

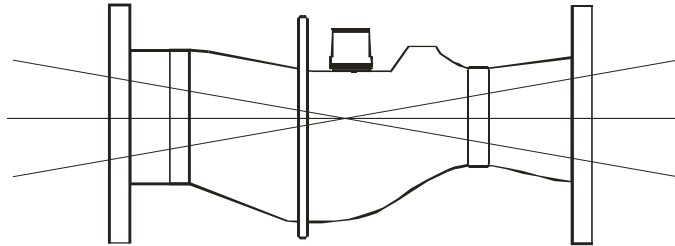
## **Meter Installation Instructions**

### **Installation Preparation**



1. Meter is intended for measuring potable, cold water in one direction only.
2. Meter must be installed in a horizontal pipeline with the register facing upward and readily accessible for reading. To meet accuracy specifications, the meter should not be mounted at more than a 10% angle (either slanted along the pipe or tilted to the side).
3. In most applications, no straight pipe length, upstream or downstream is necessary.
4. Under normal usage conditions the Enduro is not affected by sand or suspended particles and does not require a strainer. Systems with significant debris in the pipes should consider strainers to avoid damage and accuracy degradation.
5. A variety of standard and custom spool lengths are available from Metron for drop-in installation ease. Spools can accommodate virtually any existing lengths. Most spools come standard with a test port. Consult your Metron-Farnier sales manager for technical details on spools.

Meter must be within  
+/- 10% of horizontal  
(tilt and slant) to  
achieve specified  
accuracy.



### **Installation Procedures**

1. Suitable shut-off valves should be installed adjacent to both the inlet and outlet of the meter so service may be shut off without inconvenience to the customer whenever the meter must be removed.
2. Clean and flush the service line thoroughly on the inlet side of the meter before installing the meter.
3. Remove the flange protectors and set the meter with the arrow on the meter body pointed toward the outlet (customer's side).
4. To insure unrestricted flow of water through the meter, use the proper size and type of gaskets. Connections should only be sufficiently tightened to seal; do not over-tighten.
5. When tightening the bolts/nuts, use a staggered pattern similar to tightening lug nuts on an automobile tire to avoid over-stressing the flange seals.
5. After the meter is installed, shut the outlet shut-off valve. Open the inlet shut-off valve slowly until the meter is full of water and there are no leaks.
6. Open the outlet valve slowly until air is out of the meter and service line. Open a valve downstream of the meter slowly and insure that no foreign debris in the water obstructs the operation of the meter.

**CAUTION:** Introducing water too quickly into the meter will damage the meter's internal components.  
The meter and service line must be free of air before operating the meter at normal flow rates.

**NOTE:** Install an electrical grounding strap around the meter for maintenance safety while repairing or removing meter.

**NOTE:** Consult the latest American Water Works Association (AWWA) manual for additional details on water meter installations.