



General Information

M-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 a magnet, which is detected by an encapsulated sensor threaded into the outside of the lens. Pulse rate is determined by the number of poles on the magnet and the dial placement. Changing the pulse rate requires no special tools and can be done in the field.

Mechanically, all M-Series meters are the same. The difference between ME, MR, and MT meters is in the sensor. ME 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. MR meters use a two-wire reed switch. They provide a dry contact closure and do not require power. MT 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

ME Hall-effect device
MR Reed switch

Max. Current

ME 20 mA
MR 50 mA

Max. Voltage

ME 24 VDC
MR 24 VDC or VAC

Sensor Power (ME)

Minimum 6 mA at 12 VDC

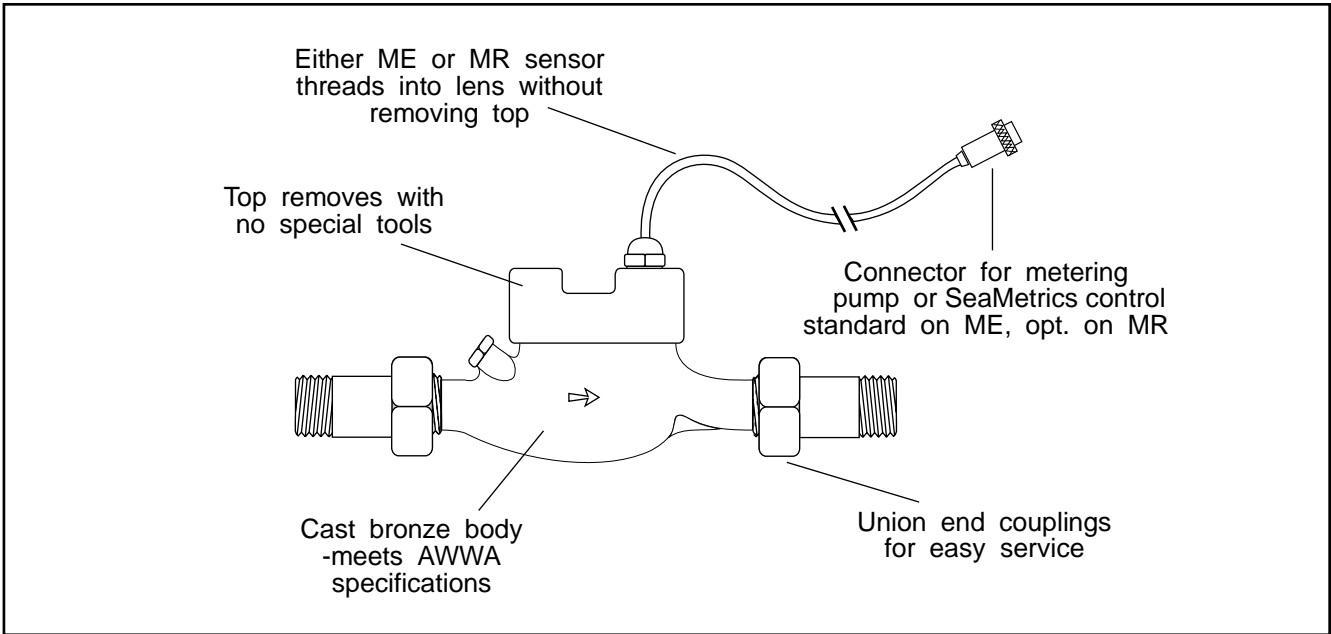
Cable Length

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

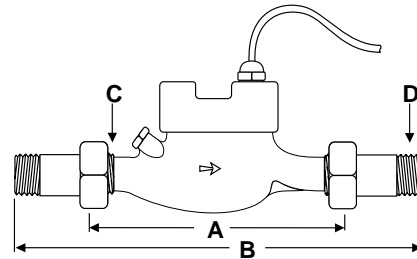
Flow Rates (GPM):

	3/4"	1"	1-1/2"	2"
Minimum	0.25	0.30	0.50	1.00
Maximum	20	50	100	130

Features



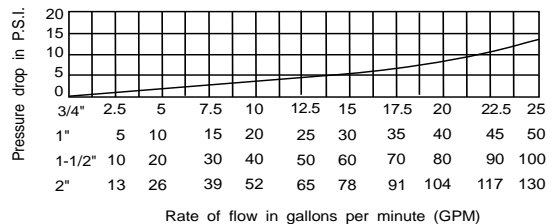
	3/4"	1"	1-1/2"	2"
Pulses per Gallon	95			
	40	52		
	20	26		
	10	13	20	19
	4	4	10	9.5
	2	2	5	4.75
	1	1	1	1
Gallons per Pulse	1	1	1	1
	2.5	2.5	2.5	2.5
	5	5	5	5
	10	10	10	10
	25	25	25	25
	50	50	50	50
	100	100	100	100



Dimensions

	3/4"	1"	1-1/2"	2"
A (body)	7-1/2"	10-3/4"	12-5/8"	10-5/8"
B (w/couplings)	12-5/8"	16-1/8"	18-1/2"	16-7/8"
C (IPS thread)	—	—	2"	2-1/2"
D (NPT thread)	3/4"	1"	1-1/2"	2"

Typical Pressure Drop Curve



How To Order

Size: (See Sizes to right)
Pulse Rate: P = Pulses per gallon, G = Gallons per pulse
Option: (See options to right)

ME - _____ - _____ - _____
 MR - _____ - _____ - _____

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

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



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