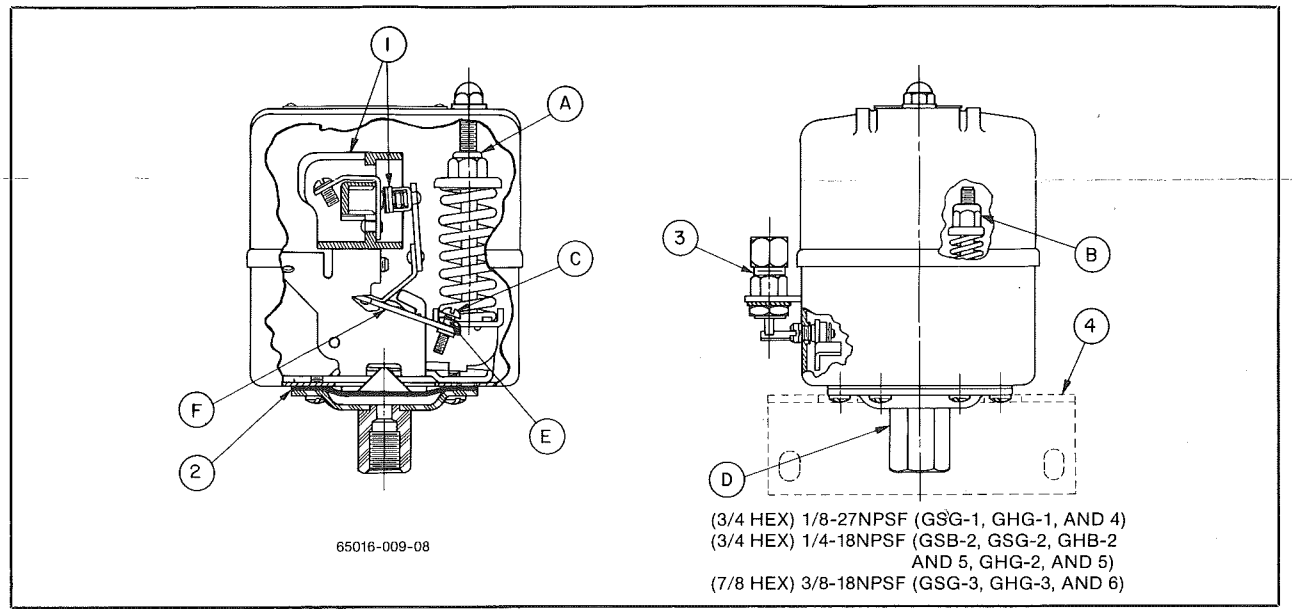
9013-853AS
SERVICE
BULLETIN

Class 9013 Types GHB, GHG, GSB, GSG Series C PRESSURE SWITCHES



65016-009-08

(3/4 HEX) 1/8-27NPSF (GSG-1, GHG-1, AND 4)
(3/4 HEX) 1/4-18NPSF (GSB-2, GSG-2, GHB-2 AND 5, GHG-2, AND 5)
(7/8 HEX) 3/8-18NPSF (GSG-3, GHG-3, AND 6)

This service bulletin applies to all Class 9013 Series C Types GHB 2,5, GHG, 1, 2, 3, 4, 5, 6, GSB 2, and GSG 1, 2, 3.

APPLICATIONS — Class 9013 Type G pressure switches are two pole devices for controlling electrically driven water pumps and air compressors. Based on their pressure ranges, Types GHB, GHG, are generally applied to air compressor applications and GSB, GSG to water pumps.

CAUTION — Do not use these devices on pressure media which would be detrimental to the NBR Elastomeric Diaphragm or zinc plated steel flange.

MOUNTING — Under conditions of moderate vibration and if connected to a short length of rigid steel pressure pipe, this switch may be mounted and supported by its pressure connector (D). For added mounting support use the flange mounted bracket (4). (Order separately as Class 9049 Type A-52, mounting bracket kit).

CAUTION — The GHB and GSB pressure switches have NEMA Type 3R enclosure ratings and must be mounted so that the pressure connector (D) is oriented down as shown above.

TWO POLE ELECTRICAL RATINGS

Voltage	Single Phase AC	Polyphase AC	DC
115	2 HP	3 HP	1 HP
230	3 HP	5 HP	1 HP
460-575	5 HP	5 HP	—
32	—	—	1/2 HP

FORM H
SINGLE POLE ELECTRICAL RATINGS

Voltage	Single Phase AC	DC
115	1 HP	1/2 HP
230	2 HP	1/2 HP
460-575	2 HP	—

MAXIMUM ALLOWABLE RATINGS

Max. Pressure w/o Leakage	Max. Pressure w/o Damage	Max. Temp.
300 PSI	450 PSI	225°F (107°C)

ENCLOSURE RATING

NEMA TYPE 1 ENCLOSURES ARE INTENDED FOR INDOOR USE PRIMARILY TO PROVIDE A DEGREE OF PROTECTION AGAINST CONTACT WITH THE ENCLOSED EQUIPMENT IN LOCATIONS WHERE UNUSUAL SERVICE CONDITIONS DO NOT EXIST. TYPES GHG AND GSG HAVE NEMA TYPE 1 ENCLOSURES.

NEMA TYPE 3R ENCLOSURES ARE INTENDED FOR OUTDOOR USE TO PROVIDE A DEGREE OF PROTECTION FOR THE ENCLOSED EQUIPMENT AGAINST FALLING RAIN. TYPES GHB AND GSB HAVE NEMA TYPE 3R ENCLOSURES.

WARNING:

1. **TO AVOID PERSONAL INJURY FROM HIGH PRESSURE, BE CERTAIN PRESSURE IS AT ZERO BEFORE DISCONNECTING DEVICE FROM PRESSURE SOURCE.**
2. **TO AVOID SHOCK HAZARD, DISCONNECT ALL POWER BEFORE INSTALLING OR SERVICING DEVICE.**

Supersedes
Service Bulletin 9013-853AS,
Dated August, 1987

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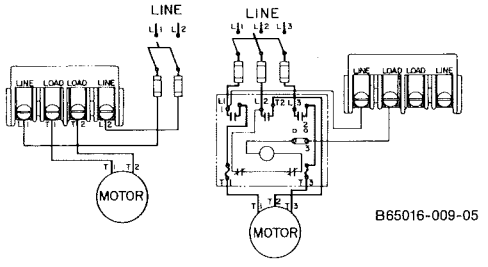
INSTRUCTIONS FOR ADJUSTMENT

RANGE — Always adjust the range spring nut (A) first, until the desired operating point on falling pressure is obtained. Keep in mind this adjustment changes both the high and low operating points but should always be adjusted for the low operating point. Turning the nut (A) clockwise will increase the setting.

DIFFERENTIAL — Set the operating point on rising pressure by adjusting the differential spring nut (B). Turning the nut (B) clockwise increases the pressure difference between the high and low operating points by increasing the high operating point only.

RELEASE VALVE (FORM X) — This valve is factory installed and may not be added to a device that formerly had no valve. If the valve is replaced or the valve screw (E) requires adjustment for any reason, the following steps must be taken. With air pressure applied to the valve and the switch contacts open (closed if form "R"), turn adjusting screw (C) until valve just begins to release air, then turn screw (C) clockwise an additional 1½ turns. Now lock jam nut (E) against bearing plate lever (F).

TYPICAL WIRING DIAGRAMS



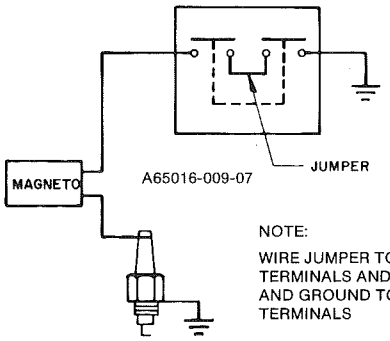
MOTOR CONTROLLER APPLICATION

CONTROL CIRCUIT SWITCH APPLICATION

SPECIAL APPLICATION

WIRING DIAGRAM FOR A GAS ENGINE CUT-OUT APPLICATION

CLASS 9013 "G" FORM R



NOTE:
WIRE JUMPER TO "LOAD" TERMINALS AND MAGNETO AND GROUND TO "LINE" TERMINALS

REPLACEMENT PARTS LIST

Item	Description	Class and Type No.	Qty.	Used on Class 9013 Type
1	Replacement Contact Kits Includes Moveable Contacts and Stationary Contact Blocks	9998 PC-205 9998 PC-206 9998 PC-207	1 1 1	All except Forms H & R (Form H Only) (Form R Only)
2	Diaphragm Ass'y	9998 PC-208 9998 PC-252	1 1	All Types except Form D50 Form D50 Only
3	Replacement Valve Kit	9049 A-12	1	All Types Form X
4	Mounting Bracket Kit (Not Furnished w/Switch)	9049 A-52	1	All GHG and GSG Only