

# PSF103 Series *pressure switch • high current*

## OPTIONS

from these available options to custom-design a pressure switch to suit your needs.

### Pressure Port/Cover Options

**00** Smooth Port  
.156" Diameter  
for 1/8" ID Tubing  
w/Mtg. Lugs

**01** Smooth Port  
.156" Diameter  
for 1/8" ID Tubing  
w/o Mtg. Lugs

**02** Barbed Port  
for 3/16" ID Tubing  
Same Side as Terminals  
w/Mtg. Lugs

**03** Barbed Port  
for 3/16" ID Tubing  
Opposite Terminals  
w/Mtg. Lugs

**04** Barbed Port  
for 3/16" ID Tubing  
Same Side as Terminals  
w/o Mtg. Lugs

**05** Barbed Port  
for 3/16" ID Tubing  
Opposite Terminals  
w/o Mtg. Lugs

**06** 1/8" NPT Port  
w/o Mtg. Lugs

**07** Flow-Thru  
Barbed Port  
for 1/8" ID Tubing  
w/o Mtg. Lugs

**08** Smooth Port  
.250" Diameter  
for 7/32" ID Tubing  
w/o Mtg. Lugs

**09** Smooth Port  
.250" Diameter  
for 7/32" ID Tubing  
w/Mtg. Lugs

**10** Barbed Port  
for 1/8" ID Tubing  
Same Side as Terminals  
w/Mtg. Lugs

**11** Barbed Port  
for 1/8" ID Tubing  
Opposite Terminals  
w/Mtg. Lugs

**12** Barbed Port  
for 1/8" ID Tubing  
Same Side as Terminals  
w/o Mtg. Lugs

**13** Barbed Port  
for 1/8" ID Tubing  
Opposite Terminals  
w/o Mtg. Lugs

### Adjustable Pressure Set Point Options

Option No.	In. H <sub>2</sub> O	mbar	PSI	Proof Pressure		Electrical 125/250 VAC
				Poly-urethane	Teflon	
<b>020</b>	2 ±0.5	5	0.1	30 PSI	15 PSI	3A
<b>902</b>	3 to 10	7.5 to 25	0.11 to 0.4	30 PSI	15 PSI	3A
<b>903</b>	10 to 28	25 to 69	0.4 to 1.0	30 PSI	30 PSI	10A
<b>904</b>	28 to 111	69 to 276	1.0 to 4.0	30 PSI	30 PSI	15A
<b>905</b>	111 to 416	276 to 1034	4.0 to 15.0	100 PSI	30 PSI	15A
<b>906</b>	416 to 1664	1034 to 4137	15.0 to 60.0*	100 PSI	30 PSI	15A

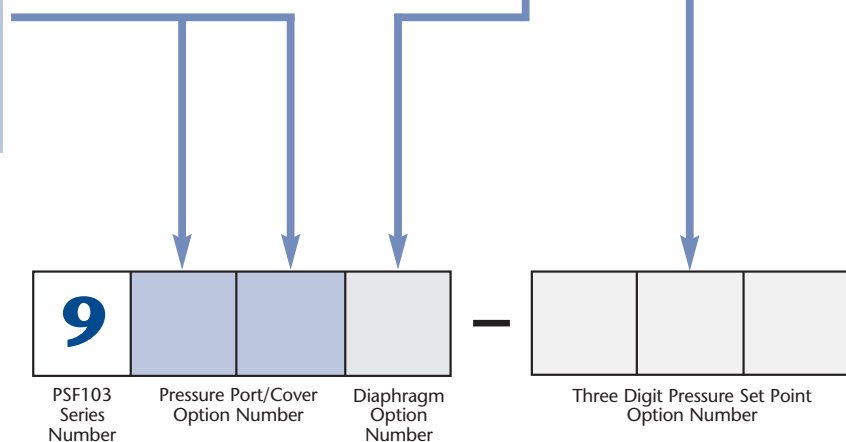
\*Teflon diaphragm 30 psi max

### Diaphragm Options

- 1** Polyurethane (standard)
- 2** Teflon (optional)

## DESIGN GUIDE

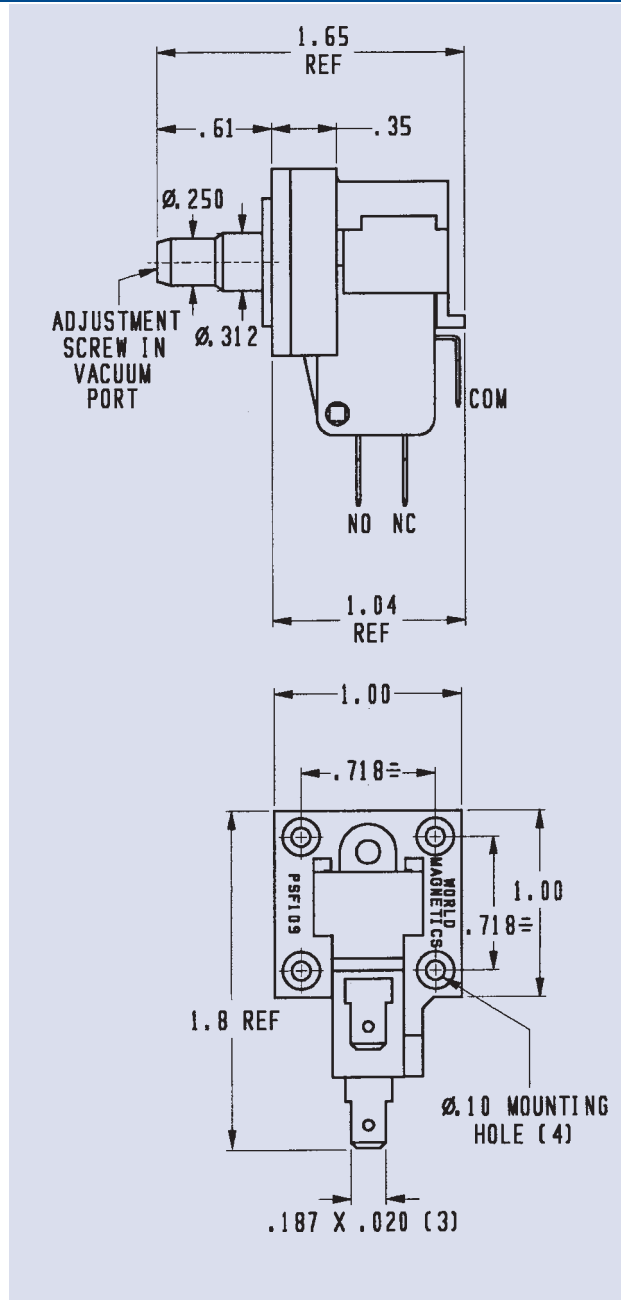
Choose one option number from each of the above categories and arrange in the sequence shown here.



### Example:

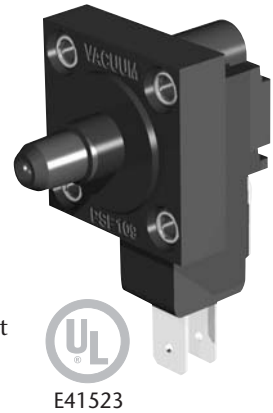
**9061-902** = PSF103 Series ultra sensitive pressure switch with • Pressure Port Cover, 1/8" NPT PORT without Mounting Lugs • Polyurethane Diaphragm • Adjustable Set Point Range: 3" to 10" H<sub>2</sub>O

# PSF109S Series vacuum switch • high current



## FEATURES

- Vacuum switch with Hysteresis (deadband) for motor control
- Field adjustable vacuum set point, from 3" H<sub>2</sub>O to 12 PSI
- Snap action basic switch, up to 25 A, 125/250 VAC
- .250" diameter or 1/8" NPT vacuum port
- Small size and lightweight



## SPECIFICATIONS

MECHANICAL	
Standard Tolerance	±20% Tighter tolerances available
Switch Type	SPDT normally open, or normally closed
Switching Medium	Air or compatible fluids
Mechanical Life	More than 10 million cycles
Operating Temp.	+40°F to +150°F (standard) -46°F to +205°F (consult factory)
PHYSICAL	
Mounting	Use #2 screws thru eyelets
Case Material	Polycarbonate standard
Contact Material	Silver (Gold available on special order)
Diaphragm Material	Polyurethane standard (Teflon® optional)
Electrical Connections	Terminals – .187" x .020" tab-type for use with AMP 2-520182-2 or equivalent
ELECTRICAL	
Contact Rating	See rating chart

For Hysteresis chart see page 8

## STANDARD MODELS

VACUUM SET POINT AND ELECTRICAL RATING						
Part Number	Description	Port Style	(-) In. H <sub>2</sub> O	(-) mbar	(-) PSI	Electrical Rating
20161	PSF109S-3-8	.250" dia.	3 to 8	8 to 20	0.1 to 0.3	3 A, 125/250 VAC
20901	PSF109S-NPT-3-8	1/8" NPT	3 to 8	8 to 20	0.1 to 0.3	3 A, 125/250 VAC
20112	PSF109S-9-80	.250" dia.	9 to 80	21 to 199	0.3 to 2.9	10 A, 125/250 VAC
20890	PSF109S-NPT-9-80	1/8" NPT	9 to 80	21 to 199	0.3 to 2.9	10 A, 125/250 VAC
20623	PSF109S-81-330	.250" dia.	81 to 330	200 to 822	2.9 to 11.9	15 A, 125/250 VAC
20897	PSF109S-NPT-81-330	1/8" NPT	81 to 330	200 to 822	2.9 to 11.9	15 A, 125/250 VAC