

Butt Weld Fittings

M and L Series



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FK-IC-SF-04-EN-150916

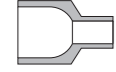
FITOK
Valves and Fittings

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Contents

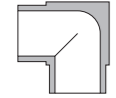
Micro Weld Fittings M Series

Reducing Unions - WU1



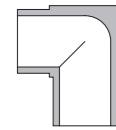
02

90° Union Elbows - WL1



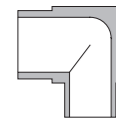
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Extended Leg 90° Union Elbow - WL1



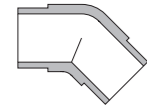
03

Reducing 90° Union Elbows - WL1



03

45° Union Elbows - WV1



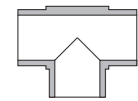
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Tribows - WB1



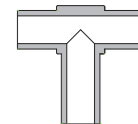
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Union Tees - WT1



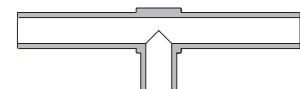
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Extended Branch Leg Union Tees - WT1



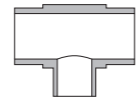
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Extended Run Leg Union Tees - WT1



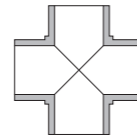
05

Reducing Tees - WT1



05

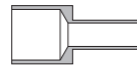
Union Crosses - WC1



06

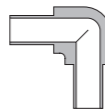
Tube Butt Weld Fittings L Series

Reducing Unions - WU2



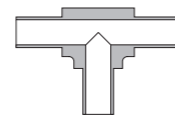
08

Union Elbows - WL2



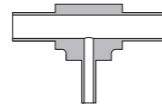
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Union Tees - WT2



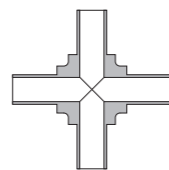
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Reducing Tees - WT2



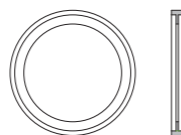
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Union Crosses - WC2



10

Weld Rings

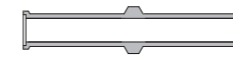


10

Contents

Automatic Tube Butt Weld Fittings

Locator Unions - WU2



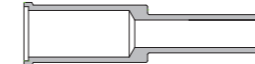
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Unions - WU2



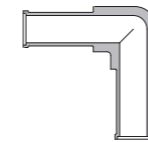
11

Reducing Unions - WU2



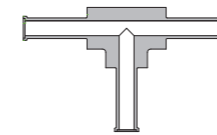
11

90° Union Elbows - WL2



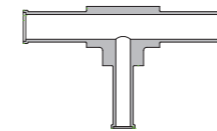
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Union Tees - WT2



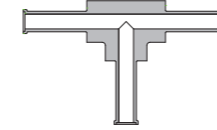
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Reducing Tees - WT2



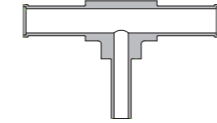
13

Manifold Tees - WT2



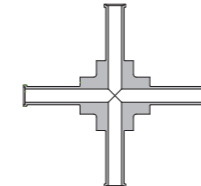
13

Reducing Tees - WT2



14

Union Crosses - WC2



14

Micro Weld Fittings

M Series

Features

- Sizes range from 1/8" to 1/2" and 6 mm to 12 mm.
- Radius junction design with elbows provides smooth flow path.
- Compact design allows close component spacing.
- Square, sharp, burr-free tube weld ends enhance alignment, maintain tube wall uniformity, and promote weld repeatability.
- Standard surface finish is a roughness average of 10 µin. (0.25 µm) Ra. With 5 µin. (0.13 µm) Ra surface finish is available.
- Each fitting is stamped with size, material and heat code.



Materials

| Material | Bar Stock | Designator |
|-----------------|-------------------------|------------|
| 316 SS | ASTM A479/A276 | SS |
| 316L SS | | 6L |
| 316L VAR SS | ASTM A479/A276 SEMI F20 | 6LV |
| 316L VIM-VAR 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 Tubes and Pipe in page 11.

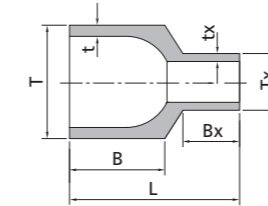
Ordering Information

- 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.
- 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-WT1-TB4**.
- Special Cleaning and Packaging
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, Wetted surfaces are finished to 5 µin. (0.13 µm) Ra. add - F3 as a suffix to the basic ordering number.
Example: **6LW-WT1-TB4-F3**.

Cautions:

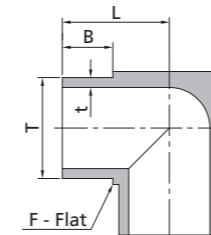
- Using the same materials to weld will ensure the same coefficients of expansion and good weld.
- Tungsten Inert Gas Welding (TIG) is recommended.

Reducing Unions



| T-Tube O.D. (in.) | t-Wall Thickness (in.) | Tx-Tube O.D. (in.) | tx-Wall Thickness (in.) | Ordering Number | Dimension, in. (mm) | | | Working Pressure psig (bar) |
|-------------------|------------------------|--------------------|-------------------------|-----------------|---------------------|-------------|------------|-----------------------------|
| | | | | | L | B | Bx | |
| 1/4 | 0.035 | 1/8 | 0.028 | 6LV-WU1-TB4-TB2 | 0.75 (19.1) | 0.42 (10.7) | 0.25 (6.4) | 5100 (351) |
| 3/8 | 0.035 | 1/4 | 0.035 | 6LV-WU1-TB6-TB4 | 0.75 (19.1) | 0.42 (10.7) | 0.25 (6.4) | 3300 (227) |
| 1/2 | 0.049 | 1/4 | 0.035 | 6LV-WU1-TB8-TB4 | 0.75 (19.1) | 0.42 (10.7) | 0.25 (6.4) | 3700 (254) |
| 1/2 | 0.049 | 3/8 | 0.035 | 6LV-WU1-TB8-TB6 | 0.75 (19.1) | 0.42 (10.7) | 0.25 (6.4) | 3300 (227) |

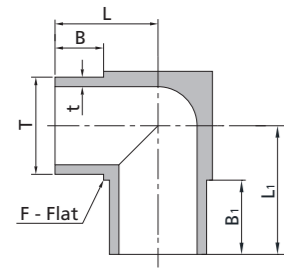
90° Union Elbows



| T-Tube O.D. (in.) | t-Wall Thickness (in.) | Ordering Number | Dimension, in. (mm) | | | Working Pressure psig (bar) |
|-------------------|------------------------|-----------------|---------------------|------------|-------------|-----------------------------|
| | | | L | B | F | |
| 1/8 | 0.028 | 6LW-WL1-TB2 | 0.41 (10.4) | 0.25 (6.4) | 5/16 (7.9) | 8500 (585) |
| 1/4 | 0.035 | 6LW-WL1-TB4 | 0.41 (10.4) | 0.25 (6.4) | 5/16 (7.9) | 5100 (351) |
| 3/8 | 0.035 | 6LW-WL1-TB6 | 0.47 (11.9) | 0.25 (6.4) | 7/16 (11.1) | 3300 (227) |
| 1/2 | 0.049 | 6LW-WL1-TB8 | 0.53 (13.5) | 0.25 (6.4) | 9/16 (14.3) | 3700 (254) |

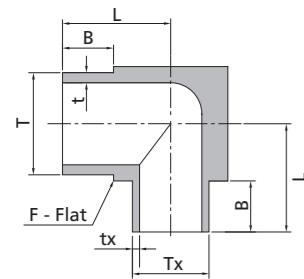
| T-Tube O.D. (mm) | t-Wall Thickness (mm) | Ordering Number | Dimension, mm (in.) | | | Working Pressure bar (psig) |
|------------------|-----------------------|-----------------|---------------------|------------|-------------|-----------------------------|
| | | | L | B | F | |
| 6 | 1.0 | 6LW-WL1-MTB6 | 10.4 (0.41) | 6.4 (0.25) | 7.9 (5/16) | 420 (6095) |
| 8 | 1.0 | 6LW-WL1-MTB8 | 11.9 (0.47) | 6.4 (0.25) | 11.1 (7/16) | 310 (4499) |
| 10 | 1.0 | 6LW-WL1-MTB10 | 11.9 (0.47) | 6.4 (0.25) | 11.1 (7/16) | 240 (3483) |
| 12 | 1.0 | 6LW-WL1-MTB12 | 13.5 (0.53) | 6.4 (0.25) | 14.3 (9/16) | 200 (2902) |

Extended Leg 90° Union Elbow



| T-Tube O.D. (in.) | t-Wall Thickness (in.) | Ordering Number | Dimension, in. (mm) | | | | | Working Pressure psig (bar) |
|-------------------|------------------------|-----------------|---------------------|----------------|------------|-------------|----------------|-----------------------------|
| | | | B | B ₁ | F | L | L ₁ | |
| 1/4 | 0.035 | 6LW-WL1-TB4-1 | 0.25 (6.4) | 0.45 (11.4) | 5/16 (7.9) | 0.41 (10.4) | 0.61 (15.5) | 5100 (351) |
| 1/4 | 0.035 | 6LW-WL1-TB4-2 | 0.25 (6.4) | 0.50 (12.7) | 5/16 (7.9) | 0.41 (10.4) | 0.66 (16.8) | 5100 (351) |
| 1/4 | 0.035 | 6LW-WL1-TB4-3 | 0.45 (11.4) | 0.45 (11.4) | 5/16 (7.9) | 0.61 (15.5) | 0.61 (15.5) | 5100 (351) |
| 1/4 | 0.035 | 6LW-WL1-TB4-4 | 0.50 (12.7) | 0.50 (12.7) | 5/16 (7.9) | 0.66 (16.8) | 0.66 (16.8) | 5100 (351) |

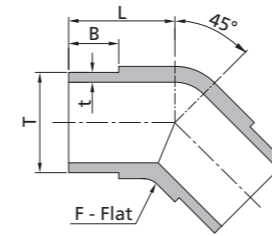
Reducing 90° Union Elbows



| T-Tube O.D. (in.) | t-Wall Thickness (in.) | Tx-Tube O.D. (in.) | tx-Wall Thickness (in.) | Ordering Number | Dimension, in. (mm) | | | Working Pressure psig (bar) |
|-------------------|------------------------|--------------------|-------------------------|-----------------|---------------------|------------|-------------|-----------------------------|
| | | | | | L | B | F | |
| 3/8 | 0.035 | 1/4 | 0.035 | 6LW-WL1-TB6-TB4 | 0.47 (11.9) | 0.25 (6.4) | 7/16 (11.1) | 3300 (227) |
| 1/2 | 0.049 | 1/4 | 0.035 | 6LW-WL1-TB8-TB4 | 0.53 (13.5) | 0.25 (6.4) | 9/16 (14.3) | 3700 (254) |
| 1/2 | 0.049 | 3/8 | 0.035 | 6LW-WL1-TB8-TB6 | 0.53 (13.5) | 0.25 (6.4) | 9/16 (14.3) | 3300 (227) |

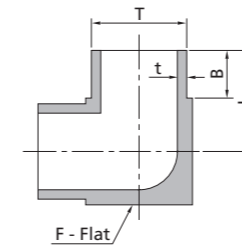
| T-Tube O.D. (mm) | t-Wall Thickness (mm) | Tx-Tube O.D. (mm) | tx-Wall Thickness (mm) | Ordering Number | Dimension, mm (in.) | | | Working Pressure bar (psig) |
|------------------|-----------------------|-------------------|------------------------|--------------------|---------------------|------------|-------------|-----------------------------|
| | | | | | L | B | F | |
| 8 | 1.0 | 6 | 1.0 | 6LW-WL1-MTB8-MTB6 | 11.9 (0.47) | 6.4 (0.25) | 11.1 (7/16) | 310 (4499) |
| 10 | 1.0 | 6 | 1.0 | 6LW-WL1-MTB10-MTB6 | 11.9 (0.47) | 6.4 (0.25) | 11.1 (7/16) | 240 (3483) |
| 12 | 1.0 | 6 | 1.0 | 6LW-WL1-MTB12-MTB6 | 13.5 (0.53) | 6.4 (0.25) | 14.3 (9/16) | 200 (2902) |
| 12 | 1.0 | 8 | 1.0 | 6LW-WL1-MTB12-MTB8 | 13.5 (0.53) | 6.4 (0.25) | 14.3 (9/16) | 200 (2902) |

45° Union Elbows

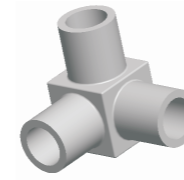


| T-Tube O.D. (in.) | t-Wall Thickness (in.) | Ordering Number | Dimension, in. (mm) | | | Working Pressure psig (bar) |
|-------------------|------------------------|-----------------|---------------------|------------|-------------|-----------------------------|
| | | | L | B | F | |
| 1/4 | 0.035 | 6LW-WV1-TB4 | 0.41 (10.4) | 0.25 (6.4) | 5/16 (7.9) | 5100 (351) |
| 3/8 | 0.035 | 6LW-WV1-TB6 | 0.47 (11.9) | 0.25 (6.4) | 7/16 (11.1) | 3300 (227) |
| 1/2 | 0.049 | 6LW-WV1-TB8 | 0.53 (13.5) | 0.25 (6.4) | 9/16 (14.3) | 3700 (254) |

Tribows

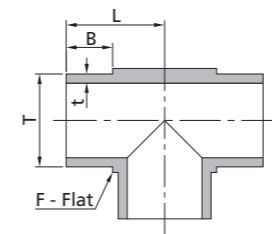


| T-Tube O.D. (in.) | t-Wall Thickness (in.) | Ordering Number | Dimension, in. (mm) | | | Working Pressure psig (bar) |
|-------------------|------------------------|-----------------|---------------------|------------|-------------|-----------------------------|
| | | | L | B | F | |
| 1/4 | 0.035 | 6LW-WB1-TB4 | 0.41 (10.4) | 0.25 (6.4) | 5/16 (7.9) | 5100 (351) |
| 3/8 | 0.035 | 6LW-WB1-TB6 | 0.47 (11.9) | 0.25 (6.4) | 7/16 (11.1) | 3300 (227) |
| 1/2 | 0.049 | 6LW-WB1-TB8 | 0.53 (13.5) | 0.25 (6.4) | 9/16 (14.3) | 3700 (254) |



| T-Tube O.D. (mm) | t-Wall Thickness (mm) | Ordering Number | Dimension, mm (in.) | | | Working Pressure bar (psig) |
|------------------|-----------------------|-----------------|---------------------|------------|------------|-----------------------------|
| | | | L | B | F | |
| 6 | 1.0 | 6LW-WB1-MTB6 | 10.4 (0.41) | 6.4 (0.25) | 7.9 (5/16) | 420 (6095) |

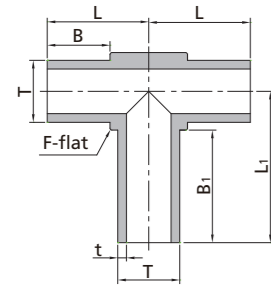
Union Tees



| T-Tube O.D. (in.) | t-Wall Thickness (in.) | Ordering Number | Dimension, in. (mm) | | | Working pressure psig (bar) |
|-------------------|------------------------|-----------------|---------------------|------------|-------------|-----------------------------|
| | | | L | B | F | |
| 1/8 | 0.028 | 6LW-WT1-TB2 | 0.41 (10.4) | 0.25 (6.4) | 5/16 (7.9) | 8500 (585) |
| 1/4 | 0.035 | 6LW-WT1-TB4 | 0.41 (10.4) | 0.25 (6.4) | 5/16 (7.9) | 5100 (351) |
| 3/8 | 0.035 | 6LW-WT1-TB6 | 0.47 (11.9) | 0.25 (6.4) | 7/16 (11.1) | 3300 (227) |
| 1/2 | 0.049 | 6LW-WT1-TB8 | 0.53 (13.5) | 0.25 (6.4) | 9/16 (14.3) | 3700 (254) |

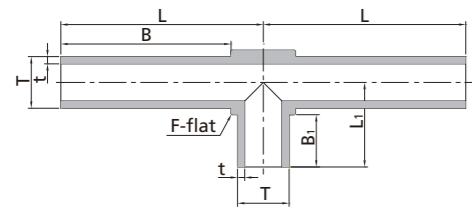
| T-Tube O.D. (mm) | t-Wall Thickness (mm) | Ordering Number | Dimension, mm (in.) | | | Working pressure bar (psig) |
|------------------|-----------------------|-----------------|---------------------|------------|-------------|-----------------------------|
| | | | L | B | F | |
| 6 | 1.0 | 6LW-WT1-MTB6 | 10.4 (0.41) | 6.4 (0.25) | 7.9 (5/16) | 420 (6095) |
| 8 | 1.0 | 6LW-WT1-MTB8 | 11.9 (0.47) | 6.4 (0.25) | 11.1 (7/16) | 310 (4499) |
| 10 | 1.0 | 6LW-WT1-MTB10 | 11.9 (0.47) | 6.4 (0.25) | 11.1 (7/16) | 240 (3483) |
| 12 | 1.0 | 6LW-WT1-MTB12 | 13.5 (0.53) | 6.4 (0.25) | 14.3 (9/16) | 200 (2902) |

Extended Branch Leg Union Tees



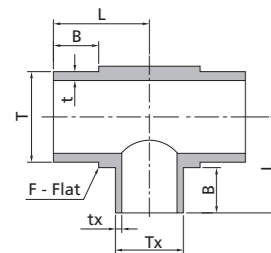
| T-Tube O.D. (in.) | Wall Thickness (in.) | Ordering Number | Dimension, in. (mm) | | | | | Working pressure psig (bar) |
|-------------------|----------------------|-----------------|---------------------|----------------|------------|----------------|------------|-----------------------------|
| | | | L | L ₁ | B | B ₁ | F | |
| 1/4 | 0.035 | 6LW-WT1-TB4-45 | 0.41 (10.4) | 0.61 (15.5) | 0.25 (6.4) | 0.45 (11.4) | 5/16 (7.9) | 5100 (351) |

Extended Run Leg Union Tees



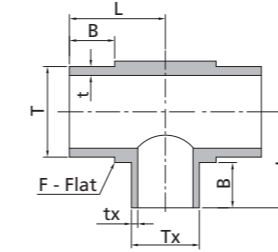
| T-Tube O.D. (in.) | Wall (in.) | Ordering Number | Dimension, in. (mm) | | | | | Working pressure psig (bar) |
|-------------------|------------|-----------------|---------------------|----------------|-------------|----------------|------------|-----------------------------|
| | | | L | L ₁ | B | B ₁ | F | |
| 1/4 | 0.035 | 6LW-WT1-TB4-98 | 0.98 (24.9) | 0.41 (10.4) | 0.83 (21.1) | 0.25 (6.4) | 5/16 (7.9) | 5100 (351) |

Reducing Tees



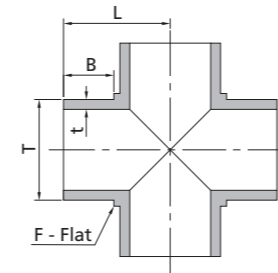
| T-Tube O.D. (in.) | T-Wall Thickness (in.) | Tx-Tube O.D. (in.) | tx-Wall Thickness (in.) | Ordering Number | Dimension, in. (mm) | | | Working Pressure psig (bar) |
|-------------------|------------------------|--------------------|-------------------------|---------------------|---------------------|------------|-------------|-----------------------------|
| | | | | | L | B | F | |
| 3/8 | 0.035 | 1/4 | 0.035 | 6LW-WT1-TB6-TB6-TB4 | 0.47 (11.9) | 0.25 (6.4) | 7/16 (11.1) | 3300 (227) |
| 1/2 | 0.049 | 1/4 | 0.035 | 6LW-WT1-TB8-TB8-TB4 | 0.53 (13.5) | 0.25 (6.4) | 9/16 (14.3) | 3700 (254) |
| 1/2 | 0.049 | 3/8 | 0.035 | 6LW-WT1-TB8-TB8-TB6 | 0.53 (13.5) | 0.25 (6.4) | 9/16 (14.3) | 3300 (227) |

Reducing Tees



| T-Tube O.D. (mm) | T-Wall Thickness (mm) | Tx-Tube O.D. (mm) | tx-Wall Thickness (mm.) | Ordering Number | Dimension, mm (in.) | | | Working Pressure bar (psig) |
|------------------|-----------------------|-------------------|-------------------------|--------------------------|---------------------|------------|-------------|-----------------------------|
| | | | | | L | B | F | |
| 10 | 1.0 | 6 | 1.0 | 6LW-WT1-MTB10-MTB10-MTB6 | 11.9 (0.47) | 6.4 (0.25) | 11.1 (7/16) | 240 (3483) |
| 12 | 1.0 | 6 | 1.0 | 6LW-WT1-MTB12-MTB12-MTB6 | 0.53 (13.5) | 6.4 (0.25) | 14.3 (9/16) | 200 (2902) |
| 12 | 1.0 | 8 | 1.0 | 6LW-WT1-MTB12-MTB12-MTB8 | 0.53 (13.5) | 6.4 (0.25) | 14.3 (9/16) | 200 (2902) |

Union Crosses



| T-Tube O.D. (in.) | t-Wall Thickness (in.) | Ordering Number | Dimension, in. (mm) | | | Working Pressure psig (bar) |
|-------------------|------------------------|-----------------|---------------------|------------|-------------|-----------------------------|
| | | | L | B | F | |
| 1/8 | 0.028 | 6LW-WC1-TB2 | 0.41 (10.4) | 0.25 (6.4) | 5/16 (7.9) | 8500 (585) |
| 1/4 | 0.035 | 6LW-WC1-TB4 | 0.41 (10.4) | 0.25 (6.4) | 5/16 (7.9) | 5100 (351) |
| 3/8 | 0.035 | 6LW-WC1-TB6 | 0.47 (11.9) | 0.25 (6.4) | 7/16 (11.1) | 3300 (227) |
| 1/2 | 0.049 | 6LW-WC1-TB8 | 0.53 (13.5) | 0.25 (6.4) | 9/16 (14.3) | 3700 (254) |

| T-Tube O.D. (mm) | t-Wall Thickness (mm) | Ordering Number | Dimension, mm (in.) | | | Working Pressure bar (psig) |
|------------------|-----------------------|-----------------|---------------------|------------|-------------|-----------------------------|
| | | | L | B | F | |
| 6 | 1.0 | 6LW-WC1-MTB6 | 10.4 (0.41) | 6.4 (0.25) | 7.9 (5/16) | 420 (6095) |
| 8 | 1.0 | 6LW-WC1-MTB8 | 11.9 (0.47) | 6.4 (0.25) | 11.1 (7/16) | 310 (4499) |
| 10 | 1.0 | 6LW-WC1-MTB10 | 11.9 (0.47) | 6.4 (0.25) | 11.1 (7/16) | 240 (3483) |
| 12 | 1.0 | 6LW-WC1-MTB12 | 13.5 (0.53) | 6.4 (0.25) | 14.3 (9/16) | 200 (2902) |

Tube Butt Weld Fittings

L Series

Features

- Sizes range from 1/4" to 1" and 6 mm to 18 mm.
- Radius junction design with elbows provides smooth flow path.
- Precisely finished diameter matches tube diameter.
- Standard surface finish is a roughness average of 10 µin. (0.25 µm) Ra. With 5 µin. (0.13 µm) Ra surface finish is available.
- Butt weld connection ensures system unhindered.
- Each fitting is stamped with size, material and heat code.



Materials

| Material | Bar Stock ^① | Forging ^② | Designator |
|-----------------|-------------------------|----------------------|------------|
| 316 SS | ASTM A479/A276 | ASTM A182/A314 | SS |
| 316L SS | | | 6L |
| 316L VAR SS | ASTM A479/A276 SEMI F20 | — | 6LV |
| 316L VIM-VAR SS | | | 6LW |

① Only for straight configurations.
 ② Includes all elbows, crosses, and tees.

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 Tubes and Pipe in page 11.

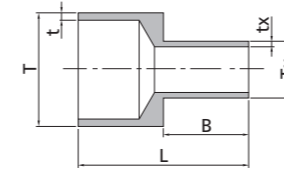
Ordering Information

- 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.
- 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-WU2-TB6-TB4.
- Special Cleaning and Packaging
 FC-02 special cleaning and packaging, following ASTM G93 level C, add -F2 as a suffix to the basic ordering number.
 Example: 6L-WU2-TB6-TB4-F2.
- Ultrahigh-purity Process Specification
 FC-03 ultrahigh-purity cleaning and packaging, Wetted surfaces are finished to 5 µin. (0.13 µm) Ra. add - F3 as a suffix to the basic ordering number.
 Example: 6LW-WU2-TB6-TB4-F3.

Cautions:

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

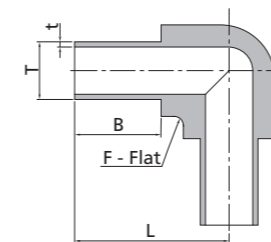
Reducing Unions



| T-Tube O.D. (in.) | t-Wall Thickness (in.) | Tx-Tube O.D. (in.) | tx-Wall Thickness (in.) | Ordering Number | Dimension, in. (mm) | | Working Pressure psig (bar) |
|-------------------|------------------------|--------------------|-------------------------|------------------|---------------------|-------------|-----------------------------|
| | | | | | L | B | |
| 3/8 | 0.035 | 1/4 | 0.035 | 6L-WU2-TB6-TB4 | 1.50 (38.1) | 0.75 (19.1) | 3300 (227) |
| 1/2 | 0.049 | 1/4 | 0.035 | 6L-WU2-TB8-TB4 | 1.50 (38.1) | 0.75 (19.1) | 3700 (254) |
| 1/2 | 0.049 | 3/8 | 0.035 | 6L-WU2-TB8-TB6 | 1.50 (38.1) | 0.75 (19.1) | 3300 (227) |
| 3/4 | 0.049 | 1/2 | 0.049 | 6L-WU2-TB12-TB8 | 1.50 (38.1) | 0.75 (19.1) | 2400 (165) |
| 1 | 0.065 | 1/2 | 0.049 | 6L-WU2-TB16-TB8 | 1.50 (38.1) | 0.75 (19.1) | 2400 (165) |
| 1 | 0.065 | 3/4 | 0.049 | 6L-WU2-TB16-TB12 | 1.50 (38.1) | 0.75 (19.1) | 2400 (165) |

| T-Tube O.D. (mm) | t-Wall Thickness (mm) | Tx-Tube O.D. (mm) | tx-Wall Thickness (mm) | Ordering Number | Dimension, mm (in.) | | Working Pressure bar (psig) |
|------------------|-----------------------|-------------------|------------------------|--------------------|---------------------|-------------|-----------------------------|
| | | | | | L | B | |
| 10 | 1.0 | 6 | 1.0 | 6L-WU2-MTB10-MTB6 | 38.1 (1.50) | 19.1 (0.75) | 240 (3483) |
| 10 | 1.0 | 8 | 1.0 | 6L-WU2-MTB10-MTB8 | 38.1 (1.50) | 19.1 (0.75) | 240 (3483) |
| 12 | 1.0 | 6 | 1.0 | 6L-WU2-MTB12-MTB6 | 38.1 (1.50) | 19.1 (0.75) | 200 (2902) |
| 12 | 1.0 | 8 | 1.0 | 6L-WU2-MTB12-MTB8 | 38.1 (1.50) | 19.1 (0.75) | 200 (2902) |
| 12 | 1.0 | 10 | 1.0 | 6L-WU2-MTB12-MTB10 | 38.1 (1.50) | 19.1 (0.75) | 200 (2902) |
| 18 | 1.5 | 6 | 1.5 | 6L-WU2-MTB18-MTB6 | 38.1 (1.50) | 19.1 (0.75) | 200 (2902) |
| 18 | 1.5 | 12 | 1.5 | 6L-WU2-MTB18-MTB12 | 38.1 (1.50) | 19.1 (0.75) | 200 (2902) |

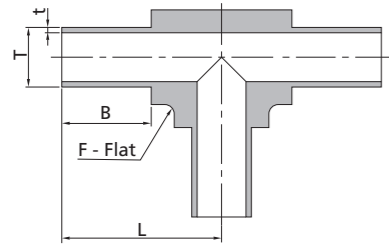
Union Elbows



| T-Tube O.D. (in.) | t-Wall Thickness (in.) | Ordering Number | Dimension, in. (mm) | | | Working Pressure psig (bar) |
|-------------------|------------------------|-----------------|---------------------|-------------|--------------|-----------------------------|
| | | | L | B | F | |
| 1/4 | 0.035 | 6L-WL2-TB4 | 1.23 (31.2) | 0.75 (19.1) | 7/16 (11.1) | 5100 (351) |
| 3/8 | 0.035 | 6L-WL2-TB6 | 1.20 (30.5) | 0.75 (19.1) | 7/16 (11.1) | 3300 (227) |
| 1/2 | 0.049 | 6L-WL2-TB8 | 1.34 (34.0) | 0.75 (19.1) | 11/16 (17.5) | 3700 (254) |
| 3/4 | 0.049 | 6L-WL2-TB12 | 1.46 (37.1) | 0.75 (19.1) | 15/16 (23.8) | 2400 (165) |

| T-Tube O.D. (mm) | t-Wall Thickness (mm) | Ordering Number | Dimension, mm (in.) | | | Working Pressure bar (psig) |
|------------------|-----------------------|-----------------|---------------------|-------------|--------------|-----------------------------|
| | | | L | B | F | |
| 6 | 1.0 | 6L-WL2-MTB6 | 31.2 (1.23) | 19.1 (0.75) | 11.1 (7/16) | 420 (6095) |
| 8 | 1.0 | 6L-WL2-MTB8 | 31.2 (1.23) | 19.1 (0.75) | 11.1 (7/16) | 310 (4499) |
| 10 | 1.0 | 6L-WL2-MTB10 | 34.0 (1.34) | 19.1 (0.75) | 17.5 (11/16) | 240 (3483) |
| 12 | 1.0 | 6L-WL2-MTB12 | 34.0 (1.34) | 19.1 (0.75) | 17.5 (11/16) | 200 (2902) |
| 18 | 1.5 | 6L-WL2-MTB18 | 37.6 (1.48) | 19.1 (0.75) | 23.8 (15/16) | 200 (2902) |

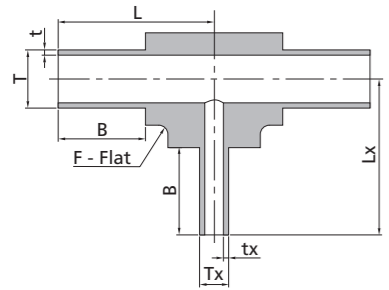
Union Tees



| T-Tube O.D. (in.) | t-Wall Thickness (in.) | Ordering Number | Dimension, in. (mm) | | | Working Pressure psig (bar) |
|-------------------|------------------------|-----------------|---------------------|-------------|--------------|-----------------------------|
| | | | L | B | F | |
| 1/4 | 0.035 | 6L-WT2-TB4 | 1.23 (31.2) | 0.75 (19.1) | 7/16 (11.1) | 5100 (351) |
| 3/8 | 0.035 | 6L-WT2-TB6 | 1.20 (30.5) | 0.75 (19.1) | 7/16 (11.1) | 3300 (227) |
| 1/2 | 0.049 | 6L-WT2-TB8 | 1.34 (34.0) | 0.75 (19.1) | 11/16 (17.5) | 3700 (254) |
| 3/4 | 0.049 | 6L-WT2-TB12 | 1.46 (37.1) | 0.75 (19.1) | 15/16 (23.8) | 2400 (165) |

| T-Tube O.D. (mm) | t-Wall Thickness (mm) | Ordering Number | Dimension, mm (in.) | | | Working Pressure bar (psig) |
|------------------|-----------------------|-----------------|---------------------|-------------|--------------|-----------------------------|
| | | | L | B | F | |
| 6 | 1.0 | 6L-WT2-MTB6 | 31.2 (1.23) | 19.1 (0.75) | 11.1 (7/16) | 420 (6095) |
| 8 | 1.0 | 6L-WT2-MTB8 | 31.2 (1.23) | 19.1 (0.75) | 11.1 (7/16) | 310 (4499) |
| 10 | 1.0 | 6L-WT2-MTB10 | 34.0 (1.34) | 19.1 (0.75) | 17.5 (11/16) | 240 (3483) |
| 12 | 1.0 | 6L-WT2-MTB12 | 34.0 (1.34) | 19.1 (0.75) | 17.5 (11/16) | 200 (2902) |
| 18 | 1.5 | 6L-WT2-MTB18 | 37.6 (1.48) | 19.1 (0.75) | 23.8 (15/16) | 200 (2902) |

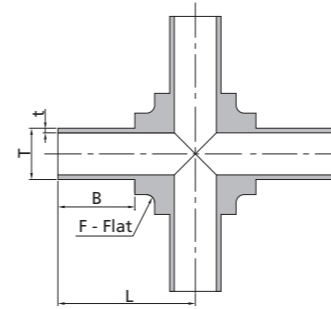
Reducing Tees



| T-Tube O.D. (in.) | t-Wall Thickness (in.) | Tx-Tube O.D. (in.) | tx-Wall Thickness (in.) | Ordering Number | Dimension, in. (mm) | | | | Working Pressure psig (bar) |
|-------------------|------------------------|--------------------|-------------------------|----------------------|---------------------|-------------|-------------|--------------|-----------------------------|
| | | | | | L | Lx | B | F | |
| 3/8 | 0.035 | 1/4 | 0.035 | 6L-WT2-TB6-TB6-TB4 | 1.20 (30.5) | 1.23 (31.2) | 0.75 (19.1) | 7/16 (11.1) | 3300 (227) |
| 1/2 | 0.049 | 1/4 | 0.035 | 6L-WT2-TB8-TB8-TB4 | 1.34 (34.0) | 1.34 (34.0) | 0.75 (19.1) | 11/16 (17.5) | 3700 (254) |
| 1/2 | 0.049 | 3/8 | 0.035 | 6L-WT2-TB8-TB8-TB6 | 1.34 (34.0) | 1.35 (34.3) | 0.75 (19.1) | 11/16 (17.5) | 3700 (254) |
| 3/4 | 0.049 | 1/4 | 0.035 | 6L-WT2-TB12-TB12-TB4 | 1.46 (37.1) | 1.48 (37.6) | 0.75 (19.1) | 15/16 (23.8) | 2400 (165) |
| 3/4 | 0.049 | 3/8 | 0.035 | 6L-WT2-TB12-TB12-TB6 | 1.46 (37.1) | 1.35 (34.3) | 0.75 (19.1) | 15/16 (23.8) | 2400 (165) |

| T-Tube O.D. (mm) | t-Wall Thickness (mm) | Tx-Tube O.D. (mm) | tx-Wall Thickness (mm) | Ordering Number | Dimension, mm (in.) | | | | Working Pressure bar (psig) |
|------------------|-----------------------|-------------------|------------------------|-------------------------|---------------------|-------------|-------------|--------------|-----------------------------|
| | | | | | L | Lx | B | F | |
| 8 | 1.0 | 6 | 1.0 | 6L-WT2-MTB8-MTB8-MTB6 | 31.3 (1.23) | 31.3 (1.23) | 19.1 (0.75) | 11.1 (7/16) | 310 (4499) |
| 10 | 1.0 | 6 | 1.0 | 6L-WT2-MTB10-MTB10-MTB6 | 34.0 (1.34) | 34.0 (1.34) | 19.1 (0.75) | 17.5 (11/16) | 240 (3483) |
| 10 | 1.0 | 8 | 1.0 | 6L-WT2-MTB10-MTB10-MTB8 | 34.0 (1.34) | 34.0 (1.34) | 19.1 (0.75) | 17.5 (11/16) | 240 (3483) |
| 12 | 1.0 | 6 | 1.0 | 6L-WT2-MTB12-MTB12-MTB6 | 34.0 (1.34) | 34.0 (1.34) | 19.1 (0.75) | 17.5 (11/16) | 200 (2902) |
| 12 | 1.0 | 8 | 1.0 | 6L-WT2-MTB12-MTB12-MTB8 | 34.0 (1.34) | 34.0 (1.34) | 19.1 (0.75) | 17.5 (11/16) | 200 (2902) |

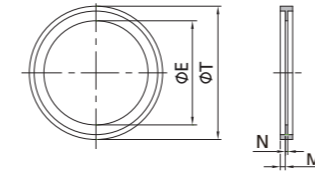
Union Crosses



| T-Tube O.D. (in.) | t-Wall Thickness (in.) | Ordering Number | Dimension, in. (mm) | | | Working Pressure psig (bar) |
|-------------------|------------------------|-----------------|---------------------|-------------|--------------|-----------------------------|
| | | | L | B | F | |
| 1/4 | 0.035 | 6L-WC2-TB4 | 1.23 (31.2) | 0.75 (19.1) | 7/16 (11.1) | 5100 (351) |
| 3/8 | 0.035 | 6L-WC2-TB6 | 1.20 (30.5) | 0.75 (19.1) | 7/16 (11.1) | 3300 (227) |
| 1/2 | 0.049 | 6L-WC2-TB8 | 1.34 (34.0) | 0.75 (19.1) | 11/16 (17.5) | 3700 (254) |

| T-Tube O.D. (mm) | t-Wall Thickness (mm) | Ordering Number | Dimension, mm (in.) | | | Working Pressure bar (psig) |
|------------------|-----------------------|-----------------|---------------------|-------------|-------------|-----------------------------|
| | | | L | B | F | |
| 6 | 1.0 | 6L-WC2-MTB6 | 31.2 (1.23) | 19.1 (0.75) | 11.1 (7/16) | 420 (6095) |
| 8 | 1.0 | 6L-WC2-MTB8 | 31.2 (1.23) | 19.1 (0.75) | 11.1 (7/16) | 310 (4499) |
| 10 | 1.0 | 6L-WC2-MTB10 | 34.0 (1.34) | 19.1 (0.75) | 15.9 (5/8) | 240 (3483) |
| 12 | 1.0 | 6L-WC2-MTB12 | 34.0 (1.34) | 19.1 (0.75) | 15.9 (5/8) | 200 (2902) |

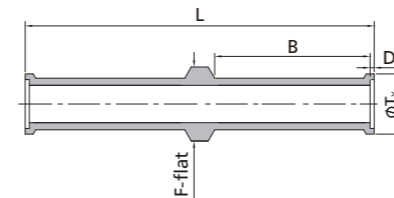
Weld Rings



| T-Tube O.D. (in.) | Ordering Number | Dimension, in. (mm) | | | |
|-------------------|-----------------|---------------------|-------------|-------------|-------------|
| | | E | M | N | T |
| 1/4 | 6L-WR-4 | 0.20 (5.1) | 0.02 (0.51) | 0.01 (0.25) | 0.28 (7.1) |
| 3/8 | 6L-WR-6 | 0.32 (8.1) | 0.02 (0.51) | 0.01 (0.25) | 0.41 (10.4) |
| 1/2 | 6L-WR-8 | 0.42 (10.7) | 0.02 (0.51) | 0.01 (0.25) | 0.54 (13.7) |

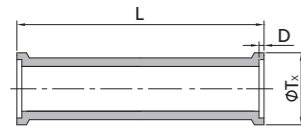
Automatic Tube Butt Weld Fittings

Locator Unions



| T-Tube O.D. (in.) | Wall (in.) | Ordering Number | Dimension, in. (mm) | | | | | Working Pressure psig (bar) |
|-------------------|------------|-----------------|---------------------|-------------|-------------|-------------|-------------|-----------------------------|
| | | | L | B | D | F | Tx | |
| 1/4 | 0.035 | 6L-WU2-L-TB4A | 1.69 (42.9) | 0.75 (19.1) | 0.02 (0.51) | 0.36 (9.1) | 0.29 (7.4) | 5100 (351) |
| 3/8 | 0.035 | 6L-WU2-L-TB6A | 1.71 (43.4) | 0.75 (19.1) | 0.03 (0.76) | 0.42 (10.7) | 0.41 (10.4) | 3300 (227) |
| 1/2 | 0.049 | 6L-WU2-L-TB8A | 1.73 (43.9) | 0.75 (19.1) | 0.04 (1.0) | 0.60 (15.2) | 0.55 (14.0) | 3700 (254) |

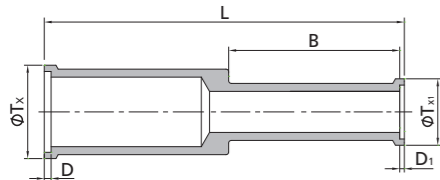
Unions



| T-Tube O.D. (in.) | Wall (in.) | Ordering Number | Dimension, in. (mm) | | | Working Pressure psig (bar) |
|-------------------|------------|-----------------|---------------------|------------|----------------|-----------------------------|
| | | | L | D | T _x | |
| 1/4 | 0.035 | 6L-WU2-TB4A | 1.00 (25.4) | 0.02 (0.5) | 0.29 (7.4) | 5100 (351) |
| 3/8 | 0.035 | 6L-WU2-TB6A | 1.00 (25.4) | 0.03 (0.8) | 0.41 (10.4) | 3300 (227) |
| 1/2 | 0.049 | 6L-WU2-TB8A | 1.00 (25.4) | 0.04 (1.0) | 0.55 (14.0) | 3700 (254) |
| 3/4 | 0.049 | 6L-WU2-TB12A | 1.00 (25.4) | 0.04 (1.0) | 0.80 (20.3) | 2400 (165) |
| 1 | 0.065 | 6L-WU2-TB16A | 1.25 (31.8) | 0.04 (1.0) | 1.06 (26.9) | 2400 (165) |

| T-Tube O.D. (in.) | Wall (in.) | Ordering Number | Dimension, mm (in.) | | | Working Pressure bar (psig) |
|-------------------|------------|-----------------|---------------------|------------|----------------|-----------------------------|
| | | | L | D | T _x | |
| 6 | 1 | 6L-WU2-MTB6A | 31.8 (1.25) | 0.5 (0.02) | 6.9 (0.27) | 420 (6095) |
| 8 | 1 | 6L-WU2-MTB8A | 31.8 (1.25) | 0.8 (0.03) | 8.9 (0.35) | 310 (4499) |
| 10 | 1 | 6L-WU2-MTB10A | 31.8 (1.25) | 0.8 (0.03) | 10.9 (0.43) | 240 (3483) |
| 12 | 1 | 6L-WU2-MTB12A | 31.8 (1.25) | 1.0 (0.04) | 13.2 (0.52) | 200 (2902) |
| 18 | 1.5 | 6L-WU2-MTB18A | 31.8 (1.25) | 1.0 (0.04) | 19.3 (0.76) | 200 (2902) |

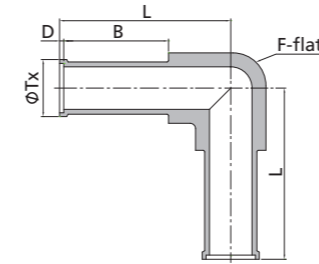
Reducing Unions



| T-Tube O.D. (in.) | Wall (in.) | T-Tube O.D. (in.) | Wall (in.) | Ordering Number | Dimension, in. (mm) | | | | | | Working Pressure psig (bar) |
|-------------------|------------|-------------------|------------|------------------|---------------------|-------------|------------|----------------|----------------|-----------------|-----------------------------|
| | | | | | L | B | D | D ₁ | T _x | T _{x1} | |
| 3/8 | 0.035 | 1/4 | 0.035 | 6L-WU2-TB6A-TB4A | 1.58 (40.1) | 0.75 (19.1) | 0.03 (0.8) | 0.02 (0.5) | 0.41 (10.4) | 0.29 (7.4) | 3300 (227) |
| 1/2 | 0.049 | 1/4 | 0.035 | 6L-WU2-TB8A-TB4A | 1.58 (40.1) | 0.75 (19.1) | 0.04 (1.0) | 0.02 (0.5) | 0.55 (14.0) | 0.29 (7.4) | 3700 (254) |
| 1/2 | 0.049 | 3/8 | 0.035 | 6L-WU2-TB8A-TB6A | 1.58 (40.1) | 0.75 (19.1) | 0.04 (1.0) | 0.03 (0.8) | 0.55 (14.0) | 0.41 (10.4) | 3300 (227) |

| T-Tube O.D. (mm) | Wall (mm) | T-Tube O.D. (mm) | Wall (mm) | Ordering Number | Dimension, mm (in.) | | | | | | Working Pressure bar (psig) |
|------------------|-----------|------------------|-----------|---------------------|---------------------|-------------|------------|----------------|----------------|-----------------|-----------------------------|
| | | | | | L | B | D | D ₁ | T _x | T _{x1} | |
| 8 | 1 | 6 | 1 | 6L-WU2-MTB8A-MTB6A | 39.9 (1.57) | 19.1 (0.75) | 0.8 (0.03) | 0.5 (0.02) | 8.9 (0.35) | 6.8 (0.27) | 310 (4499) |
| 12 | 1 | 6 | 1 | 6L-WU2-MTB12A-MTB6A | 40.1 (1.58) | 19.1 (0.75) | 1.0 (0.04) | 0.5 (0.02) | 13.2 (0.52) | 6.8 (0.27) | 200 (2902) |
| 12 | 1 | 8 | 1 | 6L-WU2-MTB12A-MTB8A | 40.4 (1.59) | 19.1 (0.75) | 1.0 (0.04) | 0.8 (0.03) | 13.2 (0.52) | 8.9 (0.35) | 200 (2902) |

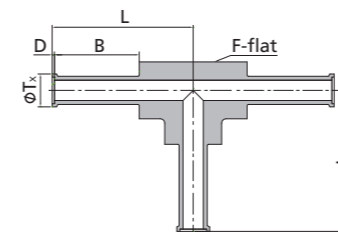
90° Union Elbows



| T-Tube O.D. (in.) | t-Wall Thickness (in.) | Ordering Number | Dimension, in. (mm) | | | | | Working Pressure psig (bar) |
|-------------------|------------------------|-----------------|---------------------|-------------|------------|--------------|----------------|-----------------------------|
| | | | L | B | D | F | T _x | |
| 1/4 | 0.035 | 6L-WL2-TB4A | 1.25 (31.8) | 0.75 (19.1) | 0.02 (0.5) | 7/16 (11.1) | 0.29 (7.4) | 5100 (351) |
| 3/8 | 0.035 | 6L-WL2-TB6A | 1.23 (31.2) | 0.75 (19.1) | 0.03 (0.8) | 7/16 (11.1) | 0.41 (10.4) | 3300 (227) |
| 1/2 | 0.049 | 6L-WL2-TB8A | 1.38 (35.1) | 0.75 (19.1) | 0.04 (1.0) | 11/16 (17.5) | 0.55 (14.0) | 3700 (254) |
| 3/4 | 0.049 | 6L-WL2-TB12A | 1.50 (38.1) | 0.75 (19.1) | 0.04 (1.0) | 15/16 (23.8) | 0.80 (20.3) | 2400 (165) |

| T-Tube O.D. (mm) | t-Wall Thickness (mm) | Ordering Number | Dimension, mm (in.) | | | | | Working Pressure bar (psig) |
|------------------|-----------------------|-----------------|---------------------|-------------|------------|--------------|----------------|-----------------------------|
| | | | L | B | D | F | T _x | |
| 6 | 1 | 6L-WL2-MTB6A | 31.8 (1.25) | 19.1 (0.75) | 0.5 (0.02) | 11.1 (7/16) | 6.9 (0.27) | 351 (5100) |
| 8 | 1 | 6L-WL2-MTB8A | 32.0 (1.26) | 19.1 (0.75) | 0.8 (0.03) | 11.1 (7/16) | 8.9 (0.35) | 227 (3300) |
| 10 | 1 | 6L-WL2-MTB10A | 34.8 (1.37) | 19.1 (0.75) | 0.8 (0.03) | 17.5 (11/16) | 10.9 (0.43) | 254 (3700) |
| 12 | 1 | 6L-WL2-MTB12A | 35.1 (1.38) | 19.1 (0.75) | 1.0 (0.04) | 17.5 (11/16) | 13.2 (0.52) | 199 (2888) |
| 18 | 1.5 | 6L-WL2-MTB18A | 38.6 (1.52) | 19.1 (0.75) | 1.0 (0.04) | 23.8 (15/16) | 19.3 (0.76) | 206 (2989) |

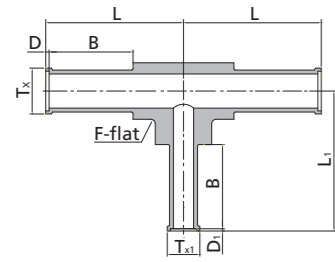
Union Tees



| T-Tube O.D. (in.) | t-Wall Thickness (in.) | Ordering Number | Dimension, in. (mm) | | | | | Working Pressure psig (bar) |
|-------------------|------------------------|-----------------|---------------------|-------------|------------|--------------|----------------|-----------------------------|
| | | | L | B | D | F | T _x | |
| 1/4 | 0.035 | 6L-WT2-TB4A | 1.25 (31.8) | 0.75 (19.1) | 0.02 (0.5) | 7/16 (11.1) | 0.29 (7.4) | 5100 (351) |
| 3/8 | 0.035 | 6L-WT2-TB6A | 1.23 (31.2) | 0.75 (19.1) | 0.03 (0.8) | 7/16 (11.1) | 0.41 (10.4) | 3300 (227) |
| 1/2 | 0.049 | 6L-WT2-TB8A | 1.38 (35.1) | 0.75 (19.1) | 0.04 (1.0) | 11/16 (17.5) | 0.55 (14.0) | 3500 (241) |
| 3/4 | 0.049 | 6L-WT2-TB12A | 1.50 (38.1) | 0.75 (19.1) | 0.04 (1.0) | 15/16 (23.8) | 0.80 (20.3) | 2400 (165) |

| T-Tube O.D. (mm) | t-Wall Thickness (mm) | Ordering Number | Dimension, mm (in.) | | | | | Working Pressure bar (psig) |
|------------------|-----------------------|-----------------|---------------------|-------------|------------|--------------|----------------|-----------------------------|
| | | | L | B | D | F | T _x | |
| 6 | 1 | 6L-WT2-MTB6A | 31.8 (1.25) | 19.1 (0.75) | 0.5 (0.02) | 11.1 (7/16) | 6.9 (0.27) | 454 (6589) |
| 8 | 1 | 6L-WT2-MTB8A | 32.0 (1.26) | 19.1 (0.75) | 0.8 (0.03) | 11.1 (7/16) | 8.9 (0.35) | 323 (4687) |
| 10 | 1 | 6L-WT2-MTB10A | 34.8 (1.37) | 19.1 (0.75) | 0.8 (0.03) | 17.5 (11/16) | 10.9 (0.43) | 254 (3686) |
| 12 | 1 | 6L-WT2-MTB12A | 35.1 (1.38) | 19.1 (0.75) | 1.0 (0.04) | 17.5 (11/16) | 13.2 (0.52) | 206 (2989) |
| 18 | 1.5 | 6L-WT2-MTB18A | 38.6 (1.52) | 19.1 (0.75) | 1.0 (0.04) | 23.8 (15/16) | 19.3 (0.76) | 206 (2989) |

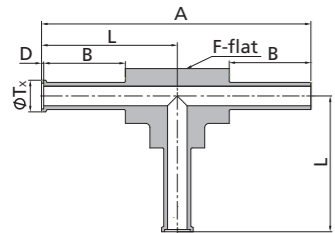
Reducing Tees



| T-Tube O.D. (in.) | Wall (in.) | T-Tube O.D. (in.) | Wall (in.) | Ordering Number | Dimension, in. (mm) | | | | | | | Working Pressure psig (bar) | |
|-------------------|------------|-------------------|------------|-------------------------|---------------------|------------|------------|-----------|-----------|----------------|-----------------|-----------------------------|------------|
| | | | | | L | L1 | B | D | D1 | T _x | T _{x1} | | F |
| 3/8 | 0.035 | 1/4 | 0.035 | 6L-WT2-TB6A-TB6A-TB4A | 1.23(31.2) | 1.25(31.8) | 0.75(19.1) | 0.03(0.8) | 0.02(0.5) | 0.41(10.4) | 0.29(7.4) | 7/16(11.1) | 3300 (227) |
| 1/2 | 0.049 | 1/4 | 0.035 | 6L-WT2-TB8A-TB8A-TB4A | 1.38(35.1) | 1.38(35.1) | 0.75(19.1) | 0.04(1.0) | 0.02(0.5) | 0.55(14.0) | 0.29(7.4) | 11/16(17.5) | 3700 (254) |
| 1/2 | 0.049 | 3/8 | 0.035 | 6L-WT2-TB8A-TB8A-TB6A | 1.38(35.1) | 1.37(34.8) | 0.75(19.1) | 0.04(1.0) | 0.03(0.8) | 0.55(14.0) | 0.41(10.4) | 11/16(17.5) | 3300 (227) |
| 3/4 | 0.049 | 3/8 | 0.035 | 6L-WT2-TB12A-TB12A-TB6A | 1.50(38.1) | 1.50(38.1) | 0.75(19.1) | 0.04(1.0) | 0.03(0.8) | 0.80(20.3) | 0.41(10.4) | 15/16(23.8) | 2400 (165) |
| 3/4 | 0.049 | 1/2 | 0.049 | 6L-WT2-TB12A-TB12A-TB8A | 1.50(38.1) | 1.50(38.1) | 0.75(19.1) | 0.04(1.0) | 0.04(1.0) | 0.80(20.3) | 0.55(14.0) | 15/16(23.8) | 2400 (165) |

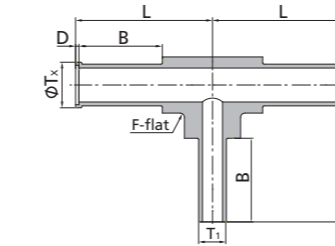
| T-Tube O.D. (mm) | Wall (mm) | T-Tube O.D. (mm) | Wall (mm) | Ordering Number | Dimension, mm (in.) | | | | | | | Working Pressure bar (psig) | |
|------------------|-----------|------------------|-----------|----------------------------|---------------------|------------|------------|-----------|-----------|----------------|-----------------|-----------------------------|------------|
| | | | | | L | L1 | B | D | D1 | T _x | T _{x1} | | F |
| 12 | 1 | 6 | 1 | 6L-WT2-MTB12A-MTB12A-MTB6A | 35.1(1.38) | 34.5(1.36) | 19.1(0.75) | 0.5(0.02) | 0.5(0.02) | 13.2(0.52) | 6.9(0.27) | 17.5(11/16) | 200 (2902) |

Manifold Tees



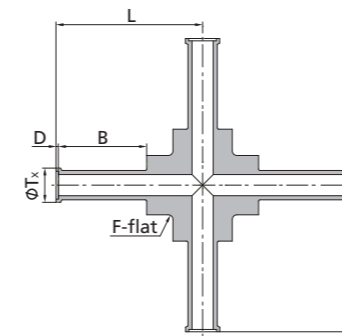
| T-Tube O.D. (in.) | Wall (in.) | Ordering Number | Dimension, in. (mm) | | | | | Working Pressure psig (bar) | |
|-------------------|------------|-----------------------|---------------------|-------------|-------------|------------|--------------|-----------------------------|----------------|
| | | | A | L | B | D | F | | T _x |
| 1/4 | 0.035 | 6L-WT2-TB4A-TB4A-TB4A | 2.48 (63.0) | 1.25 (31.8) | 0.75 (19.1) | 0.02 (0.5) | 7/16 (11.1) | 0.29 (7.4) | 5100 (351) |
| 3/8 | 0.035 | 6L-WT2-TB6A-TB6A-TB6A | 2.43 (61.7) | 1.23 (31.2) | 0.75 (19.1) | 0.03 (0.8) | 11/16 (17.5) | 0.41 (10.4) | 3300 (227) |
| 1/2 | 0.049 | 6L-WT2-TB8A-TB8A-TB8A | 2.72 (69.1) | 1.38 (35.1) | 0.75 (19.1) | 0.04 (1.0) | 11/16 (17.5) | 0.55 (14.0) | 3700 (254) |

Reducing Tees



| T-Tube O.D. (in.) | Wall (in.) | T-Tube O.D. (in.) | Wall (in.) | Ordering Number | Dimension, in. (mm) | | | | | | Working Pressure psig (bar) |
|-------------------|------------|-------------------|------------|----------------------|---------------------|-------------|-------------|------------|----------------|--------------|-----------------------------|
| | | | | | L | L1 | B | D | T _x | F | |
| 3/8 | 0.035 | 1/4 | 0.035 | 6L-WT2-TB6A-TB6A-TB4 | 1.23 (31.2) | 1.23 (31.2) | 0.75 (19.1) | 0.03 (0.8) | 0.41 (10.4) | 7/16 (11.1) | 3300 (227) |
| 1/2 | 0.049 | 1/4 | 0.035 | 6L-WT2-TB8A-TB8A-TB4 | 1.38 (35.1) | 1.36 (34.5) | 0.75 (19.1) | 0.04 (1.0) | 0.55 (14.0) | 11/16 (17.5) | 3700 (254) |
| 1/2 | 0.049 | 3/8 | 0.035 | 6L-WT2-TB8A-TB8A-TB6 | 1.38 (35.1) | 1.35 (34.3) | 0.75 (19.1) | 0.04 (1.0) | 0.55 (14.0) | 11/16 (17.5) | 3300 (227) |

Union Crosses



| T-Tube O.D. (in.) | Wall (in.) | Ordering Number | Dimension, in. (mm) | | | | Working Pressure psig (bar) | |
|-------------------|------------|-----------------|---------------------|-------------|------------|-------------|-----------------------------|----------------|
| | | | L | B | D | F | | T _x |
| 1/4 | 0.035 | 6L-WC2-TB4A | 1.25 (31.8) | 0.75 (19.1) | 0.02 (0.5) | 7/16 (11.1) | 0.29 (7.4) | 5100 (351) |
| 3/8 | 0.035 | 6L-WC2-TB6A | 1.23 (31.2) | 0.75 (19.1) | 0.03 (0.8) | 7/16 (11.1) | 0.41 (10.4) | 3300 (227) |
| 1/2 | 0.049 | 6L-WC2-TB8A | 1.35 (34.3) | 0.75 (19.1) | 0.04 (1.0) | 5/8 (17.5) | 0.55 (14.0) | 3700 (254) |

| T-Tube O.D. (mm) | Wall (mm) | Ordering Number | Dimension, mm (in.) | | | | Working Pressure bar (psig) | |
|------------------|-----------|-----------------|---------------------|-------------|------------|-------------|-----------------------------|----------------|
| | | | L | B | D | F | | T _x |
| 6 | 1 | 6L-WC2-MTB6A | 31.8 (1.25) | 19.1 (0.75) | 0.5 (0.02) | 11.1 (7/16) | 6.9 (0.27) | 420 (6095) |
| 8 | 1 | 6L-WC2-MTB8A | 31.8 (1.25) | 19.1 (0.75) | 0.8 (0.03) | 11.1 (7/16) | 8.9 (0.35) | 310 (4499) |