

FS-550 Series – High Pressure, Metal Paddle Switch

Pipe Line Size: 1-1/4" and Up

Primary Construction Material: Stainless Steel or Brass

Setting Type: Fixed

Standard FS-550 switches sense liquid flow in either direction to monitor flow/no-flow conditions. They are supplied in two paddle lengths. The paddle is trimmed during installation to permit switch actuation at the desired flow rate. As flow increases in a pipe, the paddle of the switch pivots to move out of the liquid path, producing less than 3 PSIG of pressure drop regardless of pipe size.

Specifications

Brass or 316 Stainless Steel
302 Stainless Steel
316 Stainless Steel
Ceramic and Teflon®
2000 PSIG (138 bar)
3 PSIG (0.2 bar) Maximum
-30°F to + 300°F (-34.4°C to + 148.9°C)
± 25%
SPDT, 20 VA
± 5%
No. 18 AWG, 24"L., Polymeric Lead Wires

^{*}See "Electrical Data" on Page X-5 for more information.

Standard Actuation and De-actuation Set Points

The Table below indicates paddle lengths which achieve switch actuation for specific flow rates. Approximate pipe line sizes are marked on paddle.

	Pipe Size	Pipe Line Sizes						
	Marked at Paddle Cut-Off Point	1-1/4″	1-1/2″	2″	2-1/2″	3″	4″	
		Approximate Actuation and (De-Actuation) Flow Rates GPM Water						
Short Paddle Unit	1-1/4″	5 (3)	13 (8)	22 (15)	29 (22)	_	_	
Long Paddle Unit	1-1/2″	_	15 (11)	28 (21)	38 (30)	_	_	
	2″	_	_	22 (15)	27 (20)	48 (38)	_	
	2-1/2″	_	_	_	21 (14)	40 (26)	52 (39)	
	3″	_	_	_	_	31 (20)	45 (32)	
	4″	_	_	_	_	_	39 (25)	

All flow rate tests for the above table were conducted with the switch installed in a standard "T" fitting. For calculation of flow rates in pipe sizes larger than 5", a flow velocity of approximately 0.5 ft. per sec. actuates the switch with a full length (5") paddle. The paddle can be trimmed to achieve different actuation points.

How To Order – Standard Models

Select switch type, paddle length and housing material, then specify adjacent part number.

Switch	Paddle	Housing Material	Switch Operation	Part Numbers			
Type	Length			Standard	3-Pin J-Box		
SPDT Standard Unit	Lann	Brass		29609 🗲	56730		
		Long	Long	316 S.S.	N.O.	29608 🗲	56729
	Short -	Short	Brass	or N.C.	30641 🗲	66914	
			316 S.S.		30640 🗲	61189	

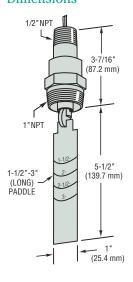
Note: The FS-550 Switch is not recommended for use with 1" plastic tees





U.L. Recognized File No. E31926 CSA Listed — File No. LR30200 and LR22666 FM Approved — File No. 0A8A3.AE and 1H3A2.AX

Dimensions



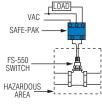


FS-550 switches are U.L. Approved for Class I, Division 2, Groups A, B, C, D hazardous areas.



Using GEMS SAFE-PAK
Relays and barriers,
these switches provide
automatic flow/no
flow interlock and
are intrinsically-safe
without explosion-proof
housing and piping.

U.L. Approved — File No. E183854



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