

E41523

Made in USA

RoHS

## FEATURES / BENEFITS

- Controllable hysteresis (deadband) (see diagram on page 19)
- Field adjustable pressure set point, from 3" H<sub>2</sub>O to 60 psi
- Snap action basic switch, up to 25A\*, 125/250 VAC  
\*Not available on all ranges
- Many standard pressure ports and mounting options
- Custom design and engineering available
- Small size, lightweight, low cost
- Dependable long life (10+ million cycles)



## SPECIFICATIONS

### MECHANICAL

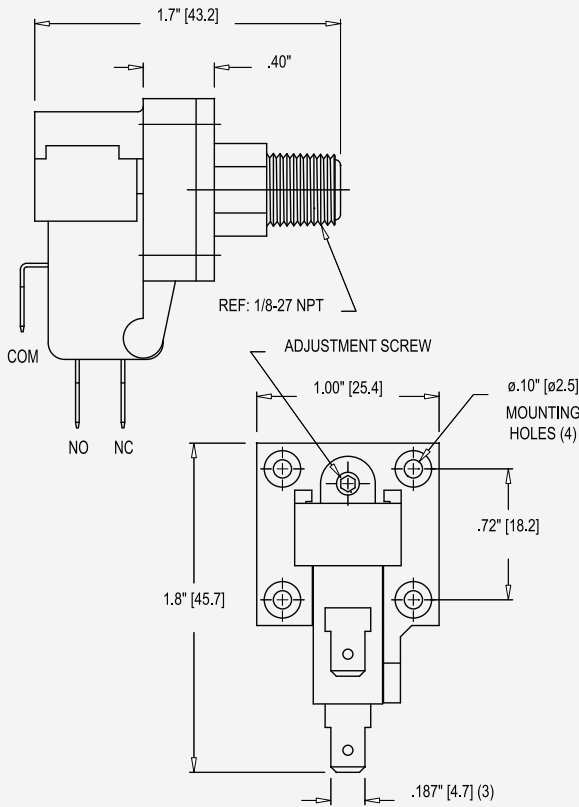
Standard Tolerance	±20% (Tighter tolerances available)
Switch Type	SPDT (single pull / double throw) normally open or normally closed
Switching Medium	Air; compatible fluids
Mechanical Life	More than 10 million cycles
Proof Pressure	Varies by option – see Adjustable Pressure Set Point Options next page
Operating Temp.	+40°F to +150°F (standard)   -46°F to +205°F (contact us)

### PHYSICAL

Case Material	Polycarbonate (optional: Lexan 141, Supec®, Ultem®, Noryl®)
Pressure Port Options	Many standard ports - see Pressure Port / Cover Options next page
Diaphragm Material	Polyurethane (Teflon® optional with limited pressure ranges)
Contact Points	Silver (Gold available on special order)
Electrical Connections	Terminals – .187"x.020" tab-type for use with quick disconnects (ref. AMP #2-520182-2 or equivalent) .250" available - contact us
Mounting	#4 Screws through mounting lugs; #2 Screws through eyelets; mounting bracket available (see page 15)
Weight	Less than 20 grams

### ELECTRICAL

Current Rating	Varies by option – see Adjustable Pressure Set Point Options next page
Operating Voltage	See Adjustable Pressure Set Point Options next page



Shown with Pressure Port Option #6



# DESIGNFLEX STANDARD OPTIONS

**DESIGNFLEX™ STANDARD OPTIONS - Choose from our standard PSF103 options as shown or contact our vertically integrated in-house design and engineering team for special features and unique application needs. FREE sample switch available by request.**

## ADJUSTABLE PRESSURE SET POINT OPTIONS

	020	902	903	904	905	906	
In. H <sub>2</sub> O	2 ± 0.5	3 to 10	10 to 28	28 to 111	111 to 416	416 to 1664	
mbar	5	7.5 to 25	25 to 69	69 to 276	276 to 1034	1034 to 4137	
psi	0.1	0.11 to 0.4	0.4 to 1.0	1.0 to 4.0	4.0 to 15.0	15.0 to 60.0*	*Teflon diaphragm 30psi max
Proof Pressure (Polyurethane)	30 psi	30 psi	30 psi	30 psi	100 psi	100 psi	
Proof Pressure (Teflon®)	15 psi	15 psi	30 psi	30 psi	30 psi	30 psi	
Electrical 125/250 VAC	3A	3A	10A	15A	15A	15A	

## PRESSURE PORT/COVER OPTIONS

<b>00</b>		<b>01</b>		<b>02</b>		<b>03</b>		<b>04</b>	
	Smooth Port .156" diameter for 1/8" ID tubing w/mtg. lugs		Smooth Port .156" diameter for 1/8" ID tubing w/o mtg. lugs		Barbed Port for 3/16" ID tubing on terminals side w/mtg. lugs		Barbed Port for 3/16" ID tubing opposite terminals w/mtg. lugs		Barbed Port for 3/16" ID tubing on terminals side w/o mtg. lugs
<b>05</b>		<b>06</b>		<b>07</b>		<b>08</b>		<b>09</b>	
	Barbed Port for 3/16" ID tubing opposite terminals w/o mtg. lugs		1/8" NPT Port		Flo-Thru Barbed Port for 1/8" ID tubing w/o mtg. lugs		Smooth Port .250" diameter for 7/32" ID tubing w/o mtg. lugs		Smooth Port .250" diameter for 7/32" ID tubing w/mtg. lugs
<b>10</b>		<b>11</b>		<b>12</b>		<b>13</b>		<b>14</b>	
	Barbed Port for 1/8" ID tubing on terminals side w/mtg. lugs		Barbed Port for 1/8" ID tubing opposite terminals w/mtg. lugs		Barbed Port for 1/8" ID tubing on terminals side w/o mtg. lugs		Barbed Port for 1/8" ID tubing opposite terminals w/o mtg. lugs		1/4" Port for Quick Connect Fitting



### Diaphragm Options

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

**OTHER / CUSTOM PORTING AND MOUNTING OPTIONS AVAILABLE**

### Model Design Guide

For building standard model order number

PSF103 Series Number

Pressure Port/Cover Option Number

Diaphragm Option Number

Three Digit Pressure Set Point Option Number

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