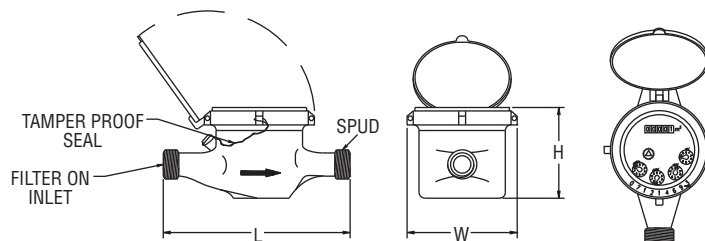




## Series WM Multi-Jet Water Meters

### Specifications - Installation and Operating Instructions



Size	Spud NPSM [BSPP]	Length "L"	Width "W"	Height "H"	Weight lb [kg]
5/8" [15 mm]	3/4" [3/4"]	7-1/2" [190 mm]	3-15/16" [99 mm]	4-3/16" [106 mm]	3.53 [1.6]
5/8" x 3/4"	1"	7-1/2"	3-15/16"	4-3/16"	3.75
3/4" [20 mm]	1" [1"]	7-1/2" [190 mm]	3-15/16" [99 mm]	4-3/16" [106 mm]	3.75 [1.7]
1" [25 mm]	1-1/4" [1-1/4"]	10-1/4" [260 mm]	4-1/16" [103 mm]	4-1/2" [114 mm]	5.73 [2.6]
1-1/4" [32 mm]	1-1/2" [1-1/2"]	10-1/4" [260 mm]	4-1/8" [104 mm]	4-5/8" [117 mm]	6.17 [2.8]
1-1/2" [40 mm]	2" [2"]	11-13/16" [300 mm]	4-7/8" [124 mm]	5-13/16" [147 mm]	11.25 [5.1]
2" [50 mm]	2-1/2" [2-1/2"]	11-13/16" [300 mm]	4-15/16" [125 mm]	6-3/4" [172 mm]	18.74 [8.5]

The Series WM Multi-Jet Water Meters are ideal for commercial and industrial applications. The multi-jet design allows simplicity and accuracy with wide flow ranges, even in low flow applications. The magnetically driven, hermetically sealed register will not leak or fog and is completely separated from the water. These water meters are designed for long service life and maintenance-free operation.

#### INSTALLATION INSTRUCTIONS

1. Thoroughly flush the service line upstream of the meter to remove dirt and debris.

2. Remove meter spud thread protectors.

NOTE: To protect the meter spud threads, store the meter with thread protectors in place.

3. Set the meter in the line. Install the meter in a horizontal plane, with the register upright, in a location accessible for reading, service and inspection. Arrows on the side of the meter and above the outlet spud indicate the direction of flow.

4. For accurate measurement, the tap height should be higher than the meter.

5. Do not overtighten connections; tighten only as required to seal. Do not use pipe sealant tape on meter threads.

6. With upstream shutoff valve only:  
Open shutoff valve slowly, to remove air from the meter and service line. Open a faucet slowly to allow entrapped air to escape. Close the faucet.

With both upstream and downstream shutoff valves installed:

To test the installation for leaks: Close the outlet (downstream) shutoff valve. Open the inlet (upstream) shutoff slowly until meter is full of water. Open the outlet (downstream) valve slowly until air is out of meter and service line. Open a faucet slowly to allow entrapped air to escape. Close the faucet.

#### SPECIFICATIONS

**Service:** Water.

**Flow Range:** See model chart.

**Wetted Materials:** Body: brass, nylon, acetal; Couplings: brass; Measuring Chamber: Fluorocarbon (FKM), polyethylene, high impact polystyrene, ABS plastic.

**Accuracy:** Transitional Flow:  $\pm 5\%$ , Nominal Flow:  $\pm 2\%$  (See instruction manual).

**Temperature Limit:** 104°F (40°C).

**Pressure Limit:** 145 psi (10 bar).

**Pressure Drop:** See pressure loss chart.

**Totalizing Display Maximum:** 9,999,999 counts.

**Mounting Orientation:** Horizontal.

**Weight:** See dimension chart.

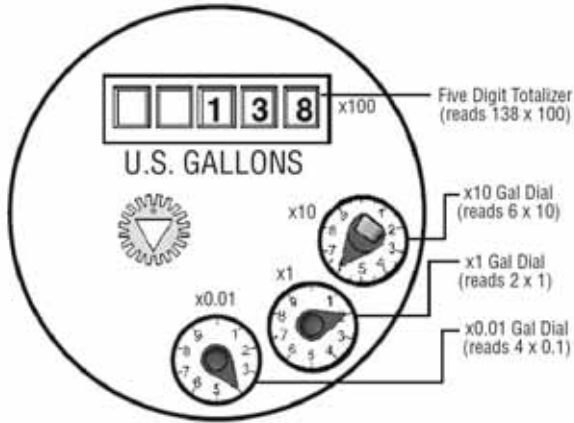
#### FLOW RATES

Size	Coupling Size	Transitional Flow (GPM)	Nominal Flow (GPM)	Max Flow (GPM)
5/8"	1/2" NPT	0.125	0.5-13	13
5/8" x 3/4"	3/4" NPT	0.125	1-20	20
3/4"	3/4" NPT	0.25	1-22	22
1"	1" NPT	0.375	1.25-30	30
1-1/2"	1-1/2" NPT	1.0	3-88	88
2"	2" NPT	1.25	5-132	132

Size	Coupling Size	Transitional Flow (L/h)	Nominal Flow (m <sup>3</sup> /h)	Max Flow (m <sup>3</sup> /h)
15 mm	1/2" BSPT	30	0.12-3.0	3
20 mm	3/4" BSPT	50	0.2-5.0	5
25 mm	1" BSPT	70	0.28-5	7
32 mm	1-1/4" BSPT	120	0.48-12	12
40 mm	1-1/2" BSPT	200	0.8-20	20
50 mm	2" BSPT	300	1.2-30	30

**METER READING**

Reading Your Meter. The total Flow that has passed through your meter is read by starting at the top of the register with the Five-Digit Totalizer, and then reading clockwise around the small dials. In the example below, the Five-Digit Totalizer reads 13,800 (138 x 100), and the dial reads 60 (6 x 10), 2 (2 x 1), and .4 (4 x .01) respectively. The Total Flow is 13,862.4 gallons.

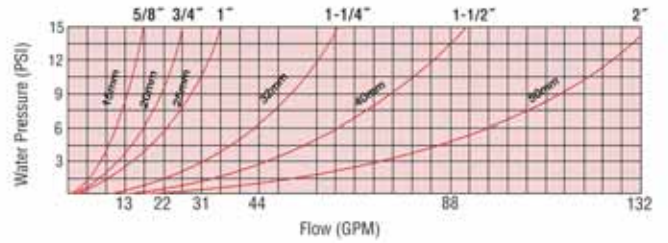


**INSTALLATION**

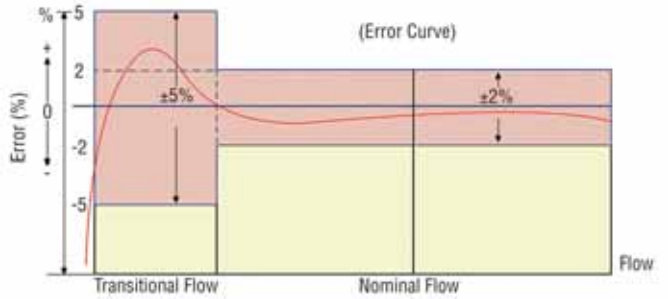
Horizontal installation only.



**PRESSURE LOSS**



**ACCURACY CHART**



**MAINTENANCE**

Preventative maintenance consists of periodic inspections and cleaning procedures. The procedures should be performed at regular intervals and any defects discovered should be corrected before further operation of the meter.

Visually inspect the meter for missing hardware, broken resister glass, or other signs of wear or deterioration. Verify proper flow rate and pressure for meter. A loss in pressure, with the resulting flow rate decrease, may indicate the meter screen is clogged and requires cleaning.

Clean the strainer yearly, or as required, depending on water condition. Pull out the strainer or backflush the meter to loosen trapped particulates.