

# NEMA-7 SWITCHES PRESSURE/VACUUM RANGES

## PSW790 Series Vacuum to 3000 psi EXPLOSION-PROOF ENCLOSURE DIVISION 1 AND 2, NEMA-7, NEMA-9, AND IP66

Starts at  
**\$370**



- ✓ Watertight, Corrosion Resistant Case
- ✓ Reliable in Harsh Environments

The OMEGA® PSW790 Series switches are designed to satisfy most industrial switch requirements in Class I and Division 1 environments. The actuators have been proven in more than 20 years of service worldwide. A Buna-N seal PSW790B and SPDT switch is standard. Optional FKM PSW790V or stainless steel seals PSW790SS extend media compatibility to most fluids, and the choice of either a hermetically sealed or dual SPDT switches will satisfy most switching applications.

### SPECIFICATIONS

**Switch:** SPDT

**Electrical:** 15 A, 125/250/480 Vac; 0.5 A, 125 Vdc; 0.25 A, 250 Vdc; 6 A, 30 Vdc

**Process Temperature Range:**

**Buna-N:** -18 to 66°C (0 to 150°F)

**FKM:** -7 to 149°C (20 to 300°F)

**Stainless Steel:** -18 to 149°C (0 to 300°F)

**Repeatability:** ±1% full range

**Proof Pressure:** 400% of range

**Deadband:**

**Buna-N:** See "To Order" box

**FKM:** Multiply Buna-N by 1.4

**Stainless Steel:** Multiply Buna-N by 1.7

**Enclosure:** Epoxy-coated aluminum.

Class I, Division 1 & 2, Groups B, C, D  
Class II, Division 1 & 2, Groups E, F, G  
NEMA-7, -9, and IP66

**Process Connection:** ½ NPT male,  
¼ NPT female combination

**Electrical Connections:** Two ¾ NPT  
conduit ports, screw terminals internal

**Wetted Parts:** 316 SS, Buna-N

**Dimensions:**

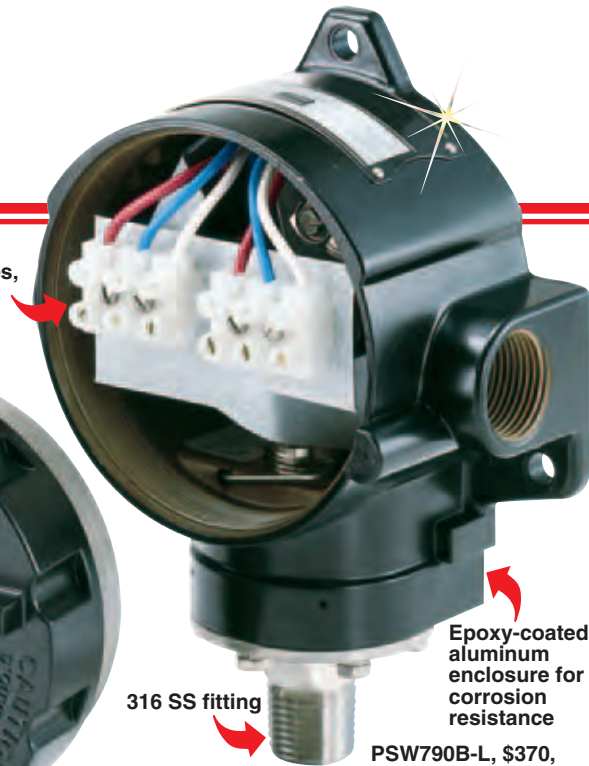
**psi ranges:** 146 H x 132 W x 100 mm D  
(5.7 x 5.8 x 4")

**inH<sub>2</sub>O ranges:** D = 130 mm (5.6")

Terminal block wiring standard on dual switches, optional -XK3, \$90, on single-switch models



Buna-N gasketed for environmental sealing



316 SS fitting

Epoxy-coated aluminum enclosure for corrosion resistance

PSW790B-L, \$370, shown smaller than actual size.

### OPTIONAL CONFIGURATIONS

**Hermetically Sealed Switch:**  
11 A, 125/250 Vac; 5 A, 30 Vdc  
add suffix "-HS", \$90

**Dual SPDT Switches:**  
add suffix: "-DS", \$60

**Stainless Steel Actuator Seal:** (psi ranges to 1000) replace "B" in model no. with "SS", \$50 (not avail on 3000 psi rg)

**FKM Actuator Seal:** (vacuum to 1000 psi ranges) replace "B" in model no. with "V", add \$10 for psi ranges; add \$50 for inH<sub>2</sub>O ranges

**Single switch terminal block:**  
add suffix: "-XK3", \$90

**MOST POPULAR MODELS HIGHLIGHTED!**

### To Order (Specify Model Number)

NOMINAL RANGE <sup>(1)</sup>	MODEL NO.	PRICE	PROOF (psi)	APPROXIMATE DEADBAND <sup>(2)</sup>
<b>STANDARD MODELS: BUNA-N SEAL, 15 A SWITCH</b>				
30 inHg Vac	PSW790B-A	\$395	250	1.5 to 3.0
-15 inH <sub>2</sub> O/15 inH <sub>2</sub> O	PSW790B-B	405	20	1.5 to 2.5/1.5 to 2.5
-30 inH <sub>2</sub> O/30 inH <sub>2</sub> O	PSW790B-C	405	20	1.5 to 2.5/1.5 to 2.5
30 inHg Vac/15 psi	PSW790B-D	405	250	2.0 to 3.0/0.5 to 1.5
30 inHg Vac/30 psi	PSW790B-E	405	250	3.0 to 6.0/1.0 to 2.0
30 inHg Vac/60 psi	PSW790B-F	405	250	5.0 to 9.0/3.0 to 5.0
10 inH <sub>2</sub> O	PSW790B-G	405	20	1.0 to 2.0
30 inH <sub>2</sub> O	PSW790B-H	405	20	1.5 to 2.5
60 inH <sub>2</sub> O	PSW790B-I	405	20	1.5 to 3.5
100 inH <sub>2</sub> O	PSW790B-J	405	20	2.5 to 5.5
150 inH <sub>2</sub> O	PSW790B-K	405	20	4.5 to 8.5
15 psi	PSW790B-L	370	500	0.5 to 1.5
20 psi	PSW790B-M	370	500	0.5 to 1.5
60 psi	PSW790B-N	370	500	1.0 to 3.5
100 psi	PSW790B-O	370	1000	1.5 to 5.0
200 psi	PSW790B-P	370	1000	5 to 13
400 psi	PSW790B-Q	370	2400	5 to 24
600 psi	PSW790B-R	370	2400	9 to 30
1000 psi	PSW790B-S	420	12000	30 to 110
3000 psi	PSW790B-T	420	12000	80 to 235

Comes complete with operator's manual.

**Notes:** 1. Switches can generally be set between 15 and 100% of nominal range.

2. Deadbands are in English units as shown in the Nominal Range column for Buna-N diaphragm models. See table in "Specifications" for approximate deadbands of optional seals.

**Ordering Example:** PSW790SS-L-HS, stainless steel seal, 15 psi range and hermetically sealed 11 A switch, \$370 + 50 + 90 = \$510.



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