



## SPECIFICATION

**Service** Air

**Max. Input Pressure** 270 Psig

**Output Pressure Range** 0-100 psig

**End Connection** 1/4" NPT (F)

**Gauge Port** 1/8" NPT

**Filter Element** Sintered Bronze 5 Microns

**Ambient Temperature** -40°C to 80°C

**Body** LM6 Aluminum Alloy

**Trim** Neoprene moulded with ss item

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

**Drain Cock** SS

**Handle Screw** SS

## SALIENT FEATURES

Accuracy • Quick Response • Longer Life • Small Size and Light Weight • Soft Seat Plug • Stainless Steel Drain • Most Economically Priced

## PRODUCT DESCRIPTION

Philair Air pressure regulator pr 100S are compact, light weight, high performance pressure reducing valves. They are used primarily for supplying a stable source of air to process control equipments

## PRODUCT OPERATION

Rotation of the pressure setting knob compresses the range spring against the diaphragm plate, opening the main supply valve. As the outlet pressure increases, it flows through the aspirator and acts on the lower side of the diaphragm causing it to move upward until it balances the force of the range spring. This balanced condition maintains constant output pressure with changes in supply pressure and output load. If the output pressure rises above the set pressure the relief valves opens and bleeds the excess pressure to atmosphere