125 BP Series BYPASS 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 less.

FEATURES

- Broad Range of Adjustability
- Compact Size
- High Resolution
- Close On-Off Differential
- · Ease of Customer Setting
- Monitors Gases or Liquids
- Materials: 316SS, Brass, Teflon®
- Confirms: Normal Flow Conditions
- Senses: High Flow or Low Flow conditions
- Output: Switch Contact

APPLICATIONS

- Vacuum Systems
- Wet Stations
- Gas Analyzers
- Cooling Systems
- Industrial Fluid Lines

OPERATION

When no flow is present the free magnetic piston rests on the bottom of the bore, which is in a bypass off the main line. Adjustment of the orifice in the main line creates a small bypass flow to lift the magnetic piston and actuate the reed switch. When flow decreases, the piston moves downward and the reed switch deactuates.

- Actuation Points for air at 68° F and 14.7 PSIA with increasing flow
- Deactuation (decreasing flow) averages 10% 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.

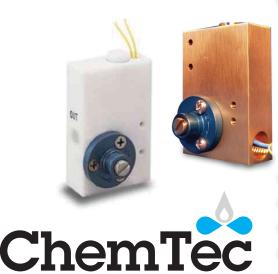
TEMPERATURE OPERATING RANGE

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

C Recognized 73/23/EEC/93/68/EEC

Recognized File E75356

* At 60 PSIG (4.137 BARG)



CALIBRATION RANGE					
MODEL		AIR SCC/M(SCFH)	WATER ML/M(GPH)	PORTS FNPT	
125 BP	Minimum Maximum	100 (0.21) 20,000 (42.4)	3 (0.048) 500 (7.93)	1/8"	
125 BPHF	Minimum Maximum	200 (0.42) 60,000 (127)*	5 (0.079) 950 (15.105)	1/8"	

PRESSURE LOSS TABLE						
AIR FLOW RATE CC/M (SCFH)	WATER FLOW RATE ML/M (GPH)	∆P TO ATMOSPHERE MBARS (Inches of Water)				
100 (0.21)	3 (0.048)	1.2 (0.50)				
5500 (11.7)	200 (3.17)	9.2 (3.71)				
7000 (14.8)	400 (6.34)	11.7 (4.71)				
20000 (42.4)	500 (7.93)	24.7 (9.93)				
60000 (127.1)	950 (15.10)	69.7 (28.00)				

SF	SPECIFICATIONS						
	DDY ERIAL	WEIGHT OZ. (gm)	MAX WORKING PRESSURE PSIG (barg)	WETTED Parts	SEAL		
Tef	flon®	4.4 (123.5)	100 (6.89)	Teflon®	Teflon		
Br	ass	16 (453.6)	1500 (103.42)	Brass, Epoxy	Viton®		
31	6SS	16 (453.6)	3000 (206.84)	316SS, Epoxy	Viton ®		

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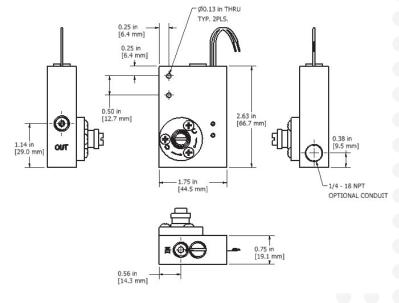
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SWITCH DATA	SPST	SPDT						
Maximum Switching Voltage								
DC (V) AC (V)	200 150	175 120						
Contact Rating	•							
DC (W) AC (VA)	50 70	5 5						
Maximum Switching Current (A)								
DC (A) AC (A)	1.0 0.7	.25 .25						
LEADS SPS	ST	SPDT (optional)						
leads 18 i	in. min.	leads 18 in. min.						

from body 22

AWG, TFE

insulation



INSTALLATION

Mount vertically with the inlet port at bottom. 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).

from body 24

AWG, TFE insulation

green - N.C.

• blue - N.O.

• white - Common

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

N.O.

Model	M	aterials	•	pass esign	Electrical Conduit (Optional)		Switch	(Options
125	T B	Teflon _® ** Brass	BP BPHF	By Pass By Pass	C N. (Blank for Standard Unit)	N.O.	Single Pole Single Throw Normally Open	TFE	Teflon _® Encapsulated
			DETTI	,		N.C.	, ,		Piston**
	316	316SS		High Flow	(1/4" FNPT)			02	Oxygen Cleaned
									High Temperature Option 340° F
						SPDT	Single Pole Double Throw*		(171° C) metallic body only
								ΚZ	Kalrez _® Seals
								EPR	EPR Seals
								BN	Buna N Seals

^{*}Consult factory

®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.



^{**}Standard with Teflon® unit