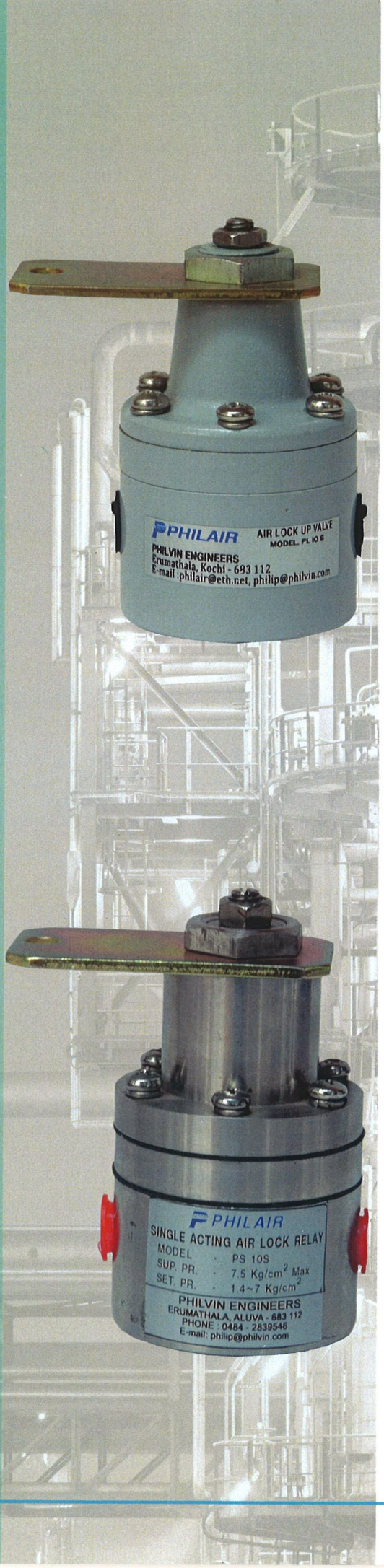
SINGLE ACTING AIR LOCK UP RELAY



SPECIFICATION

Model PS 10S /PS 10SS
Service Air
Max. input pressure 10 kg / Cm 2
Ambient temperature -40°C to 80° C
Signal Range 20-100 PSI (1.4 to 7 kg /cm2)
Pneumatic Connection 1/4" NPT / BSP
Flow Capacities > 600 L /min. For each port.
Dead Band 0.025/kg/cm2
Diaphragm Neoprene /EPDM /VITON with Nylon insert
Body LM- 6/SS
Internals Brass / SS with Neoprene/ EDPM seat
Mounting on the actuator by a bracket

SALIENT **FEATURES**

Compact Design ● Quick Response ● High Sensibility and Reliability ● Long Life ● Easy to install Trouble free service ● Low cost ● Soft seating to ensure Zero leak

PRODUCT **DESCRIPTION**

Philair makes single acting air lock relay is used in conjunction with pneumatic actuators for locking air in the actuator whenever the main supply pressure falls below a pre-set value

PRODUCT **OPERATION**

The unit has 3 ports marked IN, OUT and SIG- Actuator operating pressure is connected to IN port and OUT port is connected to actuator. SIG Port is connected to line pressure. The supply Pressure connected to SIG Port is sensed by a spring loaded upper diaphragm, subassembly causing closing of exhaust port and opening of pilot valve. The output form the pilot valve acts on lower diaphragm and the thrust developed by it acts upon a piston, which opens ,main valve and allows air to the actuator. Reduction of supply pressure causes downward movement of upper diaphragm subassembly, resulting in reduction of pressure above lower diaphragm. The piston move upwards and the valve is closed to block this air in the actuator.