

## FRC Vane Type Explosion Proof Flow Switch

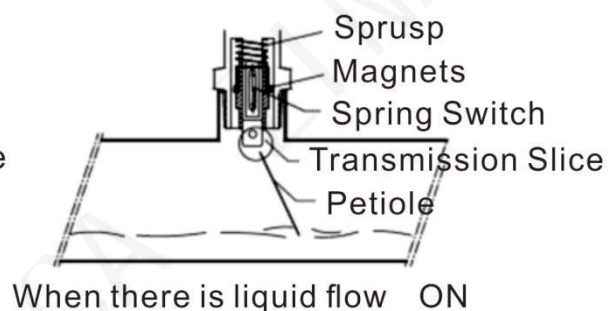
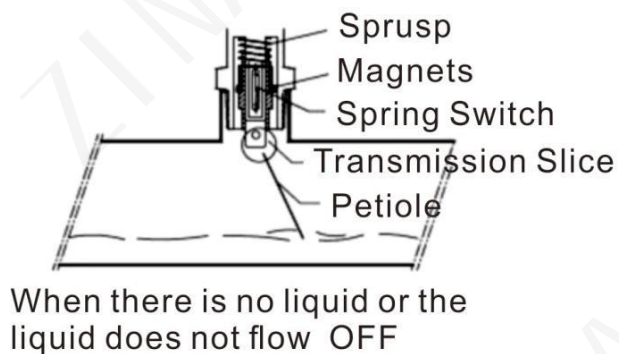


### I. Overview of FRC-LSFS-F vane flow switches

LSFS vane flow switch is mainly used to test whether the liquid is in flow state. When the liquid is not flowing, the vane is in a natural state; when the liquid is flowing, the impact force of the liquid drives the vane to deflect, which drives the reed switch action through the drive shaft and outputs the switch signal.

### II. FRC-LSFS-F vane type flow switch principle

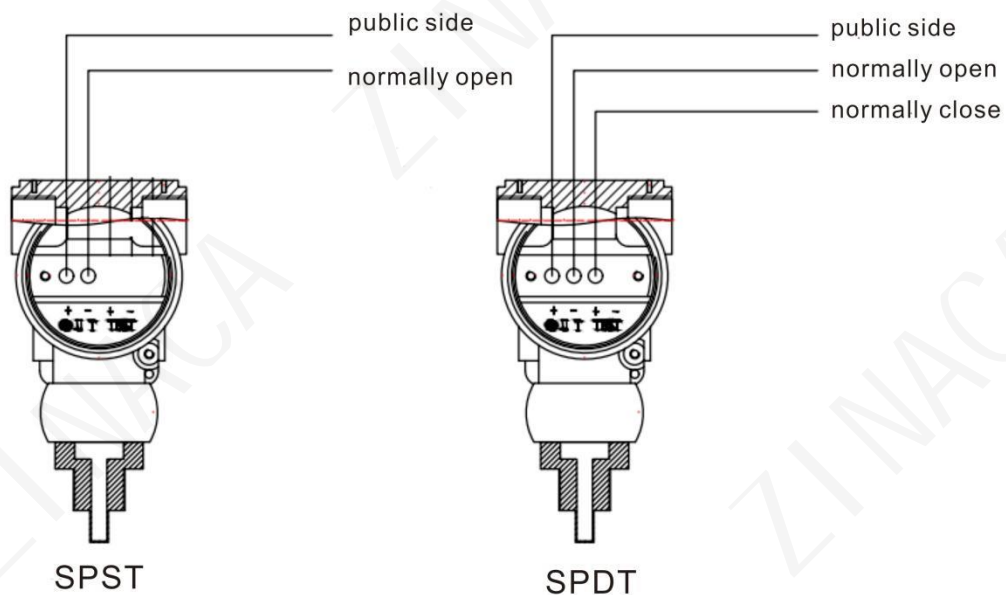
LSFS vane type flow switch uses the water flow force to drive the vane to test whether the liquid flows in the pipe. When there is no liquid flow in the pipeline, the spring presses the magnet downward and the vane becomes vertical, at this time, there is no action of the reed switch, and the contact is in the normally open (NO) position. When there is liquid flow in the pipeline and the liquid flow is sufficient to push the blade up  $20^{\circ}$  -  $30^{\circ}$ , the eccentric drive plate above the blade pushes the magnet upward, and the suction force of the magnet causes the reed switch to operate and the contact point to be open. Due to the different diameter of the pipe blade length should also be changed.



### III. FRC-LSFS-F Vane Flow Switch Dimension Drawing



### IV. Wiring Diagram of FRC-LSFA-F Vane Flow Switch



## V. FRC-LSFS-F vane type flow switch technical parameters

Model	LSFS-F
Product Specification	
Junction box material	cast aluminum
output signal	reed switch
operating temperature	-30℃-120℃
Catch material	SUS316L/304
operating pressure	Max 355 PSIG
Maximum Allowable Voltage Drop	3 PSIG
Setting Motion Point Tolerance	±25%
Repeat action error	±5%
Contact capacity	220V 0.5A

## VI. FRC-LSFS-F vane type flow switch technical parameters

Piping specifications flow rate value Blade length (Gallons/minute)	1"		1-1/2"		2"		2-1/2"		3"	
	movement	reset	movement	reset	movement	reset	movement	reset	movement	reset
1"	4.7	3.9	10.9	8.3	19.9	16.1				
1-1/4"			7.7	6.1	16.5	12.3	31.3	22.8		
1-1/2"			5.7	4.5	13.4	9.5	25.2	18.5		
2"					8.4	6.3	15.1	12.8	29.7	21.9
2-1/2"							13.9	10	20.4	15.4
3"									17.1	12.8

※1 gallon = 3.7854 liters

## VII. Selection of FRC-LSFS-F vane type flow switch

selection					instructions
FRC-LSFS-F		<input type="checkbox"/>	<input type="checkbox"/>	/ <input type="checkbox"/>	
connection method	G3/4				Interface thread G3/4  (Standard thread G3/4, special order please note, thread size should be $\geq$ G3/4)
Catch material		1			304 material
		2			316 material
Probe length		L+ lengths  (unit: mm)			Example: L20 (stopper length 20mm, standard length 125mm)

## VIII. Accessories

name	Welding Base	T-pipe
photograph		