

# FAV SERIES

## ADJUSTABLE FLOW MONITOR

For Monitoring Higher Flows of Gases and Liquids

### KEY FEATURES

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

### 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 read 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 reduced or no flow situation.

- 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.

### PRESSURE LOSS TABLE

MODEL	AIR FLOW RATE SLPM (SCFM)	WATER FLOW RATE LPM (GPM)	$\Delta$ P TO ATMOSPHERE BARD (PSID)
<b>FAV-250/375</b>			
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)
<b>FAV-500</b>			
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)
<b>FAV-750</b>			
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)

### TEMPERATURE OPERATING RANGE

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

### CALIBRATION POINTS

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

### SPECIFICATIONS

BODY MATERIAL	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®

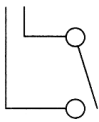
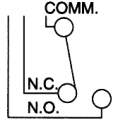
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## ADJUSTABLE FLOW MONITOR

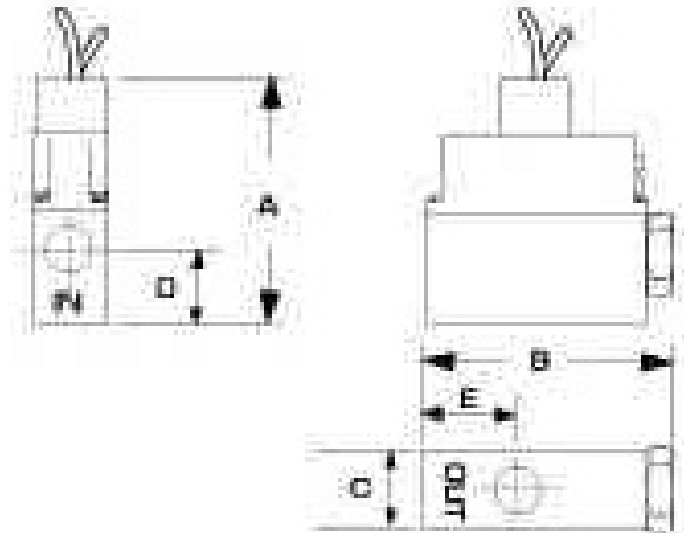
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SWITCH DATA	SPST	SPDT
<b>Maximum Switching Voltage</b>		
DC (V)	200	175
AC (V)	150	120
<b>Contact Rating</b>		
DC (W)	50	5
AC (VA)	70	5
<b>Maximum Switching Current (A)</b>		
DC (A)	1.0	.25
AC (A)	0.7	.25

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

*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).*



## 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

## 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 (Please see Custom Page for Special Options.)

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

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1057 CTE LCA Series

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