

**SELF ACTUATED UPSTREAM PRESSURE CONTROL VALVE
SERIES BP**

Nirmal ™

Expertise that delivers



INTRODUCTION

The BP SERIES are general purpose self operated pressure relieving upstream pressure control valves suitable for controlling many kind of fluids. These valves open in proportion to the rise in inlet pressure beyond set value. Different soft seating discs are available for various fluids for wide pressure and temperature range up to 200°C. The metal sealing surface used at higher temperature is carefully lapped to ensure shut off. these back pressure regulating valves are also well suited for high & varying differentials pressure. The BP-L/ Series valves are variation of BP Series, generally used for pressure setting lower than 1500 mmWCg (0.15 Barg).

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KEY FEATURES

- **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.
- **Glandless Construction** : Where positive zero gland leakage is required, the design scores over conventional solutions such as bellow seal etc., as the gland itself is eliminated and hence there can't be gland leakages. Glandless construction eliminates hysteresis, resulting in improvement of sensitivity & repeatability of the valve.
- **Tight Shut Off Capability** : Special trim design eliminates wear and erosion of seating, providing excellent tight shut off capability over long working life.
- **Tamper Resistant** : An adjusting screw lock nut with protective cap is standard to discourage tampering with pressure setting.
- **Wide range of flow & differential pressure capability** : Wide range of body sizes and port diameters available to satisfy varied flow requirements. Regulators available for wide range of differential pressure from very high to low differential pressure with different actuator areas.
- **Immune to Downstream Pressure Variation** : The set & performance of the valve remains unaltered even with wide variations of differential pressure / downstream pressure.

TECHNICAL SPECIFICATIONS

BODY SIZE & CONNECTIONS

- **Flanged End:**
½", ¾", 1", 1½" and 2"
ANSI B16.5 Class 150 & 300 ratings (Higher sizes & rating on request)
- **Screwed** : NPTF : ¾", 1" BSPF : ¾", 1"
- **Available Configuration** : As per different pressure and flow requirements, different diaphragm sizes are available classifying model into BP/04, BP/06, BP/08, BP/11, BP/14 & BP-L/11, BP-L/14

Note: BP-L/Series is for low pressure application i.e. for pressure setting lower than 1500 mmWCg

- **Maximum Inlet Pressures** :
ANSI - 150# : 20 Kg/cm²
ANSI - 300# : 50 Kg/cm²
ANSI - 600# : 100 Kg/cm²

MATERIAL OF CONSTRUCTION

- **Body***: ASTM A216 Gr. WCB (Standard), CF8, CF8M
 - **Bottom Diaphragm Casing** : Steel (Std), SS304, SS316, or same as body material.
 - **Spring Casing** : C.S.
 - **Internal Trim Parts***: SS316L (Std), Monel, Copper, Brass.
- * (NACE & other special material available on request)
- **Disc & Diaphragm** : Nitrile (Std), Neoprene, EPDM, Silicone, Fluoropolymer, PTFE
 - **TEMPERATURE CAPABILITIES** : - 45° C to 200° C with different elastomeric parts.
(Special construction & S.S. Diaphragm available for high temperature & steam service)
 - **PRESSURE SETTING ADJUSTMENT** : May be adjusted throughout a spring range by turning the adjusting screw
 - **PRESSURE REGISTRATION** : Internal (Std) or Upstream control line

• ENQUIRY SPECIFICATION •

- INLET PRESSURE
- OUTLET PRESSURE
- LINE SIZE & RATING
- SPECIFIC GRAVITY
- INTERNALS MOC
- SERVICE FLUID
- FLOW MIN. / MAX.
- MAX. TEMP.
- BODY MOC
- PERMISSIBLE DROOP

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