

FS4-3J

Flow Switch



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

The flow sensing section is composed of a paddle and bellows that operate a microswitch when the flow changes. The flow rate that operates or stops the switch can be set by an adjustment screw.

Specifications

Body/ operating unit	Applicable fluid	Water (non-corrosive)											
	Operation & output	ON-OFF (microswitch SPDT contacts)											
	Model No.	Wetted area material		Max. pressure	Temperature range		Mass	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)		1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	
	Min. adjustment (factory settings)	Flow											
		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*			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 125VA		
	Locked rotor		44.4A		22.2A								
General	Straight pipe length required for mounting	At least 5 times the pipe diameter is required on both upstream and downstream sides for mounting.											
	Accessories	Paddles: part No. FS4-15SS for 1, 2, 3 and 6B sizes, and part No. FS-15RP for 1 and 6B sizes											
	Approval bodies	CSA											

* The paddles are trimmed to match pipe sizes. No trimming is required for 1, 2 or 3B pipe sizes with a tee.

Selection Guide

Model No.	Description
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Dimensions

(Unit: mm)

