

CCM Series

UNOBTRUSIVE
ADJUSTABLE
FLOW MONITOR

Monitor Flows of Corrosive and Non-Corrosive Liquids and Gases

KEY FEATURES

Monitors flows from 10 cc/m air, in line configuration.

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.

- 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 $\pm 2\%$
- Unit will pass greater flows.

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

FLUID PORTS

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

TEMPERATURE OPERATING RANGE

- 32° to 140° F (0° to 60° C).
- For other temperature ranges consult factory.*



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CALIBRATION RANGE & PRESSURE LOSS TABLE

MODEL	AIR SCCM (SCFH)	WATER ML/M (GPH)	ΔP TO ATMOSPHERE (MBARS INCHES IN WATER)
CCM-00			
Minimum	10 (.021)	1 (0.016)	2.49 (1.0)
Maximum	150 (0.32)	5 (0.08)	19.9 (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)	500 (7.9)	12.4 (5.0)

SPECIFICATIONS

BODY MATERIAL	WEIGHT Lbs. (Kg.)	MAX WORKING PRESSURE PSIG (BARG)	WETTED PARTS	SEAL
PVC	6 Oz.(170.1 gm)	100 (6.89)	PVC, Epoxy	Buna N

CE Recognized 73/23/EEC/93/68/EEC

FIA Recognized File E75356

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SWITCH DATA	SPST	SPDT
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Maximum Switching Voltage

DC (V)	200	175
AC (V)	150	120

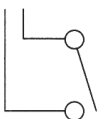
Contact Rating

DC (W)	50	5
AC (VA)	70	5

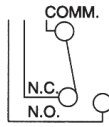
Maximum Switching Current (A)

DC (A)	1.0	.25
AC (A)	0.7	.25

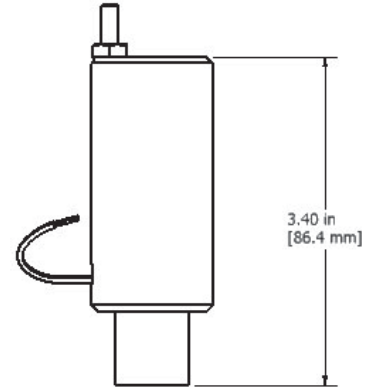
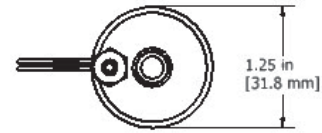
LEADS	SPST	SPDT (optional)
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leads 18 in. min. from body 22 AWG, TFE insulation



leads 18 in. min. from body 24 AWG, TFE insulation
 • green - N.O.
 • blue - N.C.
 • white - Common



INSTALLATION

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

Above values for resistive loads only. For inductive loads, surge current and rush current contact protection is required, consult your local representative. SPDT UL Recognized (E47258).

HOW TO ORDER (Sales@ChemTec.com | (800) 222-2177)

Model	Size	Switch Options	Options
CCM	-00 -010 -015 -125	N.C. Normally Closed SPDT Single Pole Double Throw (Normally Open unit not available)	Any of the following options may be added. TFE Teflon® Encapsulated Piston O2 Oxygen Cleaned KZ Kalrez® Seals EPR EPR Seals



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 *Viton - E.I. Dupont & Co
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Note: All dimensions and specifications are subject to change for quality improvement. Not responsible for printing errors.