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VPD® METER

Vertical Positive Displacement Meter With a Dry Contact



Carlon's vertical positive displacement® oscillating piston meter is designed for vertical installation but can be installed horizontally or on an incline provided the meter remains full of water. The meter has a built-in back flow preventer and is housed in an engineered plastic with is corrosion resistant liquid-sealed register for easy reading. The meter is available in gallons at 1 GPC (1 gallon per contact) or liters at 1LPC (1 liter per contact).

The piston meter ensures high sensitivity and accurate registration throughout the range.

CARLON METER

1710 EATON DRIVE • GRAND HAVEN, MICHIGAN 49417
PHONE (616) 842-0420 • FAX (616) 842-1265
E-MAIL CARLON@CARLONMETER.COM • WEBSITE WWW.CARLONMETER.COM

VPD® METER SPECIFICATIONS

Reed Switch: Dry contact, normally open, 24V, 100mA maximum

Meter Size:
- ⅝" x ¾"
- Length = 6.5"
- Width = 3.8"
- Weight = 1.5 pounds

Pressure Rating: Maximum 232 psi

Temperature Range: 33°F < 122°F. Protect the meter from freezing
1°C < 50°C

GPM Range: .1 – 22 GPM Continuous 16 GPM

.38 – 83.3 LPM Continuous 60.6 LPM

Accuracy: +/- 2.0% of maximum flow when operating between minimum and maximum flow range

Meter Options: 750VPDG-1 (Gallons)
750VPDL-1 (Liters)

Contact Points: 1 Gallon per contact (1GPC) = 750 VPDG-1
1 Liter per contact (VPDL-1) = 750VPDL-1

Meter Housing: Corrosion resistant body made of engineered plastic

Features:
- Rotary Piston
- Back flow prevention – internal no-return valve
- Register is liquid filled and sealed for easy reading and long term clarity
- Magnetic Drive
- Integral Strainer





Installation Instructions:

1. Flush the line thoroughly after all plumbing changes to prevent contaminates from entering the meter.
2. Meter can be mounted in any position AND the meter should be constantly full of water.
3. For outdoor installation, protect meter from freezing and direct exposure to the elements.

Warranty: Carlon Meter, Inc. warrants its products to be free of defect in material or workmanship for a period of twelve months from the date of purchase. Contact us to obtain a copy of our complete statement of warranty.

SSM® SERIES METERS

NSF / ANSI 372

SSM® METER



SSMRS® METER



The SSM® series have stainless steel meter bodies, tested and certified to NSF/ANSI 372 for lead free compliance and meet or exceed AWWA specifications. The SSM® Multi-Jet meter has a long meter life and good tolerance to contaminants. The series is well suited for industrial, commercial and residential applications. The dry sealed registers are easy to read and will retain their clear view display. The SSM® series meter is available in sizes from ⅝" x ½" to 2" with maximum flow rates up to 160 GPM and pressures up to 150 psi. Registrations are available in gallons, cubic feet, or liters/cubic meters.

The SSM® meter is a totalizing multi-jet meter for those applications that only need to read the totalized flow at the meter. The SSMRS® which is equipped with a reed switch for a dry contact electrical output.

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METER SELECTION CHART

METER / PIPE SIZE	MODEL	*CONTINUOUS FLOW	FLOW RANGE	WEIGHT	LENGTH	HEIGHT	WIDTH	CONNECTION LENGTH (X2)
⅝" X ½"	625SSM	8 GPM	¼ - 20 GPM	3.3 lbs.	7 ½"	4 ¼"	3 ⅝"	2"
⅝" X ¾"	6251SSM	10 GPM	¼ - 20 GPM	3.3 lbs.	7 ½"	4 ¼"	3 ⅝"	2"
¾" X ¾"	750SSM	15 GPM	½ - 30 GPM	3.4 lbs.	7 ½"	4 ⅝"	3 ⅞"	2"
1"	1000SSM	25 GPM	¾ - 50 GPM	5.7 lbs.	10 ¼"	4 ⅝"	3 ⅞"	2 ¼"
1½"	150SSM	50 GPM	2 - 100 GPM	10.6 lbs.	11 ⅞"	5 ½"	4 ⅞"	2 ½"
2"	200SSM	80 GPM	2 - 160 GPM	13 lbs.	11 ⅞"	5 ½"	4 ⅞"	2 ¾"

***Continuous Flow:** The size of meter selected should be based upon continuous flow, GPM, as opposed to pipe size. For example, if it is determined that continuous flow is 25 GPM, a 1" meter should be selected rather than a ¾" meter.

ORDERING INFORMATION: Select the meter model number from the Meter Selection Chart above.
Add a **G** for Gallon reading or a **C** for Cubic Feet reading or an **L** for Liters reading.
Example: 1½" Meter with Cubic Feet register = 150SSMC.

X = AVAILABLE CONTACT SETTINGS

(All contact settings are pre-set at the factory to your specification)

GPC = Gallons Per Contact • LPC = Liters Per Contact • CFPC = Cubic Feet Per Contact

METER / PIPE SIZE	MODEL	0.1 GPC	1 GPC	10 GPC	100 GPC	.01 CFPC	0.1 CFPC	1 CFPC	10 CFPC	1 LPC	10 LPC	100 LPC	1000 LPC
⅝" X ½"	625SSMRS	X	X	X	X	X	X	X	X	X	X	X	X
⅝" X ¾"	6251SSMRS	X	X	X	X	X	X	X	X	X	X	X	X
¾" X ¾"	750SSMRS	X	X	X	X	N/A	X	X	X	N/A	X	X	X
1"	1000SSMRS	X	X	X	X	N/A	X	X	X	N/A	X	X	X
1½"	150SSMRS	N/A	X	X	X	N/A	X	X	X	N/A	X	X	X
2"	200SSMRS	N/A	X	X	X	N/A	X	X	X	N/A	X	X	X

SSM® METER SPECIFICATIONS

Reed Switch: Dry contact type, normally open, 24V, 100mA maximum
Pressure Rating: Maximum 150 psi.
Temperature Range: 35° - 122°F. Protect the meter from freezing.
PH Level Range: 6.5 – 8.0
Accuracy: +/- 1.5% of maximum flow when operating between minimum and maximum flow range.
Register Options: U.S. Gallons, Cubic Feet, and Metric.

Installation Instructions:

1. Flush the line thoroughly after all plumbing changes to prevent contaminates from entering the meter.
2. Install horizontally with the register facing up and inlet port facing the water supply line.
3. For outdoor installation, protect meter from direct exposure to the elements.
4. Protect meter from backflow of water opposite of indicted flow direction.

Helpful Hints:

- Install a Carlon Slow-Closing Valve downstream of your water meter. This will eliminate possible meter damage from water hammer in your system.
- Install a Carlon Strainer upstream of your water meter to protect the meter and any other in-line process equipment from becoming jammed by particulate matter in your system.

Warranty: Carlon Meter, Inc. warrants its products to be free of defect in material or workmanship for a period of twelve months from the date of purchase. Contact us to obtain a copy of our complete statement of warranty.

METER MAINTENANCE

The only suggested maintenance is to annually remove the meter from the water line and gently back flush the meter to remove particles that may have been trapped by the strainer. Back flushing is running the water into the meter from the outlet side instead of the normal flow direction. If some unusual evidence of meter performance is observed during maintenance, please contact the factory.

A broken tamperproof wire & seal indicates the meter has been disassembled.



CARLON METER

06/18

CARLON METER, INC. • PRODUCT WARRANTY

Carlon Meter, Inc.(hereinafter Carlon or "the company") warrants products of its manufacture to be free of defects in material or workmanship. Liability under this warranty extends for twelve (12) months from the date of purchase. Liability is limited to repair or replacement of any failed product or assembly proven to be defective in material or workmanship upon manufacturer's examination. Removal and installation costs are not included under this warranty. Manufacturer's liability shall never exceed selling price of the meter or assembly in question. Carlon disclaims all liability for damage its products caused as the result of improper installation, maintenance, use or attempts to operate products beyond their intended functionality, intentionally or otherwise. Carlon is not responsible for damages, injuries or expenses incurred through the use of its products. The above warranty is in lieu of all other warranties, either expressed or implied. No agent of the company is authorized to alter or otherwise revise this warranty.

**For complete specifications, visit our website* www.carlonmeter.com

Installation and Operating Instructions

Model JLP®

Plastic No-Lead Series Water Meter

NSF / ANSI 372 Listed



CARLON METER

Leaders in water measurement and control

1710 Eaton Drive
Grand Haven, MI 49417

Ph: (616) 842-0420
Fax: (616) 842-1265
E-mail: carlon@carlonmeter.com
Website: www.carlonmeter.com

JLP® Meter Installation Instructions

1. Flush the line thoroughly after plumbing changes to eliminate the possibility of foreign contaminants reaching the meter.
2. Install meter horizontally with the register facing up and the inlet port facing the supply water line.
3. Operating pressure maximum of 100 psi.
4. It is recommended that if there is any possibility that the water supply contains foreign contaminants, a strainer should be installed between the water supply and the meter.
5. It is not recommended that the meter be run for long periods of time at the maximum flow rating as excess wear will result and the life of the meter will be reduced.
6. To reduce potential harmful effects to equipment from water hammer caused by quick closing valves, it is suggested that you purchase and install a slow-closing solenoid valve.
7. Protect the meter from freezing and from heat in excess of 122° F.
8. Protect meter from any backflow of water opposite indicated direction of flow.
9. For outdoor installation, protect meter (and remote counter) from direct exposure to the elements.

■ Straight, unobstructed pipe section in front of the meter should be as follows:

Inlet Path - One Bend = 10 x Diameter of pipe
Valves (check, gate, etc.) = 12 X Diameter of pipe
Two Bends or One Tee and one bend(s) at random = 25 x Diameter of pipe

■ Straight, unobstructed pipe section downstream of meter = 5 x Diameter of Pipe

JLP® Series

Model	Size	Length	Height	Weight
JLP0750	⅝" X ¾"	7½"	4¼"	1.4 lbs.
JLP1000	¾" X 1"	10¾"	5"	1.8 lbs.

Meter Capacities

Model	Size	Maximum Capacity	Normal Flow	Flow Range
JLP0750-G	⅝" X ¾"	22 GPM	12 GPM	¼ - 22 GPM
JLP1000-G	¾" X 1"	50 GPM	25 GPM	¾ - 50 GPM
JLP0750-L	⅝" X ¾"	83.28 LPM	45.42 LPM	.95 - 83.28 LPM
JLP1000-L	¾" X 1"	189.27 LPM	94.64 LPM	2.84 - 189.27 LPM

JLP® Contact Settings Available:

Reed Switch / SINGLE:	JLP0750 JLP1000	1 PPG / 1 PPL
Reed Switch / DUAL:	JLP0750 JLP1000	2 PPG / 2 PPL
Reed Switch / QUAD:	JLP0750 JLP1000	4 PPG / 4 PPL

Note: Plastic meter couplings are provided.

Meter Housing: Engineered reinforced plastic (nylon).
Operating Pressure Range: Maximum 100 psi
Temperature Range: 35°F - 122°F
Register Options: U.S. Gallons, Cubic Feet, and Liters.