



MMPD Water Meter

15 mm (5/8")

Not your father's PD meter.



The MMPD is the first member of the Positive Displacement family of meters developed with 21st-century design tools like CFD and other software that allow design of accuracy, durability and quiet operation previously unattainable.

It is available as a standard PD meter or with our DIALOG 3G-DS technology as an AMR solution.

BENEFITS & FEATURES

- 21st-century tools used like Computational Fluid Dynamics (CFD) and analytical software to suggest configurations
- Ultra-low head loss at 6.5 PSI at 4,5 m³/h (20 GPM)
- Tested over 5 million gallons with new meter accuracy, independent testing being used to verify results
- Quiet noise level accomplished by designing resonance levels above QMAX
- Improved capability to pass entrained solids

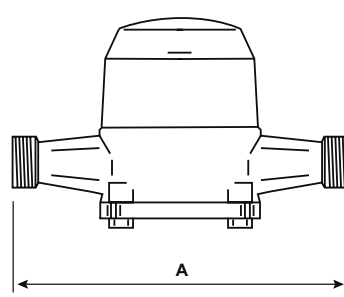
TECHNICAL SPECIFICATIONS

AWWA Standard	Meets or exceeds all sections of Standard ANSI / AWWA C700, most recent revision for cold water displacement meters with bronze main cases.	Magnetic Drive	A reliable, direct magnetic drive provides linkage between the measuring element and the register. No gearing is exposed to water.
Design/Operation	Incoming water is continuously divided into crescent-shaped volumes by the action of the inlet ports, chamber interior and piston walls as controlled by the control roller assembly. This hydraulic action causes the center of the oscillating piston measuring element to make essentially continuous circular movements. A drive spindle formed integrally with the piston web moves the drive magnet. A follower magnet in the register assembly is directly connected to a gear system in the register that totalizes those movements into the desired billing units. The register assembly is removable under line pressure permitting upgrades in reading technology on this long life meter.	Register	Standard direct read, DIALOG® 2G, 3G, and 3G-DS AMR System registers are available. Six wheel odometers are standard.
Main Case	Choice of waterworks bronze case of 81% copper composition or a higher copper, unleaded bronze. All main cases incorporate externally threaded straight pipe threads to aid installation using industry standard tailpiece assemblies.	Register Sealing	Direct read and DIALOG registers are permanently sealed employing a scratch resistant glass lens, stainless steel cup base and a wrap-around elastomeric gasket to prevent intrusion of water, dirt or moisture.
Measuring Chamber	The measuring chamber housing and piston measuring element are constructed of smoothly-finished, water-lubricated engineering plastics. The removable chamber is sealed to the main case by a unique elastomeric chamber seal that resists the chances of back pressure seal blowouts and adverse effects on accuracy due to normal pipeline distortions. Measuring chamber surfaces serving as bearing surfaces are generously dimensioned in water-lubricated polymers; these generous surfaces and unique mechanical control process allow more generous operating clearances but with outstanding low flow accuracy and long operating life. Key small wear components such as the division plate, control roller and drive dog are constructed from hydrolytically-stable, lubricated nylon minimizing localized wear.	Register Units	Registration available in either U.S. gallons, cubic feet or cubic meters. Test Circle Large, center sweep hand with one hundred (100) clearly marked graduations on the outer periphery of the dial face.
		Low Flow/Leak	Indicator Center mounted indicator with high sensitivity resulting from direct one-to-one linkage to the measuring element.
		Data Logging	The DIALOG 3G Direct Sequence Spread Spectrum (DSSS) Wireless RF Radio has a large memory capacity for 7,000 individual reads that is programmable to meet any requirement. The default standard is to collect a read every 15 minutes for 72 days, 22 hours.
		Strainer	A rigid polymer strainer is provided with more than 4 times the open area of the pipe.
		Frost Protection (option)	In addition to standard bronze bottom plates, an optional bottom plate is available for frost protection made from reinforced engineering plastic.
		Tamper Detection	Register box screws are sealed as a tamper resistant feature and provide a visual indication of tampering attempts.

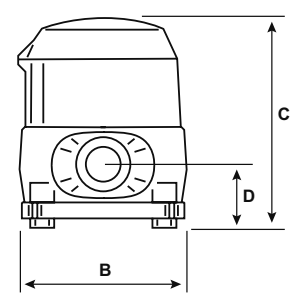
See reverse side for more specifications »

MMPD Water Meter - 15 mm (5/8")

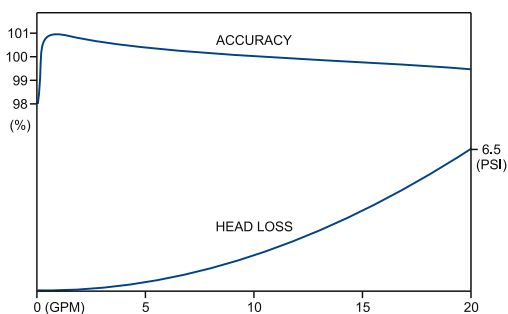
Characteristic	TECHNICAL DATA - US UNITS			TECHNICAL DATA - INTERNATIONAL UNITS		
	Unit of measurement	5/8" x 1/2"	5/8" x 3/4"	Unit of measurement	15 mm	15 x 20 mm
Maximum Flow	U.S. gpm	20	20	m ³ /h	4.5	4.5
Continuous Flow	U.S. gpm	10	10	m ³ /h	2.3	2.3
Normal Flow Range (100% @ ± 1.5%)	U.S. gpm	1 - 20	1 - 20	m ³ /h	.23 - 4.5	.23 - 4.5
Low Flow (100% @ ± 3%)	U.S. gpm	.25	.25	m ³ /h	0.06	0.06
Extended Low Flow (starting flow)	U.S. gpm	.13	.13	m ³ /h	0.03	0.03
Maximum Working Pressure	psi	150	150	kPa	1034	1034
Maximum Working Temperature	°F	105	105	°C	41	41
Specific Displacement	revs/gal	56.4	56.4	revs/litre	15.3	15.3
Headloss at Maximum Flow Rate	psi	6.5	6.5	kPa	44.82	44.82
Length (A below)	in	7.5	7.5	mm	191	191
Width (B below)	in	3.81	3.81	mm	97	97
Height, standard register with lid (C below)	in	5.38	5.38	mm	137	137
Height, bottom to center line (D below)	in	1.63	1.63	mm	41	41
Weight	lb	4.25	4.25	kg	1.9	1.9
Packed to carton	units	6	6	units	6	6
Carton weight	lb	30	30	kg	11.6	11.6



Standard PD Water Meter



Accuracy & Head Loss Curves



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*Patents pending.

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