



# WATER & SEWER COMMISSION

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## INSTALLATION INSTRUCTIONS

### MULTI-JET METER

The installation instructions detailed below are consistent with recommendations by the American Water Works Association in AWWA Manual M6: water meters selection, installation, testing and maintenance.

#### Design of the installation:

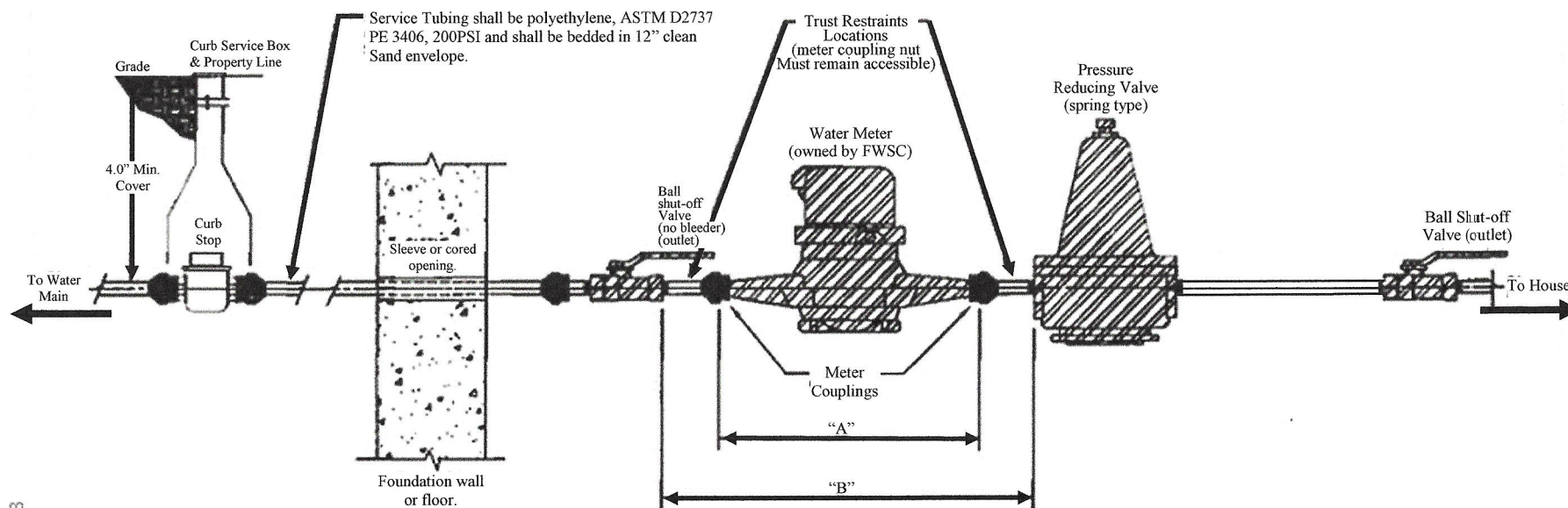
1. The installation should include a high quality, low pressure loss shutoff valve upstream of the meter to prevent water damage to the customers' property when service is required; a downstream shutoff valve is likewise recommended.
2. The meter should be installed in a horizontal plane with the register upright in a location accessible for reading, service and inspection.
3. The installation should be leak-tight with properly sized gaskets. When meter connections are ordered from Master Meter gaskets are provided. Appropriate gaskets and couplings also are available from a qualified waterworks distributor. Whenever a meter is pulled from the line, discard and replace the old gaskets.
4. Although AWWA opposes the grounding of electrical systems to potable water delivery lines, such practices do exist. To prevent accidental harm to service personnel, make certain that an electrical grounding strap is installed around the meter.

#### At the time of installation:

1. Thoroughly flush the service line upstream of the meter to remove dirt and debris.
2. Remove meter spud thread protectors. Note: to protect the meter spud threads, store the meter with the thread protectors in place.
3. Set the meter in the line. Arrows on the side of the meter and above the outlet spud indicate the direction of flow.
4. Do not over-tighten connections, tighten only as required to seal. Do not use pipe sealant or Teflon tape on meter threads.
5. With upstream shutoff valve only:
  - Open the shutoff valve slowly to remove air from meter and service line. Open the customers' faucet slowly to allow entrapped air to escape. Close the customers' faucet.
6. With upstream and downstream shutoff valves installed:
  - To test the installation for leaks, close the outlet (downstream) shutoff valve.
  - Open the inlet (upstream) shutoff slowly until the meter is full of water.
  - Open the outlet (downstairs) valve slowly until air is out of the meter and service line.
  - Open a customers' faucet slowly to allow entrapped air to escape.
  - Close the customers' faucet.
6. When installing meters equipped with DIALOG™ or Electrical Output Registers, refer to installation instructions or diagrams provided by Master Meter.



# Requirements For Small Water Meter Installation



## General Notes:

1. Meter is furnished by the *Freetown Water & Sewer Commission*. Meter shall be set in the horizontal position. Domestic water meter shall be 5/8" or 3/4", unless otherwise approved.
2. Meter shall be located in an *accessible location* and at the point where the water service enters the structure and shall be mounted a minimum of 12" above floor and a maximum of 4" clearance from wall.
3. Thrust restraints comprised of threaded rods with suitable clamps and anchors shall be installed to anchor the meter setting to the floor and/or wall, *as appropriate and as approved by FWSC*, to prevent movement.
4. *Pressure reducing valve is required* before dual check valve in low service area below elevation 90' (MSL) and in high service area below elevation 210' (MSL).
5. Connections prior to the outlet shutoff valve are prohibited.
6. ALL fittings and valves through the outlet shutoff valve SHALL BE a brass or bronze body. Soldering joints are prohibited.
7. Service tubing shall have stainless steel inserts of compatible size and length at each compression fitting.
8. Electrical ground clamps *not permitted* on meter set-up or plumbing.

