Butt Weld Fittings

M and L Series

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FG11040813

FITOK
Valves and Fittings

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M Series

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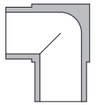

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Reducing 90° Union Elbows – WL1

03

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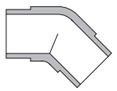

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Tribows – WB1

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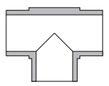
Union Tees – WT1



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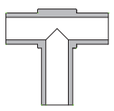

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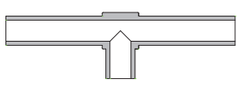

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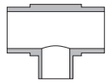
Reducing Union Tees – WT1



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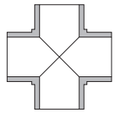
Union Crosses – WC1



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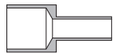
Long Arm Butt Weld Fittings
L Series

Reducing Unions – WU2



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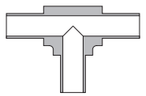

07

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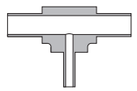

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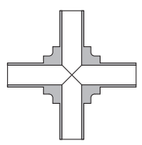

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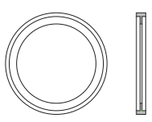

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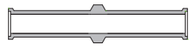
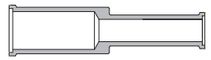


08

Unions – WU2

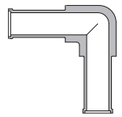
08

Reducing Unions – WU2



09

90° Union Elbows – WL2



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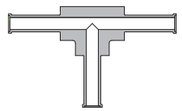
Union Tees – WT2



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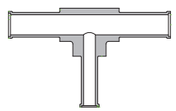
Reducing Tees – WT2



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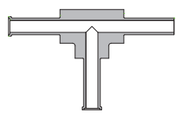

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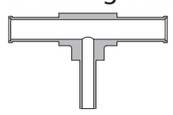

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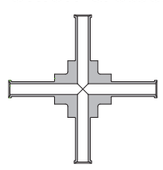

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Features

- 316, 316L, 316L VAR and 316L VIM/VAR (Vacuum Induction Melting/Vacuum Arc Remelting) stainless steel materials are available.
- Catalog working pressures shown are for temperatures from -20°F to 100°F (-28°C to 37°C). They are based on an allowable stress value of 20000 psig (1378 bar) according to ASME B31.3 .
- Butt weld connection ensures system unhindered.
- Each fitting is stamped with size, material and heat code.

Materials

Material	Bar Stock	Forging	Designator
316 SS	ASTM A479/A276	ASTM A182/A314	SS
316L SS			6L
316L VAR SS	ASTM A479/A276 SEMI F20	—	6LV
316L VIMVAR SS			6LW

Working Temperatures

Material	Minimum Temperature	Maximum Temperature
316 SS	-325°F (-198°C)	1000°F (538°C)
316L SS	-325°F (-198°C)	850°F (454°C)
316L VAR SS		
316L VIM/VAR SS		

Working Pressure

- Catalog 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 catalog working pressures shown by 0.94.
- Use the allowable working pressure at ambient temperature to multiply the elevated temperature factors to get the working pressure at elevated temperature. To find out the elevated temperature factor, please refer to the related information of FITOK 6 Series Tube Fittings in page 9.

Ordering Information - M and L series

- Dimensions are for reference only and are subject to change.
- Add the material designator as a prefix, Wetted Surface Finish code or Cleaning and Packaging code as a suffix to the basic ordering number to get the complete ordering number.
- Wetted Surface Finish

  Standard surface finish is a roughness average of 15 µin. (0.4 µm) Ra. To order fittings to a roughness average of 10 µin. (0.2 µm) Ra, add -E3 as a suffix to the ordering number. Put Wetted Surface Finish before code Cleaning and Packaging code. Example:**6LW-WL1-TB6-E3** .
- Standard Process Specification

  FC-01 standard cleaning and packaging, Is applied to all the fittings for general industrial procedure. No suffix is required. Example: **6L-WL1-TB6**.
- High-Purity Process Specification

  FC-02 special cleaning and packaging, following ASTM G93 level C, add -F2 as a suffix to the basic ordering number. Example: **6L-WT1-TB4-F2**.
- Ultrahigh-purity Process Specification

  FC-03 ultrahigh-purity cleaning and packaging, add - E3F3 as a suffix to the basic ordering number. Example: **6LW-WT1-TB4-E3F3**.

Cautions:

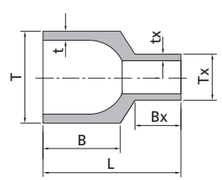
- Using the same materials to weld will ensure the same coefficients of expansion and good weld.
- Tungsten Inert Gas Welding (TIG) is recommended.

Mini Butt Weld Fittings

M Series

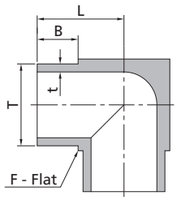
1. Sizes range from 1/8" to 1/2" and 6 mm to 12 mm.
2. Radius junction design with elbows provides smooth flow path.
3. Compact design allows close component spacing.
4. Square, sharp, burrfree tube weld ends enhance alignment, maintain tube wall uniformity, and promoteweld repeatability.

Reducing Unions



T-Tube O.D. (in.)	t-Wall Thickness (in.)	Tx-Tube O.D. (in.)	tx-Wall Thickness (in.)	Ordering Number	Dimension, mm			Working Pressure psig (bar)
					L	B	Bx	
1/4	0.035	1/8	0.028	6LV-WU1-TB4-TB2	19.0	10.7	6.4	5150 (355)
3/8	0.035	1/4	0.035	6LV-WU1-TB6-TB4	19.0	10.7	6.4	3330 (230)
1/2	0.049	1/4	0.035	6LV-WU1-TB8-TB4	19.0	10.7	6.4	3530 (243)
1/2	0.049	3/8	0.035	6LV-WU1-TB8-TB6	19.0	10.7	6.4	3330 (230)

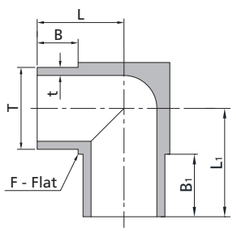
90° Union Elbows



T-Tube O.D. (in.)	t-Wall Thickness (in.)	Ordering Number	Dimension, mm			Working Pressure psig (bar)
			L	B	F	
1/8	0.028	6LW-WL1-TB2	10.4	6.4	7.9	8580 (612)
1/4	0.035	6LW-WL1-TB4	10.4	6.4	7.9	5150 (355)
3/8	0.035	6LW-WL1-TB6	11.9	6.4	11.1	3330 (230)
1/2	0.049	6LW-WL1-TB8	13.5	6.4	14.3	3530 (243)

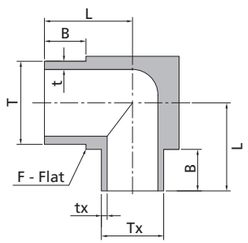
T-Tube O.D. (mm)	t-Wall Thickness (mm)	Ordering Number	Dimension, mm			Working Pressure bar (psig)
			L	B	F	
6	1.0	6LW-WL1-MTB6	10.4	6.4	7.9	424 (6150)
8	1.0	6LW-WL1-MTB8	11.9	6.4	11.1	313 (4540)
10	1.0	6LW-WL1-MTB10	11.9	6.4	11.1	242 (3510)
12	1.0	6LW-WL1-MTB12	13.5	6.4	14.3	202 (2930)

Extended Leg 90° Union Elbow



T-Tube O.D. (in.)	t-Wall Thickness (in.)	Ordering Number	Dimension, mm					Working Pressure bar (psig)
			B	B1	F	L	L1	
1/4	0.035	6LW-WL1-TB4-1	6.4	11.4	7.9	10.4	15.5	351 (5090)
1/4	0.035	6LW-WL1-TB4-2	6.4	12.7	7.9	10.4	16.8	351 (5090)
1/4	0.035	6LW-WL1-TB4-3	11.4	11.4	7.9	15.5	15.5	351 (5090)
1/4	0.035	6LW-WL1-TB4-4	12.7	12.7	7.9	16.8	16.8	351 (5090)

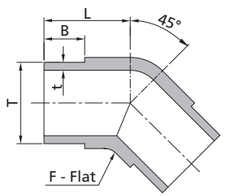
Reducing 90° Union Elbows



T-Tube O.D. (in.)	t-Wall Thickness (in.)	Tx-Tube O.D. (in.)	tx-Wall Thickness (in.)	Ordering Number	Dimension, mm			Working Pressure psig (bar)
					L	B	F	
3/8	0.035	1/4	0.035	6LW-WL1-TB6-TB4	11.9	6.4	7.9	3330 (230)
1/2	0.049	1/4	0.035	6LW-WL1-TB8-TB4	13.5	6.4	11.1	3530 (243)
1/2	0.049	3/8	0.035	6LW-WL1-TB8-TB6	13.5	6.4	11.1	3330 (230)

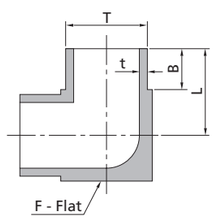
T-Tube O.D. (mm)	t-Wall Thickness (mm)	Tx-Tube O.D. (mm)	tx-Wall Thickness (mm)	Ordering Number	Dimension, mm			Working Pressure bar (psig)
					L	B	F	
8	1.0	6	1.0	6LW-WL1-MTB8-MTB6	11.9	6.4	11.1	313 (4540)
10	1.0	6	1.0	6LW-WL1-MTB10-MTB6	11.9	6.4	11.1	242 (3510)
12	1.0	6	1.0	6LW-WL1-MTB12-MTB6	13.5	6.4	14.3	202 (2930)
12	1.0	8	1.0	6LW-WL1-MTB12-MTB8	13.5	6.4	14.3	202 (2930)

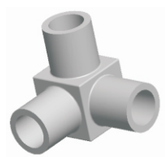
45° Union Elbows



T-Tube O.D. (in.)	t-Wall Thickness (in.)	Ordering Number	Dimension, mm			Working Pressure psig (bar)
			L	B	F	
1/4	0.035	6LW-WV1-TB4	10.4	6.4	7.9	5150 (355)
3/8	0.035	6LW-WV1-TB6	11.9	6.4	11.1	3330 (230)
1/2	0.049	6LW-WV1-TB8	13.5	6.4	14.3	3530 (243)

Tribows

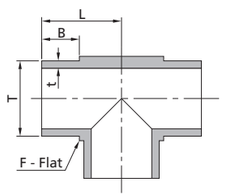




T-Tube O.D. (in.)	t-Wall Thickness (in.)	Ordering Number	Dimension, mm			Working Pressure psig (bar)
			L	B	F	
1/4	0.035	6LW-WB1-TB4	10.4	6.4	7.9	5150 (355)
3/8	0.035	6LW-WB1-TB6	11.9	6.4	11.1	3330 (230)
1/2	0.049	6LW-WB1-TB8	13.5	6.4	14.3	3530 (243)

T-Tube O.D. (mm)	t-Wall Thickness (mm)	Ordering Number	Dimension, mm			Working Pressure bar (psig)
			L	B	F	
6	1.0	6LW-WB1-MTB6	10.4	6.4	7.9	424 (6150)

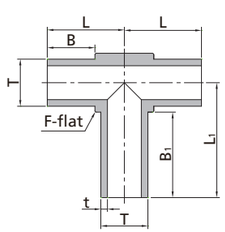
Union Tees



T-Tube O.D. (in.)	t-Wall Thickness (in.)	Ordering Number	Dimension, mm			Working pressure psig (bar)
			L	B	F	
1/8	0.028	6LW-WT1-TB2	10.4	6.4	7.9	8580 (612)
1/4	0.035	6LW-WT1-TB4	10.4	6.4	7.9	5150 (355)
3/8	0.035	6LW-WT1-TB6	11.9	6.4	11.1	3330 (230)
1/2	0.049	6LW-WT1-TB8	13.5	6.4	14.3	3530 (243)

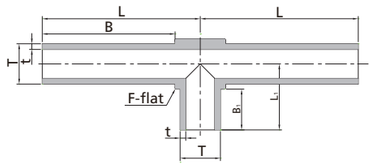
T-Tube O.D. (mm)	t-Wall Thickness (mm)	Ordering Number	Dimension, mm			Working pressure bar (psig)
			L	B	F	
6	1.0	6LW-WT1-MTB6	10.4	6.4	7.9	424 (6150)
8	1.0	6LW-WT1-MTB8	11.9	6.4	11.1	313 (4540)
10	1.0	6LW-WT1-MTB10	11.9	6.4	11.1	242 (3510)
12	1.0	6LW-WT1-MTB12	13.5	6.4	14.3	202 (2930)

Extended Branch Leg Union Tees



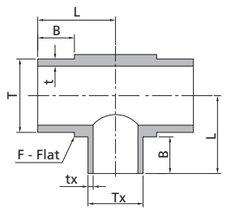
T-Tube O.D. (in.)	Wall Thickness (in.)	Ordering Number	Dimension, mm					Working pressure psig (bar)
			L	L_1	B	B_1	F	
1/4	0.035	6LW-WT1-TB4-45	10.4	15.5	6.4	11.4	7.9	5100 (351)

Extended Run Leg Union Tees



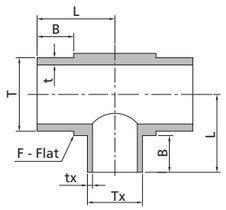
T-Tube O.D. (in.)	Wall (in.)	Ordering Number	Dimension, mm					Working pressure psig (bar)
			L	L_1	B	B_1	F	
1/4	0.035	6LW-WT1-TB4-98	24.9	10.4	21.1	6.4	7.9	5100 (351)

Reducing Tees



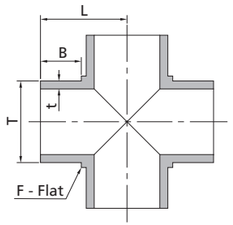
T-Tube O.D. (in.)	T-Wall Thickness (in.)	Tx-Tube O.D. (in.)	tx-Wall Thickness (in.)	Ordering Number	Dimension, mm			Working Pressure psig (bar)
					L	B	F	
3/8	0.035	1/4	0.035	6LW-WT1-TB6-TB6-TB4	11.9	6.4	11.1	3330 (230)
1/2	0.049	1/4	0.035	6LW-WT1-TB8-TB8-TB4	13.5	6.4	14.3	3530 (243)
1/2	0.049	3/8	0.035	6LW-WT1-TB8-TB8-TB6	13.5	6.4	14.3	3330 (230)

Reducing Tees



T-Tube O.D. (mm)	T-Wall Thickness (mm)	Tx-Tube O.D. (mm)	tx-Wall Thickness (mm.)	Ordering Number	Dimension, mm			Working Pressure bar (psig)
					L	B	F	
10	1.0	6	1.0	6LW-WT1-MTB10-MTB10-MTB6	11.9	6.4	11.1	242 (3510)
12	1.0	6	1.0	6LW-WT1-MTB12-MTB12-MTB6	13.5	6.4	14.3	202 (2930)
12	1.0	8	1.0	6LW-WT1-MTB12-MTB12-MTB8	13.5	6.4	14.3	202 (2930)

Union Crosses



T-Tube O.D. (in.)	t-Wall Thickness (in.)	Ordering Number	Dimension, mm			Working Pressure psig (bar)
			L	B	F	
1/8	0.028	6LW-WC1-TB2	10.4	6.4	7.9	8580 (612)
1/4	0.035	6LW-WC1-TB4	10.4	6.4	7.9	5150 (355)
3/8	0.035	6LW-WC1-TB6	11.9	6.4	11.1	3330 (230)
1/2	0.049	6LW-WC1-TB8	13.5	6.4	14.3	3530 (243)

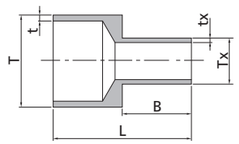
T-Tube O.D. (mm)	t-Wall Thickness (mm)	Ordering Number	Dimension, mm			Working Pressure bar (psig)
			L	B	F	
6	1.0	6LW-WC1-MTB6	10.4	6.4	7.9	424 (6150)
8	1.0	6LW-WC1-MTB8	11.9	6.4	11.1	313 (4540)
10	1.0	6LW-WC1-MTB10	11.9	6.4	11.1	242 (3510)
12	1.0	6LW-WC1-MTB12	13.5	6.4	14.3	202 (2930)

Long Arm Butt Weld Fittings

L Series

1. Sizes range from 1/4" to 1" and 6 mm to 18 mm.
2. Radius junction design with elbows provides smooth flow path.
3. Precisely fi nished diameter matches tube diameter.

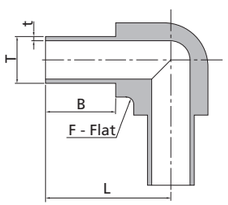
Reducing Unions



T-Tube O.D. (in.)	t-Wall Thickness (in.)	Tx-Tube O.D. (in.)	tx-Wall Thickness (in.)	Ordering Number	Dimension, mm		Working Pressure psig (bar)
					L	B	
3/8	0.035	1/4	0.035	6L-WU2-TB6-TB4	38.1	19.1	3330 (230)
1/2	0.049	1/4	0.049	6L-WU2-TB8-TB4	38.1	19.1	3530 (243)
1/2	0.049	3/8	0.035	6L-WU2-TB8-TB6	38.1	19.1	3330 (230)
3/4	0.049	1/2	0.049	6L-WU2-TB12-TB8	38.1	19.1	2420 (167)
1	0.065	1/2	0.049	6L-WU2-TB16-TB8	38.1	19.1	2420 (167)
1	0.065	3/4	0.049	6L-WU2-TB16-TB12	38.1	19.1	2420 (167)

T-Tube O.D. (mm)	t-Wall Thickness (mm)	Tx-Tube O.D. (mm)	tx-Wall Thickness (mm)	Ordering Number	Dimension, mm		Working Pressure bar (psig)
					L	B	
10	1.0	6	1.0	6L-WU2-MTB10-MTB6	38.1	19.1	242 (3510)
10	1.0	8	1.0	6L-WU2-MTB10-MTB8	38.1	19.1	242 (3510)
12	1.0	6	1.0	6L-WU2-MTB12-MTB6	38.1	19.1	202 (2930)
12	1.0	8	1.0	6L-WU2-MTB12-MTB8	38.1	19.1	202 (2930)
12	1.0	10	1.0	6L-WU2-MTB12-MTB10	38.1	19.1	202 (2930)
18	1.5	6	1.5	6L-WU2-MTB18-MTB6	38.1	19.1	202 (2930)
18	1.5	12	1.5	6L-WU2-MTB18-MTB12	38.1	19.1	202 (2930)

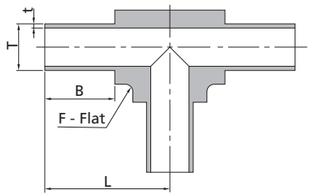
Union Elbows



T-Tube O.D. (in.)	t-Wall Thickness (in.)	Ordering Number	Dimension, mm			Working Pressure psig (bar)
			L	B	F	
1/4	0.035	6L-WL2-TB4	31.2	19.1	11.1	5150 (355)
3/8	0.035	6L-WL2-TB6	30.5	19.1	11.1	3330 (230)
1/2	0.049	6L-WL2-TB8	34.0	19.1	17.5	3530 (243)
3/4	0.049	6L-WL2-TB12	37.1	19.1	23.8	2420 (167)

T-Tube O.D. (mm)	t-Wall Thickness (mm)	Ordering Number	Dimension, mm			Working Pressure bar (psig)
			L	B	F	
6	1.0	6L-WL2-MTB6	31.2	19.1	11.1	424 (6150)
8	1.0	6L-WL2-MTB8	31.2	19.1	11.1	313 (4540)
10	1.0	6L-WL2-MTB10	34.0	19.1	17.5	242 (3510)
12	1.0	6L-WL2-MTB12	34.0	19.1	17.5	202 (2930)
18	1.5	6L-WL2-MTB18	37.6	19.1	23.8	202 (2930)

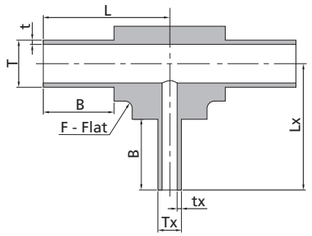
Union Tees



T-Tube O.D. (in.)	t-Wall Thickness (in.)	Ordering Number	Dimension, mm			Working Pressure psig (bar)
			L	B	F	
1/4	0.035	6L-WT2-TB4	31.2	19.1	11.1	5150 (355)
3/8	0.035	6L-WT2-TB6	30.5	19.1	11.1	3330 (230)
1/2	0.049	6L-WT2-TB8	34.0	19.1	17.5	3530 (243)
3/4	0.049	6L-WT2-TB12	37.1	19.1	23.8	2420 (167)

T-Tube O.D. (mm)	t-Wall Thickness (mm)	Ordering Number	Dimension, mm			Working Pressure bar (psig)
			L	B	F	
6	1.0	6L-WT2-MTB6	31.2	19.1	11.1	424 (6150)
8	1.0	6L-WT2-MTB8	31.2	19.1	11.1	313 (4540)
10	1.0	6L-WT2-MTB10	34.0	19.1	17.5	242 (3510)
12	1.0	6L-WT2-MTB12	34.0	19.1	17.5	202 (2930)
18	1.5	6L-WT2-MTB18	37.6	19.1	23.8	202 (2930)

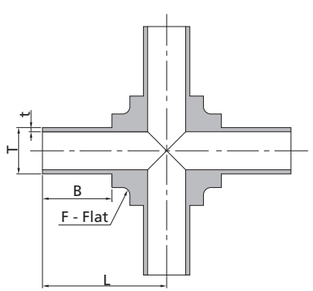
Reducing Tees



T-Tube O.D. (in.)	t-Wall Thickness (in.)	Tx-Tube O.D. (in.)	tx-Wall Thickness (in.)	Ordering Number	Dimension, mm				Working Pressure psig (bar)
					L	Lx	B	F	
3/8	0.035	1/4	0.035	6L-WT2-TB6-TB6-TB4	30.5	31.2	19.1	11.1	3330 (230)
1/2	0.049	1/4	0.035	6L-WT2-TB8-TB8-TB4	34.0	34.0	19.1	17.5	3530 (243)
1/2	0.049	3/8	0.035	6L-WT2-TB8-TB8-TB6	34.0	34.3	19.1	17.5	3330 (230)
3/4	0.049	1/4	0.035	6L-WT2-TB12-TB12-TB4	37.1	34.3	19.1	23.8	2370 (163)
3/4	0.049	3/8	0.035	6L-WT2-TB12-TB12-TB6	37.1	37.6	19.1	23.8	2370 (163)

T-Tube O.D. (mm)	t-Wall Thickness (mm)	Tx-Tube O.D. (mm)	tx-Wall Thickness (mm)	Ordering Number	Dimension, mm				Working Pressure bar (psig)
					L	Lx	B	F	
8	1.0	6	1.0	6L-WT2-MTB8-MTB8-MTB6	31.3	31.3	19.1	11.1	313 (4540)
10	1.0	6	1.0	6L-WT2-MTB10-MTB10-MTB6	34.0	34.0	19.1	17.5	242 (3510)
10	1.0	8	1.0	6L-WT2-MTB10-MTB10-MTB8	34.0	34.0	19.1	17.5	242 (3510)
12	1.0	6	1.0	6L-WT2-MTB12-MTB12-MTB6	34.0	34.0	19.1	17.5	202 (2930)
12	1.0	8	1.0	6L-WT2-MTB12-MTB12-MTB8	34.0	34.0	19.1	17.5	202 (2930)

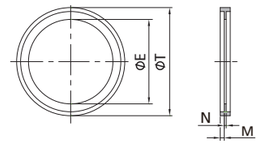
Union Crosses



T-Tube O.D. (in.)	t-Wall Thickness (in.)	Ordering Number	Dimension, mm			Working Pressure psig (bar)
			L	B	F	
1/4	0.035	6L-WC2-TB4	31.2	19.1	11.1	5150 (355)
3/8	0.035	6L-WC2-TB6	30.5	19.1	11.1	3330 (230)
1/2	0.049	6L-WC2-TB8	34.0	19.1	17.5	3530 (243)

T-Tube O.D. (mm)	t-Wall Thickness (mm)	Ordering Number	Dimension, mm			Working Pressure bar (psig)
			L	B	F	
6	1.0	6L-WC2-MTB6	31.2	19.1	11.1	424 (6150)
8	1.0	6L-WC2-MTB8	31.2	19.1	11.1	313 (4540)
10	1.0	6L-WC2-MTB10	34.0	19.1	17.5	242 (3510)
12	1.0	6L-WC2-MTB12	34.0	19.1	17.5	202 (2930)

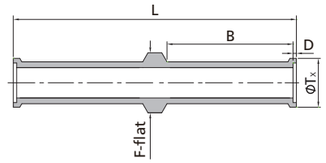
Weld Rings



T-Tube O.D. (in.)	Ordering Number	Dimension, mm				Working Pressure psig (bar)
		E	M	N	T	
1/4	6L-WR-4	5.1	0.51	0.25	7.1	5150 (355)
3/8	6L-WR-6	8.1	0.51	0.25	10.4	3330 (230)
1/2	6L-WR-8	10.7	0.51	0.25	13.7	3530 (243)

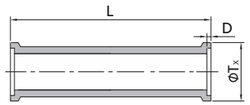
Automatic Tube Butt Weld Fittings

Locator Unions



T-Tube O.D. (in.)	Wall (in.)	Ordering Number	Dimension, mm					Working Pressure psig (bar)
			L	B	D	F	Tx	
1/4	0.035	6L-WU2-L-TB4A	42.9	19.1	0.51	9.1	7.4	5100 (351)
3/8	0.035	6L-WU2-L-TB6A	43.4	19.1	0.76	10.7	10.4	3300 (227)
1/2	0.049	6L-WU2-L-TB8A	43.9	19.1	1.0	15.2	14.0	3700 (254)

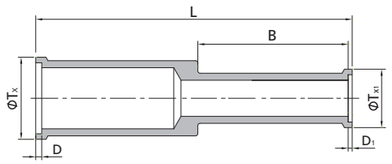
Unions



T-Tube O.D. (in.)	Wall (in.)	Ordering Number	Dimension, mm			Working Pressure psig (bar)
			L	D	Tx	
1/4	0.035	6L-WU2-TB4A	25.4	0.51	7.4	5100 (351)
3/8	0.035	6L-WU2-TB6A	25.4	0.76	10.4	3300 (227)
1/2	0.049	6L-WU2-TB8A	25.4	1.0	14.0	3700 (254)
3/4	0.049	6L-WU2-TB12A	25.4	1.0	20.3	2400 (165)
1	0.065	6L-WU2-TB16A	25.4	1.0	26.9	2400 (165)

T-Tube O.D. (in.)	Wall (in.)	Ordering Number	Dimension, mm			Working Pressure psig (bar)
			L	D	Tx	
6	1	6L-WU2-MTB6A	31.8	0.51	6.9	6095 (420)
8	1	6L-WU2-MTB8A	31.8	0.76	8.9	4499 (310)
10	1	6L-WU2-MTB10A	31.8	0.76	10.9	3483 (240)
12	1	6L-WU2-MTB12A	31.8	1.0	13.2	2902 (200)
18	1.5	6L-WU2-MTB18A	31.8	1.0	19.3	2902 (200)

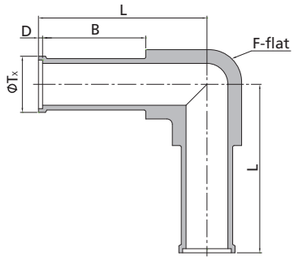
Reducing Unions



T-Tube O.D. (in.)	Wall (in.)	T-Tube O.D. (in.)	Wall (in.)	Ordering Number	Dimension, mm						Working Pressure psig (bar)
					L	B	D	D1	Tx	Tx1	
3/8	0.035	1/4	0.035	6L-WU2-TB6A-TB4A	40.1	19.1	0.76	0.51	10.4	7.4	3300 (227)
1/2	0.049	1/4	0.035	6L-WU2-TB8A-TB4A	40.1	19.1	1.0	0.51	14.0	7.4	3700 (254)
1/2	0.049	3/8	0.035	6L-WU2-TB8A-TB6A	40.1	19.1	1.0	0.76	14.0	10.4	3300 (227)

T-Tube O.D. (mm)	Wall (mm)	T-Tube O.D. (mm)	Wall (mm)	Ordering Number	Dimension, mm						Working Pressure bar (psig)
					L	B	D	D1	Tx	Tx1	
8	1	6	1	6L-WU2-MTB8A-MTB6A	39.9	19.1	0.76	0.51	8.9	6.8	310 (4499)
12	1	6	1	6L-WU2-MTB12A-MTB6A	40.1	19.1	1.0	0.51	13.2	6.8	200 (2902)
12	1	8	1	6L-WU2-MTB12A-MTB8A	40.4	19.1	1.0	0.76	13.2	8.9	200 (2902)

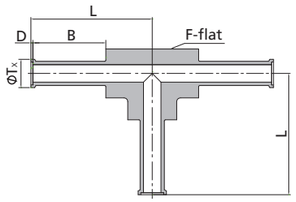
90° Union Elbows



T-Tube O.D. (in.)	t-Wall Thickness (in.)	Ordering Number	Dimension, mm					Working Pressure psig (bar)
			L	B	D	F	Tx	
1/4	0.035	6L-WL2-TB4A	31.8	19.1	0.51	11.11	7.4	5100 (351)
3/8	0.035	6L-WL2-TB6A	31.2	19.1	0.76	11.11	10.4	3300 (227)
1/2	0.049	6L-WL2-TB8A	35.1	19.1	1.0	17.46	14.0	3700 (254)
3/4	0.049	6L-WL2-TB12A	38.1	19.1	1.0	23.81	20.3	2400 (165)
1	0.065	6L-WL2-TB16A	48.0	24.4	1.0	31.75	26.9	2400 (165)

T-Tube O.D. (mm)	t-Wall Thickness (mm)	Ordering Number	Dimension, mm					Working Pressure bar (psig)
			L	B	D	F	Tx	
6	1	6L-WL2-MTB6A	31.8	19.1	0.51	11.11	6.9	351 (5100)
8	1	6L-WL2-MTB8A	32.0	19.1	0.76	11.11	8.9	227 (3300)
10	1	6L-WL2-MTB10A	34.8	19.1	0.76	17.46	10.9	254 (3700)
12	1	6L-WL2-MTB12A	35.1	19.1	1.0	17.46	13.2	199 (2888)
18	1.5	6L-WL2-MTB18A	38.6	19.1	1.0	23.81	19.3	206 (2989)

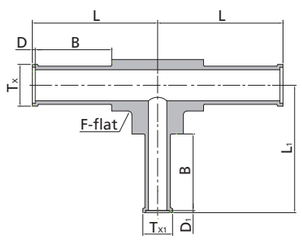
Union Tees



T-Tube O.D. (in.)	t-Wall Thickness (in.)	Ordering Number	Dimension, mm					Working Pressure psig (bar)
			L	B	D	F	Tx	
1/4	0.035	6L-WT2-TB4A	31.8	19.1	0.51	11.11	7.4	5100 (351)
3/8	0.035	6L-WT2-TB6A	31.2	19.1	0.76	11.11	10.4	3300 (227)
1/2	0.049	6L-WT2-TB8A	35.1	19.1	1.0	17.46	14.0	3500 (241)
3/4	0.049	6L-WT2-TB12A	38.1	19.1	1.0	23.81	20.3	2400 (165)
1	0.065	6L-WT2-TB16A	48.0	24.4	1.0	31.75	26.9	2400 (165)

T-Tube O.D. (mm)	t-Wall Thickness (mm)	Ordering Number	Dimension, mm					Working Pressure bar (psig)
			L	B	D	F	Tx	
6	1	6L-WT2-MTB6A	31.8	19.1	0.51	11.11	6.9	454 (6589)
8	1	6L-WT2-MTB8A	32.0	19.1	0.76	11.11	8.9	323 (4687)
10	1	6L-WT2-MTB10A	34.8	19.1	0.76	17.46	10.9	254 (3686)
12	1	6L-WT2-MTB12A	35.1	19.1	1.0	17.46	13.2	206 (2989)
18	1.5	6L-WT2-MTB18A	38.6	19.1	1.0	23.81	19.3	206 (2989)

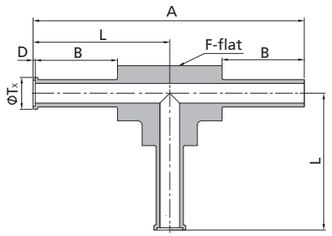
Reducing Tees



T-Tube O.D. (in.)	Wall (in.)	T-Tube O.D. (in.)	Wall (in.)	Ordering Number	Dimension, mm								Working Pressure psig (bar)
					L	L1	B	D	D1	Tx	Tx1	F	
3/8	0.035	1/4	0.035	6L-WT2-TB6A-TB6A-TB4A	31.2	31.8	19.1	0.76	0.51	10.4	7.4	11.11	3300 (227)
1/2	0.049	1/4	0.035	6L-WT2-TB8A-TB8A-TB4A	35.1	35.1	19.1	1.0	0.51	14.0	7.4	17.46	3700 (254)
1/2	0.049	3/8	0.035	6L-WT2-TB8A-TB8A-TB6A	35.1	34.8	19.1	1.0	0.76	14.0	10.4	17.46	3300 (227)
3/4	0.049	3/8	0.035	6L-WT2-TB12A-TB12A-TB6A	38.1	38.1	19.1	1.0	0.76	20.3	10.4	23.81	2400 (165)
3/4	0.049	1/2	0.049	6L-WT2-TB12A-TB12A-TB8A	38.1	38.1	19.1	1.0	1.0	20.3	14.0	23.81	2400 (165)

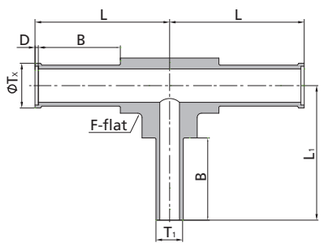
T-Tube O.D. (mm)	Wall (mm)	T-Tube O.D. (mm)	Wall (mm)	Ordering Number	Dimension, mm								Working Pressure bar (psig)
					L	L1	B	D	D1	Tx	Tx1	F	
12	1	6	1	6L-WT2-MTB12A-MTB12A-MTB6A	35.1	34.5	19.1	0.51	0.51	13.2	6.9	17.46	200 (2902)

Manifold Tees



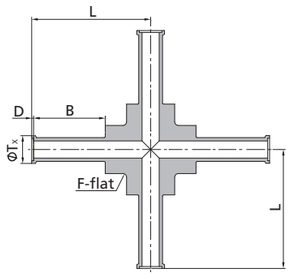
T-Tube O.D. (in.)	Wall (in.)	Ordering Number	Dimension, mm						Working Pressure psig (bar)
			A	L	B	D	F	Tx	
1/4	0.035	6L-WT2-TB4A-TB4-TB4A	63.0	31.8	19.1	0.51	11.11	7.4	5100 (351)
3/8	0.035	6L-WT2-TB6A-TB6-TB6A	61.7	31.2	19.1	0.76	17.46	10.4	3300 (227)
1/2	0.049	6L-WT2-TB8A-TB8-TB8A	69.1	35.1	19.1	1.0	17.46	14.0	3500 (241)

Reducing Tees



T-Tube O.D. (in.)	Wall (in.)	T-Tube O.D. (in.)	Wall (in.)	Ordering Number	Dimension, mm						Working Pressure psig (bar)
					L	L1	B	D	Tx	F	
3/8	0.035	1/4	0.035	6L-WT2-TB6A-TB6A-TB4	31.2	31.2	19.1	0.76	10.4	11.11	3300 (227)
1/2	0.049	1/4	0.035	6L-WT2-TB8A-TB8A-TB4	35.1	34.5	19.1	1.0	14.0	17.46	3700 (254)
1/2	0.049	3/8	0.035	6L-WT2-TB8A-TB8A-TB6	35.1	34.3	19.1	1.0	14.0	17.46	3300 (227)

Union Crosses



T-Tube O.D. (in.)	Wall (in.)	Ordering Number	Dimension, mm					Working Pressure psig (bar)
			L	B	D	F	Tx	
1/4	0.035	6L-WC2-TB4A	31.8	19.1	0.51	11.11	7.4	5100 (351)
3/8	0.035	6L-WC2-TB6A	31.2	19.1	0.76	11.11	10.4	3300 (227)
1/2	0.049	6L-WC2-TB8A	34.3	19.1	1.0	17.46	14.0	3700 (254)

T-Tube O.D. (in.)	Wall (in.)	Ordering Number	Dimension, mm					Working Pressure psig (bar)
			L	B	D	F	Tx	
6	1	6L-WC2-MTB6A	31.8	19.1	0.51	11.11	6.9	6095 (420)
8	1	6L-WC2-MTB8A	31.8	19.1	0.76	11.11	8.9	4499 (310)