



BADGER RECORDALL TURBO METER INSTALLATION REQUIREMENTS:

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

1. A Strainer IS REQUIRED to ensure optimum flow conditioning and protection for the Turbo Series meter measuring element.
2. Turbine meters, with a strainer, REQUIRE a minimum of five (5) pipe diameters of straight pipe upstream of the meter (including the strainer).
3. ONLY full-open gate valves should be used immediately upstream of the meter. Butterfly valves MUST be five (5) pipe diameters or more upstream of the meter. Full-open gate or butterfly valves 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. Unweighted check valves MUST be located at least three (3) pipe diameters downstream of the meter.
7. Pressure reducing devices and externally weighted check valves MUST be located at least five (5) pipe diameters downstream of the meter.

"A"				"B"
Meter Size	Meter Lay Length	Turbine Meter-GPM	Max. Cont. Duty	Strainer Lay Length
2"	10"	3 - 250	200 GPM	7"
3"	12"	4 - 550	450 GPM	7"
4"	14"	8 - 1250	1000 GPM	9"
6"	18"	15 - 2500	2000 GPM	9"
8"	20"	20 - 4500	3000 GPM	14"
10"	26"	30 - 7000	5500 GPM	16"

- NOTE "C" -----By-pass required, one size smaller allowed.
 NOTE "D" -----2" Valve is ¼ turn ball valve w/ drain cock after valve.
 NOTE "E" -----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/MISC. REQUIREMENTS:

- Use standard companion flanges and valves.
- NO insulation or covering will be permitted on meters or flanges.

CITY OF MADISON
WATER UTILITY

NOT TO SCALE

BADGER RECORDALL TURBO SERIES METER
STANDARD INSTALLATION