



**High Pressure
Equipment
Company**

**Medium Pressure and High Pressure
Coned and Thread Tube Connections
Installation Instructions**

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Medium Pressure and High Pressure Coned and Threaded Tube Connections

Description:

Tubing is cold drawn, seamless, and is supplied in the 1/8 hard condition (not annealed). Tensile strength is approximately 40 percent higher than that of annealed tubing. All tubing is manufactured in strict accordance with High Pressure Equipment Company specifications to insure tolerances and bore quality. Tubing is stocked in lengths of 18 to 22 feet but may be ordered in shorter lengths with no additional cutting charge.

Medium Pressure Tubing:

| | Tubing Size | Working Pressure psi | Type of Connection Used | Material | Catalog Order Number |
|---------------|---------------------------|----------------------|-------------------------------|----------|----------------------|
| 1/4" | 1/4" O.D. x 0.109" I.D. | 20,000 | 1/4" MEDIUM PRESSURE (LF4) | 316 SS | 20-9M4-316 |
| 3/8" | 3/8" O.D. x 0.203" I.D. | 20,000 | 3/8" MEDIUM PRESSURE (LF6) | 316 SS | 20-9M6-316 |
| 9/16" | 9/16" O.D. x 0.359" I.D. | 10,000 | 9/16" MEDIUM PRESSURE (LF9) | 316 SS | 10-9M9-316 |
| | 9/16" O.D. x 0.312" I.D. | 20,000 | | 304 SS | 20-9M9-304 |
| | | | | 316 SS | 20-9M9-316 |
| 3/4" | 3/4" O.D. x 0.516" I.D. | 10,000 | 3/4" MEDIUM PRESSURE (LF12) | 316 SS | 10-9M12-316 |
| | 3/4" O.D. x 0.438" I.D. | 20,000 | | | 20-9M12-316 |
| 1" | 1" O.D. x 0.688" I.D. | 10,000 | 1" MEDIUM PRESSURE (LF16) | 316 SS | 10-9M16-316 |
| | 1" O.D. x 0.562" I.D. | 20,000 | | | 20-9M16-316 |
| 1 1/2" | 1 1/2" O.D. x 0.937" I.D. | 15,000 | 1 1/2" MEDIUM PRESSURE (LF24) | 316 SS | 15-9M24-316 |

High Pressure Tubing:

| | Tubing Size | Working Pressure psi | Type of Connection Used | Material | Catalog Order Number |
|--------------|-------------------------|----------------------|---------------------------|----------|----------------------|
| 1/8" | 1/8" O.D. x 0.020" I.D. | 60,000 | 1/8" HIGH PRESSURE (HF2) | 316 SS | 60-9H2 |
| | 1/8" O.D. x 0.040" I.D. | 30,000 | 1/8" HIGH PRESSURE (HF2) | 316 SS | 30-9H2 |
| 1/4" | 1/4" O.D. x 0.083" I.D. | 60,000 | 1/4" HIGH PRESSURE (HF4) | 316 SS * | 60-9H4-316 |
| | | | | 304 SS * | 60-9H4-304 |
| 3/8" | 3/8" O.D. x 1/8" I.D. | 60,000 | 3/8" HIGH PRESSURE (HF6) | 316 SS | 60-9H6-316 |
| | | | | 304 SS | 60-9H6-304 |
| 9/16" | 9/16" O.D. x 3/16" I.D. | 60,000 | 9/16" HIGH PRESSURE (HF9) | 316 SS | 60-9H9-316 |
| | | | | 304 SS | 60-9H9-304 |
| 9/16" | 9/16" O.D. x 1/4" I.D. | 40,000 | 9/16" HIGH PRESSURE (HF9) | 316 SS | 40-9H9-316 |
| | | | | 304 SS | 40-9H9-304 |
| 1" | 1" O.D. x 0.437" I.D. | 30,000 | 1" HIGH PRESSURE (HF16) | 316 SS | 30-9H16-316 |

Medium and High Pressure Coned and Threaded Tube Connection Installation Instructions:

Installation Instructions:

1. Apply a process compatible lubricant to the gland threads.
2. Slip the gland onto the tube, and then thread the collar onto the tube end.
3. A small amount of process compatible lubricant applied to the tube cone will facilitate sealing. Insert the tubing into the connection and tighten finger tight.
4. Tighten the gland to the torque appropriate for the connection as listed below.

| Connection | Pressure Rating Psi | Recommended Torque Ft-lb |
|------------|------------------------|-----------------------------|
| LF4 | 20,000 | 20 |
| LF6 | 20,000 | 30 |
| LF9 | 20,000 | 50 |
| LF12 | 20,000 | 90 |
| LF16 | 20,000 | 125 |
| HF2 | 60,000 | 6 |
| HF4 | 60,000 | 25 |
| HF6 | 60,000 | 50 |
| HF9 | 60,000 | 110 |
| HF9-40 | 40,000 | 90 |
| HF16 | 30,000 | 150 |
| XF4 | 100,000 | 45 |
| XF6 | 150,000 | 70 |