

# Models SG6540, SG6541

## General Service & Explosion Proof Pressure Switches

Pressure switches monitor line pressure and can activate an external alarm (not supplied) when a certain predetermined pressure is reached. They can be set to activate on either increasing or decreasing pressure.

Pressure switches are commonly used with cylinder manifolds to warn against product depletion. For example, a switch set to activate on decreasing pressure can alert the user that manifold pressure is low and that a cylinder changeout is required.

Two models of pressure switches are available; a general service version for nonflammable gases, and an explosion-proof version for flammable gases or Oxygen. The explosion-proof model is UL listed and CSA certified for use in hazardous locations Class I Groups A, B, C, D and Class II Groups E, F, G. Each model has a single-pole, double throw, electrical switch with a maximum rating of 15 amps at 250 VAC. Their weathertight housings are constructed of aluminum.

Pressure switches are supplied with two compression-type male connectors and five feet of stainless steel tubing for connection to a manifold or pipeline.



General Service Pressure Switch

### Specifications

Maximum Inlet Pressure: See Table I

Operating Temp. Range: -30°F to 200°F  
(+32°F to 400°F with Viton® seals)

Adjustable Pressure Range: See Table I

Electrical Rating:  
15 amps at 250 VAC  
5 amps at 30 VDC (resistive)

Minimum Current Required: 100mA

Housing: NEMA 4, 4X, IP65

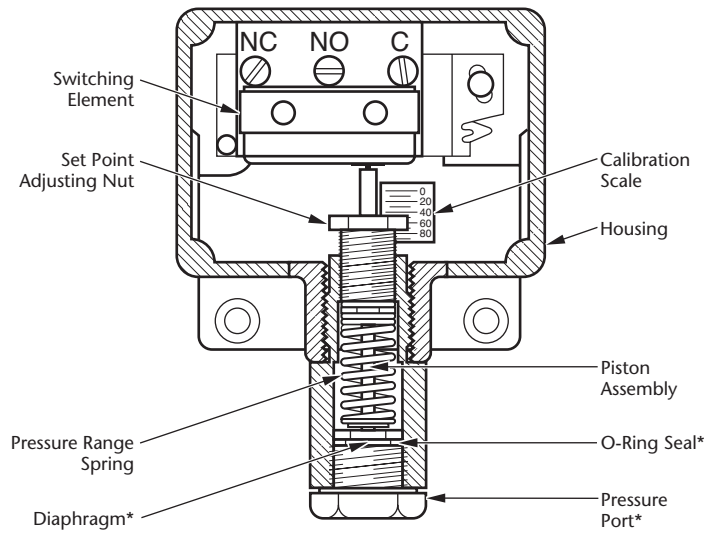
Pressure Port Connection: ¼" NPT female

Male Connectors (2 supplied):  
¼" NPT male by ⅛" compression and  
⅛" NPT male by ⅛" compression

Tubing: 5' x ⅛" OD

Approximate Weight:

SG6540: 2 lbs  
SG6541: 3 lbs



\*Wetted Parts

Internal view of pressure switch

### Materials of Construction

Housing: Aluminum

Diaphragm: Type 316 Stainless Steel

Pressure Port: Type 316 Stainless Steel

Seal: See Table I

Male Connectors: Type 316 Stainless Steel

Tubing: Type 316 Stainless Steel

**Application Note Oxygen Service:** We strongly recommend the use of our Explosion-Proof Type Pressure Switch for Oxygen Applications. The Explosion-Proof models contain a hermetically sealed switching element, which provides a safe environment for handling Pure Oxygen.

Table I, General Service and Explosion-Proof Pressure Switches

General Service Part No.	Explosion-Proof Service Part No.	Maximum Inlet Pressure	Adjustable Range**	O-Ring Seal Material
SG6540-2-N-(psig)	SG6541-2-N-(psig)	3000 psig	12–100 psig	Neoprene
SG6540-2-V-(psig)	SG6541-2-V-(psig)	3000 psig	12–100 psig	Viton®
SG6540-3-N-(psig)	SG6541-3-N-(psig)	3000 psig	45–550 psig	Neoprene
SG6540-3-V-(psig)	SG6541-3-V-(psig)	3000 psig	45–550 psig	Viton®
SG6540-4-N-(psig)	SG6541-4-N-(psig)	5000 psig	500–4000 psig	Neoprene
SG6540-4-V-(psig)	SG6541-4-V-(psig)	5000 psig	500–4000 psig	Viton®

Where "(psig)" is indicated above, insert desired pressure setting. Example: SG6540-2-N-20. Switch will be factory set to activate at 20 psig.

Note: Models SG6540-4 and SG6541-4 can be factory set to activate up to 2000 psig. Settings for pressures above 2000 must be field set.

\*\* Other ranges available on special order.