	7.9	14.3	7.4	8100 (558)
12	MSW12-WUT-MSW12-MSW12-	29.7	20.2	9.7	17.5	9.5	6820 (470)
14	MSW14-WUT-MSW14-MSW14-	36.0	23.8	10.0	20.6	10.4	6930 (478)
16	MSW16-WUT-MSW16-MSW16-	36.0	23.8	10.4	20.6	12.7	6190 (426)
20	MSW20-WUT-MSW20-MSW20-	39.6	29.3	11.2	25.4	17.0	5510 (380)
22	MSW22-WUT-MSW22-MSW22-	41.3	31.2	13.5	27.0	19.0	6850 (472)
25	MSW25-WUT-MSW25-MSW25-	48.8	36.7	15.7	31.8	22.0	5450 (376)

Union Crosses



Fractional Tube

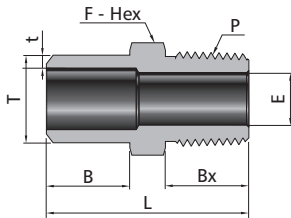
T-Tube Size (in.)	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)
		L	D	B	F	E	
1/8	FSW2-WUC-FSW2-FSW2-FSW2-	15.0	11.0	2.5	9.5	2.3	12600 (863)
1/4	FSW4-WUC-FSW4-FSW4-FSW4-	21.8	12.8	7.1	11.1	4.8	10700 (737)
3/8	FSW6-WUC-FSW6-FSW6-FSW6-	26.4	14.7	7.9	12.7	7.1	8100 (558)
1/2	FSW8-WUC-FSW8-FSW8-FSW8-	29.7	20.2	9.7	17.5	10.4	6600 (454)
5/8	FSW10-WUC-FSW10-FSW10-FSW10-	36.1	23.8	10.4	20.6	12.7	6200 (428)
3/4	FSW12-WUC-FSW12-FSW12-FSW12-	39.6	29.3	11.2	25.4	16.0	5900 (406)
1	FSW16-WUC-FSW16-FSW16-FSW16-	48.8	36.7	15.7	31.8	22.4	5600 (385)

Metric Tube

T-Tube Size (mm)	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)
		L	D	B	F	E	
8	MSW8-WC-MSW8-MSW8-MSW8-	18.5	14.7	7.9	12.7	5.9	9790 (675)
10	MSW10-WC-MSW10-MSW10-MSW10-	24.6	16.5	7.9	14.3	7.1	8100 (558)
12	MSW12-WC-MSW12-MSW12-MSW12-	29.7	20.2	9.7	17.5	9.5	6820 (470)
14	MSW14-WC-MSW14-MSW14-MSW14-	36.0	23.8	9.7	20.6	10.4	6930 (478)
16	MSW16-WC-MSW16-MSW16-MSW16-	36.0	23.8	10.0	20.6	12.7	6190 (426)
20	MSW20-WC-MSW20-MSW20-MSW20-	39.6	29.3	11.2	25.4	17.0	5510 (380)
22	MSW22-WC-MSW22-MSW22-MSW22-	41.3	31.2	13.5	27.0	19.0	6850 (472)
25	MSW25-WC-MSW25-MSW25-MSW25-	48.8	36.7	15.7	31.8	22.0	5450 (376)

Tube Butt Weld Fittings

Male Connectors



Fractional Tube

T-Tube O.D. (in.)	t-Wall Thick- ness (in.)	P-NPT Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)
				L	B	Bx	F	E	
1/4	0.065	1/4	FBW4-WMC-NPT4-	29.7	9.7	14.2	14.3	7.1	8000 (551)
1/4	0.065	1/2	FBW4-WMC-NPT8-	36.8	9.7	19.1	22.2	11.9	7700 (530)
3/8	0.095	1/4	FBW6-WMC-NPT4-	29.7	9.7	14.2	14.3	7.1	8000 (551)
3/8	0.095	1/2	FBW6-WMC-NPT8-	36.8	9.7	19.1	22.2	11.9	7700 (530)
1/2	0.095	1/4	FBW8-WMC-NPT4-	34.3	14.2	14.2	14.3	7.1	6780 (468)
1/2	0.095	1/2	FBW8-WMC-NPT8-	41.4	14.2	19.1	22.2	11.9	6780 (468)
5/8	0.109	1/4	FBW10-WMC-NPT4-	34.8	14.2	14.2	17.5	7.1	5760 (397)
5/8	0.109	1/2	FBW10-WMC-NPT8-	41.4	14.2	19.1	22.2	11.9	5760 (397)
3/4	0.120	1/4	FBW12-WMC-NPT4-	40.1	19.1	14.2	20.6	7.1	5530 (381)
3/4	0.120	1/2	FBW12-WMC-NPT8-	46.2	19.1	19.1	22.2	11.9	5530 (381)
1	0.134	1/4	FBW16-WMC-NPT4-	42.9	19.1	14.2	27.0	7.1	4480 (309)
1	0.134	1/2	FBW16-WMC-NPT8-	47.8	19.1	19.1	27.0	11.9	4480 (309)

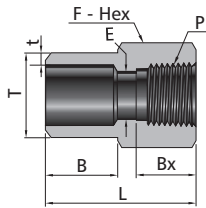
NPT Thread

Metric Tube

T-Tube O.D. (mm)	t-Wall Thickness (mm)	P-NPT Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)
				L	B	Bx	F	E	
12	2.2	1/4	MBW12-WMC-NPT4-	34.3	14.2	14.2	14	7.1	6470 (446)
12	2.2	1/2	MBW12-WMC-NPT8-	41.1	14.2	19.1	22	11.9	6470 (446)
14	2.5	1/4	MBW14-WMC-NPT4-	34.3	14.2	14.2	15	7.1	6280 (433)
14	2.5	1/2	MBW14-WMC-NPT8-	41.4	14.2	19.1	22	11.9	6280 (433)
15	2.5	1/4	MBW15-WMC-NPT4-	34.8	14.2	14.2	16	7.1	5770 (398)
16	2.8	1/4	MBW16-WMC-NPT4-	35.6	14.2	14.2	18	7.1	6140 (423)
16	2.8	1/2	MBW16-WMC-NPT8-	41.1	14.2	19.1	22	11.9	6140 (423)
20	3.0	1/2	MBW20-WMC-NPT8-	46.2	19.1	19.1	22	11.9	5110 (352)
22	3.0	1/4	MBW22-WMC-NPT4-	41.2	19.1	14.2	24	7.1	4620 (319)
22	3.0	1/2	MBW22-WMC-NPT8-	46.1	19.1	19.1	24	11.9	4620 (319)
25	3.5	3/4	MBW25-WMC-NPT12-	47.8	19.1	19.1	27	15.7	4730 (326)
25	3.5	1	MBW25-WMC-NPT16-	54.9	19.1	23.9	35	22.4	4730 (326)
28	4.0	1/2	MBW28-WMC-NPT8-	54.2	21.4	19.1	30	11.9	4850 (335)

NPT Thread

Female Connectors



Fractional Tube

NPT Thread

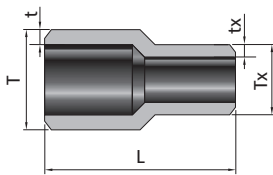
T-Tube O.D. (in.)	t-Wall Thick- ness (in.)	P-NPT Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)
				L	B	Bx	F	E	
1/4	0.065	1/4	FBW4-WFC-FNPT4-	27.9	9.7	15.0	19.1	3.0	6600 (454)
1/4	0.065	3/8	FBW4-WFC-FNPT6-	29.5	9.7	15.0	22.2	3.0	5300 (365)
3/8	0.095	1/4	FBW6-WFC-FNPT4-	27.9	9.7	15.0	19.1	4.7	6600 (454)
3/8	0.095	3/8	FBW6-WFC-FNPT6-	29.5	9.7	15.0	22.2	4.7	5300 (365)
1/2	0.095	1/4	FBW8-WFC-FNPT4-	26.7	14.2	15.0	19.1	7.9	6600 (454)
1/2	0.095	3/8	FBW8-WFC-FNPT6-	34.0	14.2	15.0	22.2	7.9	5300 (365)
1/2	0.095	1/2	FBW8-WFC-FNPT8-	38.9	14.2	19.8	27.0	7.9	4900 (337)

Metric Tube

NPT Thread

T-Tube O.D. (mm)	t-Wall Thickness (mm)	P-NPT Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)
				L	B	Bx	F	E	
14	2.5	1/4	MBW14-WFC-FNPT4-	33.0	14.2	15.0	19	9.0	6280 (433)
14	2.5	1/2	MBW14-WFC-FNPT8-	38.9	14.2	19.8	27	9.0	4900 (337)
20	3.0	1/2	MBW20-WFC-FNPT8-	43.7	19.1	19.8	27	14.0	4900 (337)
28	4.0	1/2	MBW28-WFC-FNPT8-	49.8	23.9	19.8	30	15.7	4850 (335)

Reducing Unions



Fractional Tube

Fractional Tube

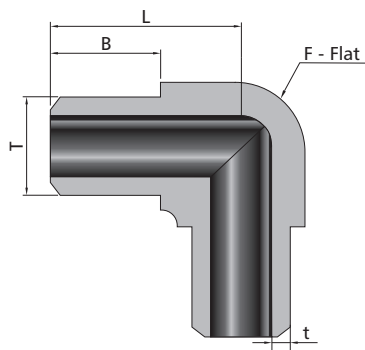
T-Tube O.D. (in.)	t-Wall Thickness (in.)	Tx-Tube O.D. (in.)	tx-Wall Thick-ness (in.)	Basic Ordering Number	L (mm)	Working Pressure psig (bar)
3/8	0.095	1/4	0.065	FBW6-WU-FBW4-	38.1	9930 (685)
1/2	0.095	1/4	0.065	FBW8-WU-FBW4-	38.1	6780 (468)
1/2	0.095	3/8	0.095	FBW8-WU-FBW6-	38.1	6780 (468)
3/4	0.120	1/2	0.095	FBW12-WU-FBW8-	38.1	5530 (381)
1	0.134	3/4	0.120	FBW16-WU-FBW12-	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)	Working Pressure psig (bar)
20	3.0	14	2.5	MBW20-WU-MBW14-	38.1	6470 (445)
22	3.0	14	2.5	MBW22-WU-MBW14-	38.1	5780 (395)
22	3.0	18	2.8	MBW22-WU-MBW18-	38.1	5780 (395)
25	3.5	22	3.0	MBW25-WU-MBW22-	38.1	5780 (395)
38	5.0	25	3.5	MBW38-WU-MBW25-	38.1	5540 (380)

Union Elbows



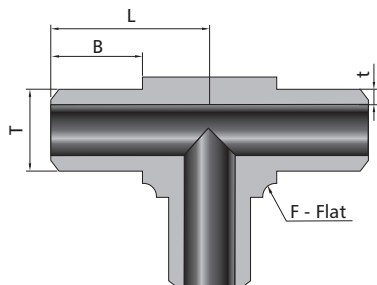
Fractional Tube

T-Tube O.D. (in.)	t-Wall Thick- ness (in.)	Basic Ordering Number	Dimension, mm			Working Pressure psig (bar)
			L	B	F	
1/4	0.065	FBW4-WUE-FBW4-	16.3	9.7	9.5	10320 (712)
3/8	0.095	FBW6-WUE-FBW6-	18.0	9.7	11.1	9930 (685)
1/2	0.095	FBW8-WUE-FBW8-	24.4	14.2	14.3	6780 (468)
3/4	0.120	FBW12-WUE-FBW12-	33.3	19.1	20.6	5530 (381)
1	0.134	FBW16-WUE-FBW16-	37.1	19.1	27.0	4480 (309)

Metric Tube

T-Tube O.D. (mm)	t-Wall Thickness (mm)	Basic Ordering Number	Dimension, mm			Working Pressure psig (bar)
			L	B	F	
10	2.2	MBW10-WUE-MBW10-	18.0	9.7	11.1	8160 (563)
14	2.5	MBW14-WUE-MBW14-	25.4	14.2	15.9	6280 (433)
16	2.8	MBW16-WUE-MBW16-	26.2	14.2	17.5	6140 (423)
20	3.0	MBW20-WUE-MBW20-	33.3	19.1	20.6	5110 (352)
22	3.0	MBW22-WUE-MBW22-	35.3	19.1	23.8	4620 (319)
25	3.5	MBW25-WUE-MBW25-	37.1	19.1	27.0	4730 (326)

Union Tees



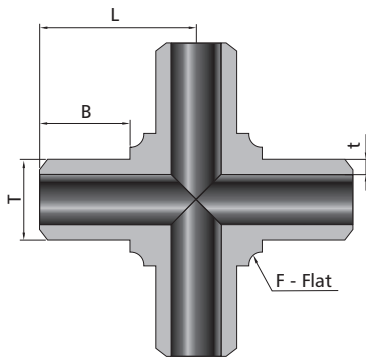
Fractional Tube

T-Tube O.D. (in.)	t-Wall Thick- ness (in.)	Basic Ordering Number	Dimension, mm			Working Pressure psig (bar)
			L	B	F	
1/4	0.065	FBW4-WUT-FBW4-FBW4-	16.3	9.7	9.5	10320 (712)
3/8	0.095	FBW6-WUT-FBW6-FBW6-	18.0	9.7	11.1	9930 (685)
1/2	0.095	FBW8-WUT-FBW8-FBW8-	24.4	14.2	14.3	6780 (468)
3/4	0.120	FBW12-WUT-FBW12-FBW12-	33.3	19.1	20.6	5530 (381)
1	0.134	FBW16-WUT-FBW16-FBW16-	37.1	19.1	27.0	4480 (309)

Metric Tube

T-Tube O.D. (mm)	t-Wall Thickness (mm)	Basic Ordering Number	Dimension, mm			Working Pressure psig (bar)
			L	B	F	
6	1.8	MBW6-WUT-MBW6-MBW6-	16.3	9.7	9.5	12660 (873)
8	1.8	MBW8-WUT-MBW8-MBW8-	16.3	9.7	9.5	8320 (574)
10	2.2	MBW10-WUT-MBW10-MBW10-	18.0	9.7	11.1	8160 (563)
12	2.2	MBW12-WUT-MBW12-MBW12-	24.4	14.2	14.3	6470 (446)
14	2.5	MBW14-WUT-MBW14-MBW14-	25.4	14.2	15.9	6280 (433)
16	2.8	MBW16-WUT-MBW16-MBW16-	26.2	14.2	17.5	6140 (423)
20	3.0	MBW20-WUT-MBW20-MBW20-	33.3	19.1	20.6	5110 (352)
22	3.0	MBW22-WUT-MBW22-MBW22-	35.3	19.1	23.8	4620 (319)
25	3.5	MBW25-WUT-MBW25-MBW25-	37.1	19.1	27.0	4730 (326)
32	4.5	MBW32-WUT-MBW32-MBW32-	49.3	23.9	34.9	4730 (326)

Union Crosses



Fractional Tube

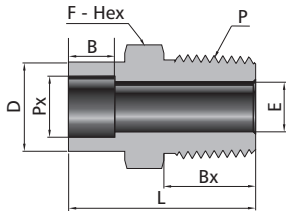
T-Tube O.D. (in.)	t-Wall Thick- ness (in.)	Basic Ordering Number	Dimension, mm			Working Pressure psig (bar)
			L	B	F	
1/4	0.065	FBW4-WUC-FBW4-FBW4-FBW4-	16.3	9.7	9.5	10320 (712)
3/8	0.095	FBW6-WUC-FBW6-FBW6-FBW6-	18.0	9.7	11.1	9930 (685)
1/2	0.095	FBW8-WUC-FBW8-FBW8-FBW8-	24.4	14.2	14.3	6780 (468)
3/4	0.120	FBW12-WUC-FBW12-FBW12-FBW12-	33.3	19.1	20.6	5530 (381)
1	0.134	FBW16-WUC-FBW16-FBW16-FBW16-	37.1	19.1	27.0	4480 (309)

Metric Tube

T-Tube O.D. (mm)	t-Wall Thickness (mm)	Basic Ordering Number	Dimension, mm			Working Pressure psig (bar)
			L	B	F	
6	1.8	MBW6-WUC-MBW6-MBW6-MBW6-	16.3	9.7	9.5	12660 (873)
8	1.8	MBW8-WUC-MBW8-MBW8-MBW8-	16.3	9.7	9.5	8320 (574)
10	2.2	MBW10-WUC-MBW10-MBW10-MBW10-	18.0	9.7	11.1	8160 (563)

Pipe Socket Weld Fittings

Male Connectors

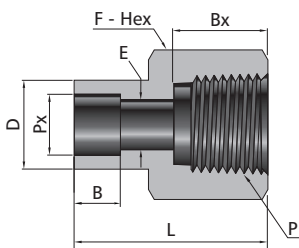


Pipe

NPT Thread

Px-Pipe Size	P-NPT Size	Basic Ordering Number	Dimension, mm						Working Pressure psig (bar)
			L	D	B	Bx	F	E	
1/4	1/4	PSW4-WMC-NPT4-	35.2	22.4	9.9	14.2	23.8	7.1	8000 (551)
1/4	1/2	PSW4-WMC-NPT8-	40.0	22.4	9.9	19.1	23.8	9.1	7700 (530)
3/8	3/8	PSW6-WMC-NPT6-	38.0	26.2	9.9	14.2	27.0	9.7	7100 (489)
3/8	1/2	PSW6-WMC-NPT8-	42.9	26.2	9.9	19.1	27.0	11.9	7100 (489)
1/2	3/8	PSW8-WMC-NPT6-	40.3	31.8	9.9	14.2	33.3	9.7	6800 (468)
1/2	1/2	PSW8-WMC-NPT8-	45.2	31.8	9.9	19.1	33.3	11.9	6800 (468)
3/4	1/2	PSW12-WMC-NPT8-	54.3	37.3	13.0	19.1	38.1	11.9	5800 (399)
3/4	3/4	PSW12-WMC-NPT12-	54.3	37.3	13.0	19.1	38.1	15.7	5800 (399)
1	3/4	PSW16-WMC-NPT12-	55.8	47.2	13.0	19.1	47.6	15.7	6100 (420)
1	1	PSW16-WMC-NPT16-	60.6	47.2	13.0	23.9	47.6	22.4	5300 (365)

Female Connectors

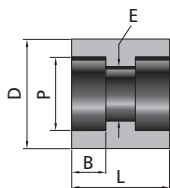


Pipe

NPT Thread

Px-Pipe Size	P-NPT Size	Basic Ordering Number	Dimension, mm						Working Pressure psig (bar)
			L	D	B	Bx	F	E	
1/4	1/4	PSW4-WFC-FNPT4-	33.5	22.4	9.9	15.0	23.8	9.1	8000 (551)
1/4	3/8	PSW4-WFC-FNPT6-	33.5	22.4	9.9	15.0	23.8	9.1	6790 (463)
3/8	3/8	PSW6-WFC-FNPT6-	34.1	26.2	9.9	15.0	27.0	12.4	7100 (489)
3/8	1/2	PSW6-WFC-FNPT8-	39.1	26.2	9.9	19.8	27.0	12.4	4900 (337)
1/2	1/2	PSW8-WFC-FNPT8-	40.0	31.8	9.9	19.8	33.3	15.7	6800 (468)
1/2	3/4	PSW8-WFC-FNPT12-	40.6	31.8	9.9	20.6	33.3	15.7	4600 (316)
3/4	3/4	PSW12-WFC-FNPT12-	53.2	37.3	13.0	20.6	38.1	20.8	5800 (399)
3/4	1	PSW12-WFC-FNPT16-	58.1	37.3	13.0	25.4	41.3	20.8	4400 (303)

Unions

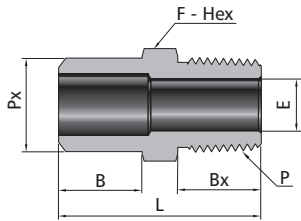


Pipe

P-Pipe Size	Basic Ordering Number	Dimension, mm				Working Pressure psig (bar)
		L	D	B	E	
1/8	PSW2-WU-PSW2-	25.7	17.1	9.9	7.0	8230(568)
1/4	PSW4-WU-PSW4-	26.9	22.4	9.9	9.1	8000(551)
3/8	PSW6-WU-PSW6-	28.4	26.2	9.9	12.4	7100(489)
1/2	PSW8-WU-PSW8-	28.4	31.8	9.9	15.7	6800(468)
3/4	PSW12-WU-PSW12-	44.5	37.3	13.0	20.8	5800(399)
1	PSW16-WU-PSW16-	44.5	47.2	13.0	26.7	6100(420)

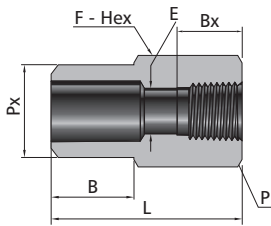
Pipe Butt Weld Fittings

Male Connectors



Pipe			NPT Thread					
Px-Sch80 Pipe Size	P-NPT Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)
			L	B	Bx	F	E	
1/4	1/4	PBW4-WMC-NPT4-	34.3	14.2	14.2	14.3	7.1	8000 (551)
1/4	1/2	PBW4-WMC-NPT8-	41.3	14.2	19.1	22.2	7.7	7700 (537)
3/8	1/4	PBW6-WMC-NPT4-	34.8	14.2	14.2	17.5	7.1	6650 (459)
3/8	1/2	PBW6-WMC-NPT8-	41.3	14.2	19.1	22.2	10.7	6650 (459)
1/2	1/4	PBW8-WMC-NPT4-	41.3	19.1	14.2	22.2	7.1	6190 (427)
1/2	1/2	PBW8-WMC-NPT8-	46.2	19.1	19.1	22.2	11.9	6190 (427)
3/4	1/4	PBW12-WMC-NPT4-	42.9	19.1	14.2	27.0	7.1	5040 (348)
3/4	1/2	PBW12-WMC-NPT8-	47.8	19.1	19.1	27.0	11.9	5040 (348)
1	1/4	PBW16-WMC-NPT4-	50.0	23.9	14.2	34.9	7.1	4640 (320)
1	1/2	PBW16-WMC-NPT8-	54.9	23.9	19.1	34.9	11.9	4640 (320)

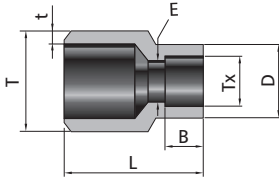
Female Connectors



Pipe			NPT Thread					
Px-Sch80 Pipe Size	P-NPT Size	Basic Ordering Number	Dimension, mm					Working Pressure psig (bar)
			L	B	Bx	F	E	
1/4	1/2	PBW4-WFC-FNPT8-	38.9	14.2	19.8	27.0	7.6	4900 (337)
3/8	1/2	PBW6-WFC-FNPT8-	38.9	14.2	19.8	27.0	10.7	4900 (337)
1/2	1/4	PBW8-WFC-FNPT4-	37.3	19.1	15.0	22.2	10.4	7500 (516)
1/2	1/2	PBW8-WFC-FNPT8-	43.7	19.1	19.8	27.0	13.9	4900 (337)

Weld Adapters

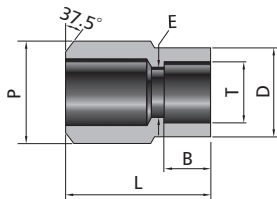
Tube Butt Weld to Tube Socket Weld



Fractional Tube

T-Tube O.D. (in.)	t-Wall Thick- ness (in.)	Tx-Tube Size (in.)	Basic Ordering Number	Dimension, mm				Working Pressure psig (bar)
				L	B	D	E	
1/4	0.083	1/8	FBW4-WA-FSW2-	14.2	2.5	8.0	2.3	12600 (868)
3/8	0.095	1/4	FBW6-WA-FSW4-	19.1	7.1	12.2	4.8	8200 (564)
1/2	0.095	1/4	FBW8-WA-FSW4-	22.4	7.1	12.7	4.8	7500 (516)
1/2	0.095	3/8	FBW8-WA-FSW6-	22.4	7.9	15.2	8.3	7500 (516)
3/4	0.120	1/2	FBW12-WA-FSW8-	28.4	9.7	18.5	10.4	6300 (434)
1	0.134	1/2	FBW16-WA-FSW8-	35.1	9.7	18.5	10.4	5300 (365)
1	0.134	3/4	FBW16-WA-FSW12-	38.1	11.2	26.4	16.0	5300 (365)

Pipe Butt Weld to Tube Socket Weld



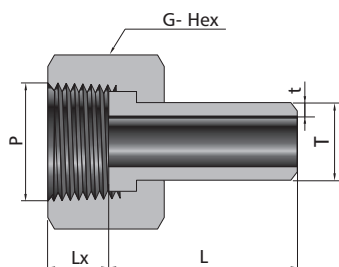
Pipe

Fractional Tube

P-Sch80 Pipe Size	T-Tube Size (in.)	Basic Ordering Number	Dimension, mm				Working Pressure psig (bar)
			L	B	D	E	
1/4	1/4	PBW4-WA-FSW4-	22.4	7.1	12.2	4.8	10810 (744)
3/8	1/4	PBW6-WA-FSW4-	26.2	7.9	12.2	4.8	8500 (586)
3/8	3/8	PBW6-WA-FSW6-	26.2	7.9	15.2	7.1	8500 (586)
3/8	1/2	PBW6-WA-FSW8-	25.4	9.7	18.5	10.4	6930 (476)
1/2	1/4	PBW8-WA-FSW4-	28.4	7.1	12.2	4.8	8190 (563)
1/2	3/8	PBW8-WA-FSW6-	28.4	7.9	15.2	7.1	8190 (563)
1/2	1/2	PBW8-WA-FSW8-	30.2	9.7	18.5	10.4	6930 (476)
3/4	1/4	PBW12-WA-FSW4-	38.1	7.1	12.2	4.8	6930 (476)
3/4	3/8	PBW12-WA-FSW6-	38.1	7.9	15.2	7.1	6930 (476)
3/4	1/2	PBW12-WA-FSW8-	38.1	9.7	18.5	10.4	6930 (476)
3/4	3/4	PBW12-WA-FSW12-	38.1	11.2	26.4	16.0	6190 (483)
1	3/8	PBW16-WA-FSW6-	35.1	7.9	15.2	7.1	6300 (434)
1	1/2	PBW16-WA-FSW8-	39.6	11.2	18.5	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	Dimension, mm			Working Pressure psig (bar)
				L	G	Lx	
1/2	12	2.2	FBP8-PTW-MBW12-	30	27.0	9.2	6470 (446)
1/2	14	2.5	FBP8-PTW-MBW14-	30	27.0	9.2	6280 (433)
1/2	16	2.8	FBP8-PTW-MBW16-	34	27.0	9.2	6140 (423)

Metric Thread

Metric Tube

P-Metric Thread Size	T-Tube O.D. (mm)	t-Wall Thickness (mm)	Basic Ordering Number	Dimension, mm			Working Pressure psig (bar)
				L	G	Lx	
M12 x 1.5	6	1.8	FMS12-PTW-MBW6-	25	16	8	12660 (873)
M12 x 1.5	8	1.8	FMS12-PTW-MBW8-	30	16	9	8320 (574)
M14 x 1.5	8	1.8	FMS14-PTW-MBW8-	30	18	9	8320 (574)
M14 x 1.5	10	2.2	FMS14-PTW-MBW10-	30	18	9	8160 (563)
M16 x 1.5	8	1.8	FMS16-PTW-MBW8-	30	22	9	8320 (574)
M16 x 1.5	10	2.2	FMS16-PTW-MBW10-	30	22	9	8160 (563)
M16 x 1.5	12	2.2	FMS16-PUW-MBW12-	34	22	14	6470 (446)
M18 x 1.5	10	2.2	FMS18-PTW-MBW10-	34	22	10	8160 (563)
M18 x 1.5	12	2.2	FMS18-PTW-MBW12-	34	22	10	6470 (446)
M18 x 1.5	14	2.5	FMS18-PTW-MBW14-	34	22	10	6280 (433)
M20 x 1.5	10	2.2	FMS20-PTW-MBW10-	34	25	11	8160 (563)
M20 x 1.5	12	2.2	FMS20-PTW-MBW12-	34	25	11	6470 (446)
M20 x 1.5	14	2.5	FMS20-PTW-MBW14-	34	25	11	6280 (433)
M20 x 1.5	15	2.5	FMS20-PTW-MBW15-	34	25	11	6160 (425)
M20 x 1.5	16	2.8	FMS20-PTW-MBW16-	34	25	11	6140 (423)
M22 x 1.5	14	2.5	FMS22-PTW-MBW14-	34	27	11	6280 (433)
M22 x 1.5	16	2.8	FMS22-PTW-MBW16-	34	27	11	6140 (423)
M24 x 1.5	16	2.8	FMS24-PTW-MBW16-	34	30	11	6140 (423)
M24 x 1.5	18	2.8	FMS24-PTW-MBW18-	34	30	11	5670 (392)
M24 x 1.5	20	3.0	FMS24-PTW-MBW20-	34	30	11	5110 (352)
M27 x 2	14	2.5	FMS27-PTW-MBW14-	34	32	14	6280 (433)
M27 x 2	16	2.8	FMS27-PTW-MBW16-	34	32	14	6140 (423)
M27 x 2	18	2.8	FMS27-PTW-MBW18-	34	32	14	5670 (392)
M27 x 2	20	3.0	FMS27-PTW-MBW20-	40	32	14	5110 (352)
M27 x 2	22	3.0	FMS27-PTW-MBW22-	40	32	14	4620 (319)
M30 x 2	22	3.0	FMS30-PTW-MBW22-	40	35	18	4620 (319)
M30 x 2	25	3.5	FMS30-PTW-MBW25-	45	35	18	4730 (326)
M33 x 2	28	4.0	FMS33-PTW-MBW28-	45	41	18	5160 (356)
M36 x 2	30	4.0	FMS36-PTW-MBW30-	45	41	18	4760 (328)

How to Order

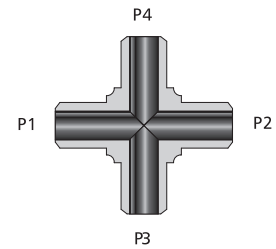
MBW6

WMC

NPT4

316

Port 1 Type	Port 1 Size	Fitting Configuration	Port 2, Port 3 and Port 4	Material
FSW Fractional Tube Socket Weld	2 1/8 in.	WMC Male Connector	Same as port 1	316 316 S.S.
FBW Fractional Tube Butt Weld	4 1/4 in.	WFC Female Connector		316L 316L S.S.
MSW Metric Tube Socket Weld	6 3/8 in. or 6 mm	WU Union		304 304 S.S.
MBW Metric Tube Butt Weld	8 1/2 in. or 8 mm	WUE Union Elbow		304L 304L S.S.
PBW Pipe Butt Weld	10 5/8 in. or 10 mm	WUT Union Tee		
PSW Pipe Socket Weld	12 3/4 in. or 12 mm or M12 x 1.5	WUC Union Cross		
FNPT Female NPT	14 7/8 in. or 14 mm or M14 x 1.5	WME Male Elbow		
NPT Male NPT	16 1 in. or 16 mm or M16 x 1.5	WFE Female Elbow		
NPTO O-ring with Male NPT	18 1 1/8 in. or 20 mm or M20 x 1.5	W45UE 45° Union Elbow		
FBT Female BSPT	20 1 1/4 in. or 20 mm or M20 x 1.5			
MBT Male BSPT	22 22 mm or M22 x 1.5			
MBTO O-ring with Male BSPT	24 1 1/2 in. or M24 x 1.5			
FBP Female BSPP	25 25 mm			
PMBP Male BSPP (for BP)	27 M27 X 2			
MBS Male BSPP (for BS)	28 28 mm			
MBP Male BSPP (for BG)	30 30 mm or M30 x 2			
FMS Female ISO	32 2 in. or 32 mm			
MS Male ISO (for BG)	38 38 mm			
BPMS Male ISO (for BP)				
BSMS Male ISO (for BS)				



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