

PSR - OEM Paddle Flow Switch with Integral T-Piece

Benefits and Features



- Switch Point Adjustable
- Easy to Install
- Brass or SS Construction
- Low Cost
- Maximum Pressure: 1450/3600 PSI

General Description

Paddle type flow switches can be used wherever a simple economic yet reliable monitoring instrument is required for flow switching applications. The device operates as follows: The flowing medium presses against the paddle of flow switch. The paddle is fitted to one end of a balance arm which is in direct contact with a pre-stressed leaf spring. At the other end of the balance arm is a permanent magnet. This magnet actuates a reed contact located within a moveable housing outside the media.

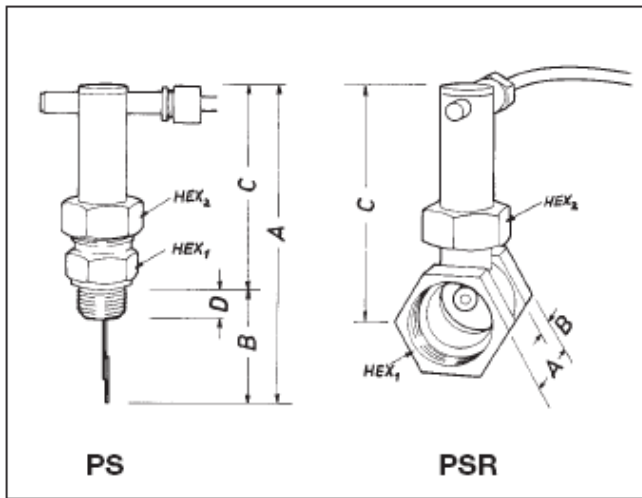
The reed contact switches on or off depending on the position of the permanent magnet and the switch housing. The status of the switch may then be used to electrically control the fluid flow. The movable reed switch on the PSR/PS allows the contacts to be set either normally open (N/O) or normally closed (N/C).

Specifications

- Maximum Temperature: 230°F
- Maximum Pressure: 1450 PSIG
- for brass units, 3600 PSIG for SS units
- Materials:
 - Paddle: SS 304
 - Leaf Spring: SS 301
 - Beam: SS 301
 - Locking Plate: brass or SS 304
 - Contact Housing: Polyamid, glass reinforced, NEMA 4
 - Cable: PVC
 - O-Ring: Buna-N for brass units; Viton for SS units
- Contact: Reed-switch SPST, N/O or N/C
- Maximum Contact Ratings: 50 VA, (50 Watt, 250 VAC, 1.5A)
- Standard Cable Length: 5ft
- Orientation: Horizontal Pipes
- Max Flow: 5x switching range increasing

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Ordering Information



Order Numbers for standard types				
Stand. conn. NPT	Switching ranges		Flow switch Model PSR	
	Increasing GPM water	Decreasing GPM water	Brass	SS
1/4"	0.9- 1.3	0.6- 1.2	PSR 5105	PSR 5205
3/8"	1.0- 1.8	0.7- 1.5	PSR 5110	PSR 5210
1/2"	1.3- 2.1	1.0- 2.0	PSR 5115	PSR 5215
3/4"	3.0- 4.0	2.2- 3.0	PSR 5120	PSR 5220
1"	3.2- 5.0	2.4- 4.5	PSR 5125	PSR 5225
1 1/4"	4.9- 8.5	3.8- 7.8	PSR 5132	PSR 5232
1 1/2"	9.2-15.0	7.9-14.3	PSR 5140	PSR 5240

Optional SPDT Reed Switch add Suffix "-u"

Order Numbers and Dimensions						
Order Number	Dimensions					
	A	B	C	D	HEX ₁	HEX ₂
PS-.49	3.86"	1.32"	1.34"	0.78"	0.87"	-
PS-.52	5.05"	2.22"	3.03"	0.75"	1.06"	1.18"
PS-.14	7.55"	4.52"	3.03"	0.75"	1.06"	1.18"
PSR-.05	1.97"	0.39"	3.15"	-	1.06"	1.18"
PSR-.10	1.97"	0.39"	3.15"	-	1.06"	1.18"
PSR-.15	1.97"	0.39"	3.15"	-	1.06"	1.18"
PSR-.20	2.05"	0.59"	3.21"	-	1.25"	1.18"
PSR-.25	2.20"	0.59"	3.31"	-	1.54"	1.18"
PSR-.32	2.80"	-	3.50"	-	1.97"	1.18"
PSR-.40	2.80"	-	3.62"	-	2.36"	1.18"

U. S. Patent Number 4,827,092

Order Numbers for standard types					
Pipe Size	Switching ranges		Stand. conn. NPT	Flow switch Model PS Material	
	increasing GPM Water	decreasing GPM Water		Brass	SS
2"	18- 24	16- 22	1/2"	PS-5149	PS-5249
3"	48- 66	45- 62	1/2"		
4"	84-106	79-101	1/2"		
6"	185-242	176-237	1/2"	PS-5152	PS-5252
2"	13- 16	11- 15	1/2"		
3"	41- 48	38- 44	1/2"		
4"	57- 70	53- 66	1/2"		
6"	147-159	137-156	1/2"	PS-5114	PS-5214
4"	24- 30	19- 27	1/2"		
6"	53- 75	44- 62	1/2"		
8"	101-141	88-123	1/2"		

Optional SPDT Reed Switch add Suffix "-u"