

# Grip Compression Connections

FOR WATER USE (CONDUCTIVE TYPE)



## 1. MATERIAL SPECIFICATIONS

- A. Nut – Bronze, ASTM B-62.
- B. Gasket – ASTM D2000, EPDM (CAPS).
- C. Grip - Bronze ASTM B505 C83600.
- D. Body – Bronze, ASTM B584 C89833.
- E. Rigid Metal Liner (for use with plastic pipe or tubing) – Stainless Steel, ANSI Type 304.

## 2. SIZES, OPERATING PRESSURE AND TEMPERATURE

- A. Connections are available for 3/4", 1", 1 1/2", and 2" Copper Tube Size (CTS O.D.) Tubing, and 3/4" and 1" IPS PE. See chart below.
- B. Operating Pressure -- The 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).
- C. 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 O.D. Range		Wall Thickness Range		Tubing or Pipe I.D. 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 1/2" CTS	CU (1)	1.621	1.630	0.067	0.077	–	–
	PE (2)	1.619	0.181	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" soft copper tubing per ASTM B88; CTS polyethylene (PE) per ASTM D2737SDR-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.

## 3. DESIGN FEATURES

- A. 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.
- B. Serrated grip holds tubing or pipe securely against pull out, and on metallic tubing assures electrical continuity.
- C. Plastic washer beneath gasket reduces assembly friction and avoids gasket twisting or snaking while being compressed.
- D. Sealing gasket is totally confined to prevent cold flow or creep, either of which could cause future leakage.
- E. 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 over insertion into end of pipe.
- F. 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 as separate couplings and fittings.



Water (U.S.) 1.800.423.1323 www.muellercompany.com moreinfo@muellercompany.com	International 1.423.490.9555 www.mueller-international.com international@muellercompany.com
---	--