ASSURED AUTOMATION

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WM...-H Series Hot Water Flow Meters

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

Description

The WM...-H Series water meters are multijet (inferential) impeller meters. 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 operation. The impeller movement is transferred by a magnetic coupling to the hermetically sealed register. All components are designed of a heat resistant polymer that can withstand temperatures up to 195 degrees F.

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 dials dial have large clear digits
- **Low Flow Indicator**
  indicates flow rates down to almost drop by drop, excellent for leak detection
- **Heat 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 195˚F (90˚C)

Maximum Pressure: 150 PSI

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

Totalizer Scale & Units: (see illustrations next page)

- **Odometer:** gallons x100; up to 10 million (WM 50/75 -H)
  gallons x100; up to 100 million (WM 100/150/200 -H)
- **Needles:** x0.01, x0.1, x1, & x10 (WM 50/75 -H)
  x0.1, x1, & x10 (WM 100/150/200 -H)

See Reverse Side for Additional Details and Ordering Information

WM...-H Series Hot Water Flow Meters

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. The register has individual dials for smaller units for more precise measuring (see illustrations for details). The red spinning trickle indicator is excellent for detecting leaks.

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-H & WM200-H.)

Installation

The meter must be installed in a clean pipeline, free of any foreign materials. Install the meter with direction of flow as indicated by the arrow cast into the meter body. You can install the meter horizontally or inclined vertically with the register facing upwards (45 degrees max. incline on vertical installations)

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-H	20	15	1/2 to 20	1/8
WM75-H	25	20	2 to 25	1/4
WM100-H	50	30	3 to 50	1/2
WM150-H	100	75	5 to 100	1 1/2
WM200-H	160	120	8 to 160	2

Ordering Information

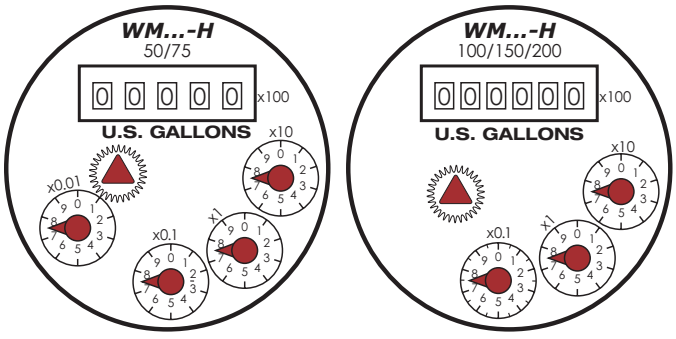
Model Number: WM ☐ - H ☐

Size:

50 = 1/2 to 20 gpm (5/8" x 1/2")
75 = 1 to 25 gpm (5/8" 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**



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