



SENSUS OMNI METER INSTALLATION REQUIREMENTS:

(For additional installation information see <http://www.sensus.com>)

1. NOTE: the Sensus OMNI meter includes an integrated strainer which ensures optimum flow conditioning and protection for the meter measuring element.
2. The turbine meter with integrated strainer REQUIRES a minimum of five (5) pipe diameters of straight pipe upstream and two (2) pipe diameters downstream of the meter.
3. Only full open port valves should be used upstream of meter. Any valve can be used downstream.
4. DO NOT install pressure reducing devices or check valves upstream of the meter.
5. A check valve must be installed downstream of the meter to prevent surging or backflow. A spring or weighted check valve may be used, if necessary.
6. Any unweighted check valves, externally weighted check valves, non-concentric reducers, back-flow preventers, or pressure reducing devices MUST be located at least four (4) pipe diameters downstream of the meter.

TABLE "A"

Meter Size	Meter Lay Length	Turbine Meter-GPM	Max. Cont. Duty
3"	17"	2.5 - 650	500 GPM
4"	23"	3 - 1250	1000 GPM
6"	27"	4 - 2500	2000 GPM
8"	30.125"	5 - 3500	3500 GPM
10"	41.125"	6 - 5500	5500 GPM

NOTE "B"
 -----By-pass required, one size smaller allowed.
 NOTE "C"
 -----2" Valve is 1/4 turn ball valve w/ unthreaded drain cock after valve.

NOTE "D" -----NO PVC piping permitted through exterior wall penetration/connection point. Two-inch piping at test connection point must be threaded. Test connection point shall be accessible within 100-feet of test truck.

ADDITIONAL REQUIREMENTS:

- Contractor to furnish manufacturer-approved NSF-61 flanges w/ bolts and gaskets.
- NO insulation or covering will be permitted on meters or flanges.
- Meter and associated valves shall be located in the same room where the water service first enters the building.
- Electrical bonding shall be located so as not to restrict removal of meter flange bolts.
- All meters shall be so located that they shall be protected from obstructions and permit ready access for reading, inspection, and servicing, such location to be designated or approved by the water utility.

CITY OF MADISON
 WATER UTILITY

NOT TO SCALE

SENSUS OMNI METER
 STANDARD INSTALLATION