

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



Watertight, Corrosion Resistant Case UL Listed 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: UL listed 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, 1(NDT Econcle combinetion

¹/₄ NPT Female combination **Electrical Connections:** (2) ³/₄ 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") inH2O ranges: D = 130 mm (5.6") Terminal block wiring standard on dual switches, optional (**XK3, \$90**) on single-switch models

OPTIONAL

Buna-N

gasketed for

environment al sealing

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

Dual SPDT Switches: add suffix: "-DS", \$60 316 SS fitting

Epoxy-coated aluminum enclosure for corrosion resistance

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

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 inH₂O ranges Single switch terminal block: add suffix: "-XK3", \$90

MOST POPULAR MODELS HIGHLIGHTED!

NOMINAL	MODEL		PROOF	APPROXIMATE
RANGE ⁽¹⁾	NUMBER	PRICE	(PSI)	DEADBAND ⁽²⁾
STANDARD MODELS: BUNA-N SEAL, 15 A SWITCH				
30 inHg Vac	PSW790B-A	\$395	250	1.5 to 3.0
-15 inH2O/15 inH2O	PSW790B-B	405	20	1.5 to 2.5/1.5 to 2.5
-30 inH2O/30 inH2O	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 inH2O	PSW790B-G	405	20	1.0 to 2.0
30 inH2O	PSW790B-H	405	20	1.5 to 2.5
60 inH2O	PSW790B-I	405	20	1.5 to 3.5
100 inH2O	PSW790B-J	405	20	2.5 to 5.5
150 inH2O	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 with complete 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** has a stainless steel seal, a range of 15 psi and a hermetically sealed 11 A switch, \$370 + 50 + 90 = **\$510**.

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