

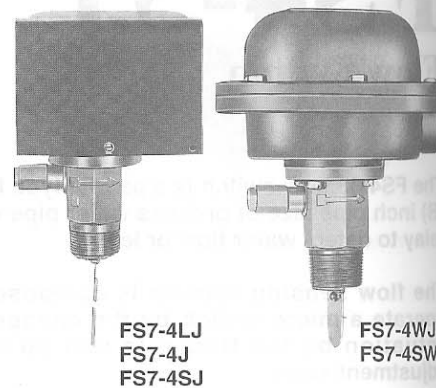


FS7-4

Flow Switch

The FS7-4 flow switch is a paddle type flow switch to be mounted in 1 1/4 to 6 (B) inch pipe of process pipe run, and are used for a water cut-off relay to detect the water flow or level.

As the flow sensing section is composed of a paddle and a sealed stainless tube with a magnet connected to a micro switch, it is highly sensitive, long life and highly reliable. The settings of switch actuation by the flow rate and no-flow rate can be made with an adjustment screw.



FS7-4LJ
FS7-4J
FS7-4SJ

FS7-4WJ
FS7-4SWJ

Specifications

Body/ operating unit	Applicable fluid	Water (non-corrosive)														
	Operation & output	ON-OFF (micro switch SPDT contacts)														
	Item	Wetted area material	Max. pressure	Temperature range	Flow speed	Weight	Color	Mounting								
	Model No.															
	FS7-4LJ	Body: Brass Paddle: Phosphate bronze	2MPa	150°C	2m/s max.	5.4kg	Black	R1 1/4 inch tapped body right in the horizontal pipe run								
	FS7-4WJ					5.4kg										
	FS7-4J					3.6kg										
	FS7-4SWJ	Body: SUS316				5.4kg										
	FS7-4SJ	Paddle: SUS301				3.6kg										
	FS7-4LJ															
	Actuation flow rate (standard value)	Flow	Pipe size (B)													
			8	10	12	14	16	20	24	30	36					
	Min. adjustment (Factory set)	Actuation	ℓ/min	356	560	799	977	1294	1968	2846	4455	6522				
			m/s	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18			
	Max. adjustment	Actuation	ℓ/min	178	280	401	488	647	984	1423	2229	3259				
			m/s	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09			
	Min. adjustment (Factory set)	Stoppage	ℓ/min	530	836	1200	1465	1942	2952	4269	6684	9780				
			m/s	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27			
	Max. adjustment	Stoppage	ℓ/min	473	746	1067	1302	1726	2623	3793	5942	8694				
			m/s	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24			
	Contact rating (motor duty)	Voltage		120Vac		240Vac		120Vdc		240Vdc		120 to 240Vac				
		Load	7.4A		3.7A		0.3A		0.15A		Pilot load					
		Full load	44.4A		22.2A						125VA					
		Locked rotor														
	FS7-4WJ/J/SWJ/SJ															
	Actuation flow rate (standard value)	Flow	Pipe size (B)													
			1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	
	Min. adjustment (Factory set)	Actuation	ℓ/min	18	23	37	57	92	126	168	213	394	696	1094	1465	1942
			m/s	0.32	0.30	0.29	0.32	0.33	0.26	0.22	0.19	0.20	0.23	0.25	0.27	0.27
	Max. adjustment	Actuation	ℓ/min	10	13	22	35	58	79	117	184	337	594	935	1223	1620
			m/s	0.20	0.17	0.17	0.19	0.20	0.16	0.15	0.16	0.17	0.20	0.21	0.23	0.23
	Min. adjustment (Factory set)	Stoppage	ℓ/min	28	38	60	90	134	232	317	434	795	1397	2203	2850	3777
			m/s	0.51	0.48	0.46	0.49	0.47	0.48	0.41	0.39	0.41	0.46	0.50	0.53	0.53
	Max. adjustment	Stoppage	ℓ/min	22	26	41	64	110	142	192	270	496	874	1374	1874	2483
			m/s	0.38	0.33	0.32	0.34	0.38	0.29	0.26	0.24	0.26	0.29	0.31	0.35	0.35
	Paddle dimension to use		For 1 1/4		For 2B		For 3B	For 4B	For 5B	For 6B						
	Contact rating (motor duty)	Voltage		115Vac		230Vac		115Vdc		230Vdc		115 to 230Vac				
		Load	7.4A		3.7A		0.3A		0.15A		Pilot load					
		Full load	44.4A		22.2A						125VA					
		Locked rotor														
General	Straight pipe length required for mounting	At least 5 times the pipe sizes required for each upstream and downstream side for mounting														
	Accessories	Flow switch	Accessories													
		FS7-4LJ	Paddle: FS7-28 (6B), FS7-28L (12B) • When the pipe sizes are 18 to 16B, use a paddle for 6B, when 20 to 36B, use a 12B paddle.													
		FS7-4WJ	Paddle: FS7-28 for FS7-4WJ, FS7-28S for FS7-4SWJ													
		FS7-4SWJ	• When the pipe sizes are 2, 3, 4 and 5B, trim the paddle of 6B to match these sizes.													
		FS7-4J	Paddle: FS7-28 for FS7-4J, FS7-28S for FS7-4SJ													
		FS7-4SJ	• When the pipe sizes are 2, 3, 4 and 5B, trim the paddle of 6B to match these sizes..													
	Approval bodies	UL, CSA														

• User's manual No. : CP-SS-1108, (CP-SS-1108E), CP-SS-1109, CP-SS-1110

Selection Guide

Model No.	Description
FS7-4LJ	Flow switch
FS7-4WJ	Flow switch (Splash-proof), NEMA-4X (IP56)
FS7-4SWJ	Flow switch (Splash-proof), NEMA-4X (IP56)
FS7-4J	Flow switch
FS7-4SJ	Flow switch

FLAME SAFEGUARD CONTROLS

