

GAS PRESSURE REGULATOR
DP-3100 SERIES

Nirmal ™

Expertise that delivers



INTRODUCTION

The Series DP-3100 is pilot loaded (self-actuated) pressure regulators for general purpose pressure regulating applications. This is a high accuracy and high flow version of DP-3000 primarily for Gas / Vapour applications. These regulators are best suited for delivering constant reduced pressure of prefiltered gases used in industrial, commercial & process plant applications.

Double stage pilot provides excellent control of outlet pressure with versatile turn down ratio. Additionally the main regulator balanced trim design with external sensing exhibits excellent control of downstream pressure even with very high variations in inlet pressure.

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KEY FEATURES

- **Better Accuracy** : These regulators are pilot operated and thus high sensitivity and stability of downstream pressure is ensured. Due to two stage pilot control the outlet pressure is independent of variations in inlet pressure.
- **High Capacity** : Main regulator balanced trim with actuator diaphragm responds quickly to downstream change, causing immediate correction in main valve opening. Accurate pressure loading by pilot permits full main valve travel resulting in high flow capacity.
- **Tamper Resistant** : An adjusting screw of pilot with lock nut and protective cap is standard to discourage tampering with pressure setting.
- **Easy Maintenance** : Main regulator and pilot internals can be inspected & maintenance work can be carried out without removing main body from the line.
- **Spring Interchangeability** : Pilot springs are specially designed so that those can be interchanged in the same spring casing for giving wider set pressure range without any modifications. Additional springs can be supplied to cover wide spring range thus giving freedom to opt for spring range according to process requirement at site.

SPECIFICATIONS

Body Size & Connection :

- **Flanged End** : 1", 1½", 2", 3" & 4" ANSI 150#, ANSI 300# (Higher size and rating available on request)
- **Inlet Pressure** : 19 to 48 Bar
- **Spring Ranges** : 0.8 to 25 Bar
- **Diaphragm Casing type** : CM** upto 3" & PM** for 4"
- **Casing Pressure** : 3.5 to 10.5 kg/cm²g

Standard Material of Construction

- **Body*** :
A216 Gr. WCB (Std), A351 Gr. CF8, A351 Gr. CF8M
- **Diaphragm Casing & Spring Housing*** :
Steel, SS 304

- **Internal Trim Parts*** : SS316 (Std)

*(NACE & other special material available on request)

- **Disc & Diaphragm** : Nitrile (Std), Neoprene, EPDM, Silicon, PTFE, Fluoropolymer
- **Temperature Capabilities** :
-25°C to 80°C with Nitrile elastometric parts.
-15°C to 180°C with Fluoropolymer elastometric parts.
- **Pressure Setting Adjustment** : Can be adjusted throughout a spring range by turning the adjusting screw.
- **Pressure Registration** : External

• ENQUIRY SPECIFICATIONS •

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

