

# 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 <sup>3</sup> /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

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