



**RECORDALL TURBO SERIES METERS**

<b>SIZES</b>	<b>OPERATING RANGE (GPM)</b>
1½" EL	4 to 200
2" EL, RD	4 to 310
3"	5 to 550
3" Fire Hydrant Meter	5 to 660
4"	10 to 1250
6"	20 to 2500
8"	30 to 4500
10"	50 to 7000
12"	90 to 8800
16"	150 to 13200
20"	300 to 19800

**FEATURES**

Compatible with TRACE®, ACCESSplus®, and Read-O-Matic® meter reading systems

Complies with AWWA C701 Class II Standard

Interchangeable measuring elements within certain sizes

Extended high-flow, low-flow capability

Low pressure loss

Broader calibration range for extended service life



# Physical and Operating Characteristics for Recordall Turbo Series Meters (TSM)

Meter Model	Meter Size (Inches)	Meter Dimensions (Maximum)				Physical Characteristics of Companion Flanges		
		Laying Length (In.)	Width (Inches)	Height (Inches)	Port Holes Center To Base (Inches)	Bolt Holes Circle Diameter (Inches)	Number of Bolt Holes	Bolt Hole Diameter (Inches)
AWWA C701-88 (Class II) Turbine Std.	1½" Flanged	13 (Max.)	9 (Max.)	17 (Max.)	6 1/2 (Max.)	Oval Flange 4	Oval Flange 2	Oval Flange 5/8
1½" TSM Model 160 (Class II)	1½"	13	5 7/32	Oval Flange 6 17/32	Oval Flange 1.85	Oval Flange 4	Oval Flange 2	Oval Flange 23/32
AWWA C701-88 (Class II) Turbine Std.	2 Flanged	18 (Max.)	9 1/2 (Max.)	20 (Max.)	8 1/2 (Max.)	Oval Flange 4 1/2 Round Flange 4 3/4	Oval Flange 2 Round Flange 4	Oval Flange 3/4 Round Flange 3/4
2" TSM Model 200 (Class II)	2 Flanged	10	Oval Flange 5 27/32 Round Flange 6	Oval Flange 6 23/32 Round Flange 7 19/64	Oval Flange 2 1/16 Round Flange 2 5/8	Oval Flange 4 1/2 Round Flange 4 3/4	Oval Flange 2 Round Flange 4	Oval Flange 3/4 Round Flange 3/4
AWWA C701-88 (Class II) Turbine Std.	3	24 (Max.)	14 (Max.)	28 (Max.)	13 1/2 (Max.)	6	4	3/4
3" TSM Model 450 (Class II)	3	12	7 1/2	8 23/32	3 13/32	6	4	3/4
AWWA C701-88 (Class II) Turbine Std.	4	29 (Max.)	15 1/2 (Max.)	28 (Max.)	14 (Max.)	7 1/2	8	3/4
4" TSM Model 1000 (Class II)	4	14	9	9 21/32	4 11/32	7 1/2	8	3/4
AWWA C701-88 (Class II) Turbine Std.	6	36 1/2 (Max.)	21 (Max.)	31 (Max.)	15 1/2 (Max.)	9 1/2	8	7/8
6" TSM Model 2000 (Class II)	6	18	11	13 5/16	5 1/4	9 1/2	8	7/8
AWWA C701-88 (Class II) Turbine Std.	8	43 3/4 (Max.)	27 1/2 (Max.)	31 (Max.)	16 (Max.)	11 3/4	8	7/8
8" TSM Model 3500 (Class II)	8	20	13 1/2	15 3/16	6 3/8	11 3/4	8	7/8
AWWA C701-88 (Class II) Turbine Std.	10	60 (Max.)	29 (Max.)	35 (Max.)	20 1/2 (Max.)	14 1/4	12	1
10" TSM Model 5500 (Class II)	10	26	16	17 15/32	7 7/8	14 1/4	12	1
AWWA C701-88 (Class II) Turbine Std.	12	68 (Max.)	31 (Max.)	42 (Max.)	21 (Max.)	17	12	1
12" TSM Model 6200 (Class II)	12	19 11/16	19	19 11/16	8 7/8	17	12	1
AWWA (CLASS II) TURBINE STANDARDS HAVE NOT BEEN DEVELOPED FOR THE 16" TURBO METERS								
16" TSM Model 6600 (Class II)	16	19 11/16	22 13/16	26 5/16	11 7/16	21 1/4	16	1 1/8
AWWA (CLASS II) TURBINE STANDARDS HAVE NOT BEEN DEVELOPED FOR THE 20" TURBO METERS								
20" TSM Model 10000 (Class II)	20	19 11/16	28 1/8	30 13/16	14 1/16	25	20	1 1/4

Physical Characteristics of Companion Flanges		Operating Characteristics				
Minimum (Cast Iron) Flange Thickness (In.)		Safe Operating Capacity (Maximum) GPM	Max. Rate For Cont. Duty GPM	Max. Loss Of Head At Max. Oper. Capacity PSI	98.5/101.5% Accuracy at Typical Oper. Ranges	Extra Low Flow Range (95% Min.) Accur.)GPM
At Bolt Hole	At Hub					
Oval Flange 9/16 (Cast Iron)	Oval Flange 13/16 (Cast Iron)		(Not defined in AWWA C701-88 standards)			
Oval Flange 9/16 (Bronze)	Oval Flange 13/16 (Bronze)	200	160	3.8 PSI at 160 GPM	4-200 GPM	2.5
Oval Flange & Round Flange 5/8 (Cast Iron)	Oval Flange & Round Flange 7/8 (Cast Iron)	160	100	7 PSI at 160 GPM	4-160 GPM	-
Oval Flange 5/8 (Bronze) Round Flange 1/2 (Bronze)	Oval Flange 7/8 (Bronze) Round Flange 1 (Bronze)	310	200	3.1 PSI at 200 GPM	4-310 GPM	2.5 GPM
3/4 (Cast Iron)	1 3/16 (Cast Iron)	350	240	7 PSI at 350 GPM	8-350 GPM	-
5/8 (Bronze)	1 3/16 (Bronze)	550	450	1.8 PSI at 450 GPM	at 5-550 GPM	4 GPM
15/16 (Cast Iron)	1 5/16 (Cast Iron)	630	420	7 PSI at 630 GPM	15-630 GPM	-
11/16 (Bronze)	1 5/16 (Bronze)	1250	1000	7.3 PSI at 1000 GPM	10-1250 GPM	8 GPM
1 (Cast Iron)	1 9/16 (Cast Iron)	1400	920	7 PSI at 1400 GPM	30-1400 GPM	-
13/16 (Bronze)	1 9/16 (Bronze)	2500	2000	4.8 PSI at 2000 GPM	20-2500 GPM	15 GPM
1 1/8 (Cast Iron)	1 3/4 (Cast Iron)	2400	1600	7 PSI at 2400 GPM	50-2400 GPM	-
15/16 (Bronze)	1 3/4 (Bronze)	4500	3500	2.5 PSI at 3500 GPM	30-4500 GPM	20 GPM
1 3/16	1 15/16	3800	2500	7 PSI at 3800 GPM	75-3800 GPM	-
1 3/16	1 15/16	7000	5500	1.6 PSI at 5500 GPM	50-7000 GPM	30 GPM
1 1/4	2 3/16	5000	3300	7 PSI at 5000 GPM	120-5000 GPM	-
1 1/4	2 3/16	8800	6200	.8 PSI at 6200 GPM	90-8800 GPM	65 GPM
1 7/16	2 1/2	13200	6600	.5 PSI at 6600 GPM	150-13200 GPM	130 GPM
1 11/16	2 7/8	19800	10000	.5 PSI at 10000 GPM	300-19800 GPM	200 GPM



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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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