



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

## Product Specifications

### MATERIAL SPECIFICATIONS

- 1.1 **Nut** - Bronze, ASTM B584 Alloy C83600 or C87850.
- 1.2 **Gasket** - ASTM D2000, EPDM (CAPS)
- 1.3 **Grip** - Bronze ASTM B505 C83600
- 1.4 **Body** - Bronze, ASTM B584 Alloy C89833 or C87850.
- 1.5 **Rigid Metal Liner** (for use with plastic pipe or tubing) - Stainless Steel, ANSI Type 304

### SIZES, OPERATING PRESSURE, OPERATING TEMPERATURE

- 2.1 **Connections** - available for 3/4", 1", 1-1/4", 1-1/2", and 2" Copper Tube Size (CTS O.D.) Tubing, and 3/4" and 1" IPS PE. See chart below.
- 2.2 **Operating Pressure** - pressure-holding capability of the Mueller Grip 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 +32° F to+ 150° F.

#### TUBING AND PIPE DIMENSIONS USED WITH THE MUELLER GRIP COMPRESSION CONNECTION

| Nominal Size | Material     | Tubing or Pipe OD Range |         | Wall Thickness Range |         | Tubing or Pipe ID Range |         |
|--------------|--------------|-------------------------|---------|----------------------|---------|-------------------------|---------|
|              |              | Minimum                 | Maximum | Minimum              | Maximum | Minimum                 | Maximum |
| 3/4" CTS     | CU (1)       | 0.872                   | 0.878   | 0.061                | 0.069   | --                      | --      |
|              | PE (2)       | 0.871                   | 0.879   | 0.097                | 0.107   | 0.657                   | 0.685   |
| 1"CTS        | CU (1)       | 1.121                   | 1.129   | 0.061                | 0.069   | --                      | --      |
|              | PE (2)       | 1.120                   | 1.130   | 0.125                | 0.137   | 0.846                   | 0.880   |
| 1 1/4" CTS   | CU (1)       | 1.371                   | 1.379   | 0.060                | 0.070   | 0.846                   | 0.880   |
|              | CU (2)       | 1.370                   | 1.380   | 0.153                | 0.168   | --                      | --      |
| 1 1/2" CTS   | CU (1)       | 1.621                   | 1.630   | 0.067                | 0.077   | --                      | --      |
|              | PE (2)       | 1.619                   | 1.631   | 0.181                | 0.199   | 1.221                   | 1.269   |
| 2" CTS       | CU (1)       | 2.120                   | 2.130   | 0.076                | 0.090   | --                      | --      |
|              | PE (2)       | 2.119                   | 2.131   | 0.236                | 0.260   | 1.599                   | 1.659   |
| 3/4" IPS     | Polyethylene | 1.045                   | 1.110   | 0.118                | 0.138   | 0.809                   | 0.834   |
| 1" IPS       | Polyethylene | 1.329                   | 1.399   | 0.150                | 0.170   | 1.029                   | 1.059   |

\*Type "K" sort copper tubing per ASTM B88; CTS Polyethylene (PE) per ASTM D27378DR-9; IPS, Polyethylene (PE) per ASTM D2239PE SIDR-7

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.

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## 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 **Serrated grip** holds tubing/pipe securely against pull-out; on metallic tubing assures electrical continuity.
- 3.3 **Stainless steel washer** beneath gasket reduces assembly friction and avoids gasket twisting or snaking while compressed.
- 3.4 **Sealing gasket** is totally confined to prevent cold flow or creep which could cause future leakage.
- 3.5 **Stainless steel continuous tube liners** are used when this connection is used for plastic tubing or pipe, which are flared at one end to prevent over insertion into end of pipe.
- 3.6 **MUELLER Grip Compression Connections** are supplied as integral parts of a variety of water-works products such as corporation valves, curb valves, meter valves and meter setting materials, and also as separate couplings and fittings.