

GENERAL

Badger's Industrial Turbine is a rugged, reliable meter ideally suited for industrial fluid applications. Its' compact size and ease of serviceability without removal from the line, make this a cost effective selection. Designed with performance in mind, the meter provides a high level of accuracy over a wide flow range with a minimum of pressure loss.

The Badger Meter Turbine is available in line sizes of 2", 3", 4" and 6". Its' unique straight through flow profile and ceramic bearing design optimize performance.

To complement the meter, Badger offers a complete line of accessories that includes electromechanical and state-of-the-art electronic transmitters, totalizers, indicators and process controllers.

OPERATION

The Badger Meter Industrial Turbine is a volumetric liquid flow meter which works on the time proven principle of a rotor turning at an angular velocity proportional to the fluid velocity through the turbine. The meter has straightening vanes and a nose cone in the inlet side which minimize upstream turbulence and direct the flow to the rotor effectively. Electronic pickups generate signals from the rotor magnet. This is translated to an open collector-transistor pulse output. Mechanical pickups and electromechanical outputs are also available.

APPLICATIONS

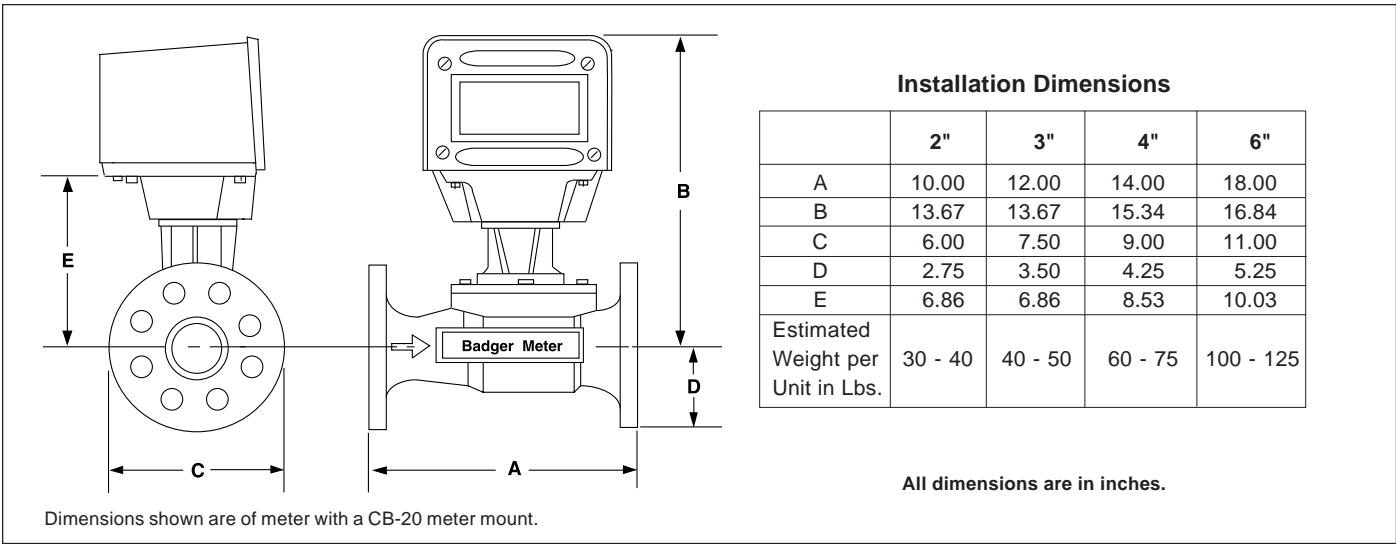
Badger's Turbo meter is used in a wide range of fluid applications covering from water to oils, solvents to acids. The meter has been used in water treatment systems, loading and unloading of tankers or rail cars, batching systems, or simply inventory control of a process fluid. Anywhere high volume and/or high flow rates are at least sometimes required in the application, the Turbo meter is likely the right choice.



FEATURES

- **Long Lasting Ceramic Bearings**
- **Simple In-Line Serviceability**
- **± 0.5% to ± 1.5% Accuracy**
- **0.25% Repeatability**
- **Low Pressure Loss**





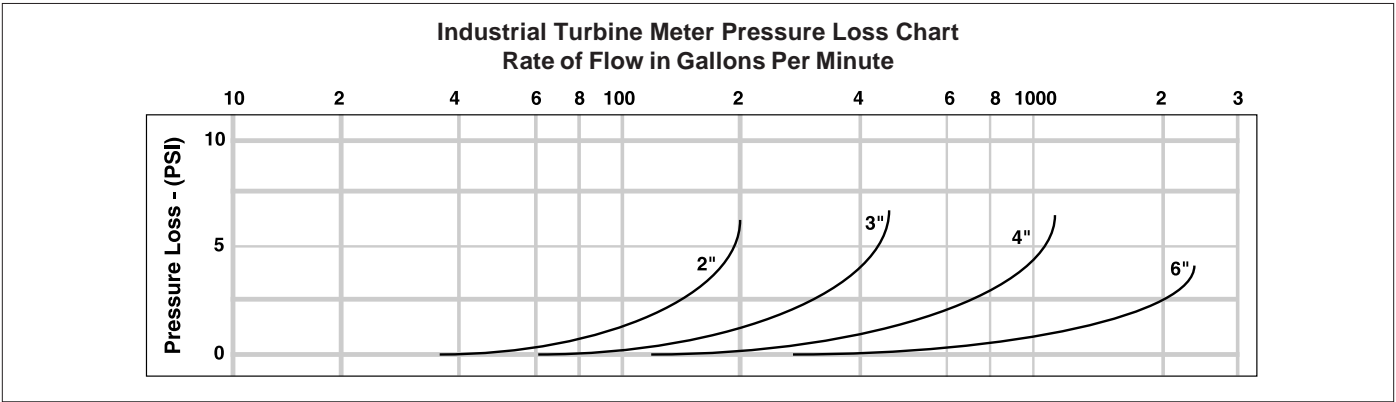
SYSTEM SPECIFICATIONS	2"	3"	4"	6"
Accuracy ± 0.5% @ indicated Flow Range - GPM	20 - 160	60 - 350	100 - 1000	250 - 2000
Accuracy ± 1.5% @ indicated Flow Range - GPM	8 - 200	10 - 450	25 - 1250	40 - 2500
Repeatability*	0.25%	0.25%	0.25%	0.25%
Temperature Range (° F)*:	32 to 200	32 to 200	32 to 200	32 to 200
Minimum Operating Pressure (PSI):	7	7	7	7
Maximum Operating Pressure (PSI):	125	125	125	125

* Reading over full range tested with potable water at 60° F.

Flange Face Configurations: (ANSI Standards)

Flat Faced Flanges: 125 lb. Cast Iron

Housing Material:	Cast Iron
Head Material:	Bronze
Rotor and Nose Cone:	Ryton
Bearings:	Ceramic
Straightening Vanes:	316 Stainless Steel
"O" Ring and Tetraseal:	Buna N
Head Gasket:	Nitrile Binder



Please see our website at
www.badgermeter.com
for specific contacts.

Due to continuous research, product improvements and enhancements, Badger Meter reserves the right to change product or system specifications without notice, except to the extent an outstanding bid obligation exists.



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