DOROT S300-PR[D]





Proportional Pressure-Reducing Valve

> Operation

The Dorot Series 300 Proportional Pressure-Reducing Valve ('S300-PR[D]'), is an automatic, proportional pressure-reducing valve. The valve is a double-chambered valve that will control the downstream pressure to vary in a fixed proportion in relation to the upstream pressure-value.

S300 Features

Superb performance

- Regulates at a stable mode, regardless of valve-size, down to near-zero flow. Thus, eliminating the need for a special low flow plug-design (such as 'V-port') or a bypass valve.
- 'Floating', low-friction internal-trim design, guided by a unique LPT[®] device.

High reliability

- All control ports are fitted with SST sleeves for preventing corrosion-blockage.
- Pre-shaped reinforced diaphragm for easier assembly and improved longevity.

Reduced periodic inspection / maintenance labor

- The control-trim is fitted with a self-flushing, inline control-filter.
- Easy in-situ adjustment and maintenance.

Versatility

 A standard and simple single-chamber valve design, provides smooth operation. Conversion to a double chamber is a patented option.

Standard Materials

- Body & Cover Ductile Iron
 Optional Cast Steel, SST, N.A.B, S.Duplex
- Main Internal SST (1.5"-6), Coated Steel (8"-32")
 Optional Cast Steel, SST, N.A.B, S.Duplex
- Elastomers EPDM
 Optional NBR, Neoprene, Viton or others
- Coating Polyester, Epoxy / Optional Halar and others
- Control Trim Brass, PA / Optional SST316, Duplex

Purchase Specifications

- Face-to-face length dimension meets ISO 5752 Standard.
- The stem will be guided at the top by a replaceable guide bearing and at the bottom by a stainless steel unique LPT[®] device.
- The valve will regulate any flow within the specified range without the need for a smaller bypass valve or throttling plug.
- All control ports will be corrosion free protected by stainless steel 316 inserts.

Design Considerations

 The valve should be suited for the maximal flow and allowed Headloss.

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> Quick Sizing

- Valve sized to be the same as line-size or one nominal-size smaller.
- Maximum recommended flow velocity for continuous operation 5.5 m / sec (18 ft. / sec).

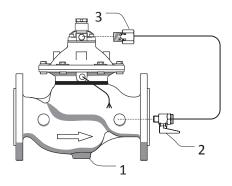
Pressure Rating

- Model 30, 30A for medium pressure (PN16 bar / 250 psi)
- Model 31, 31A for high pressure (PN25 bar / 360 psi)

Main Control System Components*

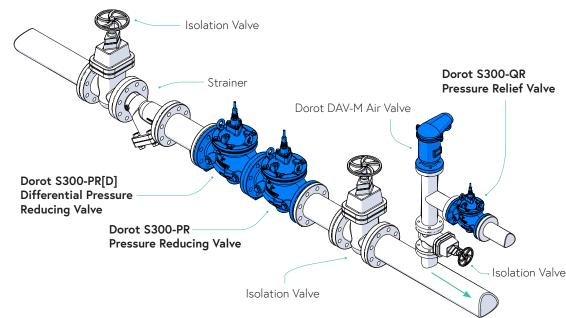
- 1. Main Valve
- 2. Ball Valve
- 3. Nozzle

* Indicative drawing



Typical Installation

Typical applications include a Proportional Pressure Reducing Valve Model S300-PR[D]. Assembly of a PR[D] Valve, upstream of a PR Valve, creates a two-stage, cavitation-free, pressure reducing station. Installation of a Quick Relief Valve, Model S300-QR and DAV-M Air Valve, downstream of the PR Valve is recommended.



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