



General Information

MD-Series meters use the multi-jet principle, which has been an internationally-accepted standard for many years. This type of meter is known for its wide range, simplicity, and accuracy in low-quality water. The impeller is centered in a ring of jets, with inlet jets on one level and outlet jets on another. A gear train drives the register totalizer dials. For pulse output, one of the dials is replaced by gear, which turns a magnet, which is detected by an encapsulated sensor threaded into the outside of the lens. Pulse rate is determined by the gear and gear placement (which dial). Changing the pulse rate requires no special tools and can be done in the field.

Mechanically, all MD-Series meters are the same. The difference between MDE, MDR, and MDT meters is in the sensor. MDE meters use a solid-state, long-lasting Hall-effect sensor, which requires power. It is suited for use with SeaMetrics controls and metering pumps (LMI for instance) which have sensor power. MDR meters use a two-wire reed switch. They provide a dry contact closure and do not require power. MDT meters totalize only and do not have a sensor.

Specifications

Materials

Case Cast bronze
Internals Engineered thermoplastic
Magnet Ceramic permanent

Temperature

105° F, 40° C

Max. Pressure

150 PSI operating

Accuracy

1-1/2% of reading

Sensor

MDE Hall-effect device
MDR Reed switch

Max. Current

MDE 20 mA
MDR 50 mA

Max. Voltage

MDE 24 VDC
MDR 24 VDC or VAC

Sensor Power (MDE)

Minimum 6 mA at 12 VDC

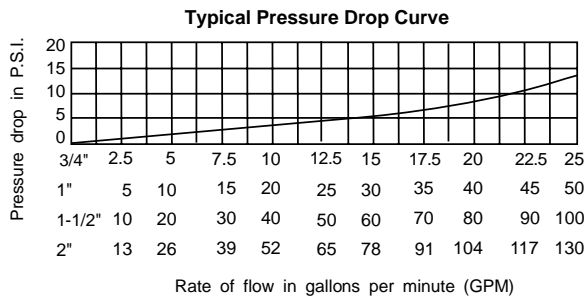
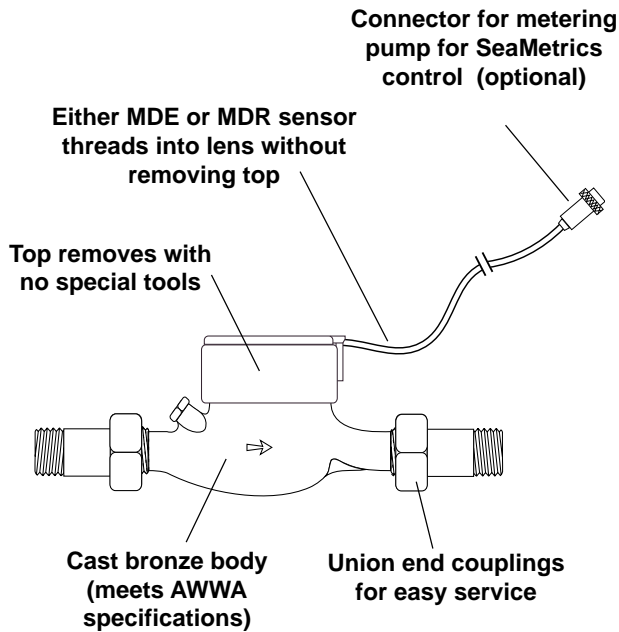
Cable Length

12 ft. standard, 2,000 ft. max.

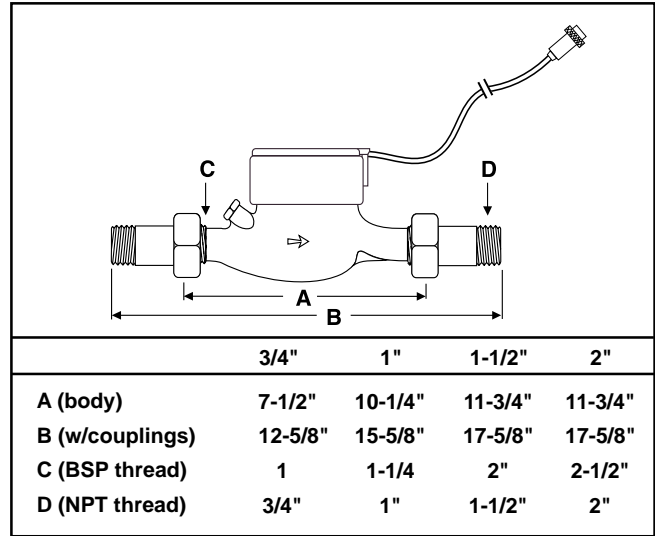
Flow Rates (GPM):

	3/4"	1"	1-1/2"	2"
Minimum	0.22	0.44	0.88	1.98
Maximum	22	52	88	132

Features



Dimensions



	3/4"	1"	1-1/2"	2"
Pulses per Gallon	20	20		
	10	10		
	2	2	2	2
	1	1	1	1
Gallons per Pulse	1	1	1	1
	5	5	5	5
	10	10	10	10
	50	50	50	50
	100	100	100	100
			500	500
			1000	1000

How To Order

Size: (see size codes)
Pulse Rate: P = Pulses per gallon
 G = Gallons per pulse
Option: (see option codes)

MDE - _____ - _____ - _____
MDR - _____ - _____ - _____
MDT - _____

Size codes:

075 = 3/4"
100 = 1"
150 = 1-1/2"
200 = 2"

Option codes:

06 LMI pump connector
07 Seametrics control connector
11 Extra cable (specify)

SeaMetrics

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