

**PRESSURE REGULATOR  
SERIES B42**



**INTRODUCTION**

The B42/Series relief valve can be used in gas & liquid application, the B42/Series relief valve utilizes high temperature ethylene propylene for class-VI shut off, for corrosive application perfluoro elastomer & other elastomer are available upon request. Different pilot and main valve combinations are available to cover wide range of pressure and flow requirements. Valve body & trim are available in various material of construction for process fluid compatibility.

# PRESSURE REGULATOR

## SERIES B42



Expertise that delivers

### KEY FEATURES

- **Low buildup capability** : Minimum Buildup pressure required for main valve to achieve wide-open flow.
- **Fast speed response** : High gain piloting system for faster response than standard piloting system.
- **NACE Availability** : Optional materials are available for applications handling sour gases. These constructions comply with recommendations of the NACE International standards M-1075.
- **Tight Shut-off Capacity** : Special Trim design eliminates wear & Erosion of seating, providing excellent tight shut-off capability over long working life.
- **Easily converted to Differential Control** : The pilot is ready for differential back pressure control with the addition of a sealing washer on adjusting screw.
- **Easy to Maintenance** : Compact design with Minimum number of moving parts, Actuator internals, Valve discs, pilot & Trim can be easily replaced. Without removing form pipe line.
- **Excellent over Protection system** : Superior pump By-Pass regulator for over protection in pump re-circulation system.
- **Tamper resistant** : An adjusting setscrew Locknut and protection cap for pilot is standard one to discourage tampering with pressure setting.

### SPECIFICATIONS

- **Valve Size** : 1", 1½", 2", 3", 4", 6" & 8"
- **Design Standards** : ASME 16.34
- **Pressure Rating** : ANSI Class 150#, 300#, 600#
- **End Connection Styles** : Flanged
- **Set Pressure Range** : 0.45 bar(g) to 22 bar(g)
- **Maximum Design Pressure** : 49 Barg
- **Maximum operating Relief pressure** including buildup: 28 Barg
- **Maximum Outlet Pressure** : 22 Barg
- **Maximum Differential Pressure** : 0.5 Barg

#### MATERIAL OF CONSTRUCTION

- **Body\***: ASTM A216 Gr. WCB (Standard), A351 CF8, A351 CF8M, A351 CF3, A351 CF3M
- **Internal Trim Parts\***: SS316 (Std), SS304, SS316L, SS304L & others
- \* (NACE & other special material available on request)
- **Disc & Diaphragm** : Nitrile (Std), Neoprene, EPDM, Viton, Teflon+Nitrile Dia & Viton seating
- **Temperature Capabilities** :- 18<sup>o</sup>C to 149<sup>o</sup>C
- **Pressure Setting Adjustment** : May be adjusted throughout a spring range by turning the adjusting screw of the sensing pilot (PSCV)

#### • ENQUIRY SPECIFICATIONS •

INLET PRESSURE

OUTLET/BLANKETING PRESSURE

LINE/NOZZLE SIZE

MATERIAL OF CONSTRUCTION

LIQUID STORED

FLOW MIN./MAX.

MAX. TEMPERATURE

Call on +91-22-6774 6200

Email [info@nirmalindustries.com](mailto:info@nirmalindustries.com)

Visit us <http://www.nirmal.co.in>

Follow us on :

