

FLOW METERING Water Meters & Accessories

Zenner Class II Turbine Meters

- Universal measuring element for easy in-place servicing
- Choose from direct read or remote read (includes battery-powered remote digital display)

Rugged ZTMB series turbine meters provide virtually maintenance-free long-term service. They're designed for potable cold water applications with moderate to high flows and occasional low flows. These meters comply with all performance and material requirements of the AWWA Standard C701, Class II In-Line (High-Velocity) Type.

Install meter in horizontal pipelines with the register facing upwards. 1½" and 2" meters have 2-bolt oval flanges; 3 to 8" have standard round flanges. Choose from direct-read or remote-read models. Remote read meters feature a battery-powered wall-mount remote reader with digital display.

Includes: Remote-read meters include 5 feet of connecting wire; longer cable sold separately. 1½" meters include integral strainer.

Note: Strainers are highly recommended for installation upstream to protect the meter and improve accuracy (sold separately; see page 399).

Shipping: 6" meters and larger ship motor freight.



Remote-read models include battery-powered wall-mount remote reader.



Accuracy:	98.5 to 101.5%
Max operating pressure:	160 psi
Max operating temperature:	140°F
Case material:	bronze
Max wire length (remote read):	500 feet
Meter output (remote read):	ETR encoder output, ASCII format
Remote wall-mount unit dimensions:	4.6"W x 4.3"H x 2"D

SIZE	Meters Reading in Gallons		Meters Reading in Cubic Feet	
	DIRECT READ STOCK #	REMOTE READ STOCK #	DIRECT READ STOCK #	REMOTE READ STOCK #
1½" Oval	16841	16843	16845	16847
2" Oval	17729	17866	17873	17879
3" Round	17861	17867	17874	17881
4" Round	17862	17868	17875	17882
6" Round	17863	17869	17876	17883
8" Round	17864	17871	17877	17884

22-Ga Meter Wire, 500'L Roll 50452

Flow Ranges for Zenner ZTMB Series Meters

Size	Flow Range (gpm)		Flange Connection	Lay Length
	Min-Max	Max Continuous		
1½"	2 to 250	160	2 Bolt, Oval	13"*
2"	2 to 400	200	2 Bolt, Oval	10"
3"	2½ to 550	450	4 Bolt, Round	12"
4"	4 to 1250	1000	8 Bolt, Round	14"
6"	12 to 2500	2000	8 Bolt, Round	18"
8"	20 to 4500	3500	8 Bolt, Round	20"

*Includes integral strainer.

Turbine Water Meter Specification Chart

Brand	Model	Size	Type	Flow Range (gpm)*	Connection	Weight (lbs)	Lay Length	Width
Zenner	ZTMB	2"	Turbine	2 to 400	Flanged	27	10"	6⅞"
Zenner	ZTMB	3"	Turbine	2½ to 550	Flanged	40	12"	7½"
Zenner	ZTMB	4"	Turbine	4 to 1250	Flanged	54	14"	9"
Zenner	ZTMB	6"	Turbine	12 to 2500	Flanged	112	18"	11"
Zenner	ZTMB	8"	Turbine	20 to 4500	Flanged	145	20"	13½"
Neptune		2"	Turbine	4 to 200	Flanged	20	10"	5⅜"
Neptune		3"	Turbine	5 to 450	Flanged	40	12"	7½"
Neptune		4"	Turbine	10 to 1200	Flanged	52	14"	9"
Neptune		6"	Turbine	20 to 2500	Flanged	115	18"	11"
Sensus		2"	Turbine	4 to 160	Flanged	48	10"	6"
Sensus		3"	Turbine	5 to 350	Flanged	48	12"	7½"
Sensus		4"	Turbine	15 to 1000	Flanged	68	14"	9"
Sensus		6"	Turbine	30 to 2000	Flanged	150	18"	11"

*AWWA recommends that positive displacement meters not be frequently operated at more than 50% of rated capacity. Turbine meters may be continuously operated at their rated maximum capacity without harm. The rated capacity should only be exceeded for short, intermittent periods.

Note: Other meters are available. Note that the lay lengths of those meters may vary. When replacing an existing meter, check lay length and specify that length when ordering.

- "Cold" meters are generally rated at maximum temperature of 120°F.
- On ⅝" through 1" meters, one revolution of the sweep hand = 10 gallons (or 1 ft³). On 1½" and 2" meters, one revolution of the sweep hand = 100 gallons (or 10 ft³).