

Flow Switches – Liquid

Series FS8-W
General Purpose Liquid Flow Switches

- For general purpose applications with environmental exposure, or those requiring a water-tight, dust tight, or a NEMA 4X rated flow switch
- 1" NPT
- Sealed Monel bellows
- Single pole, double throw snap switch
- Four stainless steel paddles included - 1", 2", 3" and 6" (25, 50, 80 and 150mm)
- Sensitivity adjusting screw makes flow adjustment easy
- Optional features
 - BSPT threads
 - Gold plated contacts
- Minimum temperature (fluid or ambient) 32°F (0°C)
- Maximum temperature 225°F (107°C)
- Maximum operating pressure 160 psi (11.3 kg/cm²)
- Replacement for NEMA 4X-style flow switches from Potter/Taco, Watts, Penn and other manufacturers

Electrical Ratings

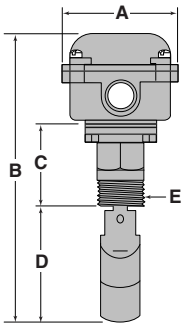
Voltage	Motor Switch Rating (Amperes)		Pilot Duty
	Full Load	Locked Rotor	
120 VAC	7.4	44.4	125 VA at 120 or 240 VAC 50 or 60 cycles
240 VAC	3.7	22.2	

Dimensions, in. (mm)

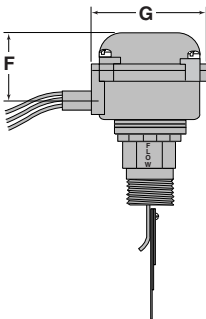
A	B	C	D	E NPT	F	G
3¼ (83)	8⅜ (213)	2⅝ (59)	3⅞ (87)	1	1¼ (45)	3¼ (83)



Series FS8-W



Model FS8-WG-SL



Flow Rates

Pipe Size NPT in.	Settings	Mode of Operation				Max. Flow Rate gpm (lpm) w/o Paddle Damage
		Flow gpm (lpm)	Velocity fps (mps)	No Flow gpm (lpm)	Velocity fps (mps)	
1	Factory or Minimum	4.9 (18.5)	1.82 (.55)	3.4 (12.9)	1.25 (.38)	27
	Maximum	17.6 (66.6)	6.53 (2.00)	15 (56.8)	5.56 (1.69)	(102.2)
1¼	Factory or Minimum	7.5 (28.4)	1.60 (.49)	5.3 (20.1)	1.14 (.35)	47
	Maximum	29 (110)	6.23 (1.9)	24.6 (93.1)	5.28 (1.61)	(177.9)
1½	Factory or Minimum	9.4 (35.6)	1.48 (.45)	6.7 (25.4)	1.05 (.32)	63
	Maximum	37.8 (143)	5.95 (1.81)	32.2 (122)	5.07 (1.54)	(238.5)
2	Factory or Minimum	13.7 (51.8)	1.31 (.4)	9.4 (35.6)	.9 (.27)	105
	Maximum	56.4 (214)	5.39 (1.64)	47.4 (179)	4.53 (1.38)	(397.4)
2½	Factory or Minimum	17.9 (67.8)	1.20 (.36)	12.1 (45.8)	.81 (.25)	149
	Maximum	71.3 (270)	4.78 (1.46)	59.2 (224)	3.97 (1.21)	(564)
3	Factory or Minimum	24.2 (91.6)	1.05 (.32)	16.4 (62.1)	.71 (.22)	230
	Maximum	89 (337)	3.87 (1.18)	72.5 (274)	3.15 (.96)	(870.6)
4	Factory or Minimum	35.3 (134)	.89 (.27)	27 (102)	.68 (.21)	397
	Maximum	118 (446)	2.89 (.91)	105 (397)	2.64 (.8)	(1502.7)
5	Factory or Minimum	48.6 (184)	.78 (.24)	37.4 (142)	.6 (.18)	654
	Maximum	178 (674)	2.86 (.87)	160 (606)	2.57 (.78)	(2475.4)
6	Factory or Minimum	60.3 (228)	.67 (.20)	46.8 (177)	.52 (.16)	900
	Maximum	245 (927)	2.72 (.83)	225 (852)	2.5 (.76)	(3406.5)

Values are ± 10%

Ordering Information

Model Number	Part Number	Description	Weight lbs. (kg)
FS8-W	120601	General purpose flow switch w/NEMA 4X enclosure	2.0 (0.9)
FS8-WJ	120602	FS8-W w/BSPT connections	2.0 (0.9)
FS8-WG	120603	FS8-W w/gold plated switch contacts	2.0 (0.9)
FS8-WG-SL	120604	FS8-W w/gold plated switch contacts, sealed leads	2.0 (0.9)
FS8-WZ	120605	FS8-W w/ANSI terminal connections	2.0 (0.9)
FS8-WJA	120751	FS8-WJ w/adjusting indicator	2.3 (1.0)
FS8-WJA-E	120752	FS8-WJA- CE conformance rated	2.3 (1.0)

See page 120 for CE Conformance information

NOTE: DO NOT USE LIQUID FLOW SWITCHES ON SYSTEMS WITH FLOW GREATER THAN 10 FEET (3M) PER SECOND.