

Fixed Setting Design
Diaphragm Switch
Low Pressure: 3 to 125 PSIG
Vacuum Sensing: 3" to 26" Hg



DESCRIPTION

The Model 768-S diaphragm pressure switch is ideal for low pressure and vacuum applications. The Delrin® housing makes this switch an excellent choice where sterilization and cleanliness are necessary. The compact size eases space requirements.

FEATURES

- ✓ NEMA Type 2
- ✓ Low Hysteresis
- ✓ Accuracy
- ✓ Repeatability
- ✓ Wide Range of Media Compatibility

APPLICATIONS

- ✓ Emission/Air Quality Monitoring
- ✓ Load Monitoring
- ✓ Water systems

STANDARD SPECIFICATIONS

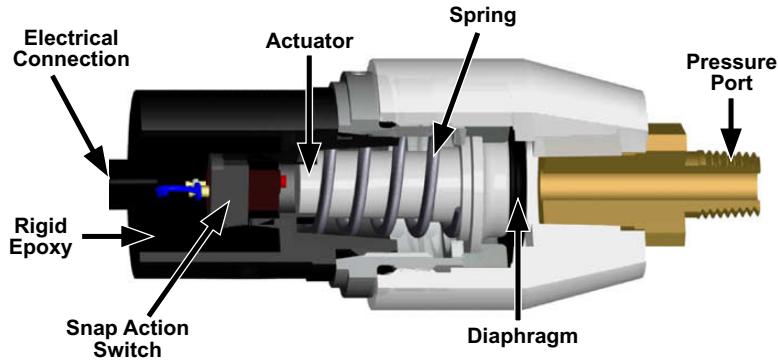
Pressure Connection	Electrical	Electrical Connection	Diaphragm Materials	Materials	Temperature Range	Shipping Weight
1/8"-27 NPT (Male)	Snap-action Electrical Switch Listed by Underwriters Lab and CSA	S03 SPDT 3 Terminal Tabs #8-32 "SEMS" Screws	Nitrile (Buna-N) Fluorocarbon Ethylene Propylene	Hydraulic Housing Delrin® Electric Module Anodized Aluminum	-40°F to + 160°F -40°C to + 71°C	Approximately 4 oz
Available in Brass and Stainless Steel	At 28 VDC: 7 Amps Resistive; 4 Amps Inductive; 2 ½ Amps Lamp Load	Other Options Available				

OPERATING PRESSURE DATA

Series	Range Number	Pressure Range	Tolerance On Set Pressure*	Dead Band*	Max System Pressure	Proof Pressure
768-S	Hg - *	3" Hg - 26" Hg	± 0.5 / ± 1.5" Hg	1.0" / 3.0" Hg	10 PSIG	15 PSIG
768-S	- *	3 - 125 PSIG	± 1.0 / ± 2.5 PSIG	1.5 / 6.0 PSIG	150 PSIG	225 PSIG

*Interpolate for Intermediate Pressures

BASIC PRINCIPLES OF DESIGN



ORDERING SEQUENCE

Series

- 768 - Diaphragm pressure switch set points between 26" Hg vacuum and 125 PSIG

Pressure Connection

- 1 - 1/8"- 27 NPT (Male)
- 2 - 1/4"- 18 NPT (Male)

Pressure Connection Material

- 1 - Brass
- 2 - Stainless Steel

Type

- S - Environmentally Sealed Fixed Setting Pressure Switch

Electrical Connection

- S03 - SPDT - 3 Terminal Tabs with #8-32 "SEMS" screws
- S33 - SPDT - 3 #18 AWG Standard lead wires, 10" long
- S35 - SPDT - 3 #18 AWG conductor cable PVC insulation & jacket, 24" long
- Other Options Available

Set Pressure to be Held On

- R - Rising pressure or RHg for increasing vacuum
- F - Falling pressure or FHg for decreasing vacuum

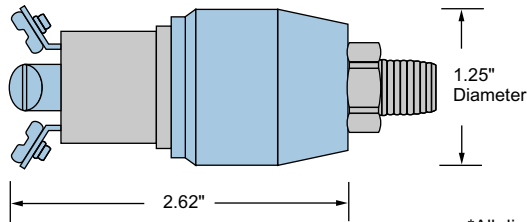
Set Pressure

- Specify factory set pressure in 4-place PSIG (Example: 0100 for 100 PSIG or Hg-12)

Diaphragm materials

- N - Nitrile (Buna-N) - Standard
- V - Fluorocarbon
- Options available
- Consult factory for other available materials and specials

ENVELOPE DIMENSIONS



*All dimensions are reference

ORDERING PROCEDURE

Series Number	Pressure Port	Port Material	Factory Set Pressure Switch	Electrical Connector	Set Pressure Held On	Set Pressure	Diaphragm Material
768.	1	1	S	03	F	0125	N
	↓ 1 = 1/8" 27 NPT (Male)	↓ 1 = Brass		↓ 03 = SPDT-3 Terminal Tabs	↓ F = Falling	↓ 155 PSIG	↓ N-Nitrile (Buna-N)

*Insert available option number or letter as required

Example: 768.11-S03F-0125 N

ORDERING PROCEDURE FOR VACUUM SWITCH

Series Number	Pressure Port	Port Material	Factory Set Pressure Switch	Electrical Connector	Set Pressure Held On	Vacuum Switch	Set Pressure	Diaphragm Material
768.	1	1	S	03	F	Hg	008.5	N
	↓ 1 = 1/8" 27 NPT (Male)	↓ 1 = Brass		↓ 03 = SPDT-3 Terminal Tabs	↓ F = Falling		↓ 8.5" Mercury	↓ N-Nitrile (Buna-N)

*Insert available option number or letter as required

Example: 768.11-S03F-Hg008.5 N