

FAV Series ADJUSTABLE FLOW MONITOR

For Monitoring Higher Flows of Gases and Liquids

FEATURES

- Adjustable Flow Monitor
- Monitors both Gases and Liquids
- Materials: Brass or 316SS
- Confirms: Normal flow conditions
- Senses: High flow or Low flow conditions
- Output: Switch Contact

APPLICATIONS

- Process Media
- Fire Control Systems
- Cooling Systems
- Heat Pumps
- Hydraulic Lifts
- Water Treatment Chemicals

OPERATION

When flow is increased, the magnetic piston is forced against a bias spring. As the magnet comes near the adjustable reed switch it actuates, indicating proper flow. When flow decreases the spring forces the piston in the opposite direction deactuating the reed switch and indicating a reduce or no flow condition.

- 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.

KEY FEATURES

Best for applications where the normal flow to set point is 10:1 or greater.



SPECIFICATIONS

MODEL	WEIGHT Lbs. (Kg)	MAX WORKING PRESSURE PSIG (BARG)	WETTED PARTS	SEALS
FAV-250-ESB	1.4 (635)	1500 (103.42)	Brass, Epoxy 316SS	Viton®
FAV-250-ESS	1.4 (635)	3000 (206.84)	316SS, Epoxy	Viton®
FAV-375-ESB	1.4 (635)	1500 (103.42)	Brass, Epoxy 316SS	Viton®
FAV-375-ESS	1.4 (635)	3000 (206.84)	316SS, Epoxy	Viton®
FAV-500-ESB	1.4 (635)	1500 (103.42)	Brass, Epoxy 316SS	Viton®
FAV-500-ESS	1.4 (635)	3000 (206.84)	316SS, Epoxy	Viton®
FAV-750-ESB	1.7 (771)	1500 (103.42)	Brass, Epoxy 316SS	Viton®
FAV-750-ESS	1.7 (771)	3000 (206.84)	316SS, Epoxy	Viton®

TEMPERATURE OPERATING RANGE

- 0 to 220° F (-17 to 104° C)

For other temperature ranges consult factory.

PRESSURE LOSS TABLE

MODEL	AIR FLOW RATE SLPM (SCFM)	WATER FLOW RATE LPM (GPM)	ΔP TO ATMOSPHERE BARD (PSID)
FAV-250/375			
Minimum	14.2 (0.50)	0.38 (0.1)	0.034 (0.50)
Maximum	1416.0 (50.00)	15.14 (4.0)	0.21 (3.00)
FAV-500			
Minimum	28.32 (1.00)	1.89 (0.50)	0.069 (1.00)
Maximum	2124.0 (75.00)	37.85 (10.00)	0.69 (10.00)
FAV-750			
Minimum	141.6 (5.00)	3.78 (1.00)	0.10 (1.50)
Maximum	3398.0 (120.00)	75.70 (20.00)	0.62 (9.00)

CE Recognized 73/23/EEC/93/68/EEC
 Recognized File E75356

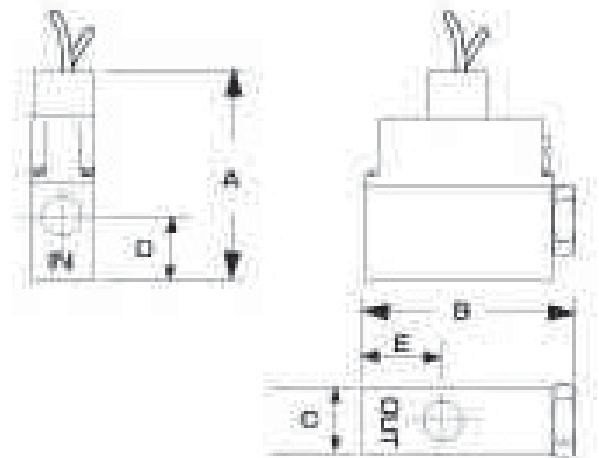
CALIBRATION RANGE

MODEL	AIR SLPM (SCFM)	WATER LPM (GPM)	INLET/ OUTLET FNPT PORT
FAV-250			
Minimum	14.16 (0.5)	0.38 (0.1)	1/4"
Maximum	1416 (50)	1514 (4.0)	
FAV-375			
Minimum	14.16 (0.5)	0.38 (0.1)	3/8"
Maximum	1416 (50)	1514 (4.0)	
FAV-500			
Minimum	28.32 (1.0)	1.89 (0.5)	1/2"
Maximum	2124 (75)	37.85 (10.0)	
FAV-750			
Minimum	141.60 (5.0)	3.78 (1.0)	3/4"
Maximum	3398 (120)	75.70 (20.0)	

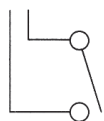
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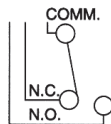
SWITCH DATA	SPST	SPDT
Maximum Switching Voltage		
DC (V)	200	175
AC (V)	150	120
Contact Rating		
DC (W)	50	5
AC (VA)	70	5
Maximum Switching Current (A)		
DC (A)	1.0	.25
AC (A)	0.7	.25



LEADS	SPST	SPDT (optional)
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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.C.
 • blue - N.O.
 • white - Common

INSTALLATION

Mount (lead up) with inlet port on the side horizontally and the outlet down vertically. Other attitudes change the adjustable range of the unit. A 100-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).

DIMENSIONS

Model	A	B	C	D	E
FAV-250	3.25 (82.6)	3.25 (82.6)	1.00 (25.4)	1.00 (25.4)	1.25 (31.8)
FAV-375	3.25 (82.6)	3.25 (82.6)	1.00 (25.4)	1.00 (25.4)	1.25 (31.8)
FAV-500	3.25 (82.6)	3.25 (82.6)	1.00 (25.4)	1.00 (25.4)	1.25 (31.8)
FAV-750	3.97 (100.8)	4.28 (108.7)	1.25 (31.8)	1.63 (41.4)	1.63 (41.4)

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

Model	Size	Electric Switch	Materials	Type of Service	Electrical Switch	Options
FAV	-250 -375 -500 -750	ES	B Brass S 316SS	W Water G Gas	N.C. Normally Closed N.O. Normally Open SPDT Single Pole Double Throw	HT High Temperature Option 340° F (171 ° C) KZ Kalrez® Seals EPR EPR Seals BN Buna N Seals

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*Consult Factory
 *Viton - E.I. Dupont & Co
 *Teflon - 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.

