Seametrics

FEATURES

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

APPLICATIONS

- Cooling tower chemical control
- Industrial water treatment
- Deduct metering

Hot Water Model

GENERAL INFORMATION

MJ-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. Seametrics offers cold or hot water models. 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 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, and by the number of sensors (single or double).

Changing the pulse rate requires 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.

FEATURES

Available in cold or hot water models

Either MJE/MJHE or MJR/MJHR sensor fastens to lens without removing top

Calibration plug seal wire for tamper evidence

Cast bronze body

Union end couplings for easy service

SPECIFICATIONS*

Power		6 mA at 12 Vdc (MJE/MJHE only)		
Temperature	**Cold Water Model**	105˚ F (40˚ C) max		
	Hot Water Model	194˚ F (90˚ C) max		
Pressure		150 psi operating		
Materials	**Body**	Cast bronze, epoxy powder coated inside and out		
	Internals	Engineered thermoplastic		
	Magnet	Alnico		
Accuracy		+/- 1.5% of reading		
Pulse Output		**MJE/MJHE**	**MJR/MJHR**	**MJT/MJHT**
	Sensor	Hall-effect device	Reed switch	Totalizer only
	Max Current	20 mA	20mA	n/a
	Max Voltage	24 Vdc	24 Vdc or Vac	n/a
Cable Length		12' (4 m) standard (2000' maximum run)		
Flow Rates (GPM)		**3/4"**	**1"**	**1-1/2"**	**2"**
	Minimum	0.22	0.44	0.88	1.98
	Maximum	22	52	88	132

*Specifications subject to change • Please consult our website for current data (www.seametrics.com).

DIMENSIONS
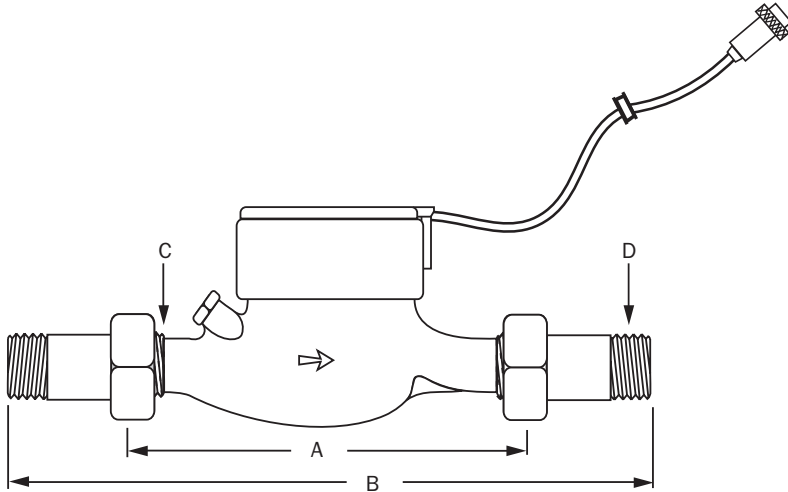
	3/4"	1"	1-1/2"	2"
A (body)	7-1/2"	10-1/4"	11-3/4"	11-3/4"
B (w/couplings)	12-5/8"	15-5/8"	17-5/8"	17-5/8"
C (IPS thread)	1"	1-1/4"	2"	2-1/2"
D (NPT thread)	3/4"	1"	1-1/2"	2"

PULSE RATES

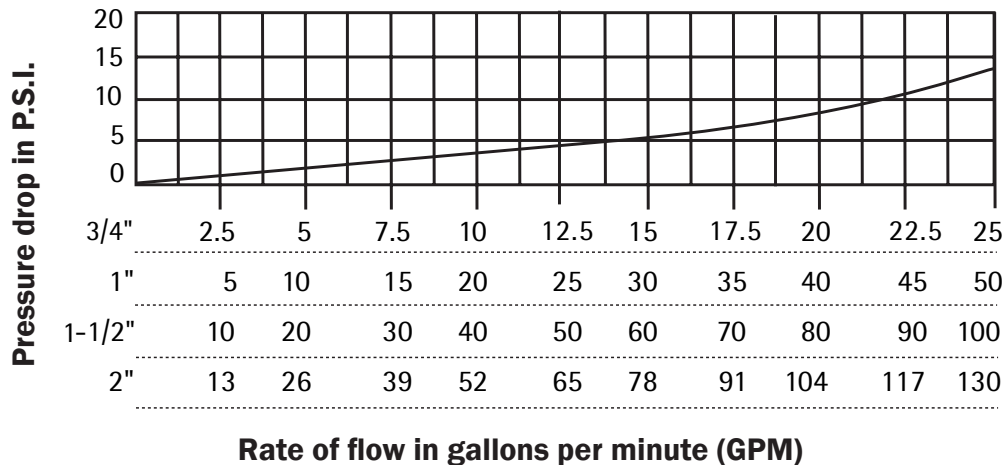|	3/4"	1"	1-1/2"	2"
Pulses per Gallon	20* 10 4† 2* 1	4† 2* 1	4† 2* 1	4† 2* 1
Gallons per Pulse	1 5* 10 50* 100	1 5* 10 50* 100	1 5* 10 50* 100	1 5* 10 50* 100
Cubic Feet per Pulse	1 5* 10	1 5* 10	1 5* 10	1 5* 10

*These pulse rates available in MJR and MJHR dual reed switch meters only.

†This pulse rate available in MJR and MJHR single reed switch meters only.

FLOW RATES (GPM)

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

PRESSURE DROP CURVE

3/4"	2.5	5	7.5	10	12.5	15	17.5	20	22.5	25
1"	5	10	15	20	25	30	35	40	45	50
1-1/2"	10	20	30	40	50	60	70	80	90	100
2"	13	26	39	52	65	78	91	104	117	130

Rate of flow in gallons per minute (GPM)

HOW TO ORDER

MODEL

Cold water, Reed switch **= MJR**
Cold water, Hall-effect sensor **= MJE**
Cold water, Totalizer only **= MJT**

Hot water, Reed switch **= MJHR**
Hot water, Hall-effect sensor **= MJHE**
Hot water, Totalizer only **= MJHT**

SIZE

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

PULSE RATE

†*20 Pulse/Gal **= 20P**
†10 Pulse/Gal **= 10P**
*4 Pulse/Gal **= 4P**
*2 Pulse/Gal **= 2P**
1 Gal/Pulse **= 1G**
*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**

†3/4" Only
*MJR and MJHR Meters Only

OPTIONS

LMI pump connector **= -06**

Seametrics control connector **= -07**

ACCESSORIES

Pulse divider **= PD10**

Pulse splitter **= PS40**

Pulse timer **= PT35**

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