

Seametrics MJ/MJH-Series Pulse Flow Meters

MJ-Series meters use a multi-jet principle, which has been an internationally accepted standard for years. The MJ-Series impeller is centered between inlet and outlet jets. This design is known for its wide range, simplicity, and accuracy in low-quality fluids. Using a gear train drive, the registered dials provide totalized fluid flow.

FEATURES

- Dry top multi-jet design
- Tolerates low quality water
- Simple pulse output
- Cold or hot water models

OPERATION

For pulse output, one of the pointers is replaced by a magnet, which is detected by an encapsulated sensor attached to the outside of the lens. Pulse rate is determined by the dial on which the magnet is placed. Pulse rates changes require no special tools and can be done in the field.

Mechanically, all MJ-Series meters are the same. The difference among *MJE/ MJHE, *MJR/MJHR and *MJT/MJHT meters is in the sensor. MJE/MJHE 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) that have sensor power. MJR/MJHR meters use a two-wire reed switch. They provide a dry contact closure and do not require power. MJT/MJHT meters totalize only and do not have a sensor.

***Note on Nomenclature:** Meter names that include "H" are hot water models. Without the "H" = cold water models.



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Geotech Environmental Equipment, Inc.

2650 East 40th Avenue • Denver, Colorado 80205

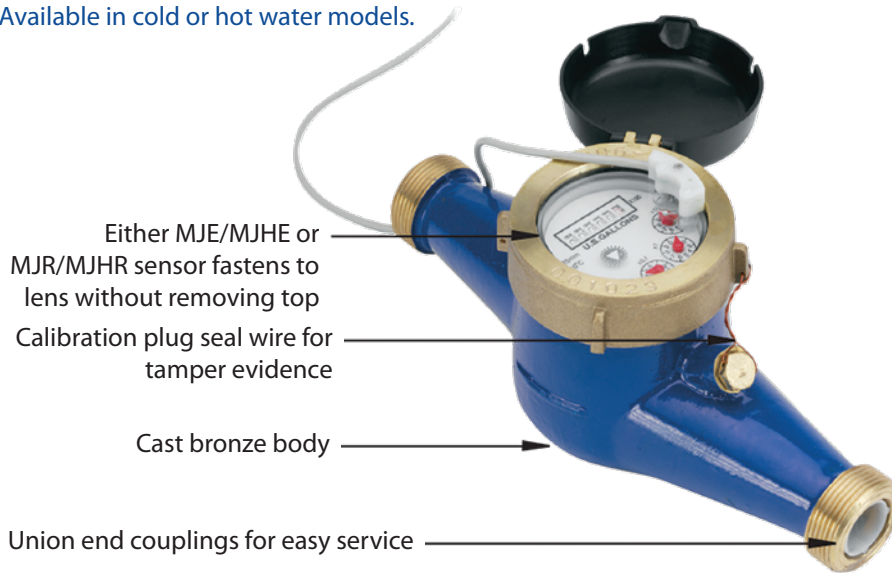
(303) 320-4764 • FAX (303) 322-7242

email: sales@geotechenv.com • website: www.geotechenv.com

Seametrics MJ/MJH-Series Pulse Flow Meters

COMPONENT FEATURES

Available in cold or hot water models.



ACCESSORIES

Pulse Divider = PD10

Pulse Splitter = PS40

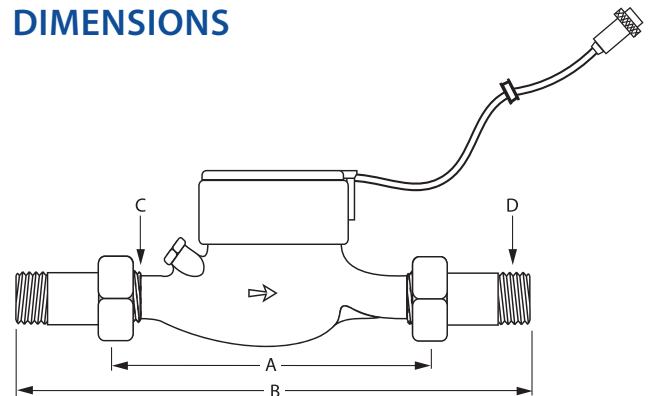
Pulse Timer = PT35

SPECIFICATIONS*

Power	6 mA at 12 VDC (MJE/MJHE only)			
Temperature Model	Cold Water:	105 °F (40 °C) max.		
	Hot Water:	194 °F (90 °C) max.		
Pressure	150 psi operating (10.3 Bar)			
Materials	Body:	Cast bronze, epoxy powder coated inside and out		
	Internals:	Engineered thermoplastic		
	Magnet:	Alnico		
	Fittings:	Lead-free tail piece		
Accuracy	±1.5% of reading			
Pulse Output	MJE/MJHE	MJR/MJHR	MJT/MJHT	
Sensor:	Hall-effect device	Reed switch	Totalizer only	
Max. Current:	20mA+	20mA	n/a	
Max. Voltage:	24 VDC	24 VDC or VAC	n/a	
Cable Length	12' (4m) standard (2000' maximum run)			
Flow Rates (GPM)	¾"	1"	1½"	2"
Minimum:	0.22	0.44	0.88	1.98
Maximum:	22	52	88	132

*Specifications subject to change.

DIMENSIONS



	¾"	1"	1½"	2"
A (body)	7½"	10¼"	11¾"	11¾"
B (w/couplings)	11⅝"	15"	17"	17⅝"
C (IPS thread)	1"	1¼"	2"	2½"
D (NPT thread)	¾"	1"	1½"	2"

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PULSE RATES

	¾"	1"	1½"	2" (MJN only)
Pulses per Gallon	20* 10 4† 2* 1	4† 2* 1	4† 2* 1	4† 2* 1
Gallons per Pulse	1 5* 10 50* 100	1 5* 10 50* 100	1 5* 10 50* 100	1 5* 10 50* 100
Cubic Feet per Pulse	1 5* 10	1 5* 10	1 5* 10	1 5* 10
Pulses per Cubic Meter	1 10 100	1 10 100	1 10 100	1 10 100
Liters per Pulse	1 10 100	1 10 100	1 10 100	1 10 100

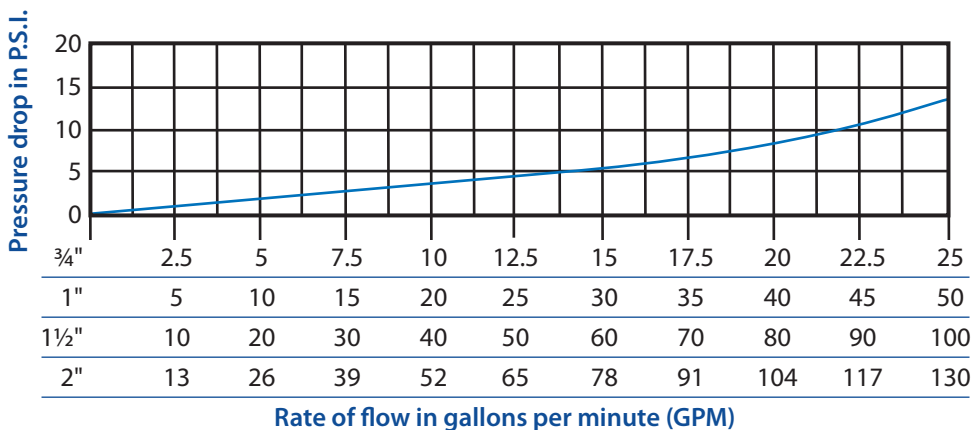
*MJPR/MJNR dual reed switch meters only.
†MJPR/MJNR single reed switch meters only.

HOW TO ORDER

Model	Size	Pulse Rate	Options
Cold water, Reed switch = MJR	¾" = -075	†20 Pulse/Gal = 20P	LMI 4-pin pump connector = -06
Cold water, Hall-effect sensor = MJE	1" = -100	†10 Pulse/Gal = 10P	Seametrics 3-pin control connector = -07
Cold water, Totalizer only = MJT	1½" = -150	*4 Pulse/Gal = 4P	LMI 5-pin pump connector = -106
Hot water, Reed switch = MJHR	2" = -200	*2 Pulse/Gal = 2P	
Hot water, Hall-effect sensor = MJHE		1 Gal/Pulse = 1G	
Hot water, Totalizer only = MJHT		*5 Gal/Pulse = 5G	
		10 Gal/Pulse = 10G	
		*50 Gal/Pulse = 50G	
		100 Gal/Pulse = 100G	
		1 CF/Pulse = 1CF	
		*5 CF/P = 5CF	
		10 CF/P = 10CF	
		1 CM/P = 1CM	
		10 CM/P = 10CM	
		100 CM/P = 100CM	
		1L/P = 1L	
		10 L/P = 10L	
		100 L/P = 100L	

†¾" Only
*MJR/MJHR Meters Only

PRESSURE DROP CURVE



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