WM-PC Series Plastic Water Meter

The WM-PC Series plastic water meter is an multi-jet style meter available in sizes from 1/2” to 1-1/2” with a dry type register for residential applications and designed to meet AWWA C708.

Water flows through the meter's strainer (inlet and internal) and into the measuring chamber where it drives the impeller. A driving magnet transmits the movement of the impeller to a driven magnet located within the sealed register. The magnet is connected to a gear train which translates the impeller rotations into volume totalizers displayed on the meter's register dial face.

The WM-PC Series water meter is top loaded and consists of three basic components: main case, measuring chamber, and head ring. The main cases of all sizes are constructed with a sturdy polymer.

All meters include pipe adapters (2 gaskets, 2 couplings, and 2 nuts) with nuts and couplings made from the same polymer as the main case, except the 1-1/2” which substitutes brass for the coupling material.

FEATURES

• All parts in contact with water are constructed of corrosion-resistant materials.
• Body is constructed of reinforced plastic.
• Impeller is the only moving part in contact with water, giving the meter long life and consistently reliable operation.
• Extra filter at the inlet of the meter body permits cleaning without having to open the meter.
• Dial plate design in US Gallons.
• Optional pulse output consisting of plastic housing with contact reed switch and cable.

MATERIALS OF CONSTRUCTION

Body:
FRP (fiber reinforced polymer)

Internals:
Engineered thermoplastic

Magnet:
Alnico

PRESSURE RANGE
Up to 150 PSI.

TEMPERATURE RANGE
Up to 105°F.

SPECIFICATIONS

Maximum Reading:
050, 075 & 100: 9,999,999.99
150: 9,999,999.9

Accuracy:
Normal flow: ±1.5%
Low flow: ±3%

OPTIONAL PULSE OUTPUT SPECIFICATIONS

Sensor:
Reed switch

Pulse Rates:
050, 075 & 100: 1 pulse/1 gal.
150: 1 pulse/10 gal.

Maximum Current:
20 mA

Maximum Voltage:
24 VAC/VDC

Cable Length:
4.5’ standard,
2000’ maximum run
WM-PC Series

Plastic water meter
(1/2” to 1-1/2” end connections)

DIMENSIONS, WEIGHTS & SPECIFICATIONS

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<tbody>
<tr>
<td>5/8” x 1/2”</td>
<td>10.20</td>
<td>6.50</td>
<td>3.70</td>
<td>4.24</td>
<td>7.52</td>
<td>0.75</td>
<td>3.70</td>
<td>0.50</td>
<td>0.25</td>
<td>10</td>
<td>20</td>
<td>1-20</td>
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<tr>
<td>5/8” x 3/4”</td>
<td>11.58</td>
<td>7.30</td>
<td>3.70</td>
<td>4.24</td>
<td>7.52</td>
<td>1.00</td>
<td>3.70</td>
<td>0.75</td>
<td>0.25</td>
<td>10</td>
<td>20</td>
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<tr>
<td>1”</td>
<td>15.12</td>
<td>10.25</td>
<td>3.86</td>
<td>4.63</td>
<td>8.13</td>
<td>1.25</td>
<td>3.86</td>
<td>1.00</td>
<td>0.75</td>
<td>25</td>
<td>50</td>
<td>3-50</td>
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<tr>
<td>1-1/2”</td>
<td>14.77</td>
<td>9.65</td>
<td>4.81</td>
<td>5.58</td>
<td>10.10</td>
<td>2.00</td>
<td>4.80</td>
<td>1.50</td>
<td>1.50</td>
<td>50</td>
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A = total length including connection and gasket without compression.

ACCURACY CURVE

Note: refer to chart above for Qmin, Qmax, Qt, Qn values

HEAD LOSS CURVES

Note: refer to chart above for Qmin, Qmax, Qt, Qn values