MUELLER® INSTA-TITE® CONNECTIONS FOR WATER

PRODUCT SPECIFICATIONS

1. MATERIAL SPECIFICATIONS

1.1 Body – Bronze ASTM B584 C89833.
1.2 Grip Ring – Molded acetal plastic, ASTM D4181. (White for IPS sizes – red for CTS sizes.)
1.3 O-ring – Synthetic rubber, ASTM D2000.

2. SIZES, OPERATING PRESSURE, AND TEMPERATURE

2.1 Two basic sizes of connections are available.
  2.1.1 CTS polyethylene (PE) tubing per ASTM D-2737 SDR-9.
  2.1.2 IPS polyethylene (PE) pipe per ASTM D-2239 SIDR-7.
2.2 Operating Pressure – The pressure holding capability of this 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 +100°F.

3. INLET CONNECTIONS

3.1 Iron pipe threads conform to ANSI B1.20.3.
3.2 Copper service threads conform to AWWA Standard C800.
3.3 MUELLER® multi-purpose end connections attach to a variety of copper water meter yokes in 5/8", 5/8" x 3/4", 3/4", and 1" sizes.

4. DESIGN FEATURES

4.1 MUELLER® INSTA-TITE® Connection has all parts pre-assembled permitting piping to be stabbed into body for fast and easy assembly. Approximately two inches (2") of pipe insertion depth is provided.
4.2 Sealing is provided by an O-ring which will maintain its seal during any longitudinal pipe movement permitted by the design.
4.3 Body and grip ring are designed to provide high resistance to pullout which might result from line pressure, back filling , ground settlement, accidental disturbance from ditching equipment, or from changes in pipe due to temperature variation. Proper operation of the connection does permit small amounts of pipe movement within the body which "sets" the grip ring.
4.4 If for some reason it becomes necessary to remove the pipe from the connection a special tool is available.

Mueller Co.

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