

UNIVERSAL[®] Flow Monitors

CoolPoint[™]

**Vortex
Shedding
Flowmeter
for Water
and Coolant**



CoolPoint[™] with
Rotatable Enclosure

Description

This flowmeter is made for water, water/glycol coolant or low viscosity fluids.

It has the following features:

- Flow rate transmitter 4-20 mA
- Solid state relay can be configured as alarm or pulse out
- LED digital display
- No moving parts to clog or wear
- Certified CSA and CE

Electrical Specifications

- Input Power: 10 - 30 VDC @ 80 mA
- Output: 4-20mA for flow with 100 pulses per gallon from the solid state relay for all units except for the 2 inch CP16 which is 25 pulses per gallon
- Electrical Connection
 - Pin Connector (standard)
 - Pigtails (optional)
 - Junction Box with terminal strip (optional)

Material Specifications

Flow bodies of brass or 316 Stainless Steel with PVDF sensors and Viton[®] seals standard.

User-Configurable Options

Features that are selectable on 4-20 mA units include:

- Selectable alarm state (N.O. or N.C.)
- Set point or pulse output
- Engineering units (GPM, LPM)

Instrument Specifications

- Flow
 - Visual readout: 3 digit LED, 0.3" digit height
 - Response time: user selectable from 0.9 to 7.5 seconds
 - Alarm: 5% F.S. deadband
 - Accuracy: $\pm 2\%$ F.S.
 - Repeatability: $\pm .25\%$ of indicated flow
 - Turndown: 10:1 (20:1 available)
- Pressure
 - 300 PSIG (20 Bar) operating pressure
- General
 - Fluid temperature limits: 35-210°F (2-99°C)
 - Enclosure rating: IP 65, Type 1, 3, 4, 12 and 13
- Pipe Connections:
 - Female NPT, BSPP & BSPT

How To Order Select the appropriate symbols to build a model code:

MODEL CODES

Flow maximum GPM (LPM)	Pipe size in inches	Model code	Standard units on left may be modified by adding symbols to right with dashes (see example below).	Thread options available	Body material options available	Connector or conduit box options available	Turndown	
25 (95)	3/4	CP6						
50 (190)	1	CP8						
100 (380)	1 1/2	CP12						
200 (750)	2	CP16						
				T2=BSPT T3=BSPP	M2=316SS	C2=Pig tails C3=Conduit box, terminal strip	W1=20:1 *	

* Note: Requires grounded wiring.

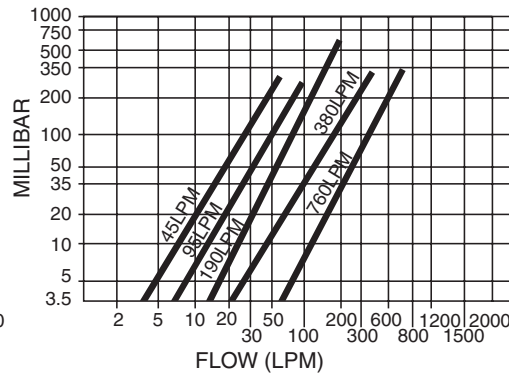
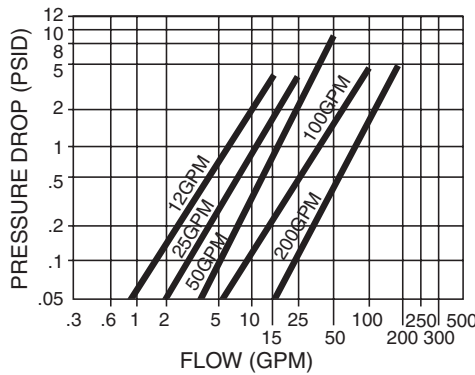
Standard models have fixed flow rates for each pipe size, brass construction, Viton® seals, 4-20mA output with programmable set point or pulse out selectable.

Example: CP12 is an 1 1/2 inch flowmeter with above characteristics.

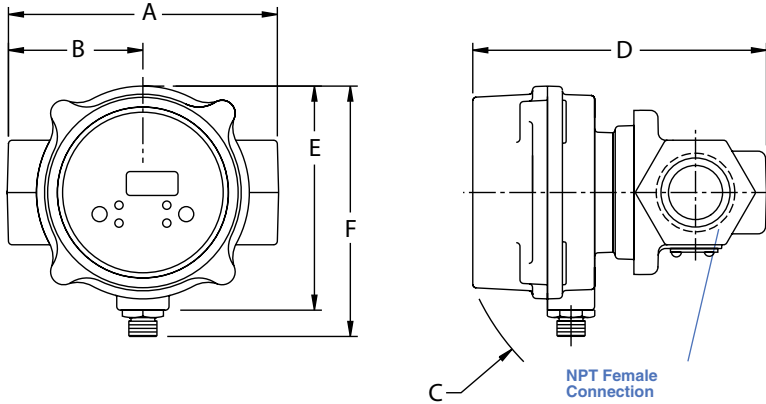
For Special Options - Added symbols required.

Example: CP12-M2 is a standard model with 316 SS body.

PRESSURE DROP CHARTS

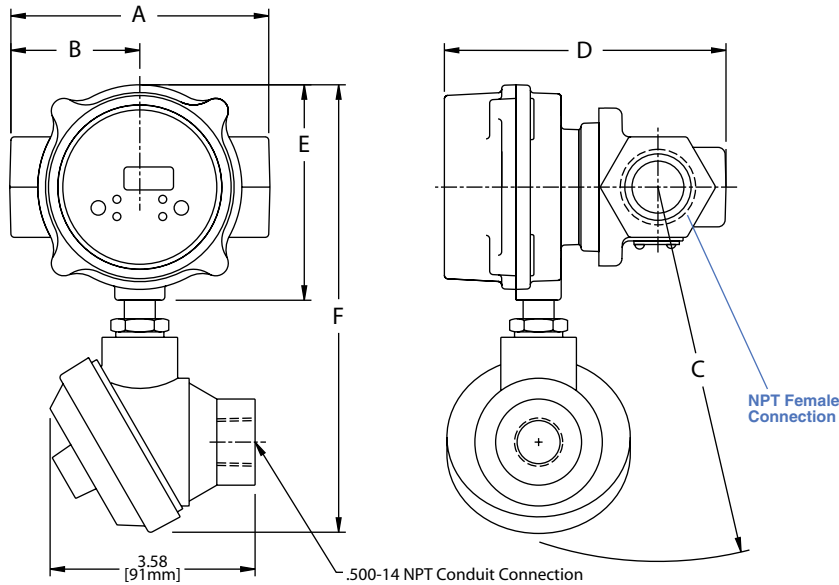


INSTALLATION DRAWING – BASIC METERS



Size	A	B	C	D	E	F
CP6 and CP8	4.50 [113mm]	2.25 [57mm]	4.04 [103mm]	4.92 [125mm]	3.75 [95mm]	4.19 [113mm]
CP12 and CP16	6.75 [171mm]	3.37 [86mm]	4.71 [120mm]	6.14 [156mm]	3.75 [95mm]	4.19 [106mm]

INSTALLATION DRAWING – METERS WITH OPTIONAL JUNCTION BOX



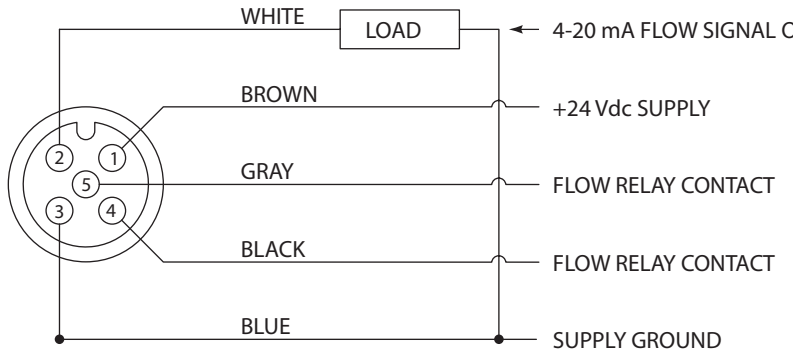
Size	A	B	C	D	E	F
CP6 and CP8	4.50 [114mm]	2.25 [57mm]	6.52 [166mm]	4.92 [125mm]	3.75 [95mm]	7.79 [198mm]
CP12 and CP16	6.75 [171mm]	3.37 [86mm]	6.87 [175mm]	6.14 [156mm]	3.75 [95mm]	7.79 [198mm]

ACCESSORY CABLES AVAILABLE FOR PIN CONNECTOR METERS

Series	Description	Length in Meters	Part Number
CP	5 pin female	1	6241-1M
		3	6241-3M
		10	6241-10M

PIN CONNECTOR PINOUTS

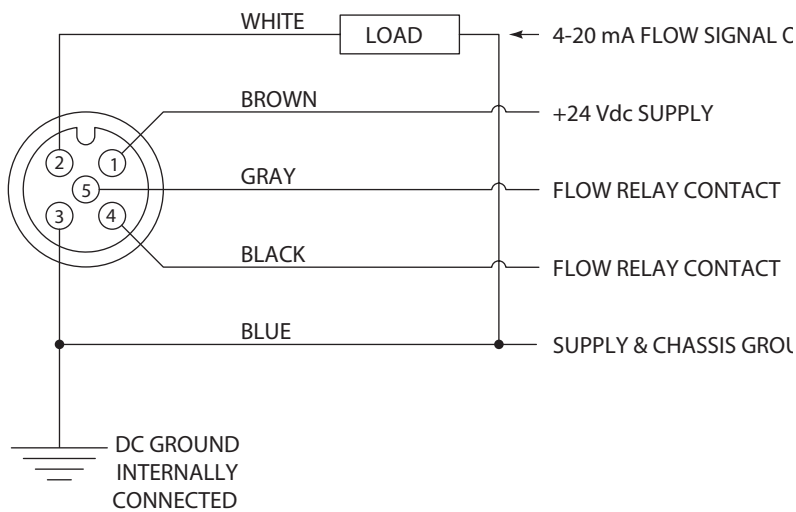
CP



PIN CONFIGURATION:

- 1: + 24 VDC power supply
- 2: 4-20 mA flow signal out
- 3: supply ground
- 4: flow relay contact
- 5: flow relay contact

CP WITH W OPTION (GROUNDED)



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- 2: 4-20 mA flow signal out
- 3: power supply ground
- 4: flow relay contact
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