

**HIGH PRESSURE REGULATOR  
SERIES DH100**

*Nirmal* ™

*Expertise that delivers*



**INTRODUCTION**

The DH-Series high pressure, high performance, inlet pressure balanced and direct acting regulator can be used for almost all kind of services & environments. This type of valve handles very high inlet pressure upto 210 bar(g) & higher. Due to balanced design, effect of inlet pressure variations on set pressure is minimized. The controlled downstream pressure remains constant irrespective of large changes in inlet pressure and flow as these valves have a very high flow capacity. Typical application includes commercial and industrial applications for consuming high flow rates from bank of cylinders / trolley and first stage regulator used in multistage pressure reduction.

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# HIGH PRESSURE REGULATOR

## SERIES DH100

### KEY FEATURES

- **Easy to Maintain** : Sturdy & Compact design with minimum number of moving parts. Actuator internals, valve disc & trim parts can be replaced without removing the regulator from pipeline.
- **Glandless Construction** : Where positive zero gland leakage is required, the design scores over conventional solutions such as bellow seals etc., as the gland itself is eliminated and hence, there wouldn't be gland leakage. Glandless construction eliminates hysteresis, resulting in improvement of sensitivity and repeatability of the valve.
- **Tight Shut Off Capability** : Inlet pressure balanced & special trim design eliminated wear & erosion of seating, providing excellent tight shut off capability over long working life.
- **Tamper Resistant** : An adjusting screw lock nut & protective cap is standard to discourage tampering with pressure setting.

### TECHNICAL SPECIFICATIONS

- **Body Size** :  
NPS ½"(DN15), NPS ¾"(DN 20) & NPS 1" (DN 25)
- **Design Standard** : ASME B16.34
- **Pressure Rating** : ANSI Class 1500# / 2500#
- **End Connection** : Flanged, socket Weld & Screwed to NPT or BSPT
- **Inlet Pressure** : Upto 210 Barg (Higher pressure available on request)
- **Outlet Pressure Range** :  
3.0 to 10.0 Barg, 8.0 to 18.0 Barg, 17.0 to 25.0 Barg, 22.0 to 35.0 Barg, 30.0 to 45.0 Barg, Higher ranges available on request

#### MATERIAL OF CONSTRUCTION

- **Body** : Stainless Steel (304, 304L, 316, 316L)\*
  - **Diaphragm** : Nitrile, Neoprene, EPDM, Viton
  - **Valve Disc** : PEEK, PTFE
  - **O Ring** : Nitrile , Neoprene, EPDM, Viton
  - **Valve Seat** : SS316 , SS316L
  - **Diaphragm Plate** : Carbon Steel
  - **Spring** : Spring Steel
  - **Set Screw** : Stainless Steel
  - **Adjusting Screw Cap** : Aluminium
  - **Temperature Capabilities** : - 15° C to 180° C (with different elastomeric parts.)
  - **Pressure Setting Adjustment** : May be adjusted throughout a spring range by turning the adjusting screw
  - **Pressure Registration** : Internal
  - **Approximate Weight** : 9.0 kg
- \* (NACE & other material available on request)

#### • ENQUIRY SPECIFICATIONS •

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