PLAST-O-MATIC

PRODUCT DATA

CATALOG FS

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 ±10% with ±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

Example: **FS 075 A C A E -PV -1**

Series FS
Non-Adjustable Flow Switch

Pipe Size
075 = 3/4''
100 = 1''
150 = 1 1/2''
200 = 2''
Special Order:
250 = 2 1/2''
300 = 3''
400 = 4''
500 = 5''
600 = 6''
800 = 8''

Blade
A = 3
B = 4S
C = 6S
D = 4L
(see chart on reverse)

Switch Operation
C = Closed
O = Open

Electrical Connection
A = Spade/Conduit
B = Potted Cable
C = Tapered Grommet
D = Conduit

Grommet Size (for tapered option only)
A = 0.25
B = 0.30
C = 0.37
D = 0.50
E = None (for all other options)

Material
PV = PVC
CP = CPVC

Length of Cable (in feet)
1, 2, 3. . .9

TRUE BLUE™

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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 140ºF/60ºC
Max. Temperature CPVC 180ºF/82ºC

Materials of Construction

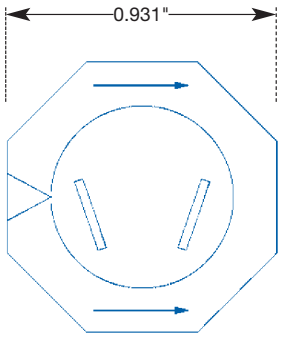
Wetted materials are PVC or CPVC as specified; PFA, and EPOCAP 16505 Epoxy. Non-wetted materials include ferrite magnet and reed switch (fully encapsulated in body material), and steel bending beam target (PFA coated).

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.

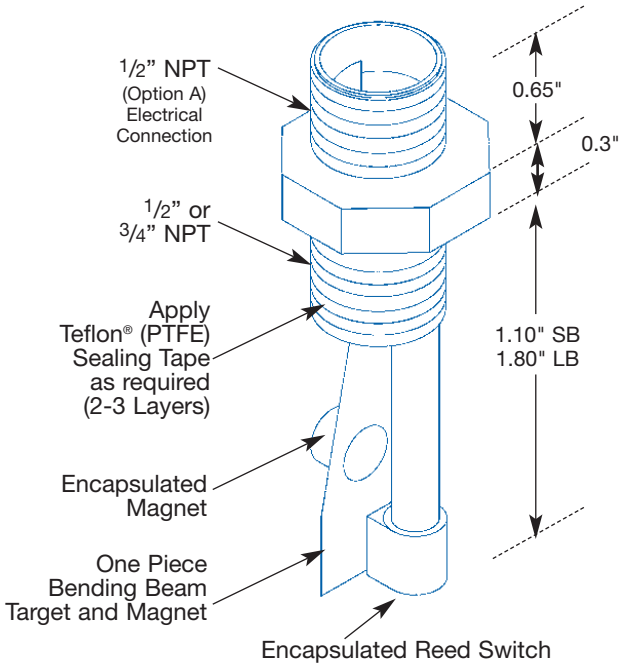
Side View



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

Diagram and Dimensions

Side View



Ordering Information

Pipe Size	GPM	Body	Blade*	GPM On	GPM 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.

AUTHORIZED PLAST-O-MATIC DISTRIBUTOR

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