MJN-SERIES
PULSE METER

MJN-Series

APPLICATIONS

Potable water

Cooling tower chemical control

Industrial water treatment

Deduct metering

Pump Pacing

Features

- Certified to NSF/ANSI standard 61
- Dry top multi-jet design
- Tolerates low quality water
- Simple pulse output

MJN-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 Seametrics MJN-Series is **certified to NSF/ANSI standard 61**. 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.

The **MJN-Series** has a brass body and is available in 3/4", 1", 1 1/2" and 2" versions.

MJNE meters use a solid-state, long-lasting Hall-effect sensor, which requires power. It is suited for use with Seametrics controls and metering pumps that have sensor power.

MJNR meters use a two-wire reed switch. They provide a dry contact closure and do not require power.

MJNT meters totalize only and do not have a sensor.

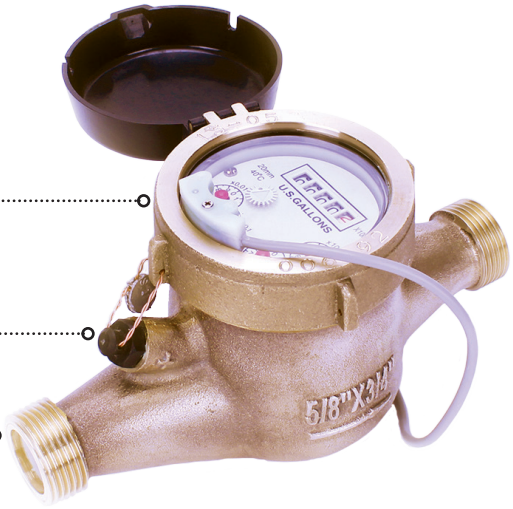
Contact your Supplier

Features

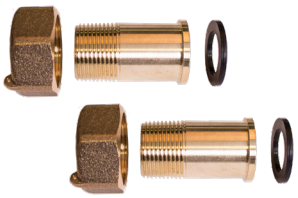
The MJNE or MJNR sensor fastens to lens without removing top

Calibration plug seal wire for tamper evidence

Brass body



MJN-Series (brass body)



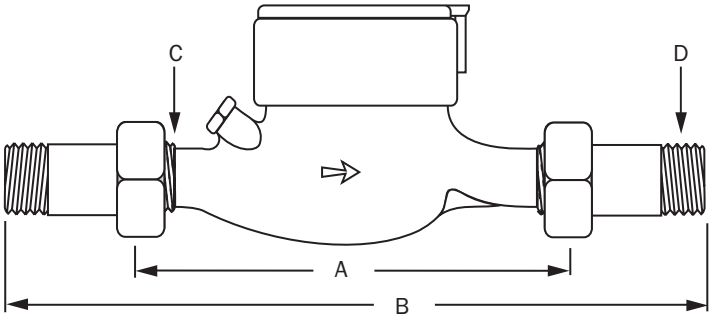
Union end couplings for easy service

Specifications*

Power		6 mA at 12 Vdc (MJPE & MJNE only)			
Temperature		105˚ F (40˚ C) max			
Pressure		150 psi operating (10.3 Bar)			
Materials	**Body**	Eco-brass alloy (MJN)			
	Internals	Engineered thermoplastic			
	Magnet	Alnico			
	Fittings	Lead-free tail piece			
Accuracy		±1.5% of reading			
Pulse Output		**MJNE**	**MJNR**	**MJNT**	
	Sensor	Hall-effect device	Reed switch	Totalizer only	
	Max Current	20 mA	20 mA	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	0.25	0.75	1.5	2.0
	Maximum	20	50	100	160
Regulatory		Certified to NSF/ANSI standard 61, complies with Federal Public Law 111-380			
Standards		ISO4064 Class B, AWWA C708			

**Specifications subject to change • Please consult our website for current data (www.seametrics.com).*
*** Caution: Excessive flow can cause breakage. Do not exceed recommended maximums.*

Dimensions



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

MJN	3/4"	1"	1 1/2"	2"
A (body)	7 1/2"	10 1/4"	11 3/4"	11 3/4"
B (w/couplings)	11 5/8"	15"	17"	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

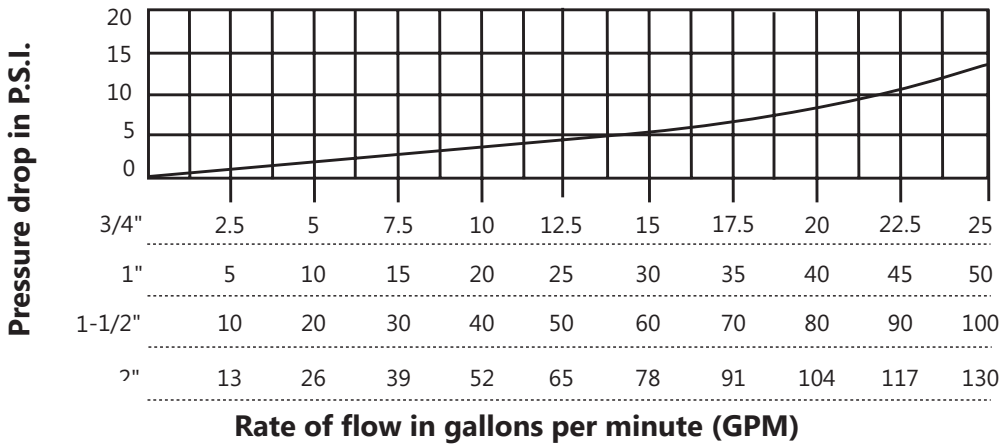
	3/4"	1"	1 1/2"	2" *(MJN only)*
Pulses per Gallon	20* 10 4† 2* 1	 4† 2* 1	 4† 2* 1	 4† 2* 1
Gallons per Pulse	1 5* 10 50* 100	1 5* 10 50* 100	1 5* 10 50* 100	1 5* 10 50* 100
Cubic Feet per Pulse	1 5* 10	1 5* 10	1 5* 10	1 5* 10
Pulses per Cubic Meter	1 10 100	1 10 100	1 10 100	1 10 100
Liters per Pulse	1 10 100	1 10 100	1 10 100	1 10 100

**MJNR dual reed switch meters only*
†MJNR single reed switch meters only

Shipping Weight

	MJN	
	lb	kg
3/4"	6	2.7
1"	8	3.6
1 1/2"	13	5.9
2"	16	7.3

Pressure Drop Curve



MJN-SERIES
PULSE METER

How to Order

Model

MJNR = Reed Switch
MJNE = Hall-effect sensor
MJNT = Totalizer only

Size

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

Pulse Rate

		MJNR (Single Reed)	MJNR (Dual Reed)	MJNE	MJNT
20P	= 20 Pulse/Gal		√*		
10P	= 10 Pulse/Gal	√*		√*	
4P	= 4 Pulse/Gal	√			
2P	= 2 Pulse/Gal		√		
1G	= 1 Gal/Pulse	√		√	
5G	= 5 Gal/Pulse		√		
10G	= 10 Gal/Pulse	√		√	
50G	= 50 Gal/Pulse		√		
100G	= 100 Gal/Pulse	√		√	
1CF	= 1 CF/Pulse	√		√	
5CF	= 5 CF/Pulse		√		
10CF	= 10 CF/Pulse	√		√	
1CM	= 1 Pulse/CM	√		√	
10CM	= 10 Pulse/CM	√		√	
100CM	= 100 Pulse/CM	√		√	
1L	= 1 Liter/Pulse	√		√	
10L	= 10 Liter/Pulse	√		√	
100L	= 100 Liter/Pulse	√		√	
G	= Gallons				√
CF	= Cubic Feet				√
CM	= Cubic Meters				√
L	= Liters				√

**3/4" only*

Options

-06 = LMI 4-pin pump connector
-07 = Seametrics 3-pin control connector
-106 = LMI 5-pin pump connector

Accessories

PS40 = Pulse splitter
PT35 = Pulse timer

103239-075 = 3/4" Brass coupling assembly w/gasket (incl 2 sets)
103239-100 = 1" Brass coupling assembly w/gasket (incl 2 sets)
103239-150 = 1.5" Brass coupling assembly w/gasket (incl 2 sets)
103239-200 = 2" Brass coupling assembly w/gasket (incl 2 sets)