

# MODULAR PRESSURE SWITCHES COMPACT DESIGN CONTROL APPLICATIONS



145 to 5800 psig (10 to 400 bar)

## PSW9 Series



- ✓ Economical Compact Modular Series
- ✓ Silver Switch Contacts Rated at 10A at 250 Vac, 6A at 24 Vdc
- ✓ DIN 43650 Standard (Included)
- ✓ Easy Field Setting, with Hex 5 Allen Screw (Included)
- ✓ Process Connections, 1/4 NPT Female, 7/16-20 UNF SAE-4, or G1/4 Female

The PSW9 Series pressure switches are used in OEM applications, hydraulic power units, heavy industrial, test equipment, and ship building. The compact modular design makes them useful for both mobile and stationary hydraulic applications. A SPDT micro switch will change state on increasing pressure at the setpoint, and will reset when the pressure decreases below the set-point by the amount of the deadband. The long pressure spring allows for a precise adjustable set-point. The PSW9 features a captive set screw for industrial applications.



DIN style connector included.

## SPECIFICATIONS

**Set-Point Repeatability:**  $\pm 2\%$  typical

**Set-Point Adjustment:** Upon delivery, set-point is in the middle of the adjustable range; Turn adjustment screw CW to increase, and CCW to decrease

**Hysteresis/Deadband:** Less than or equal to 10% of maximum full range

**Contact Rating:** Silver 10 A @ 250 Vac, 6 A @ 24 Vdc

**Switching Frequency:** Maximum 60/minute

### Wiring

Pin 1: Common

Pin 2: Normally closed

Pin 3: Normally open

**Electrical Connection:** DIN 43650 with PG9, clamping range 6 to 8 mm (0.23 to 0.31")

### Ambient Temperature Range

**Piston Switch:** -20 to 80°C (-4 to 176°F)

### Wetted Parts

**Process Fitting:** Aluminum (AlMg4.5Mn)

**Piston:** Steel (100Cr6)

**Housing:** Aluminum (AlMg4.5Mn)

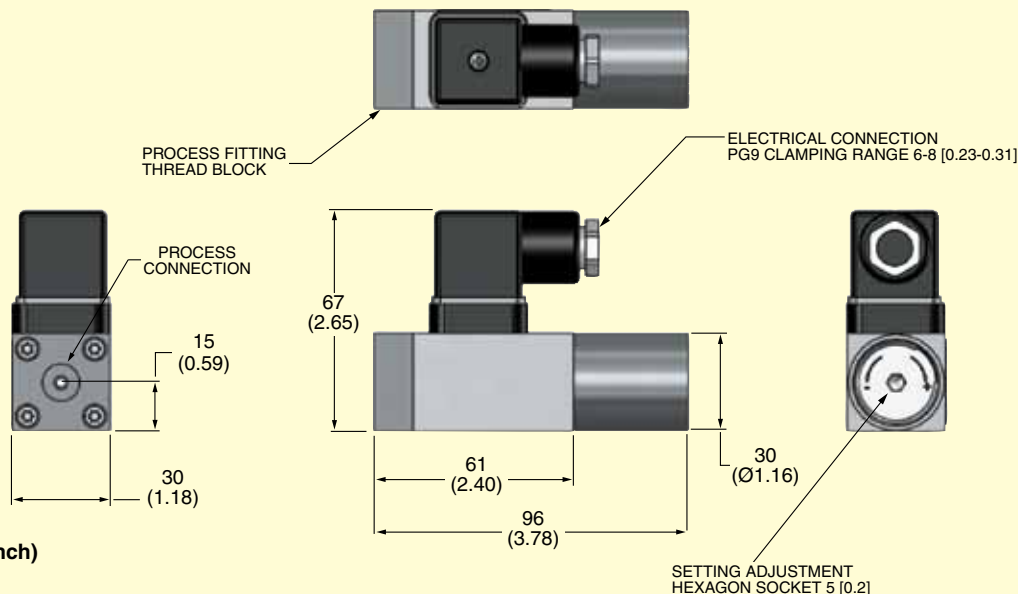
**Dynamic Seal:** See table on next page, Buna-N or FKM

**Adjustment Screw:** Stainless steel (1.4305)

**Electrical Plug:** Polyamid

**Environmental:** NEMA 4 (IP65)

**Shipping Weight:** 175 g (0.39 lb)



## To Order

MODEL NO.	ADJUSTABLE RANGE				MAXIMUM HYSTERESIS	OPERATING PRESSURE		SEAL
	DECREASING		INCREASING			psi	bar	
	psi	bar	psi	bar				
¼ NPT								
PSW9-AA10DB	90 to 630	6 to 44	145 to 725	10 to 50	10%	3620	250	Buna-N
PSW9-AB10DB	220 to 2680	15 to 185	290 to 2900	20 to 200	10%	3620	250	Buna-N
PSW9-AC10DB	510 to 5220	35 to 360	580 to 5800	40 to 400	10%	7250	500	Buna-N
PSW9-AA10DV	90 to 630	6 to 44	145 to 725	10 to 50	10%	3620	250	FKM
PSW9-AB10DV	220 to 2680	15 to 185	290 to 2900	20 to 200	10%	3620	250	FKM
PSW9-AC10DV	510 to 5220	35 to 360	580 to 5800	40 to 400	10%	7250	500	FKM
7/16-20 UNF								
PSW9-EA10DB	90 to 630	6 to 44	145 to 725	10 to 50	10%	3620	250	Buna-N
PSW9-EB10DB	220 to 2680	15 to 185	290 to 2900	20 to 200	10%	3620	250	Buna-N
PSW9-EC10DB	510 to 5220	35 to 360	580 to 5800	40 to 400	10%	7250	500	Buna-N
PSW9-EA10DV	90 to 630	6 to 44	145 to 725	10 to 50	10%	3620	250	FKM
PSW9-EB10DV	220 to 2680	15 to 185	290 to 2900	20 to 200	10%	3620	250	FKM
PSW9-EC10DV	510 to 5220	35 to 360	580 to 5800	40 to 400	10%	7250	500	FKM
G¼								
PSW9-2A10DB	90 to 630	6 to 44	145 to 725	10 to 50	10%	3620	250	Buna-N
PSW9-2B10DB	220 to 2680	15 to 185	290 to 2900	20 to 200	10%	3620	250	Buna-N
PSW9-2C10DB	510 to 5220	35 to 360	580 to 5800	40 to 400	10%	7250	500	Buna-N
PSW9-2A10DV	90 to 630	6 to 44	145 to 725	10 to 50	10%	3620	250	FKM
PSW9-2B10DV	220 to 2680	15 to 185	290 to 2900	20 to 200	10%	3620	250	FKM
PSW9-2C10DV	510 to 5220	35 to 360	580 to 5800	40 to 400	10%	7250	500	FKM

Comes complete with DIN 43650, Hex screw, and operator's manual.

**Ordering Examples:** PSW9-AB10DB, pressure switch with ¼ NPT connection, increasing range 290 to 2900 psi (20 to 200 bar).

PSW9-EC10DB, pressure switch with 7/16-20 connection, increasing range 580 to 5800 psi (40 to 400 bar).