

Flow Switch F61KB-11C



The F61KB-11C Liquid Flow Switches are single-Pole, Double-Throw (SPDT) flow switches that are used in liquid lines carrying water, ethylene glycol, or other liquids not classified as hazardous. They can be wired to energize one device and de-energize another device powered from the same source when liquid flow either exceeds or drops below the set flow either exceeds or drops below the set flow rate.

Typical Flow Rates

GPM(m ³ /hr) Required to Actuate Switch											
Pipe Size(in.)		1	1-1/4	1-1/2	2	2-1/2	3	4*	5*	6*	8*
Minimum Adjustment	Flow Increase R to Y Closes**	4.2 (1.0)	5.8 (1.3)	7.5 (1.7)	13.7 (3.1)	18.0 (4.1)	27.5 (6.2)	65.0 (14.8) 37.0+ (8.4)	125.0 (28.4) 57.0+ (12.9)	190.0 (43.1) 74.0+ (16.8)	375.0 (85.2) 205.0+ (46.6)
	Flow Increase R to B Closes**	2.5 (0.6)	3.7 (0.8)	5.0 (1.1)	9.5 (2.2)	12.5 (2.8)	19.0 (4.3)	50.0 (11.4) 27.0+ (6.1)	101.0 (22.9) 41.0+ (9.3)	158.0 (35.9) 54.0+ (12.3)	320.0 (72.7) 170.0+ (38.6)
	Flow Increase R to Y Closes**	8.8 (2.0)	13.3 (3.0)	19.2 (4.4)	29.0 (6.6)	34.5 (7.8)	53.0 (12.0)	128.0 (29.1) 81.0+ (18.4)	245.0 (55.6) 118.0+ (26.8)	375.0 (85.2) 144.0+ (32.7)	760.0 (172.6) 415.0+ (94.2)
	Flow Increase R to B Closes**	8.5 (1.9)	12.5 (2.8)	18.0 (4.1)	27.0 (6.1)	32.0 (7.3)	50.0 (11.4)	122.0 (27.7) 76.0+ (17.3)	235.0 (53.4) 111.0+ (25.2)	360.0 (81.8) 135.0+ (30.7)	730.0 (165.8) 400.0+ (90.8)

*Flow rates for these sizes are calculated.

+GPM figures are for a switch with a 6 in. paddle. For 4 in. And 5 in. Line pipe, the 6 in. Paddle is trimmed to a 4 in. and 5 in. length, respectively.

Specifications

Product	F61KB-11C Flow Switch			
Maximum Liquid Pressure	150psig(1034kPa)			
Minimum Liquid Temperature	32°F(0)			
Maximum Liquid Temperature	250°F(120)			
Electrical Ratings	120VAC	208VAC	240VAC	277VAC
Horsepower	1	1	1	-
Full Load Amperes	16.0	8.8	8.0	-
Locked Rotor Amperes	96.0	52.8	48.0	-
Non-inductive Amperes	16.0	16.0	16.0	16.0
Pilot Duty	125VA at 24/277/VAC			
Wiring Connection	Screw Type Terminals			
Pipe Connector	1 in. 11-1/2 NPT Threads			

* Conduit Connection One 7/8 in.(22mm)Hole For1/2in.Conduit with 1-3/32 in.(28mm) knockout Ring for 3/4in.

***Note:** The F61KB-11C Flow Switch Cannot be used where the liquid in the pipes will drip below the liquid's freezing point, causing an internal freeze-up.

***IMPORTANT:** F61KB-11C Flow Switches are designed for use ONLY as operating controls. Where an operating Control failure would result in personal injury and/or loss of property, it's the responsibility of the installer to add devices (Safety, limit controls) or systems (alarm, supervisory systems) that protect against or warn of control failure.