



# MMT-S Bronze Turbine Meter with Integral Strainers

50 mm, 75 mm and 100 mm (2", 3" and 4")

Superior service for utility or industrial cold water measurement.



For high volume applications where high accuracy is essential, depend on Master Meter MMT-S Turbine Meters for utility or industrial cold water measurement.

**Efficient Flow Patterns:** AWWA C-701 Class II MMT-S Turbine Meter designs incorporate low head loss and streamlined flow patterns, reducing the energy required for water delivery. And the meters' extended flow ranges allow meter downsizing without revenue loss.

**Durable Construction:** Durable bronze case 50 mm (2") to 100 mm (4") MMT-S Assemblies provide long service life. Nylon inlet flow conditioners and polypropylene rotors insure high accuracy and long service life. To protect your turbine from line-debris damage, the MMT-S Assembly houses both turbine and strainer in a single bronze body. The combined assembly simplifies installation and insures proper flow conditions for maximum accuracy.

**Electronic Reading Compatible:** All Master Meter MMT-S Turbine Meters are equipped with a DIALOG register, which interfaces to an appropriate output module for Master Meter reading systems -- DIALOG on-site reading, T-LINX advanced telephone AMR and RF-LINX fixed network radio.

## FEATURES & BENEFITS

- High Accuracy Reads
- Efficient Flow Patterns
- Durable Construction
- Electronic Reading Compatible
- Wide Range of Flow

## TECHNICAL SPECIFICATIONS

**Description** Single body houses AWWA Class II Turbine Meter and strainer, simplifying installation.

**AWWA Standard** Meets or exceeds the performance required by AWWA Standard C701, most recent revision, for Class II Turbine Meters.

**Main Case** Constructed of waterworks bronze, 81% copper composition, with flanged ends. Bronze register retaining ring and lid are standard. A downstream test plug is provided to allow field testing without removal of the assembly from the line.

**Strainer** Strainer housing is integral to the main case, and houses an expanded stainless steel strainer element. Strainer screens debris from the line that could cause measuring element damage and conditions the flow velocity profile to improve meter accuracy and measuring element life.

**Measuring Chamber** Meter chamber assembly and turbine are constructed of durable, engineering plastics for extended service life.

**Magnetic Drive** A reliable, direct magnetic drive provides linkage between measurement element and register. No intermediate gearing is required; no gearing is exposed to water.

**Register** Standard direct read, DIALOG® Meter Reading System and Electrical Output registers are available. A six-wheel odometer is standard. Registration is available in gallons or cubic feet.

**Register Sealing** Direct read and DIALOG® System registers are permanently sealed, with a tempered glass lens, stainless steel base and wrap-around gasket to prevent intrusion of dirt or moisture.

**Test Circle** Large center sweep hand with 100 clearly indicated graduations per minimum registration unit, with each tenth marked.

**Low Flow Detector** Center-mounted indicator with high sensitivity resulting from direct one to one linkage to the measuring element.

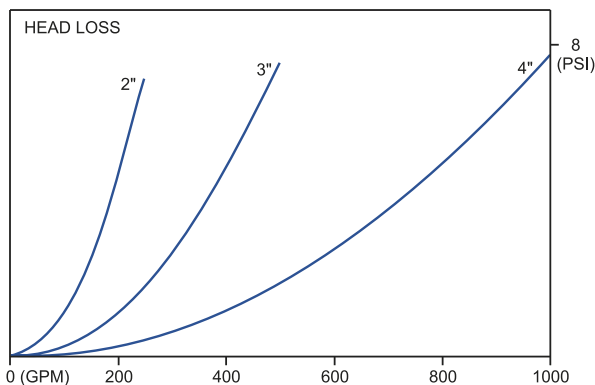
See reverse side for more specifications »

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TECHNICAL DATA - US UNITS					TECHNICAL DATA - INTERNATIONAL UNITS			
Characteristic	Unit of measurement	2"	3"	4"	Unit of measurement	50 mm	75 mm	100 mm
Normal Operating Range (100% @ ± 1.5%)	U.S. gpm	4 - 275	5 - 500	9 - 1000	m <sup>3</sup> /h	0.9 - 62	1.1 - 114	2 - 227
Normal Flow Range	U.S. gpm	4 - 200	5 - 400	9 - 750	m <sup>3</sup> /h	0.9 - 45	1.1 - 91	2 - 170
Low Flow 9100% @ ± 5%)	U.S. gpm	3	4	8	m <sup>3</sup> /h	0.68	0.91	1.82
Maximum Intermittent Flow	U.S. gpm	275	500	1000	m <sup>3</sup> /h	62	114	227
Maximum Working Pressure	psi	175	175	175	kPa	12	12	12
Maximum Working Temperature	°F	120	120	120	°C	49	49	49
Length (A below)	in	13	19	23	mm	330	483	584
Width (B below)	in	5.25	7.5	9	mm	133	191	229
Height	in	7	9.5	10	mm	178	241	254
Height, bottom to center line (D below)	in	2.5	3.75	4.5	mm	64	95	114
Weight	lb	26.5	56	75	kg	12.0	25.4	34.0
Maincase Material	-	Bronze	Bronze	Bronze	-	Bronze	Bronze	Bronze
Flanges	-	Elliptical	Round	Round	-	Elliptical	Round	Round

Head Loss Curves



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