**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)

**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

**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

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>
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<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>
</tr>
</tbody>
</table>

### PRESSURE DROP

![Pressure Drop Graph](attachment:image.png)
INSTALLATION DRAWINGS

C - APPROXIMATE SWING RADIUS

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

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP2-V9, CP3-V9 &amp; CP4-V9</td>
<td>3.65 [93mm]</td>
<td>1.83 [46mm]</td>
<td>4.95 [126mm]</td>
<td>5.91 [150mm]</td>
<td>2.37 [60mm]</td>
</tr>
<tr>
<td>CP6-V9 &amp; CP8-V9</td>
<td>4.50 [114mm]</td>
<td>2.25 [57mm]</td>
<td>5.26 [134mm]</td>
<td>6.44 [163mm]</td>
<td>2.75 [70mm]</td>
</tr>
<tr>
<td>CP12-V9 &amp; CP16-V9</td>
<td>6.75 [171mm]</td>
<td>3.38 [86mm]</td>
<td>5.99 [152mm]</td>
<td>7.69 [195mm]</td>
<td>2.88 [73mm]</td>
</tr>
</tbody>
</table>