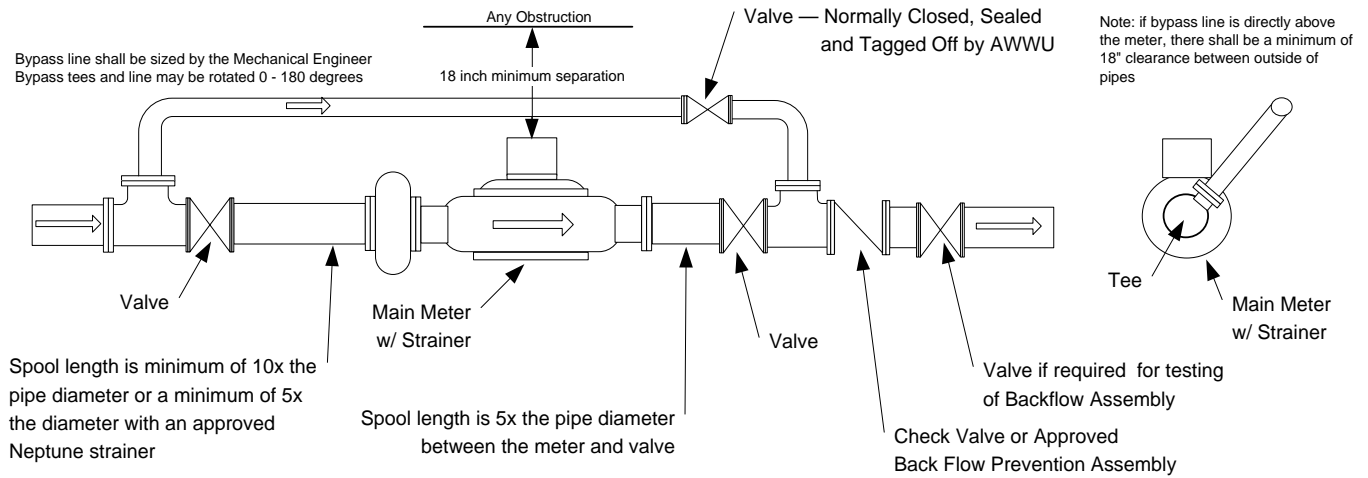


## Meter installation Guidelines

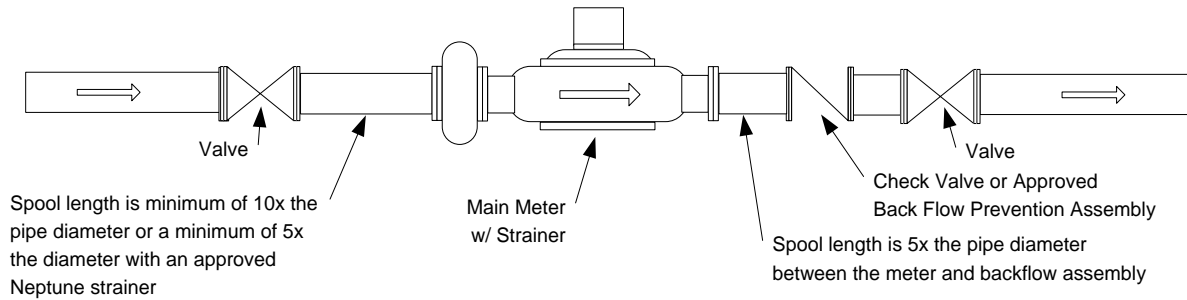
- 1) Standard water meter installations shall be provided in accordance with the current edition the AWWU Design and Construction Practices Manual (DCPM), Uniform Plumbing Code (UPC) and guidelines in the American Water Works Association (AWWA) manuals.
  - 2) Water meters are mandatory for all residential structures 4-plex and larger, and all commercial buildings. Metering is optional for duplex and triplex structures. Irrigation meters are not permitted without preapproval from an AWWU Field Service supervisor.
  - 3) An AWWU Field Service supervisor shall determine the appropriate meter size for multi-family residential and commercial buildings.
  - 4) For manufactured structures such as mobile offices or buildings, meters shall be installed above the finished floor inside the building and not in the 'skirted' area below the structure.
  - 5) Meters shall be installed in accordance with best plumbing practices and:
    - a) In an area dedicated specifically for the meter, valves and check valves assemblies, all other plumbing apparatus shall be installed after the last valve on the downstream side of meter.
    - b) In a horizontal position and located before any branched services.
    - c) In a dry, frost proof and easily accessible open area not concealed or obstructed. (i.e., appliances, heaters, building materials or storage items).
    - d) With the minimum clearance on all sides and above the floor as shown in the attached Meter Assembly details.
    - e) Shall not exceed a height of forty-two (42) inches without an approved platform.
  - 6) Meters shall not be installed belowground in a pit or pit environment.
  - 7) Meters may be installed in a crawl space provided that:
    - a) The depth of the crawl space as measured vertically from the ground to the bottom of the floor joists is forty (40) inches.
    - b) The crawl space shall be illuminated and have a permanently secured ladder.
    - c) The meter assembly must be within ten (10) feet of the crawl space opening with unobstructed access (i.e. heating vents, support walls).
    - d) The entry to the crawl space shall be a minimum of twenty-four (24) inches by thirty (30) inches. Access to the crawl space shall not be blocked and/or obstructed.
  - 8) Meters not installed within 30 days of issuance shall be returned to AWWU.
  - 9) If meter not within 10' of outside wall provide a conduit for remote reading wire for new construction.
- Call AWWU at 564-2700 to schedule a **pre-meter installation meeting** if the above conditions cannot be met. After installation, call 564-2700 for a **meter inspection**. A minimum of twenty-four (24) hours' advance notice is required to schedule the inspection.

***Customers will be charged a return visit inspection fee should the meter inspection fail.***

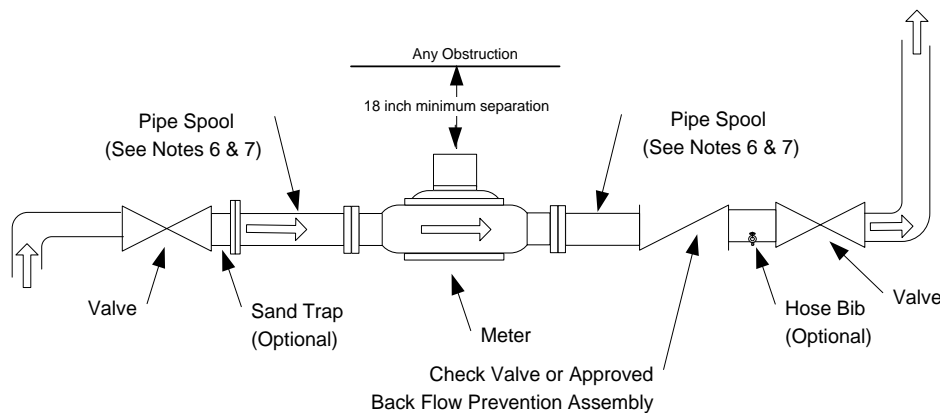
Typical Detail - 3" and larger Meter Assembly require a Bypass (Front View) (End View)



2" and Larger Meters / Turbine and Compound Meter Assembly (Front View)



5/8 to 2" Disc Meter Assembly (Front View)



1. There shall be a minimum of 3X the pipe diameter clearance around the meter and all appurtenances shown in these details
2. All pipes and appurtenances shall be properly supported and supports shall not interfere with removal of the meter
3. There shall be no piping, duct work or any other obstructions directly in the front of the meter
4. There shall be no electrical grounding (jumper) wires touching any part of the meter or meter assembly. If required, jumper wires shall be connected to pipes upstream and down stream of the valves. There shall be no jumper wire between the valves or directly connect to the meter, spools, or backflow assemblies. Provide a minimum of two (2) inches of clearance between the jumper wire and any part of the meter
5. When adding a meter to existing plumbing, an expansion tank may be necessary upstream of the meter
6. For all 5/8 thru 1 inch meters, spool lengths shall not be less than 4 inches.
7. For all 1 1/2 thru 2 inch meters, spool lengths shall not be less than 6 inches.

