

FS4-3J

Flow Switch

The FS4-3J flow switch is a paddle type flow switch to be mounted in 1 to 6 (B) inch pipe size of process water pipe run, and is used for a water cut-off relay to detect water flow or level.

The flow sensing section is composed of a paddle and a bellows to operate a micro switch by the change of flow. The setting of switch actuation by the flow rate and no-flow rate can be made with an adjustment screw.



Specifications

(See below table)

Selection Guide

Model No.	Description
FS4-3J	Flow switch

(Table)

Body/ operating unit	Applicable fluid	Water (non-corrosive)										
	Operation & output	ON-OFF (micro switch SPDT contacts)										
	Model No.	Wetted area material		Max. pressure	Temperature range	Weight		Color	Mounting			
	FS4-3J	Body: Brass Paddle: Monel		1.03MPa	0 to 150°C	Approx. 1.2kg		Black	R1 tapped body right in the horizontal pipe run			
	Max. flow speed	2m/s										
	Actuation flow rate (standard value)	Pipe size (B) Flow		1	1 1/4	1 1/2	2	2 1/2	3	4	5	6
	Min. adjustment (Factory set)	Actuation	ℓ /min	23	37	48	71	92	114	150	222	300
			m/s	0.67	0.64	0.60	0.55	0.49	0.39	0.30	0.28	0.26
		Stoppage	ℓ /min	14	21	27	36	44	46	75	111	150
			m/s	0.40	0.36	0.33	0.27	0.24	0.16	0.15	0.14	0.13
	Max. adjustment	Actuation	ℓ /min	39	64	87	127	160	197	278	435	628
			m/s	1.17	1.09	1.09	0.94	0.82	0.68	0.56	0.56	0.55
		Stoppage	ℓ /min	35	57	74	91	142	175	243	348	466
			m/s	1.03	0.97	0.90	0.88	0.75	0.60	0.49	0.44	0.41
Paddle dimension to use	Note (1)		For 1B	32mm	38mm	For 2B	57mm	For 3B	92	117.5	143	
Contact rating (motor duty)	Voltage		115Vac		230Vac		115Vdc		230Vdc		115 to 230Vac	
			Full load		7.4A		3.7A		0.3A		0.15A	Pilot load
	Locked rotor		44.4A		22.2A						125VA	
General	Straight pipe length required for mounting	At 5 times the pipe size required for each upstream and downstream side for mounting										
	Accessories	Paddles: Part No. SAFS4-15 for 1, 2 and 3B sizes, and part No. FS4-37 for 4, 5 and 6B sizes Note 1: The paddles are trimmed to match pipe sizes. No trimming is required for 1, 2 or 3B pipe sizes with a tee. Note 2: Avoid the overlapped mounting of paddles but mount one necessary paddle.										

Dimensions

(unit:mm)

