CHEM TEC EQUIPMENT COMPANY

INSTALLATION AND MAINTENANCE

MODEL FAV SERIES

OPERATION:

* Please reference drawings with special part numbers for differences in the following specifications.

As flow is increased, the magnetic piston is forced against the bias spring until the magnetic field comes into contact with the reed switch causing the switch to actuate, indicating presence of flow. As flow decreases, the spring forces the piston in the opposite direction, deactuating the reed switch, indicating a reduced or no flow situation.

SPECIFICATIONS:

STANDARD FLOW SETTINGS

MODEL	AIR ADJUSTABLE RANGES	WATER ADJUSTABLE RANGES	PORTS
FAV-250-ESB	0.5 to 50 SCFM	0.10 to 4 GPM	1/4" FNPT
FAV-375-ESB	0.5 to 50 SCFM	0.10 to 4 GPM	3/8" FNPT
FAV-500-ESB	1.0 to 75 SCFM	0.50 to 10 GPM	1/2" FNPT
FAV-750-ESB	5.0 to 120 SCFM	1.00 to 20 GPM	3/4" FNPT

Actuation points at STP for air. Actuation varies with line pressure and media. Actuation points shown are for increasing flows. Differential between on and off averages 40% Repeatability ±2%

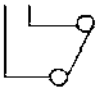
BODY MATERIAL	MAXIMUM WORKING PRESSURE	WETTED PARTS
BRASS	1500 psig	Brass, epoxy, 316SS

SWITCH DATA

	SPST	SPDT
Maximum Switching Voltage		
DC	200	100
AC	150	-
Contact Rating		
DC(W)	50	3
AC(VA)	70	-
Maximum Switching Current (A)		
DC	1.0	.25
AC	0.7	-

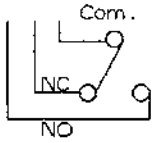
Above values for resistive loads only. For inductive loads, surge current and rush current - contact protection is required, consult your local representative.

SPST leads 18 in. min. from body, yellow.



22 E 19, TFE Insulation

SPDT (Optional) leads 18 in. min. from body.



- Green - N.C.
- Blue - N.O.
- White - Common

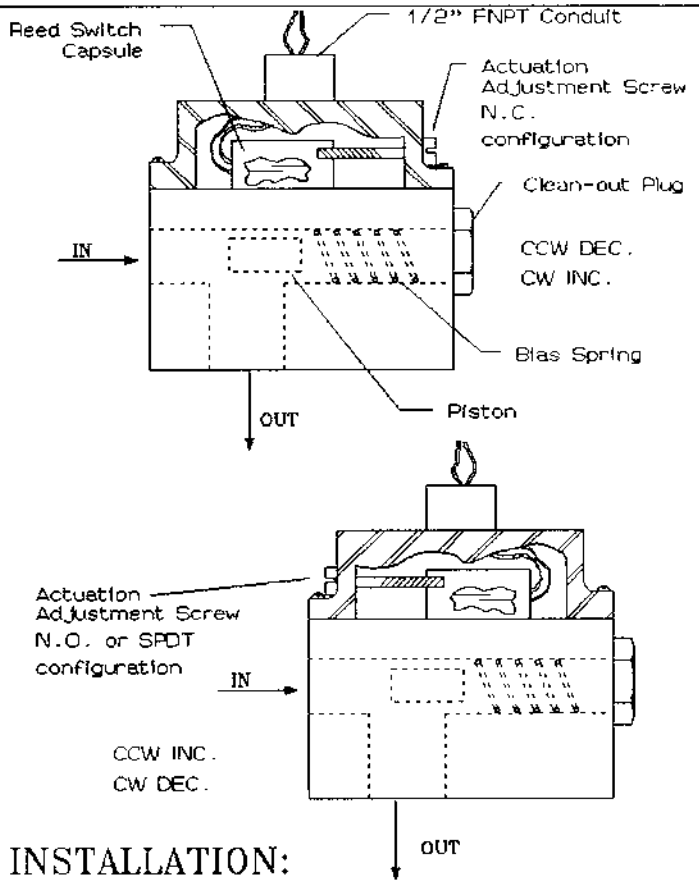
24 E 19, TFE Insulation

PARTS LIST:

1) PISTON: (Brass)
   FAV-250,375 or 500 P/N: A-922-2
   FAV-750 P/N: A-923-2

2) SEAL KIT: (Viton)
   FAV-250,375 or 500 P/N: A-914V
   FAV-750 P/N: A-915V

3) REED SWITCH CAPSULE:
   Standard unit P/N: A-344 SPST 1 AMP
   SPDT Unit P/N: A-344 SPDT .3 AMP



INSTALLATION:

The flow switch should be installed with the inlet horizontal, outlet vertically down. Avoid dirt, Teflon tape shred, or other foreign material from entering unit. Do not use pipe dope. We recommend use of a 100 micron filter. Large metallic bodies and magnetic fields may affect the principle of operation of these units. If disturbance is suspected, adjustment of the reed switch may be necessary. Magnetic shielding maybe required in severe cases.

TO SET SWITCH ACTUATION POINT:
Reference above for NO and NC configuration.

A. For increasing flow actuation point:
   1. Establish flow at desired actuation point.
   2. Turn adjusting screw until switch deactuates.
   3. Turn adjustment screw until switch actuates.

B. For decreasing flow actuation point:
   1. Establish flow at desired actuation point.
   2. Turn adjusting screw until switch actuates.
   3. Turn adjustment until switch deactuates.

MAINTENANCE:

Cleaning the flow switch is easily accomplished without removal from the line. Unscrew the clean-out plug, remove the piston, and flush the flow passage. Care should be taken to thoroughly clean the piston before replacing. The piston must be replaced in the same orientation as it was removed. A magnet maybe used to conveniently lift out the piston.

REED SWITCH REPLACEMENT:
1. Shut flow off. Remove screws and black cover.
2. Remove and replace reed switch capsule if needed.
3. Replace black cover.
4. Establish flow rate at which actuation should occur.
5. Turn adjusting screw until switch actuates.
6. Cycle the unit on and off to test.

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