

Pressure Switches

Moisture-resistant single control pressure switches

DESCRIPTION

Three factory set models are available for hydraulic pressures from 10 to 4700 psi. All are single pole double throw type (NEMA 4). Each comes complete with a sealed 3-wire cable that is five feet long.

OPERATION

When pressure exceeds the set point, the internal contacts transfer (N.O. closes and N.C. opens). This can be used to send an alarm signal to alert either a high, or low pressure condition. When the abnormal condition is corrected, the contacts return to their normal state.

SPECIFICATIONS	
Ambient Temperature Range	0° to 160°F (-17° to 71°C)
Max Media Temperature	200°F (93°C)
Electrical Rating & Approvals	Rated to 5A resistive and 5A inductive (75% power factor), at 125 VAC & 250 VAC, 1/4 HP; 5A resistive and 3A inductive at 30 VDC; 0.5A resistive & 0.25A inductive at 125 VDC; 5mA at 6 VDC, 2mA at 12 VDC & 1mA at 24 VDC UL Recognized, CSA Certified CE Compliance with low voltage directive (LDV) CE Compliance to pressure equipment, Directive (Ped/97/23/EC)

ORDERING INFORMATION

Max. Hydraulic Pressure	Adjustment Range, Rising	Factory Setting	Part No. (Old Part No.)
2000 (138)	50 to 2000 (3 to 138)	50 (3)	557830 (542-210-200)
4700 (324)	400 to 4700 (28 to 324)	750 (52)	557828 (542-210-107)
4700 (324)	400 to 4700 (28 to 324)	1150 (79)	557829 (542-210-120)

Moisture Resistant, Adjustable Pressure Switches

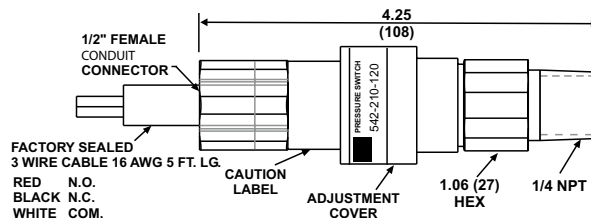


ADJUSTMENT

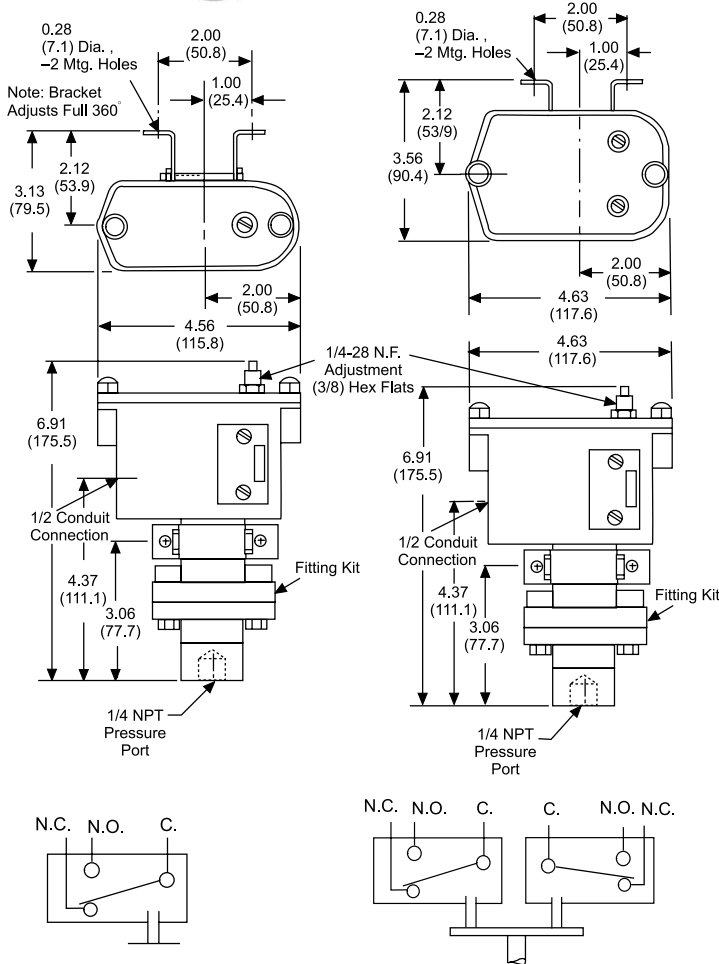
The adjustment procedure for the high-pressure switch is as follows:

WARNING

- Disconnect and lock out all power from the assembly before attempting adjustment. Serious injury may result from electrical shock.
- To avoid possible system damage, change the blow out disc or relief valve setting to match the new pressure switch setting.
 - Turn off electrical power to the lube system.
 - Connect switch to pressure source.
 - With power disconnected, slide adjustment “cover” toward cable while twisting it to overcome friction.
 - Connect continuity tester (VOM or light) to leads.
 - Insert screwdriver into adjustment slot and turn clockwise to increase setting or counter-clockwise to decrease setting. For setting on rise, apply desired pressure and turn adjustment (clockwise facing cable end of pressure switch) until switch clicks and/or tester confirms contact transfer (Circuit across N.O. and COM. terminals closes). For setting on fall, apply pressure equal to normal system operating pressure. Reduce source pressure to set point value. Turn adjustment counterclockwise until switch clicks and/or tester confirms contact transfer (circuit across N.C. and COM. closes).
 - After completing adjustments, slide “cover” closed over adjustment compartment. Recheck set point.



High-Low, Adjustable Pressure Switches (Single and Dual)



Terminal	Switch	Terminal	Switch 1	Switch 2
Common	Purple	Common	Purple	Brown
Norm. Closed	Blue	Norm. Closed	Blue	Orange
Norm. Open	Red	Norm. Open	Red	Yellow

DESCRIPTION

Three models for pressures up to 3,000 PSI (207 bars). UL listed single-pole, double-throw snap action switching elements with automatic reset by micro-switch snap-action. NEMA Type 3 weather-proof enclosures. Maximum electrical rating (continuous inductive) is 10 amperes / 125 or 250 volts AC or 0.5 amp / 30 volts DC. Approximate weights are 2.5 lb. (1.1 kg.) for the single-control models and 3.0 lb. (1.4 kg.) for the dual-control models. Switch wire leads for the single-control models are 3 #18 AWG wires, each approx. 18" (45.7 cm) long; dual-control models have 6 #18 AWG wires each approx. 18" (45.7 cm) long.

OPERATION

When pressure exceeds the trip setting, it forces the actuator piston against the micro-switch button, activating the switch. Switch remains closed/open until pressure is relieved and piston returns to its original position. Reset is automatic.

ADJUSTMENT

Remove the adjusting screw cover(s). Turn self-locking adjustment screw clockwise to reduce the pressure point or counter-clockwise to increase it. (On the dual switch, there are two screws—one for each line. Each screw must be set to the pressure desired.) Replace and secure cover(s).

PERFORMANCE & ORDERING INFORMATION

SINGLE-SETTING MODELS RATINGS-PSI (BARS)						
Proof Pressure	Adjustable Range				Actuation Valve Differential *	Part No. (Old Part No)
	Decreasing Min.	Max.	Increasing Min.	Max.		
7000 (483)	125 (9)	1400 (97)	135 (9)	1500 (103)	10 to 60 (0.7 to 4)	Disc. (507-509-000)
7000 (483)	250 (17)	2775 (191)	280 (19)	3000 (207)	30 to 225 (2 to 16)	Disc. (507-507-000)

DUAL-CONTROL MODELS RATINGS-PSI (BARS)						
Proof Pressure	Adjustable Range				Actuation Valve Differential *	To Order, Use Part No.
	Decreasing Min.	Max.	Increasing Min.	Max.		
3000 (207)	35 (2)	375 (26)	40 (3)	400 (28)	5 to 25 (0.3 to 2)	558947 (540-367-000)

All written and visual data contained in this document are based on the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice.

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