



ITT

Flow Switches

McDonnell & Miller

Flow Switches – Liquid

Series FS4-3 (continued) General Purpose Liquid Flow Switches

Flow Rates

Pipe Size NPT in.	Settings	Mode of Operation		Max. Flow Rate gpm (lpm) w/o Paddle Damage
		Flow gpm (lpm)	No Flow gpm (lpm)	
1	Factory or Minimum	6 (22.7)	3.6 (13.6)	27 (102.2)
	Maximum	10.2 (38.6)	9.2 (34.8)	
1¼	Factory or Minimum	9.8 (37.1)	5.6 (21.2)	47 (177.9)
	Maximum	16.8 (63.6)	15 (56.8)	
1½	Factory or Minimum	12.7 (48.1)	7 (26.5)	63 (238.5)
	Maximum	23 (87.1)	19.5 (73.8)	
2	Factory or Minimum	18.8 (71.2)	9.4 (35.6)	105 (397.4)
	Maximum	32.8 (124.1)	24 (90.8)	
2½	Factory or Minimum	24.3 (92)	11.6 (43.9)	149 (564)
	Maximum	42.4 (160.5)	37.5 (141.9)	
3	Factory or Minimum	30 (113.6)	12 (45.4)	230 (870.6)
	Maximum	52.1 (197.2)	46.1 (174.5)	
4	Factory or Minimum	39.7 (150.3)	19.8 (74.9)	397 (1502.7)
	Maximum	73.5 (278.2)	64.2 (242)	
5	Factory or Minimum	58.7 (222.2)	29.3 (110.9)	654 (2415.4)
	Maximum	115 (435.3)	92 (348.2)	
6	Factory or Minimum	79.2 (300)	39.6 (150)	900 (3406.5)
	Maximum	166 (628.3)	123 (465.6)	

Values are ± 10%

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

Ordering Information

Model Number	Part Number	Description	Weight lbs. (kg)
FS4-3	114400	General purpose flow switch	1.9 (0.9)
FS4-3J	114610	FS4-3 w/BSPT connections	1.9 (0.9)
FS4-3-RPT	114639	FS4-3 w/test button	1.9 (0.9)
FS4-3Z	114410	FS4-3 w/ANSI terminal connections	1.9 (0.86)
FS4-3A	114450	FS4-3 w/tamper-proof cover screws	2.0 (0.9)
FS4-3D	114550	FS4-3 w/2 SPDT switches	2.3 (1.0)
FS4-3S	114641	FS4-3 w/SS body, monel bellows	1.9 (0.9)
FS4-3SJ	176216	FS4-3S w/BSPT connections	1.9 (0.9)
FS4-3DS	114642	FS4-3S w/2 SPDT switches	3.3 (1.5)
FS4-3-5R	114405	FS4-3 w/5 second DOB	2.3 (1.0)
FS4-3-20	114425	FS4-3 w/20 second DOM	2.3 (1.0)
FS4-3J-E	114611	FS4-3J-CE conformance rated	1.9 (0.9)
FS4-3D-E	114552	FS4-3D-CE conformance rated	1.9 (0.9)
FS4-3S-E	114646	FS4-3S-CE conformance rated	1.9 (0.9)

See page 132 for CE Conformance information

Ordering Information

Model Number	Part Number	Description	Weight lbs. (kg)
FS4-3F	114625	FS4-3 for fire sprinkler service	1.9 (0.9)
FS4-3FCAN	114626	FS4-3 for fire sprinkler service (Canada)	2.3 (1.0)
FS4-3F-20	114635	FS4-3F w/20 second DOM	2.3 (1.0)
FS4-3DF	114555	FS4-3F w/2 SPDT switches	2.3 (1.0)
FS4-3DF-20	114640	FS4-3F w/20 second DOM, 2 SPDT switches	3.3 (1.50)

For Model FS4-3F & FS4-3DF

NPT Pipe Size In.	Paddle to use Length	TEE Size
1"	1 ^{11/32} " as furnished (only)	1" x 1" x 1" NPT Tee
1¼"	Trim 1½" pipe size paddle with template	1¼" x 1¼" x 1" NPT Tee (Paddle must be bowed for insertion into 1¼" tee)
1½"	2 ^{1/16} " as furnished (only)	1½" x 1½" x 1" NPT Tee (Paddle must be bowed for insertion into 1½" tee)

NOTE: ONLY LISTED PIPE SIZES MEET UL REQUIREMENTS FOR FIRE SPRINKLER SYSTEMS.

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