LEFOO

FS series liquid flow switch

FS series liquid flow switch is designed for managing the flow changes when the liquid flows in the pipe, such as water, ethylene glycol or other non-hazardous liquids. When the liquid flow is higher or lower than the setting value, the single-pole double- throw contacts (SPDT) can get through one circuit and at meantime to break the other circuit. FS series liquid flow switch is commonly used for chain reaction or "no flow" protection.

Features

Max liquid pressure: 1 MPa, can be used in multiple applications.

There are 3 stainless steel paddles, can be used in 25 to 75mm diameter pipe.

Number of paddles is changeable and length of paddle is trim-able according to customer requirements.

With additional 6"paddle, FS series liquid flow switch can be used in 100 to 150mm diameter pipe.

For user convenience, FS52 flow switch has large room for wiring.

FS51/FS52 can also be provided with stainless steel connection, which is suitable for ammonia and other medium.



The typically application is used to protect the cooling system, when the cooling water is off, FS flow switch can shut off the compressor current efficiently in order to protect the freezer and entire system from being damaged.

Specification (FS flow switch)

						/	Actuate	flow (m	³ /h)						
Pipe Diameter (mm)		25	32	40	50	65	80	100	125	150	200	100*	125*	150*	200*
Min Adjus tment	Flowincr ease(re d blue closed	0.95	1.32	1.70	3.11	4.09	6.24	14.8	28.4	43.2	85.2	8.4	12.9	16.8	46.6
	Flow decreas e (red yellow closed)	0.57	0.84	1.14	2.16	2.84	4.32	11.4m	22.9	35.9	72.7	6.13	9.31	12.26	38.6
Max Adjus tment	Flow increase (red blue closed)	2.0	3.02	4.36	6.6	7.84	12.0	29.1	55.6	85.2	172.6	13.4	26.8	32.7	94.26
	Flow decreas e (red yellow closed)	1.93	2.84	4.09	6.13	7.23	11.4	27.7	53.4	81.8	165.8	17.3	25.21	30.66	90.85

- 1. Above flow values are for the reference of choice
- 2. The figures with " * " symbol are for the 4 paddles flow switch. While, the figures without " * " symbol are for the 3 paddles (1, 2, 3) flow switch.
- 3. The paddles will be chose according to the flow in the main pipe where the flow switch is installed in.

Performance Parameter

Electric load:

Max working pressure:

Flow temperature:

Environment temperature:

The endurance of bellows:

Ingress protection:

AC250V 10A

10.34Bar

0-120°C

0-60°C

500000 cycles

Installation

- 1. Pipe connection: FS series flow switch be provided with 1", 1/2", 3/4" NPT connections.
- 2. The arrow direction in the cover must be as same as the flow direction in the pipe.
- The flow switch is suggested to be installed on horizontal pipes, if it have to be on vertical pipes, then the direction in the pipe must be upward flow. It is not allowed to be installed on the vertical lines with downward flow.
- 4. To avoid the paddle damage, flow reversal is not allowed when the flow switch is working.



FS51

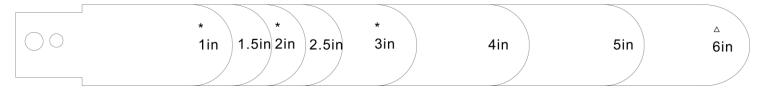


FS52

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The paddle trimming figure



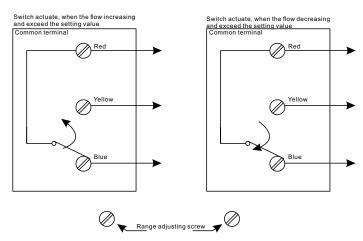
Attention

the paddles with " \star " symbol are installed in factory the paddle with " Δ " symbol is the additional paddle.(not installed) the balance paddles are for trimming when install the trimmed paddles, the end of paddle should keep 5--10mm distance from the pipe end and no friction with the pipe

Order Ref No.

Code	Connection size	Connection Material				
1	1"NPT	Brass (for water or other liquids suitable for brass)				
2	1/2"NPT	Stainless steel (for ammonia and other liquids suitable for stainless steel)				
3	3/4"NPT					

Wiring diagram



Typical installation drawing

Flow switch

