

FS1-J

Flow Switch



The FS1-J flow switch is an orifice type and highly sensitive flow switch to be mounted in 1/2 (B) inch pipe of process pipe run, and is used for a water cut-off relay to detect the water flow or level.

As the flow sensing section is composed of an orifice and a diaphragm with a magnet connected to a micro switch, it is highly sensitive, long life and highly reliable. Flow rate to operate or stop the switch can be set by a flow rate adjustment screw.

Specifications

(See below table)

Selection Guide

Model No.	Description
FS1-J	Flow switch

(Table)

Body/ operating unit	Applicable fluid	Water (non-corrosive)									
	Operation & output	ON-OFF (micro switch SPDT contacts)									
Model No.	Wetted area material	Pipe size (B)	Adjustment range (standard value)				Min. adjustment (factory set)		Max. adjustment		
			Operation				Flow (ℓ /min)	Speed (m/s)	Flow (ℓ /min)	Speed (m/s)	
FS1-J	Body: Brass cast Diaphragm: Viton Orifice: Monel	1/2	Operating flow rate		1.6	0.13	6.9	0.58			
			Stoppage flow rate		0.9	0.08	4.9	0.41			
Pressure drop characteristics	Differential pressure kPa	70	140	210	280	350	420	490	560	630	
	Flow rate ℓ /min	32	44	52	60	67	75	81	87	92	
Contact rating (motor duty)	Voltage	115Vac		230Vac		115Vac		240Vac		115 to 230Vac	
		Load								Pilot load	
		Full load		7.7A		3.7A		0.3		0.15	
		44.4A		22.2A						125VA	
General	Max. pressure	700kPa									
	Temperature range	0 to 107°C									
	Weight	Approx. 1.5kg									
	Mounting	Rc 1/2 screw thread horizontal mounting in horizontal pipe run									
	Straight pipe length required for mounting	At least 5 times the pipe size required for each upstream and downstream side for mounting									

Dimensions

(unit:mm)

