

# 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. 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 can be done easily in the field.

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

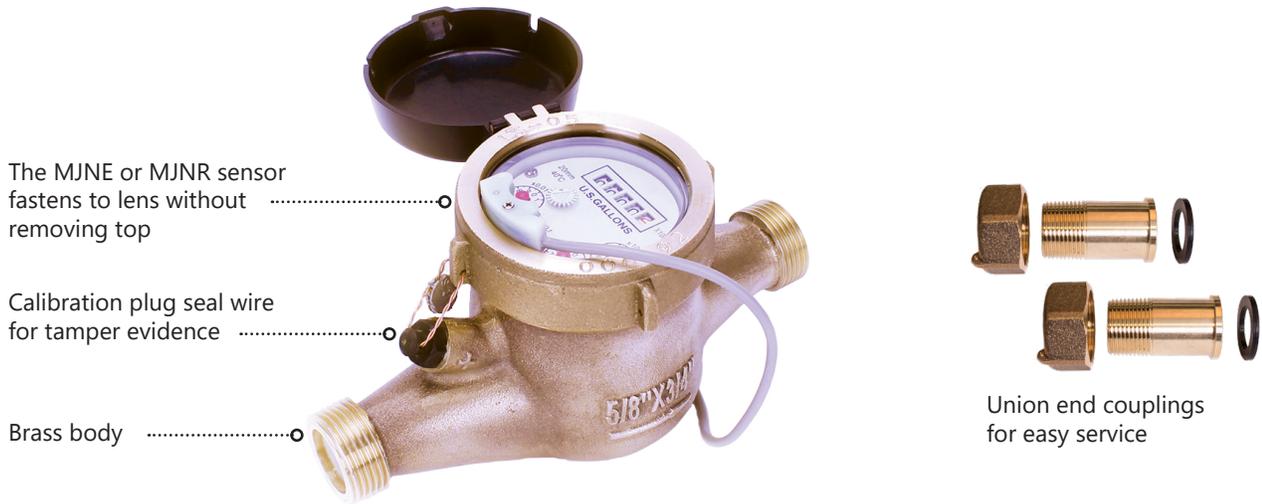
**MJNE** meters use a solid-state, long-lasting Hall-effect sensor, which requires power. It is suited for use with Seametrics controls and metering pumps that have sensor power.

**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



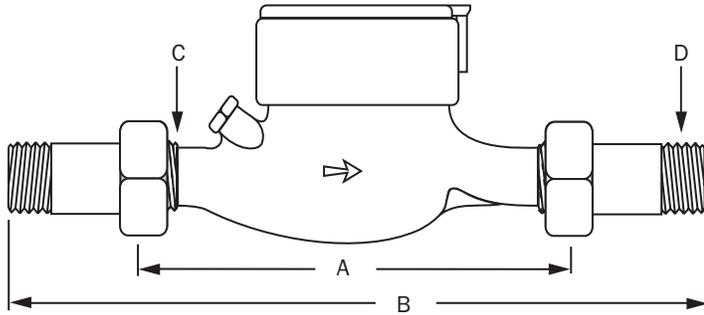
## Specifications\*

<b>Power</b>	6 mA at 12 Vdc (MJPE & MJNE only)				
<b>Temperature</b>	105° F (40° C) max				
<b>Pressure</b>	150 psi operating (10.3 Bar)				
<b>Materials</b>	<b>Body</b>	Eco-brass alloy (MJN)			
	<b>Internals</b>	Engineered thermoplastic			
	<b>Magnet</b>	Alnico			
	<b>Fittings</b>	Lead-free tail piece			
<b>Accuracy</b>	±1.5% of reading				
<b>Pulse Output</b>		<b>MJNE</b>	<b>MJNR</b>	<b>MJNT</b>	
	<b>Sensor</b>	Hall-effect device	Reed switch	Totalizer only	
	<b>Max Current</b>	20 mA	20 mA	n/a	
	<b>Max Voltage</b>	24 Vdc	24 Vdc or Vac	n/a	
<b>Cable Length</b>	12' (4 m) standard (2000' maximum run)				
<b>Flow Rates (GPM)**</b>		<b>3/4"</b>	<b>1"</b>	<b>1 1/2"</b>	<b>2"</b>
	<b>Minimum</b>	0.25	0.75	1.5	2.0
	<b>Maximum</b>	20	50	100	160
<b>Regulatory</b>	Certified to NSF/ANSI standard 61, complies with Federal Public Law 111-380				
<b>Standards</b>	ISO4064 Class B, AWWA C708				

\*Specifications subject to change • Please consult our website for current data ([www.seametrics.com](http://www.seametrics.com)).

\*\* Caution: Excessive flow can cause breakage. Do not exceed recommended maximums.

## Dimensions



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

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

## Pulse Rates

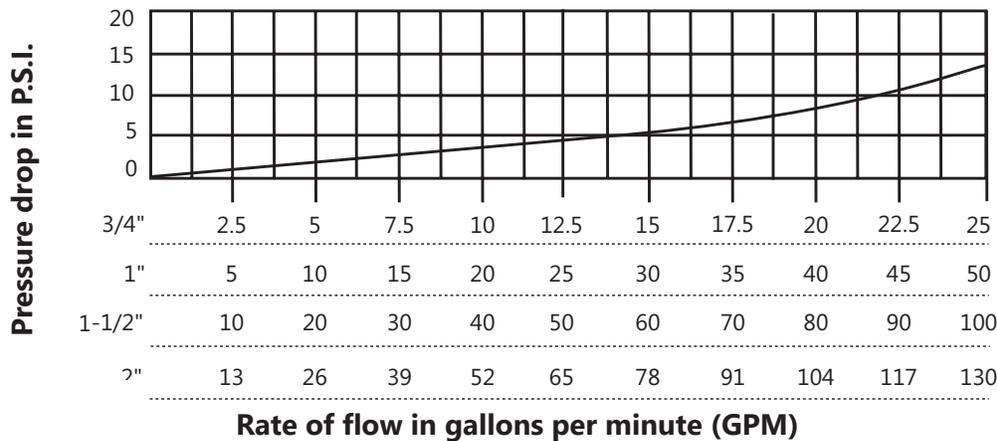
	3/4"	1"	1 1/2"	2"
<b>Pulses per Gallon</b>	20* 10 4† 2* 1	4† 2* 1	4† 2* 1	4† 2* 1
<b>Gallons per Pulse</b>	1 5* 10 50* 100	1 5* 10 50* 100	1 5* 10 50* 100	1 5* 10 50* 100
<b>Cubic Feet per Pulse</b>	1 5* 10	1 5* 10	1 5* 10	1 5* 10
<b>Pulses per Cubic Meter</b>	1 10 100	1 10 100	1 10 100	1 10 100
<b>Liters per Pulse</b>	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
<b>3/4"</b>	6	2.7
<b>1"</b>	8	3.6
<b>1 1/2"</b>	13	5.9
<b>2"</b>	16	7.3

## Pressure Drop Curve



## How to Order

Model	Size	Pulse Rate	MJNR (Single Reed)	MJNR (Dual Reed)	MJNE	MJNT	Options
MJNR = Reed Switch	-075 = 3/4"						-06 = LMI 4-pin pump connector
MJNE = Hall-effect sensor	-100 = 1"						-07 = Seametrics 3-pin control connector
MJNT = Totalizer only	-150 = 1 1/2"						-106 = LMI 5-pin pump connector
	-200 = 2"	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

### Accessories

- PS40 = Pulse splitter
- PT35 = Pulse timer

*User is responsible for reviewing end use application with their supplier for product suitability.*