



## POSITIVE DISPLACEMENT METER INSTALLATION INSTRUCTIONS

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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.

### **WE RECOMMEND IN THE 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 customer 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 a consumer faucet slowly to allow entrapped air to escape. Close the customer Faucet.
  - 5.1. With upstream and downstream shutoff valves installed:
    - A. 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.
    - B. Open the outlet (downstream) valve slowly until air is out of the meter and service line. Open a customer faucet slowly to allow entrapped air to escape. Close the customer faucet.
6. When installing meters equipped with electronic registers that require connections to external devices, please refer to installation instructions or diagrams provided by Master Meter.