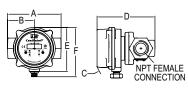
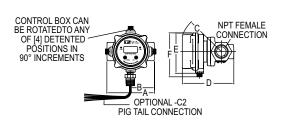


E APPROXIMATE SWING RADIUS CPX-V8



CONNECTION CP2, CP3, CP4 F APPROXIMATE SWING RADIUS CX8-M7

NPT FEMALE



CP24, 32 (shown with -C3/-C14 conduit box)

CP/CN6, CP/CN8, CN12, CN16

CTx (shown with -C2 pig tail connection)

Model	Option	A in [mm]	B in [mm]	C in [mm]	D in [mm]	E in [mm]	F in [mm]	G in [mm]	H in [mm]
CT2-CT8	Standard	4-1/2 [114.3]	2-1/4 [57.15]	4-3/64 [102.62]	4-59/64 [124.97]	3-3/4 [95.25]	4-3/16 [106.43]	-	-
CT12, CT16		6-3/4 [171.45]	3-3/8 [85.72]	4-23/32 [119.85]	6-9/64 [155.96]	3-3/4 [95.25]	4-3/16 [106.43]	-	-
CP2-V8 CP3-V8 CP4-V8		1-53/64 [46.48]	3-21/32 [92.71]	2-3/8 [60.32]	5-29/32 [50.11]	4-61/64 [125.73]	-	-	-
CP6-V8 CP8-V8		2-1/4 [57.15]	4-1/2 [114.3]	2-3/4 [69.85]	6-7/16 [163.51]	5-17/64 [133.6]	-	-	-
CP12-V8 CP16-V8		3-3/8 [85.72]	6-3/4 [171.45]	2-7/8 [73.02]	7-11/16 [195.33]	6 [152.4]	-	-	-
CP2, CP3, CP4	C1 and C2 options	3-1/4 [82.55]	1-11/64 [41.15]	3-1/4 [82.55]	4-5/64 [103.38]	2-15/64 [59.44]	2-49/64 [70.36]	-	-
CN6, CN8		4-1/2 [114.3]	2-1/4 [57.15]	3-35/64 [90.17]	4-39/64 [116.84]	2-3/4 [69.85]	3-3/16 [80.96]	-	-
CP6, CP8		4-1/2 [114.3]	2-1/4 [57.15]	4-3/64 [102.62]	4-59/64 [124.97]	3-3/4 [95.25]	4-3/16 [106.43]	-	-
CN12, CN16		6-3/4 [171.45]	3-3/8 [85.72]	4-1/4 [107.7]	5-55/64 [148.59]	2-7/8 [73.02]	3-1/4 [82.55]	-	-
CP24 CT24		7-3/4 [196.85]	3-7/8 [98.55]	8-29/32 [226]	11-1/8 [282.57]	11-1/8 [282.57]	7-1/2 [190.5]	5-47/64 [146]	7-1/2 [190.5]
CP32 CT32		10-3/4 [273.05]	5-3/5 [136.65]	9-15/32 [240]	12-37/64 [319.48]	12-37/64 [319.48]	9 [228.6]	6-7/16 [163.51]	9 [228.6]
CP2, CP3, CP4	C3 = Conduit box	3-1/4 [82.55]	1-11/64 [41.15]	5-13/32 [137.16]	4-5/64 [103.38]	2-15/64 [59.44]	6-13/32 [162.81]	-	-
CN6, CN8		4-1/2 [114.3]	2-1/4 [57.15]	5-11/16 [144.53]	4-39/64 [116.84]	2-3/4 [69.85]	6-51/64 [172.47]	-	-
CP6, CP8		4-1/2 [114.3]	2-1/4 [57.15]	6-33/64 [165.61]	4-59/64 [124.97]	3-3/4 [95.25]	7-51/64 [198.04]	-	-
CN12, CN16		6-3/4 [171.45]	3-3/8 [85.72]	6 [152.4]	5-55/64 [148.59]	2-7/8 [73.02]	6-55/64 [173.99]	-	-
CP12, CP16		6-3/4 [171.45]	3-3/5 [91.44]	6-7/8 [174.5]	6-9/64 [155.96]	3-3/4 [95.25]	7-51/64 [198.04]	-	-
CT2-CT8		4-1/2 [114.3]	2-1/4 [57.15]	6-3/64 [165.61]	4-59/64 [124.97]	3-3/4 [95.25]	7-51/64 [198.04]	-	-
CT12, CT16		6-3/4 [171.45]	3-3/8 [85.72]	6-23/32 [174.5]	6-9/64 [155.96]	3-3/4 [95.25]	7-51/64 [198.04]	ı	
CP24 CT24		7-3/4 [196.85]	3-7/8 [98.55]	8-29/32 [226]	11-1/8 [282.57]	11-1/8 [282.57]	7-1/2 [190.5]	5-47/64 [146]	7-1/2 [190.5]
CP32 CT32		10-3/4 [273.05]	5-3/5 [136.65]	9-15/32 [240]	12-37/64 [319.48]	12-37/64 [319.48]	9 [228.6]	6-7/16 [163.51]	9 [228.6]
CX8	M7 = Hose barb	3-3/16 [80.77]	6-23/64 [161.54]	2-1/2 [63.5]	2-27/32 [72.14]	4-21/32 [118.27]	3-39/64 [91.69]	-	-
CX2, CX3, CX4	T1 = NPT female thread	1-63/64 [50.29]	3-31/32 [100.84]	2-13/32 [60.96]	4-13/16 [122.17]	4-9/32 [108.71]	3-39/64 [91.69]	-	-
CX6, CX8	T1 = NPT female thread	2-3/8 [60.32]	4-3/4 [120.65]	2-13/32 [60.96]	2-13/16 [71.37]	4-55/64 [123.19]	3-13/16 [96.52]	-	-

Flow Transmitters, Vortex Shedding Flowmeters

## **COOLPOINT® VORTEX SHEDDING FLOWMETER**No Moving Parts, Low Maintenance, Low Pressure Drop, Temperature Sensing Option

The Series CP/CN/CT/CX Coolpoint® Vortex Shedding Flowmeter is made for water, water/glycol mixtures, or low viscosity fluids. These units contain no moving parts to clog or wear, allowing for minimal maintenance in the field. This series has two versions: a 3-wire version, where power is supplied separate from the 4-20 mA output, and a 2-wire loop-powered version. The 3-wire version is equipped with a solid state relay that can be configured in the field to be either an alarm or a pulse output, an LED display which allows the user to choose between selectable engineering units (GPM or LPM), and a high temperature option. The alarm on this version is selectable between a high or low alarm (NO or NC) and the pulse output option is set at a frequency at a specific pulses per gallon. The 2-wire option allows for operation in an intrinsically safe mode only when used in conjunction with an approved intrinsic safety barrier meeting required entity parameters. This version does not come with a display or relay contacts to allow for this operation mode.

## **BENEFITS/FEATURES**

- No moving parts to clog or wear
- Easy to set up and read, with menu buttons and bright LED display
   Lower pressure drop compared to other primary flow elements
- Selectable alarm states for increased application flexibility
- Reading unaffected by conductivity, pressure, density, temperature, and viscosity of the fluid
- · Long-term stability with no zero-point shift, increasing application longevity
- Selectable engineering units
   Integrated temperature sensing option for additional sensing parameter

## **APPLICATIONS**

- Mining
- · Concrete Fleet management water batching
- ManufacturingSteel making
- Power generation
- District heating water and temperature sensing
   Water treatment

- · Pulp and paper Semiconductor

Electrical

Connection

Output and

Orientation

Display

Special

Options

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Service: Compatible liquids

Range: See flow rate chart.

Display: 3-digit or 4-digit LED (pipe sizes > 3"), 0.3" (7.6 mm) digit height; CP-V8: 3-digit LCD (6-digit LCD totalizer mode), 0.3" (7.6 mm) digit height.

Wetted Materials: Flow body: 316 SS or brass; Sensor: PEEK; Seals: FKM.

Accuracy: Flow: ±2% FS; Temperature: ±2°F (±0.1°C) (model selectable).

Repeatability: ±0.25% of reading.

Turndown: 10:1 (20:1 optional).
Temperature Limits: 35 to 210°F (2 to 99°C).
Pressure Limits: 10 to 300 psig (0.7 to 20.7 bar); CP flange and CX: 200 psig

(20.7 bar) max. Response Time: 450 ms.

Power Requirements: 10-30 VDC @ 80 mA standard; 25 mA for 2 wire option;

CP-V8: 2 AA alkaline batteries, not included (45 day battery life).

Output: 4-20 mA; 100 pulses per gallon (3-wire models only); 2", 3", and 4":

25 pulses per gallon. **Deadband:** Alarm output: 2.5% FS for up to 1/2", 5% FS for larger than 1/2".

Viscosity: 15 cP max.

Enclosure Rating: NEMA 4X (IP65).

Process Connection: Female NPT, BSPT, or BSPP (model selectable).

Electrical Connection: Male DC micro 5 pin connector; Pigtails or junction box

with terminal strip (model selectable). **Weight:** CX: 1.5 lb (0.7 kg); CP: 3.3 lb (1.5 kg); CP-V8:4 lb (1.8 kg); CN, CT: 7 lb

Compliance: CSA.

MODEL CHART													
Example	СР	2		-M1	T1	C1			-W1	CP2-M1T	1C1-W1		
Series	CP CN CT									Metal body vortex shedding flowmeter with rotatable display Metal body vortex shedding flowmeter Metal body vortex shedding flowmeter with temperature sensor and rotatable display			
Pipe Size										GPM	LPM	Port Size	
		2 3 4 6 8 12 16 24 32								3 6 12 25 50 100 200 300 600	11 23 45 95 190 380 750 1136 2271	1/4" (8 mm) 3/8" (10 mm) 1/2" (15 mm) 3/4" (20 mm) 1" (25 mm) 1-1/2" (40 mm) 2" (50 mm) 3" (80 mm) 4" (100 mm)	
Battery Option			- V8							No battery Battery operated			
Material				M1 M2						Brass 316 SS			
Process Connection					T1 T2					NPT female BSPT			

Male 5 pin

3.3 ft (1 m)

state relays

NIST

3-wire pig tail leads 3.3 ft (1 m)

Standard display orientation

20:1 extended turndown

3-wire pig tail leads with PG7 connector

4-20 mA output with high and low solid

4-20 mA 2 wire, intrinsically safe NIST traceable calibration certificate

Aluminum conduit box

316 SS conduit box

C1 C2 C3 C7

C14

RESPONSE TIME VS. FILTER VALUE						
Filter Value Response Time (S)						
2	0.9					
4	1.4					
8	2.3					
16	4					
32	7.5					

MODEL CHART					
Model	Description				
8140R-ASSY	Intrinsically safe barriers				
6241-1M	5 pin female cable 3 ft (1 m)				
6241-3M	5 pin female cable 9 ft (3 m)				
6241-10M	5 pin female cable 30 ft (10 m)				
MDCM-3FP-1M	3 pin female cable 3 ft (1 m)				
MDCM-3FP-3M	3 pin female cable 9 ft (3 m)				
MDCM-3FP-10M	3 pin female cable 30 ft (10 m)				
6242-2M	8 pin female cable 6 ft (2 m)				
6242-5M	8 pin female cable 15 ft (5 m)				
6242-10M	8 pin female cable 30 ft (10 m)				

FLOWRATE							
		Flow Rate					
Size	Port Size	GPM	LPM				
2	1/4"	3	11				
2 3 4 6 8 12	3/8"	6	23				
4	1/2"	12	45				
6	3/4"	25	95				
8	1″	50	190				
12	1-1/2"	100	380				
16	2″ 3″	200	750				
16 24 32	3″	300	1136				
32	4"	600	2271				

TEMPERATURE SET POINT RANGES									
	Setpoint Min. Setpoint Max. Hysteresi								
Meter Size	°F	°C	°F	°C	°F	°C			
All CT models	35	1	200	93	4	2			

F	FLOW SET POINT RANGES										
		Setpoi	nt Min.	Setpoir	nt Max.	Hysteresis					
r	Meter Size	GPM	LPM	GPM	LPM	GPM	LPM				
1	1/4″	0.4	1.5	3	12	0.1	0.4				
	3/8″	0.6	2.3	6	23	-	-				
1	1/2"	1.2	4.5	12	45	-	-				
3	3/4"	3	11	22.5	85	1.2	5 9				
1	l"	7.5	30	45	170	2.5	9				
1	l 1/2″	15	56	90	341	5	18				
2	2" 3"	30	113	180	682	10	37				
3	3″	40	151	280	1059	15	57				
4	1″	80	302	560	2119	30	114				

USA: California Proposition 65

▲ WARNING: This product can expose you to chemicals including Lead, which is known to the State