**CoolPoint Flow Monitors**

Vortex Shedding Flowmeter

**Description**
These vortex shedding flowmeters are designed for water and low viscosity fluids like coolant with the following features.
- PROFINET protocol for flow rate, set point and status
- Digital LCD display of flow, set point, and status.
- LED status lights
- No moving parts to clog or wear

**Material Specifications**
Flow bodies of brass or 316 Stainless Steel with PVDF sensors and Viton® seals standard.

**Electrical Specifications**
- Input Power: 10 - 30 VDC @ 75mA
- Electrical Connection
  Pin Connector (standard)

**Instrument Specifications**
- **Flow**
  Visual readout: 4 digit LED
  Deadband for Alarm: 5% of full scale (maximum flow)
  Accuracy: ±2% of full scale (maximum flow).
  Repeatability: ±25% of indicated flow.
  Turndown (ratio of max to minimum flow rates): 10:1 at all temperatures.
- **Pressure**
  300 PSIG (20 Bar) operating pressure
- **Response time**
  60 ms flow status, 450 ms for change in flow
- **General**
  Fluid temperature limits: 35-150°F (2-66°C) standard.
- **Pipe Connections:**
  Female NPT, BSPP & BSPT
- **Back pressure of 10 PSIG required**

**Profinet**
- 100 Mbit/s
- Dual RJ45 Ethernet Ports: integrated 2-port switch allows Profinet installations in bus or line topology
- Fast Start Up (FSU) compatible

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Viton® is a registered trademark for DuPont Performance Elastomers.
## How To Order

Select the appropriate symbols to build a model code:

### MODEL CODES

<table>
<thead>
<tr>
<th>Flow maximum GPM (LPM)</th>
<th>Pipe size in inches</th>
<th>Model code</th>
<th>Material</th>
<th>Thread options available</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 (15)</td>
<td>1/4</td>
<td>CP2-V9**</td>
<td>-M1=Brass</td>
<td>T1=NPT</td>
</tr>
<tr>
<td>6 (22.7)</td>
<td>3/8</td>
<td>CP3-V9</td>
<td>-M2=316 Stainless Steel</td>
<td>T2=BSPT</td>
</tr>
<tr>
<td>12 (45)</td>
<td>1/2</td>
<td>CP4-V9</td>
<td></td>
<td>T3=BSPP</td>
</tr>
<tr>
<td>25 (95)</td>
<td>3/4</td>
<td>CP6-V9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50 (190)</td>
<td>1</td>
<td>CP8-V9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100 (380)</td>
<td>1 1/2</td>
<td>CP12-V9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>200 (750)</td>
<td>2</td>
<td>CP16-V9</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Indicates default selection. If no selection is made, this option is assumed. (Example: CP2-V9 is the same as CP2-V9M1T1).

** Use schedule 40 pipe only.

### ACCESSORY CABLES AVAILABLE FOR PIN CONNECTOR METERS

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Length in Meters</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP-V9</td>
<td>4 pin micro female</td>
<td>5</td>
<td>2519-5M</td>
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</tbody>
</table>

### PRESSURE DROP

![Pressure Drop Diagram](image-url)
**INSTALLATION DRAWINGS**

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**PIN CONNECTOR PINOUT**

**FACE VIEW, 4-PIN DC MICRO RECEPTACLE**

- **WHITE**: NOT USED
- **BROWN**: +24 Vdc SUPPLY
- **BLACK**: NOT USED
- **BLUE**: DC GROUND

**CONFIGURATION:**
- 1: +24 VDC power supply
- 2: Not used
- 3: DC ground
- 4: Not used

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**SIZE CHART**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>CP2-V9, CP3-V9 &amp; CP4-V9</td>
<td>3.65</td>
<td>1.83</td>
<td>4.95</td>
<td>5.91</td>
<td>2.37</td>
</tr>
<tr>
<td>CP6-V9 &amp; CP8-V9</td>
<td>4.50</td>
<td>2.25</td>
<td>5.26</td>
<td>6.44</td>
<td>2.75</td>
</tr>
<tr>
<td>CP12-V9 &amp; CP16-V9</td>
<td>6.75</td>
<td>3.38</td>
<td>5.99</td>
<td>7.69</td>
<td>2.88</td>
</tr>
</tbody>
</table>

**DIMENSIONS (mm):**
- A: 93 [93mm]
- B: 46 [46mm]
- C: 126 [126mm]
- D: 150 [150mm]
- E: 60 [60mm]
- A: 114 [114mm]
- B: 57 [57mm]
- C: 134 [134mm]
- D: 163 [163mm]
- E: 70 [70mm]
- A: 171 [171mm]
- B: 86 [86mm]
- C: 152 [152mm]
- D: 195 [195mm]
- E: 73 [73mm]