

# MUELLER® PACK JOINT COMPRESSION CONNECTIONS FOR WATER USE (CONDUCTIVE TYPE)

## PRODUCT SPECIFICATIONS

### 1. MATERIAL SPECIFICATIONS

- 1.1 Nut – Cast Bronze, ASTM B-62.
- 1.2 Gasket – Molded Synthetic Rubber, ASTM D2000 4AA815.
- 1.3 Body – Cast Bronze, ASTM B-62.
- 1.4 Rigid Metal Liner (for use with plastic pipe or tubing) – Stainless Steel, ANSI Type 304.

### 2. SIZES, OPERATING PRESSURE AND TEMPERATURE (Continued on Page 2)

- 2.1 Three basic styles of connections are available.
  - 2.1.1 Connections are available for 3/4", 1", 1-1/2" and 2" Copper Tube Size (CTS O.D.) Tubing. See chart below.

### TUBING AND PIPE DIMENSIONS USED WITH THE MUELLER PACK JOINT COMPRESSION CONNECTION

| Nominal Size | Material                                     | Tubing or Pipe O.D. Range |                         | Wall Thickness Range    |                         | Tubing or Pipe I.D. Range |                         |
|--------------|----------------------------------------------|---------------------------|-------------------------|-------------------------|-------------------------|---------------------------|-------------------------|
|              |                                              | Minimum                   | Maximum                 | Minimum                 | Maximum                 | Minimum                   | Maximum                 |
| 3/4" CTS     | CU (1)<br>PE (2)                             | 0.872<br>0.871            | 0.878<br>0.879          | 0.061<br>0.097          | 0.069<br>0.107          | –<br>0.657                | –<br>0.685              |
| 1" CTS       | CU (1)<br>PE (2)                             | 1.121<br>1.120            | 1.129<br>1.130          | 0.061<br>0.125          | 0.069<br>0.137          | –<br>0.846                | –<br>0.880              |
| 1-1/2" CTS   | CU (1)<br>PE (2)                             | 1.620<br>1.619            | 1.630<br>1.631          | 0.067<br>0.181          | 0.077<br>0.199          | –<br>1.221                | –<br>1.269              |
| 2" CTS       | CU (1)<br>PE (2)                             | 2.120<br>2.119            | 2.130<br>2.131          | 0.076<br>0.236          | 0.090<br>0.260          | –<br>1.599                | –<br>1.659              |
| 3/4" IPS     | PE (3)<br>PVC Sch. 40 (4)<br>PVC Sch. 80 (4) | 1.045<br>1.045<br>1.046   | 1.110<br>1.110<br>1.054 | 0.118<br>0.113<br>0.154 | 0.138<br>0.133<br>0.174 | 0.809<br>0.780<br>0.698   | 0.834<br>0.828<br>0.746 |
| 1" IPS       | PE (3)<br>PVC Sch. 40 (4)<br>PVC Sch. 80 (4) | 1.329<br>1.310<br>1.310   | 1.399<br>1.320<br>1.320 | 0.150<br>0.133<br>0.179 | 0.170<br>0.153<br>0.200 | 1.029<br>–<br>–           | 1.059<br>–<br>–         |
| 1-1/2" IPS   | PE (3)<br>PVC Sch. 40 (4)<br>PVC Sch. 80 (4) | 2.05<br>1.894<br>1.894    | 2.141<br>1.906<br>1.906 | 0.230<br>0.145<br>0.200 | 0.258<br>0.165<br>0.224 | 1.590<br>–<br>–           | 1.625<br>–<br>–         |
| 2" IPS       | PE (3)<br>PVC Sch. 40 (4)<br>PVC Sch. 80 (4) | 2.637<br>2.369<br>2.369   | 2.742<br>2.381<br>2.381 | 0.295<br>0.154<br>0.218 | 0.330<br>0.174<br>0.244 | 2.047<br>–<br>–           | 2.082<br>–<br>–         |

- (1) Type "K" copper tubing - ASTM B88
- (2) CTS polyethylene (PE) - ASTM D2737 SDR-9
- (3) IPS polyethylene (PE) - ASTM D2239 SDR-7
- (4) IPS polyvinylchloride (PVC) - ASTM D1785

NOTE: Due to the characteristics of plastic tubing and pipe, it is necessary to use a rigid metal liner inside the end of the tubing or pipe.

(Continued)



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## PRODUCT SPECIFICATIONS

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### 2. SIZES, OPERATING PRESSURE AND TEMPERATURE (cont'd)

- 2.1.2 Connections are available for 3/4" and 1" Iron Pipe Size (IPS I.D.) - PE Plastic Pipe. See chart on page 1.
- 2.1.3 Connections are available for 3/4", 1", 1-1/2" and 2" Iron Pipe Size (IPS I.D.) - PVC Plastic Pipe, Schedules 40 and 80. See chart on page 1.
- 2.2 Operating Pressure – The pressure holding capability of the MUELLER Pack Joint Compression Connection is designed to be greater than that of the valve or fitting on which it is used (only in potable water distribution applications complying with AWWA standards).
- 2.3 Operating temperature range is +32F to +150F.

### 3. DESIGN FEATURES

- 3.1 Connection parts are pre-assembled permitting piping to be stabbed into connection for fast, easy assembly, except for corporation valve use. For this use only it is necessary to remove the connection while corporation valve is inserted into the main or drilled through.
- 3.2 Integral serrated gripper tightened by stainless steel screw holds tubing or pipe securely against pull out, and on metallic tubing assures electrical continuity.
- 3.3 Plastic washer beneath gasket reduces assembly friction and avoids gasket twisting or snaking while being compressed.
- 3.4 Sealing gasket is totally confined to prevent cold flow or creep either of which could cause future leakage.
- 3.5 When this connection is used for plastic tubing or pipe, stainless steel continuous tube liners are used, which are flared at one end to prevent overinsertion into end of pipe.
- 3.6 MUELLER Pack Joint Compression Connections are supplied as integral parts of a variety of waterworks products such as corporation valves, curb valves, meter valves and meter setting materials, and as separate couplings and fittings.



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