

WM Series Water Flow Meters

20, 25, 30, 50, 100, or 160 GPM Flow Rates

Description

The WM Series water meters are multi-jet (inferential) impeller meters. They measure total flow in gallons. The impeller and magnet are the only moving parts in the measuring chamber. The chamber is located in a strainer basket, which allows for high amounts of impurities to be passed through the meter without affecting its operation. The impeller movement is transferred by a magnetic coupling to the hermetically sealed register.



**Ideal for
Sub-Metering
Applications**



Features & Benefits

- **Proven Multi-Jet Water Meter Design**
- **Hermetically Sealed Dry Dial**
protected from the elements, won't discolor or fade
- **Integral Strainer in Measuring Chamber**
protects measuring components from foreign debris,
- **Tempered Glass Lens**
strong & clear for continued readability
- **Hinged Lens Cover**
protects lens and register from damage
- **Magnetic Drive**
eliminates potential leak point
- **Easy to Read Register Display**
odometer and needle dial have large clear digits
- **Low Flow Indicator**
indicates flow rates down to almost drop by drop, excellent for leak detection
- **Frost Resistant Forged Bronze Body**
provides strength and prevents pinholes
- **Versatile Installation Orientation**
can be installed horizontally or vertically

Performance Specifications

Accuracy: +/- 1.5%

Temperature Range: Up to 122°F (50°C)

Maximum Pressure: 150 PSI

Connections: External non-tapered meter threading.
(comes with Male NPT thread adapters)

Totalizer Scale & Units:

- **Odometer:** gallons; 9,999,999 (99,999,999 WM150/200)
- **Needle:** 10 gal. per rot.; 1/10th gal. incr. w/ full gal. #'s
(100 gal. per rot.; 1 gal. incr. w/ 10 gal. #'s WM150/200)

**See Reverse Side for Additional Details
and Ordering Information**

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Construction

The meter consists of an epoxy coated forged bronze housing which has the size and flow direction cast into it, and includes an integral strainer/measuring chamber. The register is hermetically sealed, and can be removed. The register is protected by a tempered glass lens, as well as a hinged metal cover. There is a calibration port which is securely sealed after factory testing and calibration.

Magnetic Drive

The magnetic drive design facilitates the transfer of motion between the impeller and the register, by eliminating the need for a mechanical connection, which would require sealing a potential leak point. The coupling will remain intact unless the specified flow rates are exceeded.

Direct Read Register

The register is contained in a hermetically sealed nylon casing with a 5mm tempered glass lens. The totalizer wheels have large digits that are easy to read, and the sweep hand is designed to not interfere with the odometer reading. The register's circumference has a 10 gallon scale (100 gallon on the WM150 & WM 200) with increments of 1/10th of a gallon, (1 gallon for WM150 & WM200) for precise measuring. The red spinning trickle indicator is excellent for detecting leaks. Each register clearly displays the meter size as well.

Options

Dry Contact Reed Switch Pulse Output:

Requires an external DC power (4 watts, 30VDC max.) Contact closure is 1 pulse per gallon (1 pulse per 10gallons on WM150 & WM2000.)

Pulse Output Option



Direct Read Register



Installation

The meter must be installed in a clean pipeline, free of any foreign materials. The meter must be installed with the direction of flow being indicated by the arrow cast into the meter body. The meter can be installed horizontally or vertically, with the register facing in any direction.

Maintenance

The register assembly is easily removable and can be replaced if needed. The integral strainer on the measuring chamber prevents foreign debris from damaging the impeller. The strainer can be flushed if needed.

Flow Ratings

Model	Max. Flow	Continuous Flow	Normal Flow	Low Flow
WM50	20	15	1/2 to 20	1/8
WM75	25	20	1 to 25	1/4
WM7575	30	25	2 to 30	1/4
WM100	50	30	3 to 50	1/2
WM150	100	75	5 to 100	1 1/2
WM200	160	120	8 to 160	2

Dimensions

Model	Length	Height	Width	Weight
WM50	7 1/2"	4 1/8"	3 3/4"	4 lbs.
WM75	7 1/2"	4 1/8"	3 3/4"	4 lbs.
WM7575	9"	4 1/8"	3 3/4"	5 lbs.
WM100	10 3/4"	3 7/8"	4 1/8"	5 lbs.
WM150	12 5/8"	6 3/4"	5 3/8"	11 lbs.
WM200	15 1/4"	7 5/8"	5 3/4"	17 lbs.

Ordering Information

Model Number: WM

Size: _____
50 = 1/2 to 20 gpm (5/8" x 1/2")
75 = 1 to 25 gpm (5/8" x 3/4")
7575 = 2 to 30 gpm (3/4" x 3/4")
100 = 3 to 50 gpm (1" x 1")
150 = 5 to 100 gpm (1 1/2" x 1 1/2")
200 = 8 to 160 gpm (2" x 2")

Options: _____
PO = Dry Contact Reed Switch **Pulse Output**
(not available on WM75 - use WM7575)

Document: WM Series Water Meters - Revised 02.02.06