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F61 Series

Flow Switch (Low Flow Rate – SPDT)

Description

For use on liquid lines using water, ethylene glycol solutions, or other liquids not corrosive to the brass or phosphor bronze parts. The SPDT contact switch is activated by a low flow rate; however, it has a large flow capacity with a minimum pressure drop.

Applications

Typical applications include:

- water purification and treatment systems
- booster pumps
- fast shutdown on high input boilers to guard against circulation failure
- cooling systems for electronic tubes, bearings, and compressors

F61KD-4

Selection Chart

Code Number	Inlet and Outlet Size Female NPT	Enclosure NEMA Type	Adjustment Range – GPM (L/Min)		Maximum Liquid Temp	Minimum Liquid Temp	Maximum Liquid Pressure
			R to Y Closes Flow Increase	R to Y Opens Flow Decrease			
F61KD-3C	1/2 x 1/2 in. (13 x 13 mm)	1	Minimum 0.6 (2.27) Maximum 1.1 (4.17)	Minimum 0.3 (1.14) Maximum 0.9 (3.4)	250°F (121°C)	32°F (0°C)	150 psig (1034 kPa)
F61KD-4C	3/4 x 3/4 in. (19 x 19 mm)	1					
F61KD-8C	3/4 x 3/4 in. (19 x 19 mm)	1	Minimum 8.5 (32.2) Maximum 9.0 (34.1)	Minimum 4.5 (17.1) Maximum 6.3 (23.9)			
F61MD-1C	1/2 x 1/2 in. (13 x 13 mm)	3R	Minimum 0.6 (2.27) Maximum 1.1 (4.17)	Minimum 0.3 (1.14) Maximum 0.9 (3.4)		-20°F (-29°C)	
F61MD-2C	3/4 x 3/4 in. (19 x 19 mm)	3R					

Technical Specifications

Dimensions

F61 Series Flow Switch (Low Flow Rate - SPDT)	
Height	5-1/32 in. (127 mm)
Width	4 in. (102 mm)
Depth	2-13/16 in. (71 mm)

Electrical Ratings

Motor Ratings VAC	120 VAC	208 VAC	240 VAC	277 VAC
Horsepower	1	1	1	–
AC Full Load A	16.0	8.8	8.0	–
AC Locked Rotor A	96.0	52.8	48.0	–
Non-Inductive or Resistance Load A	16	16	16	16
Pilot Duty – 125 VA, 24/277 VAC				

The performance specifications are nominal and conform to acceptable industry standards. For applications at conditions beyond these specifications, consult the local Johnson Controls office. Johnson Controls, Inc. shall not be liable for damages resulting from misapplication or misuse of its products. © 2009 Johnson Controls, Inc.

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