



# MMT Turbine Meters

40 mm to 300 mm (1-1/2" to 12")

High accuracy and long life, high volume water measurement.



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

**Efficient Flow Patterns:** AWWA C-701 Class II MMT and 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 200 mm (8") MMT Turbines provide long service life. For 255 mm (10") and 300 mm (12") sizes, cost-effective epoxy-coated cast iron construction affordably provides performance, strength and endurance. Nylon inlet flow conditioners and polypropylene rotors insure high accuracy and long service life.

**Electronic Reading Compatible:** All Master Meter MMTs 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

- Meets All AWWA Standards; NSF Certified
- High Accuracy Reads
- Efficient Flow Patterns
- Durable Construction
- Electronic Reading Compatible
- Wide Range of Flow



## TECHNICAL SPECIFICATIONS

<b>Description</b>	AWWA Class II Turbine Meter; Certified by NSF to NSF/ANSI Standard 61.	<b>Magnetic Drive</b>	A reliable, direct magnetic drive provides linkage between measurement element and register. No intermediate gearing is required; no gearing is exposed to water.
<b>Design/Operation</b>	Velocity-type meter. Water that is evenly distributed by multiple converging inlet ports flows past an impeller in the measuring chamber, creating an impeller velocity directly proportional to water flow rate. This meter's register integrates that velocity into totalized flow. The register assembly is removable under line pressure permitting upgrades in reading technology on this long life meter with low headloss.	<b>Register</b>	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.
<b>Main Case</b>	50 mm (2") - 200 mm (8") constructed of waterworks bronze, 81% copper composition, with flanged ends. 255 mm (10") and 300 mm (12") constructed of epoxy-coated cast iron. 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.	<b>Register Sealing</b>	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.
<b>Measuring Chamber</b>	Meter chamber assembly and turbine are constructed of durable, engineering plastics for extended service life.	<b>Test Circle</b>	Large center sweep hand with 100 clearly indicated graduations per minimum registration unit, with each tenth marked.
		<b>Low Flow Detector</b>	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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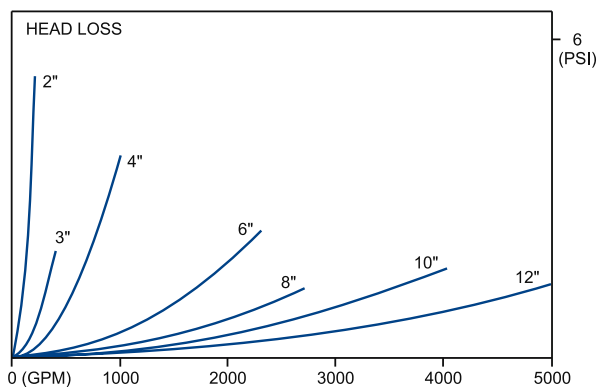
## TECHNICAL DATA - US UNITS

Characteristic	Unit of measurement	1-1/2"	2"	3"	4"	6"	8"	10"	12"
Normal Operating Range (100% @ ± 1.5%)	U.S. gpm	3 - 160	4 - 350	5 - 530	9 - 1350	25 - 2700	35 - 3500	60 - 6500	180 - 8800
Normal Flow Range	U.S. gpm	3 - 120	4 - 200	5 - 400	9 - 1000	25 - 2300	35 - 2700	60 - 6500	180 - 4400
Low Flow (100% @ ± 3%)	U.S. gpm	2.5	3	4	8	20	27	44	50
Maximum Intermittent Flow	U.S. gpm	160	350	530	1350	2700	3500	6500	8800
Maximum Working Pressure	psi	175	175	175	175	175	175	175	175
Maximum Working Temperature	°F	120	120	120	120	120	120	120	120
Length (A below)	in	10	10	12	14	18	20	18	20
Width (B below)	in	5.4	5.9	7.5	8.9	11.1	13.6	16.2	18.4
Height	in	6.8	6.8	9.4	10.0	12.4	13.0	17.5	18.6
Height, bottom to center line (D below)	in	2.1	2.2	3.7	4.4	5.5	6.0	8.1	9.2
Weight	lb	16	24	37	42	108	140	167	21
Maincase Material	-	Bronze	Bronze	Bronze	Bronze	Bronze	Bronze	Bronze	Bronze
Flanges/End Connections	-	Elliptical	Elliptical	Round	Round	Round	Round	Round	Round

## TECHNICAL DATA - INTERNATIONAL UNITS

Characteristic	Unit of measurement	40 mm	50 mm	75 mm	100 mm	150 mm	200 mm	250 mm	300 mm
Normal Operating Range (100% @ ± 1.5%)	m³/h	0.7 - 36	0.91 - 79	1.14 - 120	2.04 - 307	5.7 - 613	7.9 - 795	13.6 - 1476	40.9 - 1999
Normal Flow Range	m³/h	0.7 - 27	0.91 - 45	1.14 - 90	2.0 - 227	5.7 - 522	7.9 - 613	13.6 - 1476	40.9 - 999
Low Flow (100% @ ± 3%)	m³/h	0.57	0.68	0.91	1.82	4.54	6.13	9.99	11.36
Maximum Intermittent Flow	m³/h	36	79	120	307	613	795	1476	1999
Maximum Working Pressure	kPa	1207	1207	1207	1207	1207	1207	1207	1207
Maximum Working Temperature	°C	49	49	49	49	49	49	49	49
Length (A below)	mm	254	254	305	356	457	508	457	508
Width (B below)	mm	137	150	191	226	282	345	411	467
Height	mm	173	173	239	254	315	330	445	472
Height, bottom to center line (D below)	mm	53	56	94	112	140	152	206	234
Weight	kg	7.3	10.9	16.8	19.1	49.0	63.5	75.7	9.5
Maincase Material	-	Bronze	Bronze	Bronze	Bronze	Bronze	Bronze	Bronze	Bronze
Flanges/End Connections	-	Elliptical	Elliptical	Round	Round	Round	Round	Round	Round

Head Loss Curves



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