

MJP/MJN-SERIES

PULSE METER



MJP-Series



MJN-Series

APPLICATIONS

Potable water

Cooling tower chemical control

Industrial water treatment

Deduct metering

Pump Pacing

Features

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

MJP-Series and 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 MJP-Series and MJN-Series are **certified to NSF/ANSI 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 **MJP-Series** has a plastic body and is available in 3/4", 1", and 1 1/2" versions.

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

MJPE & 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.

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

MJPT & MJNT meters totalize only and do not have a sensor.

Contact your Supplier

Features



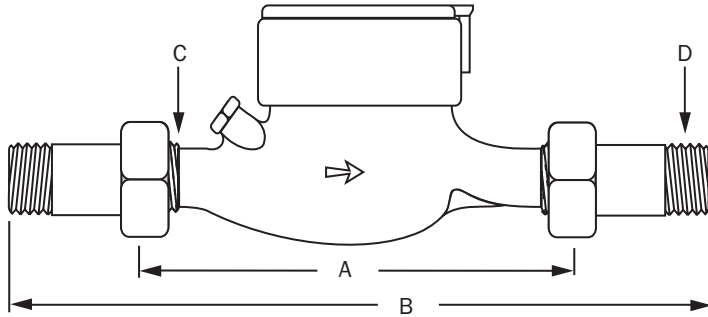
Specifications*

| | | | | |
|---------------------------|---|--|------------------|------------------|
| Power | 6 mA at 12 Vdc (MJPE & MJNE only) | | | |
| Temperature | 105° F (40° C) max | | | |
| Pressure | 150 psi operating (10.3 Bar) | | | |
| Materials | Body | Plastic (MJP) or Eco-brass alloy (MJN) | | |
| | Internals | Engineered thermoplastic | | |
| | Magnet | Alnico | | |
| | Fittings | Lead-free tail piece | | |
| Accuracy | ±1.5% of reading | | | |
| Pulse Output | | MJPE/MJNE | MJPR/MJNR | MJPT/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" |
| | Minimum | 0.25 | 0.75 | 1.5 |
| | Maximum | 20 | 50 | 100 |
| Regulatory | NSF/ANSI 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

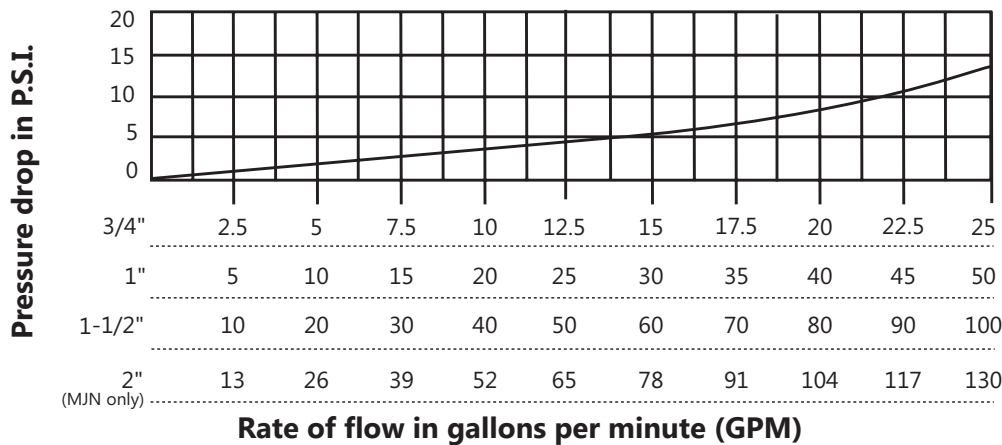
| | 3/4" | 1" | 1 1/2" | 2" <i>(MJN only)</i> |
|-------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Pulses per Gallon | 20* 10 4† 2* 1 | 4† 2* 1 | 4† 2* 1 | 4† 2* 1 |
| Gallons per Pulse | 1 5* 10 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

Shipping Weight

| | MJP | | MJN | |
|---------------|-----|-----|-----|-----|
| | lb | kg | lb | kg |
| 3/4" | 3 | 1.4 | 6 | 2.7 |
| 1" | 4.5 | 2 | 8 | 3.6 |
| 1 1/2" | 7.5 | 3.4 | 13 | 5.9 |
| 2" | n/a | n/a | 16 | 7.3 |

Pressure Drop Curve



How to Order

| Model | Size | Pulse Rate | MJPR/ MJNR (Single Reed) | MJPR/ MJNR (Dual Reed) | MJPE/ MJNE | MJPT/ MJNT | Options |
|---------------------------|-------------------------|------------------------|--------------------------------|------------------------------|---------------|---------------|------------------------------------|
| <u>PLASTIC</u> | -075 = 3/4" | | | | | | -06 = LMI pump connector |
| MJPR = Reed Switch | -100 = 1" | | | | | | -07 = Seametrics control connector |
| MJPE = Hall-effect sensor | -150 = 1 1/2" | | | | | | |
| MJPT = Totalizer only | -200 = 2" (MJN only) | 20P = 20 Pulse/Gal | | √* | | | |
| | | 10P = 10 Pulse/Gal | √* | | √* | | |
| | | 4P = 4 Pulse/Gal | √ | | | | |
| | | 2P = 2 Pulse/Gal | | √ | | | |
| <u>BRASS</u> | | 1G = 1 Gal/Pulse | √ | | √ | | |
| MJNR = Reed Switch | | 5G = 5 Gal/Pulse | | √ | | | |
| MJNE = Hall-effect sensor | | 10G = 10 Gal/Pulse | √ | | √ | | |
| MJNT = Totalizer only | | 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

| | |
|-----------------------|--|
| PD10 = Pulse divider | 103239-075 = 3/4" Brass coupling assembly w/gasket (incl 2 sets) |
| PS40 = Pulse splitter | 103239-100 = 1" Brass coupling assembly w/gasket (incl 2 sets) |
| PT35 = Pulse timer | 103239-150 = 1.5" Brass coupling assembly w/gasket (incl 2 sets) |
| | 103239-200 = 2" Brass coupling assembly w/gasket (incl 2 sets) |
| | 103924-075 = 3/4" Plastic coupling assembly w/gasket (incl 2 sets) |
| | 103924-100 = 1" Plastic coupling assembly w/gasket (incl 2 sets) |
| | 103924-150 = 1.5" Plastic coupling assembly w/gasket (incl 2 sets) |