

GAS PRESSURE REGULATOR
D81 SERIES

Nirmal ™

Expertise that delivers



INTRODUCTION

The D81, High performance, High pressure lever type regulator is a direct acting (self-actuated spring loaded) regulator, which can be used for all non-aggressive gases. This construction feature i.e. the lever mechanism ensures exact outlet pressure and provides quick response when the flow rate varies. Typical application includes for residential, commercial, industrial applications and also as by-pass regulators for pressure reducing station, first-cut regulator ideal for use in multistage pressure reduction.

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KEY FEATURES

- **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 won't be gland leakage. Glandless construction eliminates hysteresis, resulting in improving the sensitivity and repeatability of the valve.
- **Tamper Resistant** : An adjusting screw with protective cap is standard to discourage tampering with pressure setting.
- **Orientation in 360° direction** : Regulator can be mounted in any direction and can be easily repositioned while in-line.
- **Easy Maintenance** : Regulator internals can be inspected without removing body from line.
- **Tight Shut Off Capability** : Provides excellent tight shut off capability over long working life.
- **Pressure Sensing** : Externally sensing or external control line required to measure outlet pressure in downstream pipe work.
- **Over / Under Pressure Cut Off** : Available with integral over / under pressure Cut-off Slam shut valve.

TECHNICAL SPECIFICATIONS

Body Size & Connection :

- **Valve Size** : NPS 1" (DN25) (other sizes available on request)
- **End Connection Styles** : Flanged, Screwed (NPT / BSPT) & Socket Weld end.
- **Flange Rating** : ANSI Class 150#, 300# & 600#
- **Inlet Pressure** : Upto 100 Barg (Higher available on request)

Material of Construction

- **Body*** : A216 Gr. WCB (Standard), A351 Gr. CF8, A351 Gr. CF8M
- **Diaphragm Casing & Spring Housing** : A216 Gr. WCB (Standard), A351 Gr. CF8, A351 Gr. CF8M
- **Internal Trim Parts*** : SS316 (Standard)
- **Disc & Diaphragm** : Nitrile (Std), Neoprene, EPDM, Silicon, PTFE, Fluoropolymer
- **Temperature Capabilities** : -45°C to 200°C with different elastometric parts.
- **Pressure Setting Adjustment** : Can be adjusted across a spring range by turning the adjusting screw.
- **Pressure Registration** : Internal as well as External
*(NACE & other special material available on request)

• ENQUIRY SPECIFICATION •

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