# MINIATURE PRESSURE AND VACUUM SWITCHES

Vacuum to 800 psi





- External Pressure Scale and Pointer for Easy Setpoint Adjustments
- ✓ 5 A Model Switches with High Proof Pressures
- I A Gold-Plated Switches for TTL and Dry-Contact Closures
- Stainless Steel, Sealing Compound and/or O-Ring Wetted Parts





Both shown actual size.



To Order						
PRESSURE	ADJUSTABLE RANGE (psig)		DEADBAND REPEATABILITY		MAX SYSTEM	
MODELS	DECREASING	INCREASING	(psig)	(psi)	PRESSURE (psi)*	SWITCH
PSW-521	0.8 to 28.5	1.6 to 30	0.8 to 1.3	±0.6	30	1 A
PSW-522	2.0 to 38.3	3.0 to 40	1.0 to 1.7	±1.0	50	1 A
PSW-523	3.0 to 96.5	4.5 to 100	1.5 to 3.5	±2.0	100	1 A
PSW-524	7.5 to 242.5	9.7 to 250	2.2 to 9.0	±5.0	250	1 A
PSW-525	15 to 485	20 to 500	5.0 to 21	±10	500	1 A
PSW-531	0.8 to 16.3	1.2 to 20	0.6 to 3.7	±0.8	3000	5 A
PSW-532	2.0 to 42.5	2.0 to 50	0.8 to 7.5	±2.0	3000	5 A
PSW-533	4.0 to 91	4.0 to 100	1.1 to 9.0	±4.0	5000	5 A
PSW-534	10 to 222	10 to 250	2.2 to 28	±10	5000	5 A
PSW-535	20 to 432	20 to 500	3.5 to 68	±20	5000	5 A
PSW-536	50 to 700	100 to 800	20 to 100	±40	5000	5 A
	ADJUSTABLE RANGE (inHg)				MAX SYSTEM	
VACUUM MODELS	DECREASING	INCREASING	DEADBAND (inHg)	REPEATABILITY (inHg)	PRESSURE (inHg vac/psig)*	SWITCH
PSW-541	1.6 to 27.0	2.7 to 28.2	1.3 to 2.7	±1.2	29.9/0	1 A
PSW-542	4.0 to 24.8	5.1 to 28.2	1.5 to 3.2	±2.0	29.9/0	1 A
PSW-543	6.0 to 21.5	8.4 to 28.2	2.0 to 7.3	±4.0	29.9/0	1 A
PSW-551	1.2 to 22.5	1.6 to 28.2	1.1 to 5.7	±1.6	29.9/3000	5 A
PSW-552	1.2 to 21.8	8.0 to 28.2	8.0 to 6.4	±8.0	29.9/5000	5 A

\* Exceeding these values may cause a shift in the setpoint.

Comes complete with operator's manual.

Ordering Example: PSW-525, gage model switch for maximum system pressure of 500 psi.

# **MINIATURE HIGH-PRESSURE SWITCHES**

### 🛩 500 to 6000 psi

1 A and 5 A Switch Models

Heavy-Duty Overpressure Protection

PSW-560 (1 A) AND PSW-570 (5 A) SERIES PERFORMANCE TABLE

MODEL	NOMINAL SETPOINT (psi)	DEADBAND 1 A/5 A	REPEATABILITY (±psi)
PSW-561	500	70/120	25
PSW-571	1000	80/130	50
	1500	90/145	75
	2000 2500	100/160 110/180	100 125
			-
PSW-562	600	113/186	45
PSW-572	1000	145/220	60
	1500 2000	190/262 235/305	85 100
	2500	280/345	125
	3000	325/385	150
	3500	364/430	175
	4000	410/470	200
	5000	410/470	250
PSW-563	700	177/455	65
PSW-573	1000	210/620	75
	1500	247/730	85
	2000	300/820	100
	3000	315/980	150
	4000	340/1000	200
	5000	355/1110	250
	6000	375/1280	300

## SPECIFICATIONS

Approvals: UL (1 A switches PSW-520 and PSW-540 Series only) Process Temp: -55 to 105°C (-65 to 221°F) [2% setpoint shift can occur below -25°C (-13°F) or above 50°C (122°F)]

Cycling: Not to exceed 20 cycles/min Warranty: 3 year/1 million cycles Sensor: Piston (PSW-520 and PSW-540: diaphragm) **Proof Pressure:** 150% max system pressure (PSW-530 and PSW-550: proof pressure is the max system pressure) Wetted Parts:

#### Netted Parts:

**PSW-520 and 540 Series:** 17-7 PH SS, 303 SS and loctite #271 **PSW-530 and 550 Series:** 303 SS, 316 SS, Buna-N O-ring, loctite #271 **PSW-560 and 570 Series:** 17-7 PH SS, 303 SS, Buna-N O-ring and loctite #271



To Order						
1 A MODEL	5 A	ADJUSTABLE	RANGE (psig)	MAX SYSTEM PRESSURE	PROOF PRESSURE (psig)	
	MODEL	DECREASING	INCREASING	(psig)		
PSW-561	PSW-571	500 to 2390	500 to 2500	3000	4500	
PSW-562	PSW-572	600 to 4500	600 to 5000	5000	7500	
PSW-563	PSW-573	700 to 5500	700 to 6000	6000	9000	

\* Exceeding these values may cause a shift in the setpoint.

#### SWITCH RATING

MAX RATING	AC/DC	VOLTS RESISTIVE	AMPS	AMPS INDUCTIVE CONTACTS
1 A SPDT	115/28	1/1	1/0.5	Gold**
5 A SPDT	250/28	5/5	5/3	Silver

**Caution:** Pressure switches are manufactured to the highest-quality specifications. However, because of their economical construction, they should be used only for applications in which, in the event of product failure, the risk of damage to equipment or personnel is minimal.