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CTE Chem Tec

## Flow Monitors - Flow Switches Excess Flow Valves - Flow Meters



Welcome to CTE Chem Tec Equipment.  
Leading manufacturers of Flow Monitors, Flow Meters, Flow  
Switches, and Excess Flow Valves for 35 years.

Flow Switches (also known as Flow Monitors and Flow Sensors) give switch contact at a predetermined flow rate. Flow Meters provide varying electrical output with fluid flow. Excess Flow Valves are normally open valves that close automatically at a predetermined flow rate.

We specialize in the lower flow ranges -- i.e. 120 SCFM air, 20 GPM water, or less. Flow Switches have fixed and adjustable models. All categories have a variety of flow ranges and pipe sizes.

CTE is the only manufacturer of all Teflon<sup>®</sup> Flow Switches and Flow Meters.

**Important Notice: All of our products containing reed switches are now available with digital solid state switching.**



[www.flw.com/chemtec](http://www.flw.com/chemtec)

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(800) 576 -6308

## FLOW MONITORS FAV SERIES

For low cost monitoring of corrosive liquid flows.



Recognized File E75356

Recognized 73/23/EEC,93/68/EEC

### KEY FEATURES

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

### APPLICATIONS

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

### 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

## 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 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.

## Calibration Range

MODEL	AIR SLPM (SCFM)		WATER LPM (GPM)		INLET/ OUTLET
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	
FAV-250	14.16 (0.5)	1416 (50)	0.38 (0.1)	15.14 ( 4.0)	1/4"
FAV-375	14.16 (0.5)	1416 (50)	0.38 (0.1)	15.14 ( 4.0)	3/8"
FAV-500	28.32 (1.0)	2124 (75)	1.89 (0.5)	37.85 (10.0)	1/2"
FAV-750	141.60 (5.0)	3398 (120)	3.78 (1.0)	75.70 (20.0)	3/4"



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## Pressure Loss Table

	AIR FLOW RATE SLPM (SCFM)	WATER FLOW RATE LPM (GPM)	DP TO ATMOSPHERE MBARS (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)

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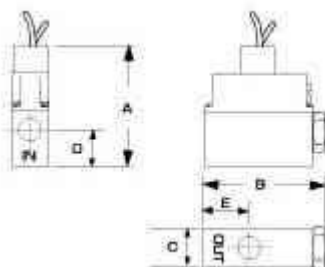
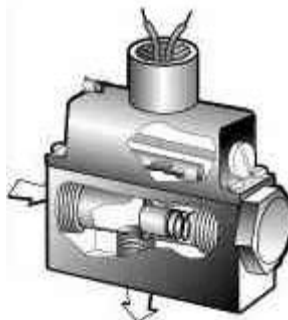
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**FLOW MONITORS**

FAV SERIES

For monitoring higher flows of gases and liquids.

**CTE**  
CHEM TEC**Fluid Ports:** See Calibration Table**Temperature Operating Range:** 32° to 220° F

0° to 104° C

**For other temperature ranges:** Consult factory**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**Switch Data**

<b>SPST</b>	<b>SPDT</b>
Hermetically Sealed Reed Switch	Hermetically Sealed Reed Switch
Max Switching Voltage DC (V) 200 AC (V) 150	Max Switching Voltage DC (V) 175 AC (V) 120
Contact Rating DC (W) 50 AC (VA) 70	Contact Rating DC (W) 5 AC (VA) 5

**Leads**

SPST  
Leads 18 in. min. from body 22 E  
19, TFE insulation.

SPDT (optional)  
Leads 18 in. min. from body 24 E  
19, TFE insulation.

- green - N.C.
- blue - N.O.
- white - Common



Max. Switching Current DC (A) 1.0 AC (A) 0.7	Max. Switching Current DC (A) .25 AC (A) .25
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Above values for resistive loads only. For inductive loads, surge current and rush current -- contact protection is required; consult your local representative. SPDT is UL recognized.

## Specifications

Unit	Weight Lbs (Grams)	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®

## Dimensions Inches (mm)

SIZE	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

FAV Model	250 Size	ES Electric Switch	B Material	G Type of Service	SPDT Switch Options	OPTIONS Any of the following options may be added:
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250 375 500 750	B Brass S 316 ss	W Water G Gas	N.C. N.O. SPDT	Normally Closed Single Pole Single Throw. (Normally Closed not available on conduit unit.) Normally Open Single Pole Double Throw	HT	High Temperature Option 34 F (171 ° C)
					KZ	Kalrez® Seals
					EPR	EPR Seals
					BN	Buna N Seals
					S	Special Custom Option

\* Consult Factory

**Note:**

All dimensions and specifications are subject to change for quality improvement. Not responsible for typing errors.

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