

PILOT OPERATED UPSTREAM PRESSURE REGULATOR SERIES PB

Nirmal ™

Expertise that delivers



INTRODUCTION

The PB Series pilot operated upstream pressure control valves are pressure relief valves which combines sensitivity with the stability of the controlled pressure. These valves can react to very small changes in controlled pressure. Due to pressure loaded design, differential pressure across the main valve diaphragm is minimum. Hence, these valves are also suitable for high pressure setting. Different pilot and main valve combinations are available to cover wide range of pressure and flow requirements.

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PILOT OPERATED UPSTREAM PRESSURE REGULATOR

SERIES PB



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FEATURES

- **Accuracy** : These regulators are pilot operated, and hence high sensitivity & stability of upstream controlled pressure is ensured.
- **Tight Shut Off Capability** : Special trim eliminates wear & erosion of seating, providing excellent tight shut off capability over long working life.
- **Easy to Maintain** : Compact design with minimum number of moving parts. Actuator internals, Valve Disc & trim parts can be replaced without removing the regulator from the pipeline.
- **High Capacity Pressure Control** : Pilot diaphragm responds quickly to upstream pressure rise, causing immediate correction in main valve position. Pressure loading pilot permits full main valve travel resulting in high capacity.
- **Tamper Resistant** : An adjusting screw lock nut and protective cap in standard to discourage tampering with pressure setting.
- **Economical Labour Saving Installation** : Connections to pilot can be provided duly tubed from the main regulator body (Optional).

SPECIFICATIONS

BODY SIZE & CONNECTIONS

- **Flanged End:**
1", 1½", 2", 3", 4", 6" & 8"
ANSI B16.5 Class 150 & 300 ratings (Higher sizes & rating on request)
- **Available Configuration** : As per different pressure and flow requirements, different models are available.
- **Maximum Spring & Diaphragm** :
3.5 Kg/cm²g to 28 Kg/cm²g
- **Flow Coefficients & Port Diameters** :
Valve Size : 1" to 8"
Cv - o : 8 to 425

MATERIAL OF CONSTRUCTION

- **Body***: ASTM A216 Gr. WCB (Standard), CF8, CF8M
- **Diaphragm Casing** : Casting Steel or Stainless Steel.
- **Internal Trim Parts***: SS316 (Std), Monel, Copper, Brass.
- * (NACE & other special material available on request)
- **Disc & Diaphragm** : Nitrile (Std), Neoprene, EPDM, Silicone, Fluoropolymer, PTFE
- **TEMPERATURE CAPABILITIES** :
- 25° C to 80° C with nitrile elastomeric parts.
- 15° C to 180° C with fluoropolymer elastomeric parts.
- **PRESSURE SETTING ADJUSTMENT** : May be adjusted throughout a spring range by turning the adjusting screw of the pilot
- **PRESSURE REGISTRATION** : External Impulse Connection

• ENQUIRY SPECIFICATIONS •

MAX. INLET PRESSURE
OUTLET PRESSURE
LINE/SIZE
SPECIFIC GRAVITY
SET PRESSURE

SERVICE FLUID
FLOW MIN./MAX.
PERMISSIBLE BUILD-UP
MAX. TEMPERATURE

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