FS Series NON-ADJUSTABLE FLOW MONITOR

For Economical Monitoring of Higher Flows of Corrosive and Non-Corrosive Liquids

FEATURES

- Low Maintenance
- Close On-Off Differential
- No Seals
- Single Moving Part
- In Line Vertical Plumbing

APPLICATIONS

- Laser Cooling Systems
- Heat Pumps
- Cooling Systems

OPERATION

As flow is established upward through the unit and continues to increase, the pressure differential across the magnetic piston increases until it overcomes the magnetic piston's resistance (mass). This force causes it to progress fully upward to actuate the dry reed switch. This is a snap action and occurs in the decreasing mode as well.

- Actuation Points for increasing flow
- Flow Setting Accuracy ± 10% of actuation point
- Deactuation (decreasing flow) averages 10% less than actuation (increasing flow)
- Repeatability ± 2%
- Unit will pass greater flows

TEMPERATURE OPERATING RANGE

- 0° to 228° F (-17° to 104° C) for Brass and Stainless Steel.
- 32° to 120° F (0° to 49° C) for PVC. For other temperature ranges consult factory.

PRESSURE LOSS

ΔP TO ATMOSPHERE at Set Point PSID (BARD)

WATER PVC UNITS ALL SET POINTS... 0.50 (0.034)

METAL UNITS ALL SET POINTS.. 1.00 (0.069)

SPECIFICATIONS

MATERIAL	MAX WORKING PRESSURE PSIG (barg)	WETTED PARTS
PVC Brass	100 (6.89) 250 (17.22)	PVC, Epoxy Brass, Epoxy, 316SS
316SS	500 (34.45)	316SS, Epoxy, 316SS

• Non-Adjustable Flow Monitor • Materials: 316SS, Brass or PVC

- Confirms: Normal Flow Condition
- · Senses: High flow or
- Low flow conditions • Output: Switch Contact

KEY FEATURES

Economical Liquid Flow Sensor.



CALIBRATION TABLE

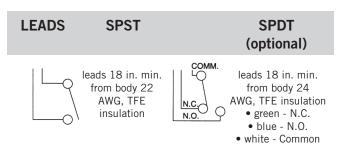
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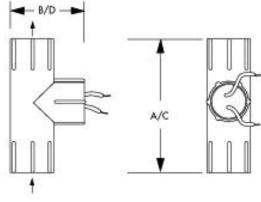
MODEL		PVC LPM(GPM)	BRASS or 316SS LPM(GPM)		
FS-50	-A	0.57 (0.15)	0.95 (0.25)		
	-B	0.95 (0.25)	1.89 (0.50)		
	-C	1.89 (0.50)	3.79 (1.00)		
	-D	2.84 (0.75)	5.68 (1.50)		
	-E	3.79 (1.00)	7.57 (2.00)		
	-F	4.73 (1.25)	9.46 (2.50)		
FS-75	-A	0.76 (0.20)	1.89 (0.50)		
	-B	1.89 (0.50)	3.79 (1.00)		
	-C	2.84 (0.75)	7.57 (2.00)		
	-D	3.79 (1.00)	11.4 (3.00)		
	-E	3.68 (1.50)	15.1 (4.00)		
	-F	7.57 (2.00)	21.8 (5.75)		
FS-I	-A	0.95 (0.25)	7.57 (2.00)		
	-B	2.84 (0.75)	9.46 (2.50)		
	-C	3.79 (1.00)	11.4 (3.00)		
	-D	7.57 (2.00)	15.1 (4.00)		
	-E	11.4 (3.00)	22.7 (6.00)		
	-F	15.1 (4.00)	32.2 (8.50)		

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SWITCH DATA	SPST	SPDT				
Maximum Switc	hing 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				





INSTALLATION

Metallic Bodies Only: Mount with inlet down vertically. Leads up - Normally Open Leads Down - Normally Closed PVC - N.O. Conduit Offset Up N.C. - Conduit Offset Down Filtration - 100 Micron Filter 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).

FLUID PORTS: INLET/OUTLET PORTS INCHES

DIMENSIONS INCHES (MM)

Model	FNPT (PVC)	MNPT (Brass or 316SS)		
FS-50	1/2"	1/2"		
FS-75	3/4"	3/4"		
FS-I	1"	1"		

		FS-50	FS-75	FS-I	
PVC	А	3.2 (81.3)	3.5 (88.9)	4.3 (109.2)	
PVC	В	2.0 (50.8)	2.0 (50.8)	2.2 (55.9)	
METAL	С	4.0 (101.6)	4.0 (101.6)	4.5 (114.3)	
METAL	D	1.2 (30.5)	1.4 (35.6)	1.7 (43.2)	

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

	Model	Size	M	aterials	Conduit		Switch Options		Options
	FS Consult Factory	-50 -75 -1	P B S	PVC Brass 316SS	C (PVC Model Only)	N.O. N.C. SPDT	Single Pole Single Throw Normally Open Leads Up Single Pole Single Throw Normally Closed Leads Down Single Pole Double Throw	2	of the following options be added. High Temperature Option 340° F (171°C) (metallic body only)
° ₽ N a	Viton - E.I. Dupont Teflon - E.I. Dupor Kalrez - E.I. Dupon Iote: All dimension re subject to chan nent. Not responsi	t & Co t & Co 1s and specifi ge for quality	/ improv	'e-			Chem	T	ec

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