



## SPECIFICATION

**Model** PI 10 SF / PL 20 SF

**Service** Air

**Max. Input Pressure** 270 Psig

**Signal Range** 5-100 Psig

**End Connections** 1/4" NPT / 1/2" NPT

**Ambient Temperature** 40°C to 80° C

**Body** LM6 Aluminium Alloy

**Diaphragm** Neoprene / EPDM / VITON with nylon insert

**Adjusting Screw** SS

**Mounting** Surface or Panel

**Screws & Nuts** SS

## SALIENT FEATURES

Compact Design • Quick Response • High Stability & Reliability • Longer Life • Easy to Install • Trouble Free Service • Economically Priced • Soft Seating for Bubble Tight Shut Off

## PRODUCT DESCRIPTION

Philair Air lock relay FLDC/ FLDO is a reliable unit for achieving stay put condition of control valves on air supply failure. The air pressure is blocked inside the Diaphragm chamber of the actuator, when the supply pressure fails below the set value.

## PRODUCT OPERATION

It is a spring and diaphragm operated equipment. Line pressure is connected to signal port. Control instrument pressure is connected to IN port and OUT port is connected to actuator. The signal pressure causes to upward movement of diaphragm S/A against the adjusting spring. The valve coupled to the diaphragm opens and allows flow of air to actuator. When the pressure drops below the set value., the spring forces exceeds the diaphragm pressure and close the valve thereby blocking the air path. When the air pressure is Restored above the set value, the vale opened automatically.

A manual relief valve is provided in the unit for vent actuator pressure to fail lock drift close or fail lock drift open position of control valve within a time period, also for vent actuator pressure when control valve hand wheel is operated to avoid possible damage to the actuator diaphragm.