CCM Series

Standard Unobtrusive Adjustable Flow Monitor

Key Features

Best for applications where the ratio (Normal Flow/Set Point) is 10:1 or Greater, Minimal Pressure Drop.

Features

- Adjustable Flow Monitor
- High Resolution
- Works in Very Low Flow Environments
- Minimal Pressure Drop
- Gas and Liquid Flow Sensor
- Materials: PVC
- Confirms: Normal Flow Conditions
- Senses: High Flow, Low Flow
- Output: Switch Contact

Applications

- Gas Chromatography
- Analyzers
- Filter Maintenance
- Metering Equipment
- Corrosive Chemicals
- Gas Generators

Operation

With no flow present, the magnetic piston is held at the flow tube inlet by magnetic repulsion of the fixed magnet at the opposite end. As flow is established the piston is displaced toward the magnetic end plug and a major portion of the flow is bypassed through the flow tube orifice into the annular space. At the adjustment point the magnetic piston actuates the reed switch. On decreasing flow the switch deactuates. The magnetic piston actuates a hermetically sealed reed switch, which is encapsulated in the body of the unit, out of the air/water path.

- Actuation points for air at 68°F and 14.7 PSIA with increasing flow
- Deactuation (decreasing flow) averages 40% less than actuation (increasing flow)
- Repeatability ±2%
- Unit will pass greater flows

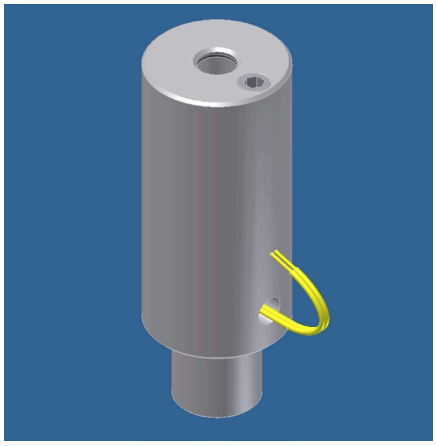
Correction must be made for other fluids, line pressure and temperatures. Please consult your representative or the factory.

Operation

Inlet 1/8" FNPT|Outlet 1/4" FNPT

Temperature Operating Range

• 32° to 140°F (0° to 60°C) for PVC
For other temperature ranges consult factory.



Calibration Range

Model	Air SCC/M (SCFH)	Water ML/M (GPH)	ΔP to Atmosphere MBARS (Inches in Water)
CCM-00			
Minimum	10 (0.021)	1 (0.016)	2.49 (1.0)
Maximum	150 (0.32)	5 (0.08)	19.0 (8.0)
CCM-010			
Minimum	150 (0.32)	8 (0.13)	0.99 (0.4)
Maximum	1000 (2.12)	180 (2.9)	17.4 (7.0)
CCM-015			
Minimum	500 (1.06)	20 (0.32)	1.74 (0.7)
Maximum	6000 (12.7)	370 (5.9)	19.9 (8.0)
CCM-125			
Minimum	6000 (12.7)	65 (1.03)	3.73 (1.5)
Maximum	16000 (33.9)	5000 (7.9)	12.4 (5.0)

Specifications

Body Material	Weight OZ (gm)	Max Working Pressure PSIG (barg)	Wetted Parts	Seals
PVC	6oz (170 gm)	100 (6.89)	PVC, Epoxy	Buna N

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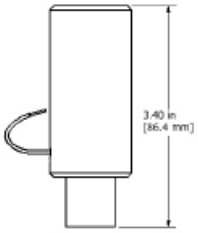
Switch Data	SPST	SPDT
Maximum Switching Voltage		
DC (V)	250	175
AC (V)	265	120
Contact Rating		
DC (W)	50	5
AC (VA)	50	5
Maximum Switching Current (A)		
DC (A)	1.5	0.25
AC (A)	1.1	0.18

Leads	SPST UL File #E471070	SPDT UL File #E471070
 leads 18 in. min. from body 22 AWG, TFE insulation		leads 18 in. min. from body 24 AWG, TFE insulation • green - N.O. • blue - N.C. • white - Common



Installation

Mount with the inlet port up vertically. A 10 micron filter is recommended

How to Order

Sales@ChemTec.com | 800.222.2177

Model	Size	Switch	Options
CCM	-00 -010 -015 -125	N.C. Normally Closed SPDT Single Pole Double Throw	TFE Teflon® Encapsulated Piston KZ FFKM Perfluoroelastomer EPR EPR Seals FP Factory Preset

*Consult Factory | Viton® - E.I. Dupont & Co | Teflon® - E.I. Dupont & Co | Kalrez® - E.I. Dupont & Co
All dimensions are subject to change for quality improvement. Not responsible for printing errors.