

SELF ACTUATED UPSTREAM PRESSURE CONTROL VALVE SERIES CR



Expertise that delivers



INTRODUCTION

The CR-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 175°C. These back pressure regulating valves are also well suited for high & varying differential pressure.

It is widely used in Natural Gas, Pressure Creep Relief Function.

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PRESSURE REGULATOR

SERIES CR

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 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 eliminated and hence there won't be gland leakage. Glandless construction eliminates hysteresis, is 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.
- **Throttling type relief** : Smooth sensitive throttling action minimizes pressure surge.
- **Low Pressure Buildup** : Required flow achieved with minimum pressure buildup.
- **Reset** : Better resetting capability than conventional relief valve. Relieve excess pressure and gets reset due to proportionate opening.

TECHNICAL SPECIFICATIONS

● BODY SIZE & CONNECTIONS

- **Valve Size:** 1" (DN25)
- **Body Rating** : 150#, 300# (Higher ratings on request)
- **End Connection:** Screwed NPTF, Screwed BSPF (or) Flanged (As per ASME B16.5)
- **Set Pressure Range** : 0.4 to 10 kg/cm² (Higher set pressure on request)

MATERIAL OF CONSTRUCTION

- **Valve Body:** A216 Gr.WCB / A352 Gr.LCB / A351 Gr.CF8 / A351 Gr.CF8M / A351 Gr.CF3 / A351 Gr.CF3M
- **Spring Casing** : A216 Gr.WCB
- **Spring** : Spring Steel
- **Trim Parts:** A479 Gr.304 / 304L / 316 / 316L
- **Temperature Capabilities** : - 25°C to 175°C
- **Diaphragm** : Nitrile (Std), Viton, Neoprene, EPDM, Silicone, PTFE (Nitrile backed)
- **Valve Disc** : Nitrile (Std), Viton, Neoprene, EPDM, Silicone

• ENQUIRY SPECIFICATIONS •

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