

Floating Differential Pressure Control General Instructions

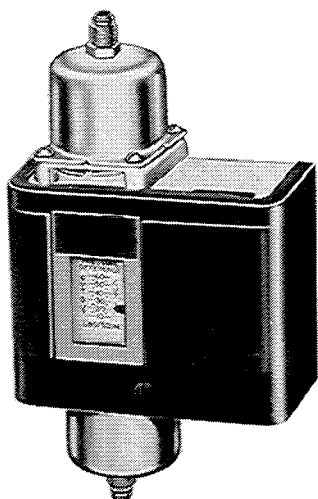


Figure-1

General Information: For use with TAC reversible electric actuated valves, actuators or sequence controllers for control of steam, air, gas or liquid pressure differential. Typical applications include positioning of pump bypass control valve to maintain differential in a hot water system.

Switch Action: Floating single-pole, double-throw.

Electrical Rating: 1.0 ampere 24 volts, 60 Hz. For use with TAC reversible actuator control circuits.

Maximum Bellows Pressure: 225 psi.

Location and Mounting: Mount differential pressure control in any desired position. Mounting is accomplished by means of the universal mounting bracket (Figure 2), or direct mounting to a wall.

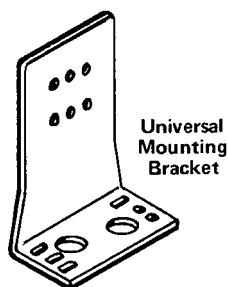


Figure-2 Universal Mounting Bracket.

For Liquid Service —
Mounting control above
liquid level is
recommended.

Differential Setting: Set differential pressure by inserting a screw driver into the slotted wheel located under the LP bellows. Each slot of rotation varies the differential approximately 2.25 psi. Clockwise rotation increases setting.

Wiring: Terminal block is located under actuator cover. Make all electrical connections to the terminals in accordance with the installation wiring diagram. A CYZR-818-2 condenser, for arc suppression, is required with each control. It is suggested that it be mounted in the actuator terminal compartment as shown in Figure 3. The CYZR-818-2 is wired as follows. Connect the white wire to case ground, the blue wire to terminal 2, and the red wire to terminal 3.

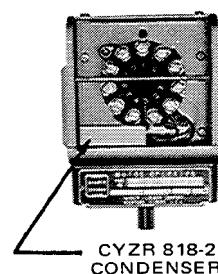


Figure-3

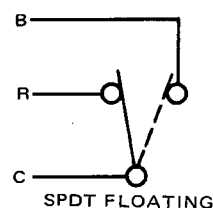


Figure-4

Terminal Coding: White is common of the single-pole, double-throw, floating action switch. Red closes on a decrease in differential and blue closes on an increase in differential (Figure 4).

Pressure Connections: Use 1/4-inch tubing with 1/4-inch flare nuts to connect the unit to the controlled media. Smaller tubing, 3/16-inch, may also be used with suitable reducers. Connect the high pressure side to bellows marked HP and low pressure side to bellows marked LP.

Calibration: See Figure 5. Factory precalibrated. Field calibration accomplished by setting setpoint adjustment wheel until switch floats (makes neither red or blue contact as determined by test light). Indicating scale may then be adjusted to measured pressure differential.

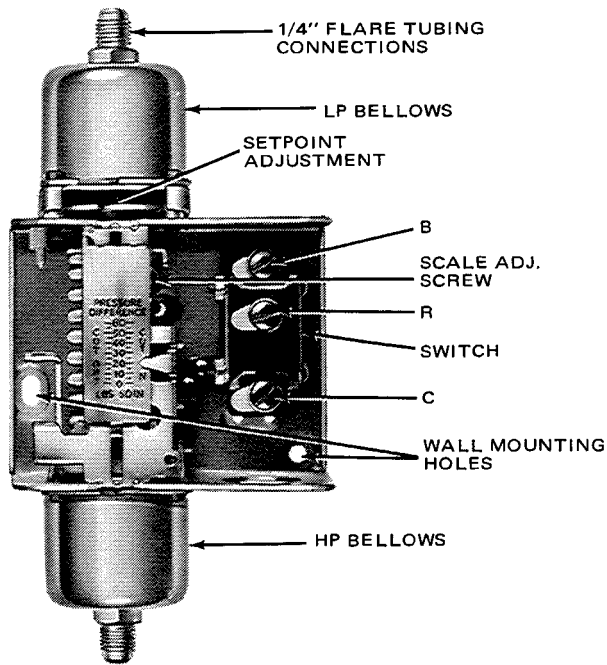


Figure-5

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