125 Series STANDARD UNOBTRUSIVE ADJUSTABLE FLOW MONITOR

Monitor Flows of Corrosive and Non-Corrosive Liquids and Gases

KEY FEATURES

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

FEATURES

- Broad Range of Adjustability
- Compact Size
- High Resolution
- Materials: 316SS, Brass or Teflon®
- Confirms: Normal Flow Conditions
- Senses: High Flow and Low Flow Conditions
- Output: Switch Contact

APPLICATIONS

- Welding Systems
- Analyzers
- Vacuum Systems
- Cooling Systems
- Chillers
- Biomedical Instruments
- Process Flows

OPERATION

A magnetic piston is suspended by the repulsion of a fixed magnet. When fluid flows through the unit it causes the magnetic piston to move against the repulsion of the fixed magnet. The magnet piston actuates an encapsulated hermetically-sealed reed switch out of the fluid path. Decreasing the flow below the calibration point causes the reed switch to de-actuate. Set point is adjustable.

- Actuation Points for air at 68° F and 14.7 PSIA with increasing flow
- Deactuation (decreasing flow) averages 30% less than actuation (increasing flow)
- Repeatability ±2%
- Unit will pass greater flows

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

TEMPERATURE OPERATING RANGE

- 0° to 220° F (-17° to 104° C)
  For other temperature ranges consult factory.

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CALIBRATION RANGE

MODEL		AIR SCC/M(SCFH)	WATER ML/M(GPH)	PORTS FNPT
125	Minimum	30 (0.063)	1 (0.016)	1/8"
	Maximum	16,000 (33.90)	500 (7.93)	

PRESSURE LOSS TABLE

AIR FLOW RATE CC/M (SCFH)	WATER FLOW RATE ML/M (GPH)	ΔP TO ATMOSPHERE MBARS (Inches of Water)
30 (.064)	1.0 (0.016)	8.71 (3.50)
310 (.657)	30 (0.48)	25.8 (10.38)
1500 (3.178)	300 (4.76)	29.7 (11.92)
16000 (33.9)	500 (7.93)	63.8 (25.63)

SPECIFICATIONS

BODY MATERIAL	WEIGHT OZ. (gm)	MAX WORKING PRESSURE PSIG (barg)	WETTED PARTS	SEAL
Teflon®	4 (113.4)	80 (5.52)	Teflon®	Teflon®
Brass	12 (340.2)	1500 (103.42)	Brass, Epoxy	Viton®
316SS	12 (340.2)	3000 (206.84)	316SS, Epoxy	Viton®

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

c UL us Recognized File E75356

3077 S.W. 13th Drive Deerfield Beach, FL 33442 P (954) 428 8259 (800) 222 2177 F (954) 428 8745 www.ChemTec.com

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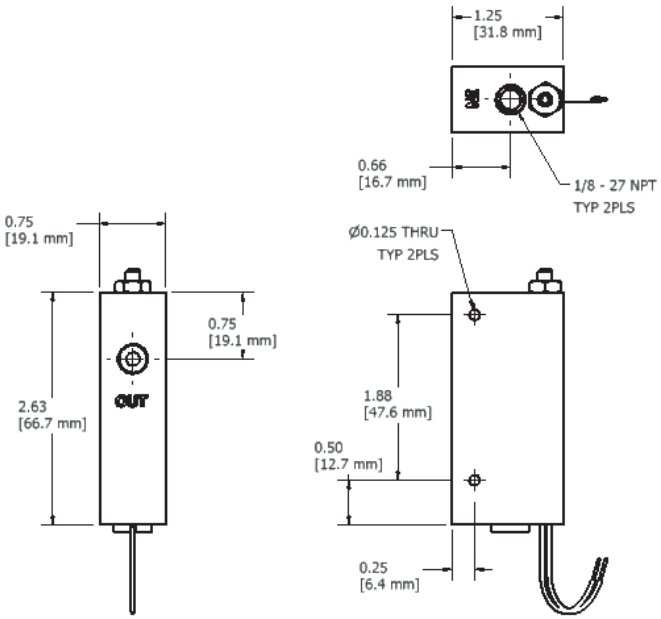
SWITCH DATA	SPST	SPDT
Maximum Switching Voltage		
DC (V)	200	175
AC (V)	150	120
Contact Rating		
DC (W)	50	5
AC (VA)	70	5
Maximum Switching Current (A)		
DC (A)	1.0	.25
AC (A)	0.7	.25

LEADS	SPST	SPDT (optional)
	leads 18 in. min. from body 22 AWG, TFE insulation	leads 18 in. min. from body 24 AWG, TFE insulation • green - N.C. • blue - N.O. • white - Common



INSTALLATION

Mount vertically with the inlet port up vertically. Inlet port down changes the adjustable range of the unit. 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	Materials		Electrical Conduit (Optional)	Switch		Options	
125	T	Teflon®**	C	N.O.	Single Pole Single Throw Normally Open	TFE	Teflon® Encapsulated Piston**
	B	Brass	(metallic bodies only)			O2	Oxygen Cleaned
	316	316SS	(1/2" FNPT)	SPDT	Single Pole Double Throw	HT	High Temperature Option 340˚ F (171˚ C) metallic body only
						KZ	Kalrez® Seals
						EPR	EPR Seals
						BN	Buna N Seals

*Consult factory
**Standard with Teflon® unit
®Viton - E.I. Dupont & Co
®Teflon - E.I. Dupont & Co
®Kalrez - E.I. Dupont & Co

Note: All dimensions and specifications are subject to change for quality improvement. Not responsible for printing errors.

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