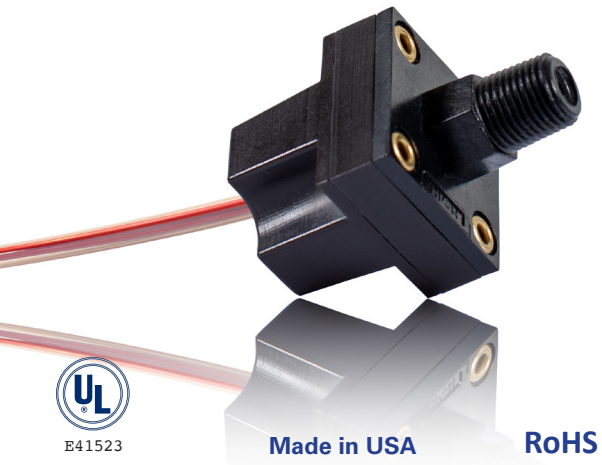
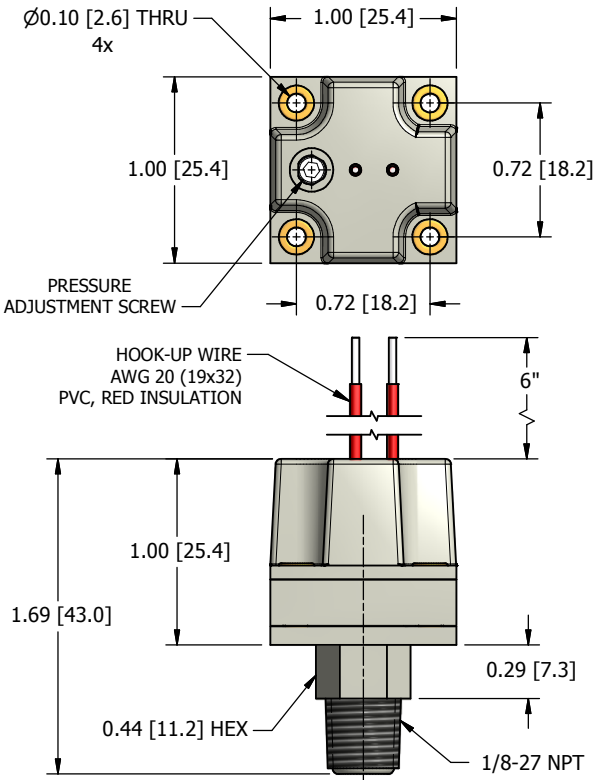


FEATURES / BENEFITS

- Compact, lightweight, sealed housing
- Field adjustable pressure and vacuum set points from -11.9 to 60psi
- Many standard pressure port and mountings options
- Custom design and engineering available
- Custom electrical lead lengths with option to add electrical connector

MODEL PSF111 - (NPT OPTION SHOWN)



The versatile PSF111 pressure and vacuum switch offers a wide range of field adjustable set points, port options and electrical connections. Using a waterproof snap-action microswitch and the new DesignFlex protective housing, this switch is ideal for use in hostile environments where dust and water ingress may be an issue.

SPECIFICATIONS

MECHANICAL	
Standard Tolerance	±20% (Tighter tolerances available)
Switch Type	SPDT (single pole / double throw) normally open (std.) | normally closed (opt.)
Switching Medium	Air; compatible fluids
Mechanical Life	More than 1 million cycles
Maximum Operating Pressure	Varies by option – see Adjustable Pressure Set Point Options overleaf
Operating Temp.	-40°F to +185°F
PHYSICAL	
Case Material	Polycarbonate (optional: Lexan 141, Ryton®, Ultem®, Noryl®) 112 – 113 range use PPS wetted parts
Pressure Port Options	Many standard ports — see Pressure Port / Cover Options overleaf
Diaphragm Material	Polyurethane (Teflon® optional with limited pressure ranges) other options available
Contact Points	Silver (Gold available on special order)
Electrical Connections	6" AWG 20 PVC wire (2 or 3 wire) other length and connector options available
Mounting	#4 Screws through mounting lugs; #2 Screws through eyelets;
Weight	Less than 20 grams
ELECTRICAL	
Current Rating	3 AMP standard | 4 AMP available
Operating Voltage	12 VDC / 125 VAC

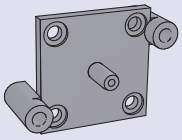
DESIGNFLEX™ STANDARD OPTIONS — Choose from our standard PSF111 options as shown below or contact our vertically integrated in-house design and engineering team for special features and unique application needs. Sample switch available by request.

ADJUSTABLE PRESSURE SET POINT OPTIONS

11X available pressure ranges P = pressure, V = vacuum	110 P	111 P	112 P	113 P	114 V	115 V	116 V
In H_2O	30 to 60	60 to 135	135 to 416	416 to 1661	15 to 45	45 to 110	110 to 330
mbar	75 to 149	149 to 336	336 to 1036	1036 to 4137	37 to 112	112 to 274	274 to 822
psi	1.1 to 2.2	2.2 to 4.9	4.9 to 15	15 to 60	0.54 to 1.63	1.63 to 4.0	4.0 to 11.9
Max. Operating Pressure (PUR)	30psi	30psi	70psi	70psi	14.7psi	14.7psi	14.7psi
Max. Operating Pressure (PTFE)	15psi	15psi	30psi	30psi	14.7psi	14.7psi	14.7psi
Electrical 125 VAC, Resitive Load (SEALED spdt)	3A std. 4A avail.	3A std. 4A avail.	3A std. 4A avail.	3A std. 4A avail.	3A std. 4A avail.	3A std. 4A avail.	3A std. 4A avail.

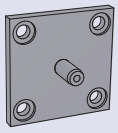
PRESSURE PORT/COVER OPTIONS

P 00



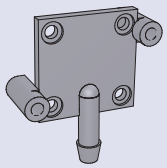
Smooth Port .156" diameter for 1/8" ID tubing w/mtg. lugs

P 01



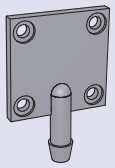
Smooth Port .156" diameter for 1/8" ID tubing w/o mtg. lugs

P 02



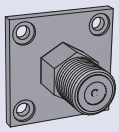
Barbed Port for 3/16" ID tubing w/mtg. lugs

P 04



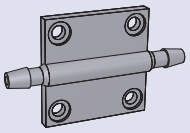
Barbed Port for 3/16" ID tubing w/o mtg. lugs

P 06 V



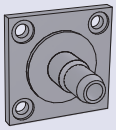
1/8" NPT Port w/o mtg. lugs

P 07



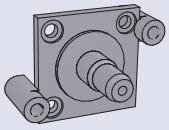
Flo-Thru Barbed Port for 1/8" ID tubing w/o mtg. lugs

P 08 V



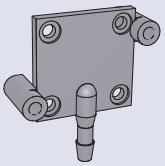
Smooth Port .250" diameter for 7/32" ID tubing w/o mtg. lugs

P 09



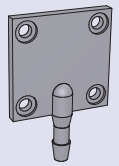
Smooth Port .250" diameter for 7/32" ID tubing w/mtg. lugs

P 10



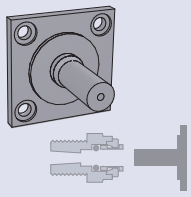
Barbed Port for 1/8" ID tubing w/mtg. lugs

P 12



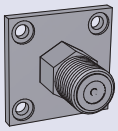
Barbed Port for 1/8" ID tubing w/o mtg. lugs

P 14 V



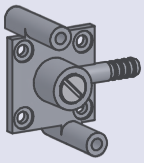
1/4" Port for Quick Connect Fitting w/o mtg. lugs

P 15 V



M8 x 1.25 Port w/o mtg. lugs

16 V



Barbed Port .200 dia. for 3/16" ID tubing w/mtg. lugs



Diaphragm Options

1 Polyurethane (standard)

2 Teflon (optional)

Model Design Guide

For building standard model order number

PSF111 Series Number	Pressure Port / Cover Option Number		Diaphragm Option Number		Three Digit Set Point Option Number		
6				–			