

FLOW SWITCHES

INTRODUCTIONS

- Used to sense the change of flow that passes the pipe lines, playing a role to protect the torrential flow.
- Can be regulated based upon different run-off of flow.
- Employ a SPDT miniature switch with large capacity, possessing the advantages of quick action to guarantee the transient of the switch.
- The housing applies the totally enclosed construction ensuring switch's normal work under any circumstances.
- Liquid temperature : 0 °C to 120 °C



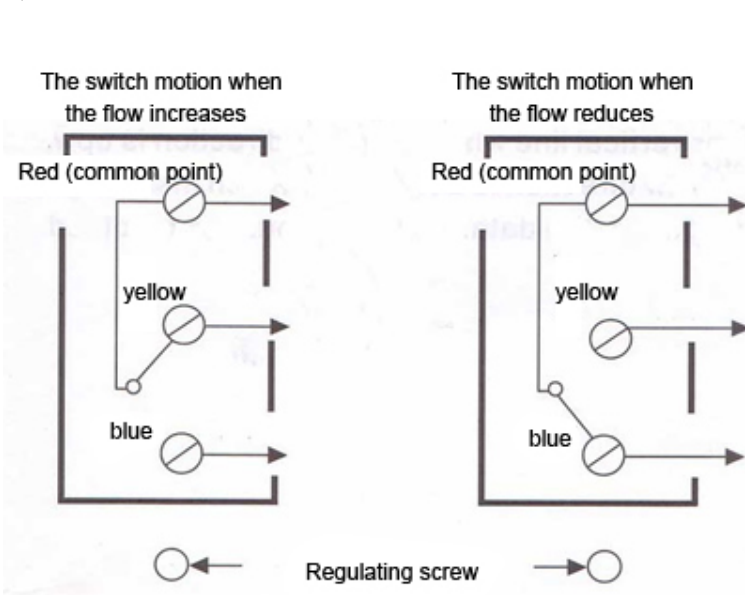
SPECIFICATIONS

Model	Connection Size	Material
FSF50P-1	1"-11½ NPT	Sealed plastic case Brass connection
FSF50P-2	1/2"-14 NPT	
FSF50P-3	3/4"-14 NPT	
FSF50P-1A	1"-11½ NPT	Sealed plastic case Stainless steel connection
FSF50P-2A	1/2"-14 NPT	
FSF50P-3A	3/4"-14 NPT	

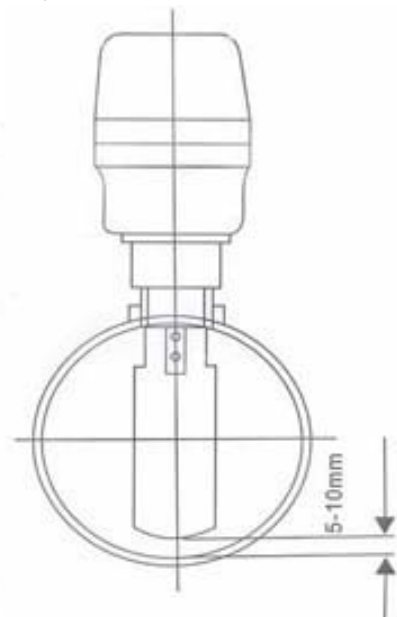
◆ Electrical data

Voltage (V) Current (A)	AC 110V	AC 220V	DC 24V
	Non-Induced	14	10
Full Load	14	10	6
Momentary	84	60	36

◆ Electrical contacts



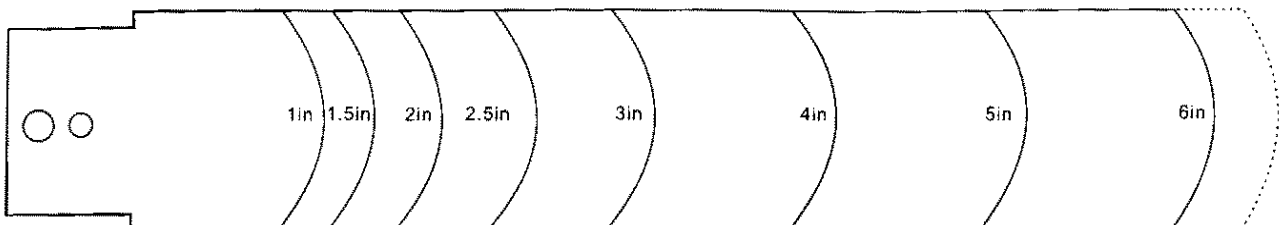
◆ Installation



◆ **Flow data table**

Required to Actuate Switch (M ³ /hr)											
Pipe size (inch)		1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"
Min. Flow	Flow increase red & blue closes	1.0	1.3	1.7	3.1	4.1	6.2	8.4	12.9	16.8	46.6
	Flow decrease red & yellow closes	0.6	0.8	1.1	2.2	2.8	4.3	6.1	9.3	12.3	38.6
Max. Flow	Flow increase red & blue closes	2.0	3.0	4.4	6.6	7.8	12.0	18.4	26.8	32.7	94.2
	Flow decrease red & yellow closes	1.9	2.8	4.1	6.1	7.3	11.4	17.3	25.2	30.7	90.8

◆ **Trimming of the paddle**



NOTES

- When going out of factory, the flow switch is equipped with 1", 2" and 3" paddles can be trimmed followed with the template in the principle that trimmed paddle should not touch with the pipe wall in the bottom.
- The flow switch must installed in the 1" pipe line and a 1"x1"x1" tee must be applied, if the flow switch is installed on the pipe line of the large diameter, a reducing tee must be used to cooperate with the flow switch end a paddle of the corresponsive length should be equipped.
- The flow switch should be installed on the horizontal line or vertical line where the flow direction is upward. Never install the flow switch on the vertical line where the flow direction is downward. When installing the flow switch on the vertical line where the flow direction is upward, the data of runoff should be modified considering the affection of the gravity of the liquid.