MODEL MW800/MM800

DESCRIPTION

Model MW800/MM800 Right Angle Meters have a standard coating of fusion-bonded epoxy. These models are manufactured to comply with the applicable provisions of the American Water Works Association Standard No. C704-02 for propeller type flowmeters. As with all McCrometer propeller flowmeters, standard features include a magnetically coupled drive, instantaneous flowrate indicator and straight-reading, six-digit totalizer.

Impellers are manufactured of high-impact plastic, capable of retaining their shape and accuracy over the life of the meter. Each impeller is individually calibrated at the factory to accommodate the use of any standard McCrometer register, and since no change gears are used, the MW800 and MM800 can be field-serviced without the need for factory recalibration. Factory lubricated, stainless steel bearings are used to support the impeller shaft. The sealed bearing design limits the entry of materials and fluids into the bearing chamber providing maximum bearing protection.

The instantaneous flowrate indicator is standard and available in gallons per minute, cubic feet per second, liters per second and other units. The register is driven by a flexible steel cable encased within a protective vinyl liner. The register housing protects both the register and cable drive system from moisture while allowing clear reading of the flowrate indicator and totalizer.

INSTALLATION

Meter may be mounted in any convenient position compatible with the balance of the system, as long as a full pipeline is assured. Specify direction of flow when ordering. Model MW800 for up flow and model MM800 for down flow.

APPLICATIONS

The McCrometer propeller meter is the most widely used flowmeter for municipal and wastewater treatment applications as well as agricultural and turf irrigation measurement. Typical applications include:

- Water and wastewater management
- Center pivot systems
- Sprinkler irrigation systems
- Drip irrigation systems
- Golf course and park water management
- Gravity turnouts from underground pipelines
- Commercial nurseries

Shown: Model MW800
**SPECIFICATIONS**

**PERFORMANCE**

**ACCURACY**: ±2% of reading guaranteed throughout range.
**RANGE**: See dimensions chart below
**HEAD LOSS**: See dimensions chart below
**MAXIMUM TEMPERATURE**: (Standard Construction) 160°F constant
**PRESSURE RATING**: 150 psi
Consult factory for special applications.

**MATERIALS**

**TUBE**: Epoxy-coated carbon steel
**BEARING ASSEMBLY**: Impeller shaft is 316 stainless steel. Ball bearings are 440C stainless steel.
**MAGNETS**: (Permanent type) Cast or sintered Alnico
**BEARING HOUSING**: Brass; stainless steel on special order
**DROP PIPE**: 304 stainless steel
**TOP PLATE**: Carbon steel
**REGISTER**: An instantaneous flowrate indicator and six-digit straight-reading totalizer are standard. The register is hermetically sealed within a die cast aluminum case. This protective housing includes a domed acrylic lens and hinged cover with locking hasp.

**OPTIONS**

- Can be fitted with any flange standard including common international standards
- Forward/reverse flow measurement
- Register extensions available
- High temperature construction
- A complete line of flow recording/control instrumentation
- Certified calibration test results

McCrometer reserves the right to change design or specification without notice.

<table>
<thead>
<tr>
<th>MW800 (UP FLOW) / MM800 (DOWN FLOW)</th>
<th>DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meter and Nominal Pipe Size (inches)</td>
<td>3  4  6  8  10 12 14 16 18 20 24</td>
</tr>
<tr>
<td>Maximum Flow U.S. GPM</td>
<td>250 600 1200 1500 1800 2500 3000 4000 5000 6000 8500</td>
</tr>
<tr>
<td>Minimum Flow. U.S. GPM</td>
<td>40  50  90 100 125 150 250 275 400 475 700</td>
</tr>
<tr>
<td>Approx. Head Loss in Inches at Max. Flow</td>
<td>29.50 23.00 17.00 6.75 3.75 2.75 2.00 1.75 1.50 1.25 1.00</td>
</tr>
<tr>
<td>Approx. Shipping Weight- lbs.</td>
<td>50  87 128 182 272 370 519 601 814 976 1293</td>
</tr>
<tr>
<td>A (inches)</td>
<td>22 1/2 27 7/8 29 7/8 36 3/8 42 3/8 48 3/8 54 60 66 72 1/2 84 1/2</td>
</tr>
<tr>
<td>B (inches)</td>
<td>6  1/2  8  9 11 12 15 16 1/2 18  22</td>
</tr>
<tr>
<td>C (inches)</td>
<td>12 1/4 16 5/8 18 23 28 33 38 43 48 53 1/2 63 1/2</td>
</tr>
<tr>
<td>D (inches)</td>
<td>8  7 1/2 9 1/2 11 3/4 14 1/4 17 18 3/4 21 1/4 22 3/4 25 29 1/2</td>
</tr>
<tr>
<td>E (inches)</td>
<td>7 1/2  9 11 13 1/2 16 19 21 23 1/2 25 27 1/2 32</td>
</tr>
<tr>
<td>F (inches)</td>
<td>3 4  3 4  7/8 7/8 1  1 1 1/8 1 1/8 1 1/4 1 1/4 1 3/8</td>
</tr>
<tr>
<td>No. of Bolts per Flange</td>
<td>4  8  8  8 12 12 12 16 16 20 20</td>
</tr>
</tbody>
</table>

Flanges in accordance with A.S.A. B16.5, A.S.T.M. A181 Grade I. Larger flowmeters on special order. Contact the factory for MM800 (downflow) meter dimensions.