

## Compact Flow Switch

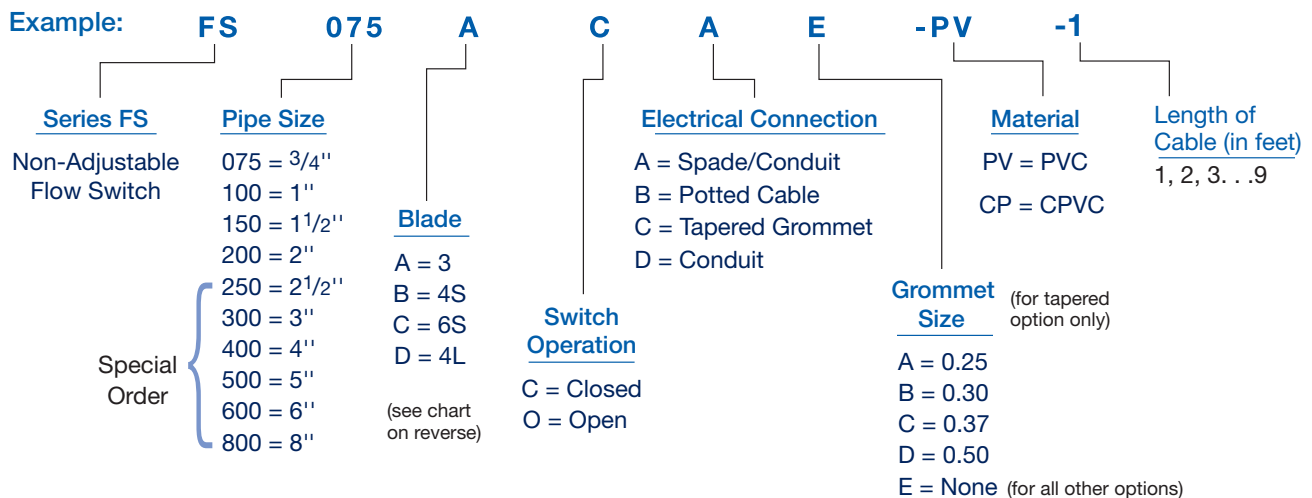
Continuous Monitoring of Flow Rates with No Wetted Metals



### Features:

- Ideal for confirming operation of pressure relief, regulating or actuated valves.
- Flow switch performance Independent of pressure and temperature.
- Customizable design.
- Extremely Wide Operating Range: .7 – 25 GPM
- Higher flow rates/pipe sizes available on special order.
- Maximum flow may be five times normal flow.
- Positive stop essentially eliminates fatigue effects of turbulence, vibration and flow surge on flow detecting element.
- Very low pressure drop - typically less than 1.0 psig at normal flow rate.
- Accuracy  $\pm 10\%$  with  $\pm 5\%$  repeatability.
- Nema 4 design.
- Switches 5 VDC to 240 VAC.
- Provides dry circuit interface with computer and PLC modules.
- Small size and low profile provides easy mounting in crowded installations.

### Ordering Information



# Compact Flow Switch

## Specifications

### Electrical Switch Characteristics

SPNO/SPNC  
 AC Voltage (maximum switching): . . . . . 300 VAC  
 DC Voltage (maximum switching): . . . . . 350 VDC  
 Current (maximum switching-DC): . . . . . 0.5 amp  
 Current (maximum carrying-DC): . . . . . 2.5 amp  
 Power (maximum resistance load): . . . . . 50 watts  
 Contact resistance (maximum initial): . . . . 0.15 ohms  
 Insulation resistance: . . . . . 1010 ohms  
 SPDT, 3 Watt, 100 VAC/VDC optional

### Pressure/Temperature

Maximum Pressure . . . . . 150 PSI/10.3 Bar  
 Max. Temperature PVC . . . . . 140°F/60°C  
 Max. Temperature CPVC . . . . . 180°F/82°C

### Materials of Construction

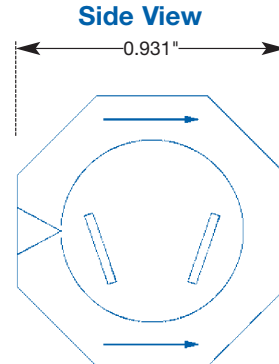
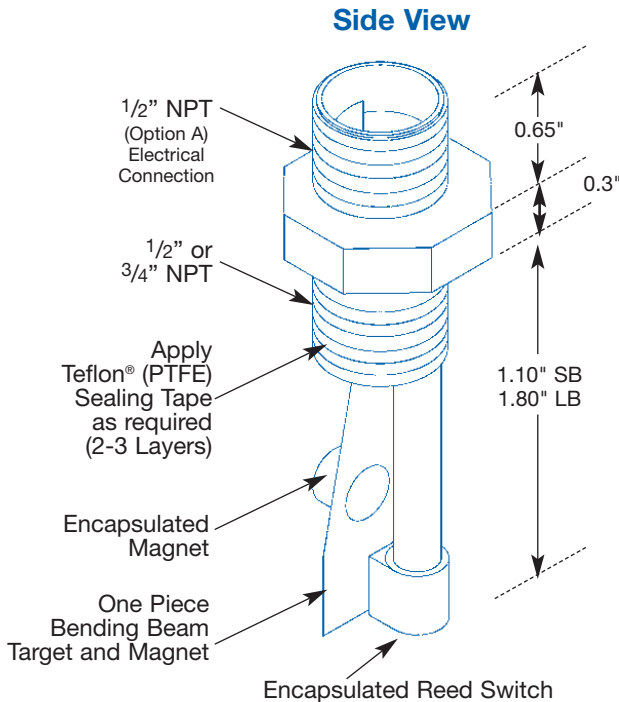
Wetted materials are PVC or CPVC as specified; PFA, and EPOCAP 16505 Epoxy. Non-wetted materials include ferrite magnet and reed switch (fully encapsulated in body material), and steel bending beam target (PFA coated).

### Inductive Loads:

Switch contacts have been tested with small relays and 30 amp J-C relay inductive driving coils at 120/240 VAC to 500,000 operations without failure.

**Note:** Employs magnetic coupling between float arm and switch body. Magnetic particles can accumulate on and around magnetic housing which may affect proper operation. Please conduct appropriate fluid magnetic particle evaluation and operational tests prior to and during installation and use.

## Diagram and Dimensions



- Pressure drop typically less than 1.0 psi at rated flow
- Mount in any position

## Ordering Information

Pipe Size	GPM	Body	Blade*	GPM	
				On	Off
0.75	Low	SB 3/4	3	0.9	0.8
	Med	SB 3/4	4S	2.0	1.0
	High	SB 3/4	6S	4.0	3.0
1	Low	SB 3/4	3	1.0	0.8
	Med	SB 3/4	4S	3.0	2.0
	High	SB 3/4	6S	6.0	5.0
1.5	Low	LB 3/4	4L	3.0	2.5
	Med	LB 1/2	4S	13.0	12.0
	High	LB 1/2	6S	19.0	17.0
2	Low	LB 3/4	4L	4.5	4.0
	Med	LB 1/2	4S	20.0	18.0
	High	LB 1/2	6S	25.0	20.0

\* The number = the mil thickness of the blade and letter is S = short, L = long. For example, 4S is a 4 mil short blade. On/Off is estimated in schedule 80 reducing tee.

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