FM15-25 Series Water Flow

Applications:
FM15-25 Series Rotory Wing Dry Transmitting Water Flow Meters are used for measuring the volume of cold/hot potable water passing through the pipeline and remotely transmitting the signal of the water volume to remote monitoring equipment.

Features:
• Rotary-Vane Dry-Dial Type
• Iron Body
• Magnetic Drive
• Local Dials Provide Confirmation of Remote Indicators
• Maintenance Free
• Pulse Signal for Monitoring by Centralized System
• Available in 10L and 100L per pulse

Technical Data

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Meter Size (mm)</th>
<th>Dia. DN (mm)</th>
<th>Class</th>
<th>Qs Overload Flow</th>
<th>Qp Normal Flow</th>
<th>Qt Transitional Flow</th>
<th>Qmin Minimum Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td>FM-DN15</td>
<td>15</td>
<td>A</td>
<td>3</td>
<td>1.5</td>
<td>0.15</td>
<td>0.06</td>
<td></td>
</tr>
<tr>
<td>FM-NPT0.5</td>
<td>(1/2 inch)</td>
<td>B</td>
<td>1.5</td>
<td>0.12</td>
<td>0.03</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FM-DN20</td>
<td>20</td>
<td>A</td>
<td>5</td>
<td>2.5</td>
<td>0.25</td>
<td>0.10</td>
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</tr>
<tr>
<td>FM-NPT0.75</td>
<td>(3/4 inch)</td>
<td>B</td>
<td>2.5</td>
<td>0.20</td>
<td>0.05</td>
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<td></td>
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<tr>
<td>FM-DN25</td>
<td>25</td>
<td>A</td>
<td>7</td>
<td>3.5</td>
<td>0.35</td>
<td>0.14</td>
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<tr>
<td>FM-NPT1.0</td>
<td>(1 inch)</td>
<td>B</td>
<td>3.5</td>
<td>0.28</td>
<td>0.07</td>
<td></td>
<td></td>
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</tbody>
</table>

A. Qs Overload flow allowed without damaging the meter for approx 1 minute
B. Qp Normal rated maximum operating condition.
C. Qt The flow when the error range changes from 5% down to 2%
D. Qmin The minimum flow with error less than 5%
Flow Error Curve

Error in the low flow zone from $Q_{\text{min}}$ to $Q_t$ is $\pm 5\%$.
Error in the upper zone from $Q_t$ to $Q_s$ is $\pm 2\%$.

Head Loss Curve
Signal Type

Signals are transmitted by reed switch, 10mA typical or hall effect transmitter rated at approx 5mA.

Working Condition

- Water Temperature: 10~90°C
- Working Pressure: ≤1 MPa
- Meter should be in a dry environment, not outdoor rated.

Installation Requirement

- Clear debris from the pipe before installation.
- Must be installed in horizontal pipe section with the head upwards and arrow pointing in the flow direction.
- Must be installed in a dry, freeze protected location and easy for removal and maintenance.
- Suggest installing in a special metering box.
- Isolation valves shall be installed before & after the water meter.

Dimensions & Weight

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Meter Size Dia. DN (mm)</th>
<th>Length (L) (mm)</th>
<th>Width (B) (mm)</th>
<th>Height (H) (mm)</th>
<th>Connecting Thread (G)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FM-DN15</td>
<td>15</td>
<td>165</td>
<td>99</td>
<td>124</td>
<td>G3 / 4B</td>
<td>1.5</td>
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<tr>
<td>FM-DN20</td>
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<td>190 / 195</td>
<td>99</td>
<td>124</td>
<td>G1B</td>
<td>1.7</td>
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<tr>
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<td>225</td>
<td>103</td>
<td>132</td>
<td>G11 / 4B</td>
<td>2.4</td>
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