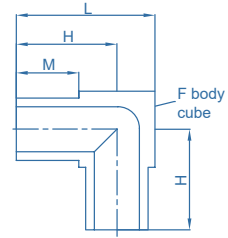


Union Elbow

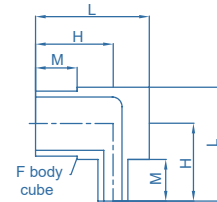


| Tube OD in. | Wall Thickness in. | Ordering Number | Dimensions, in.(mm) | | | | Working Pressure psig (bar) |
|-------------|--------------------|--------------------------|---------------------|---------------|-------|-------------|-----------------------------|
| | | | L | M | F | H | |
| 1/8 | 0.028 | VMW-UE2 VMW-UE2-SLV | 0.56 (14.2) | 0.25 (6.4) | 5/16 | 0.41 (10.4) | 8500 (585) |
| 1/4 | 0.035 | VMW-UE4 VMW-UE4-SLV | 0.56 (14.2) | | 5/16 | 0.41 (10.4) | 5100 (351) |
| 3/8 | 0.035 | VMW-UE6 VMW-UE6-SLV | 0.69 (17.5) | | 7/16 | 0.47 (11.9) | 3300 (227) |
| 1/2 | 0.049 | VMW-UE8 VMW-UE8-SLV | 0.81 (20.6) | | 9/16 | 0.53 (13.5) | 3700 (254) |
| 3/4 | 0.065 | VMW-UE12 VMW-UE12-SLV | 1.06 (27.0) | | 13/16 | 0.66 (16.6) | 2400 (165) |

* To order fittings manufactured for Surface Finish Ra(Average)<0.4 add BA to the ordering number. Example: VMW-UE6-BA

* Default process spec: VS001B. If ordering VS001A-spec fittings for VIGOUR Ultra-High Purity Products, add "P" to the order number. Example: VMW-UE4-P

Reducing Elbow



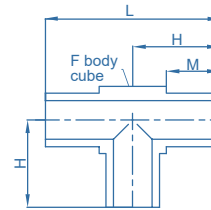
| Tube OD in. | Wall Thickness in. | Tube OD in. | Wall Thickness in. | Ordering Number | Dimensions, in.(mm) | | | | Working Pressure psig (bar) |
|-------------|--------------------|-------------|--------------------|------------------------------|---------------------|---------------|-------------|-------------|-----------------------------|
| | | | | | L | M | F | H | |
| 1/4 | 0.035 | 1/8 | 0.028 | VMW-RE4-2 VMW-RE4-2-SLV | 0.56 (14.2) | 0.25 (6.4) | 5/16 | 0.41 (10.3) | 3300 (227) |
| 3/8 | 0.035 | 1/4 | 0.035 | VMW-RE6-4 VMW-RE6-4-SLV | 0.69 (17.5) | | 7/16 | 0.47 (11.9) | 3300 (227) |
| 1/2 | 0.049 | 1/4 | 0.035 | VMW-RE8-4 VMW-RE8-4-SLV | 0.81 (20.6) | | 9/16 | 0.53 (13.5) | 3700 (254) |
| 1/2 | 0.049 | 3/8 | 0.035 | VMW-RE8-6 VMW-RE8-6-SLV | 0.81 (20.6) | | 9/16 | 0.53 (13.5) | 3300 (227) |
| 3/4 | 0.065 | 1/4 | 0.035 | VMW-RE12-4 VMW-RE12-4-SLV | 1.05 (26.9) | | 13/16 | 0.65 (16.6) | 2400 (165) |
| 3/4 | 0.065 | 3/8 | 0.035 | VMW-RE12-6 VMW-RE12-6-SLV | 1.05 (26.9) | 13/16 | 0.65 (16.6) | 2400 (165) | |
| 3/4 | 0.065 | 1/2 | 0.049 | VMW-RE12-8 VMW-RE12-8-SLV | 1.05 (26.9) | 13/16 | 0.65 (16.6) | 2400 (165) | |

* To order fittings manufactured for Surface Finish Ra(Average)<0.4 add BA to the ordering number. Example: VMW-RE6-4-BA

* Default process spec: VS001B. If ordering VS001A-spec fittings for VIGOUR Ultra-High Purity Products, add "P" to the order number. Example: VMW-RE4-2-P



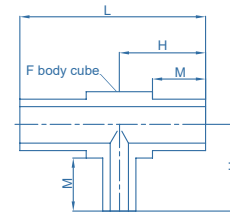
Union Tee



| Tube OD in. | Wall Thickness in. | Ordering Number | Dimensions, in.(mm) | | | | Working Pressure psig (bar) |
|-------------|--------------------|--------------------------|---------------------|------------|-------|-------------|-----------------------------|
| | | | L | M | F | H | |
| 1/8 | 0.028 | VMW-UT2 VMW-UT2-SLV | 0.82 (20.8) | 0.25 (6.4) | 5/16 | 0.41 (10.4) | 8500 (585) |
| 1/4 | 0.035 | VMW-UT4 VMW-UT4-SLV | 0.82 (20.8) | | 5/16 | 0.41 (10.4) | 5100 (351) |
| 3/8 | 0.035 | VMW-UT6 VMW-UT6-SLV | 0.94 (23.9) | 0.25 (6.4) | 7/16 | 0.47 (11.9) | 3300 (227) |
| 1/2 | 0.049 | VMW-UT8 VMW-UT8-SLV | 1.06 (26.9) | | 9/16 | 0.53 (13.5) | 3700 (254) |
| 3/4 | 0.065 | VMW-UT12 VMW-UT12-SLV | 1.31 (33.3) | | 13/16 | 0.65 (16.6) | 2400 (165) |

* Default process spec: VS001B. If ordering VS001A-spec fittings for VIGOUR Ultra-High Purity Products, add "P" to the order number. Example: VMW-UT4-P

Reducing Tee



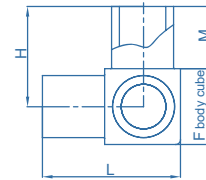
| Tube OD in. | Wall Thickness in. | Tube OD in. | Wall Thickness in. | Ordering Number | Dimensions, in.(mm) | | | | Working Pressure psig (bar) |
|-------------|--------------------|-------------|--------------------|------------------------------|---------------------|------------|-------|-------------|-----------------------------|
| | | | | | L | M | F | H | |
| 1/4 | 0.035 | 1/8 | 0.028 | VMW-RT4-2 VMW-RT4-2-SLV | 0.81 (20.6) | 0.25 (6.4) | 5/16 | 0.41 (10.3) | 3300 (227) |
| 3/8 | 0.035 | 1/4 | 0.035 | VMW-RT6-4 VMW-RT6-4-SLV | 0.94 (23.9) | | 7/16 | 0.47 (11.9) | 3300 (227) |
| 1/2 | 0.049 | 1/4 | 0.035 | VMW-RT8-4 VMW-RT8-4-SLV | 1.06 (26.9) | 0.25 (6.4) | 9/16 | 0.53 (13.5) | 3700 (254) |
| 1/2 | 0.049 | 3/8 | 0.035 | VMW-RT8-6 VMW-RT8-6-SLV | 1.06 (26.9) | | 9/16 | 0.53 (13.5) | 3300 (227) |
| 3/4 | 0.065 | 1/4 | 0.035 | VMW-RT12-4 VMW-RT12-4-SLV | 1.31 (33.3) | | 13/16 | 0.65 (16.6) | 2400 (165) |
| 3/4 | 0.065 | 3/8 | 0.035 | VMW-RT12-6 VMW-RT12-6-SLV | 1.31 (33.3) | | 13/16 | 0.65 (16.6) | 2400 (165) |
| 3/4 | 0.065 | 1/2 | 0.049 | VMW-RT12-8 VMW-RT12-8-SLV | 1.31 (33.3) | | 13/16 | 0.65 (16.6) | 2400 (165) |

* To order fittings manufactured for Surface Finish Ra(Average) < 0.4 add BA to the ordering number. Example: VMW-RT6-4-BA

* Default process spec: VS001B. If ordering VS001A-spec fittings for VIGOUR Ultra-High Purity Products, add "P" to the order number. Example: VMW-RT4-2-P



Tribow

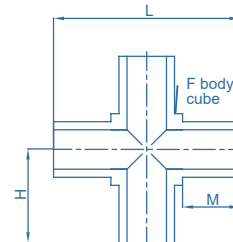


| Tube OD in. | Wall Thickness in. | Ordering Number | Dimensions, in.(mm) | | | | Working Pressure psig (bar) |
|-------------|--------------------|--------------------------|---------------------|---------------|-------|-------------|-----------------------------|
| | | | L | M | F | H | |
| 1/4 | 0.035 | VMW-TB4 VMW-TB4-SLV | 0.56 (14.2) | 0.25 (6.4) | 5/16 | 0.41 (10.4) | 5100 (351) |
| 3/8 | 0.035 | VMW-TB6 VMW-TB6-SLV | 0.69 (17.5) | | 7/16 | 0.47 (11.9) | 3300 (227) |
| 1/2 | 0.049 | VMW-TB8 VMW-TB8-SLV | 0.81 (20.6) | | 9/16 | 0.53 (13.5) | 3700 (254) |
| 3/4 | 0.065 | VMW-TB12 VMW-TB12-SLV | 1.06 (26.9) | | 13/16 | 0.65 (16.6) | 2400 (165) |

* To order fittings manufactured for Surface Finish Ra(Average)<0.4 add BA to the ordering number. Example: VMW-TB6-BA

* Default process spec: VS001B. If ordering VS001A-spec fittings for VIGOUR Ultra-High Purity Products, add "P" to the order number. Example: VMW-TB4-P

Cross Union



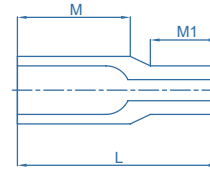
| Tube OD in. | Wall Thickness in. | Ordering Number | Dimensions, in.(mm) | | | | Working Pressure psig (bar) |
|-------------|--------------------|------------------------|---------------------|---------------|------|-------------|-----------------------------|
| | | | L | M | F | H | |
| 1/8 | 0.028 | VMW-CU2 VMW-CU2-SLV | 0.82 (20.8) | 0.25 (6.4) | 5/16 | 0.41 (10.4) | 8500 (585) |
| 1/4 | 0.035 | VMW-CU4 VMW-CU4-SLV | 0.82 (20.8) | | 5/16 | 0.41 (10.4) | 5100 (351) |
| 3/8 | 0.035 | VMW-CU6 VMW-CU6-SLV | 0.94 (23.9) | | 7/16 | 0.47 (11.9) | 3300 (227) |
| 1/2 | 0.049 | VMW-CU8 VMW-CU8-SLV | 1.06 (26.9) | | 9/16 | 0.53 (13.5) | 3700 (254) |

* To order fittings manufactured for Surface Finish Ra(Average)<0.4 add BA to the ordering number. Example: VMW-CU4-BA

* Default process spec: VS001B. If ordering VS001A-spec fittings for VIGOUR Ultra-High Purity Products, add "P" to the order number. Example: VMW-CU4-P



Reducing Union

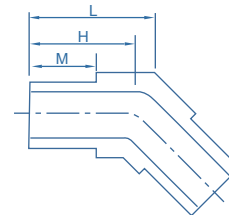


| Tube OD in. | Wall Thickness in. | Tube OD in. | Wall Thickness in. | Ordering Number | Dimensions, in.(mm) | | | Working Pressure psig (bar) |
|-------------|--------------------|-------------|--------------------|------------------------------|---------------------|----------------|---------------|-----------------------------|
| | | | | | L | M | M1 | |
| 1/4 | 0.035 | 1/8 | 0.028 | VMW-RU4-2 VMW-RU4-2-SLV | | | | 5100 (351) |
| 3/8 | 0.035 | 1/4 | 0.035 | VMW-RU6-4 VMW-RU6-4-SLV | | | | 3300 (227) |
| 1/2 | 0.049 | 1/4 | 0.035 | VMW-RU8-4 VMW-RU8-4-SLV | 0.75 (19.0) | 0.42 (10.7) | 0.25 (6.4) | 3700 (254) |
| 1/2 | 0.049 | 3/8 | 0.035 | VMW-RU8-6 VMW-RU8-6-SLV | | | | 3300 (227) |
| 3/4 | 0.065 | 1/4 | 0.035 | VMW-RU12-4 VMW-RU12-4-SLV | | | | 2400 (165) |
| 3/4 | 0.065 | 3/8 | 0.035 | VMW-RU12-6 VMW-RU12-6-SLV | | | | 2400 (165) |
| 3/4 | 0.065 | 1/2 | 0.049 | VMW-RU12-8 VMW-RU12-8-SLV | | | | 2400 (165) |

* To order fittings manufactured for Surface Finish Ra(Average)<0.4 add BA to the ordering number. Example: VMW-RU6-4-BA

* Default process spec: VS001B. If ordering VS001A-spec fittings for VIGOUR Ultra-High Purity Products, add "P" to the order number. Example: VMW-RU4-2-P

45° Union Elbow



| Tube OD in. | Wall Thickness in. | Ordering Number | Dimensions, in.(mm) | | | | Working Pressure psig (bar) |
|-------------|--------------------|----------------------------------|---------------------|---------------|-------|-------------|-----------------------------|
| | | | L | M | F | H | |
| 1/4 | 0.035 | VMW-VE4-R45 VMW-VE4-R45-SLV | 0.47 (11.9) | | 5/16 | 0.41 (10.4) | 5100 (351) |
| 3/8 | 0.035 | VMW-VE6-R45 VMW-VE6-R45-SLV | 0.56 (14.2) | 0.25 (6.4) | 7/16 | 0.47 (11.9) | 3300 (227) |
| 1/2 | 0.049 | VMW-VE8-R45 VMW-VE8-R45-SLV | 0.64 (16.3) | | 9/16 | 0.53 (13.5) | 3700 (254) |
| 3/4 | 0.065 | VMW-VE12-R45 VMW-VE12-R45-SLV | 0.82 (20.9) | | 13/16 | 0.65 (16.6) | 2400 (165) |

* Default process spec: VS001B. If ordering VS001A-spec fittings for VIGOUR Ultra-High Purity Products, add "P" to the order number. Example: VMW-UE4-R45-P

