# △ DOROT S300-QR





#### Quick Pressure-Relief Valve

# > Operation

The Dorot Series 300 Quick Relief Valve ('S300-QR') activates by the pressure of the pipeline. The valve opens instantly when the pressure in the pipeline exceeds the safe level, thus relieving excessive pressure from the network. When the pressure returns to normal, the valve closes slowly,

at an adjustable pace.

## > 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<sup>®</sup> 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

- The valve will be hydraulic, pilot-operated globe type.
- 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<sup>®</sup> 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.
- Large pressure differentials may cause cavitation damage. Consult Dorot for solutions if such conditions are expected..

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## > Quick Sizing

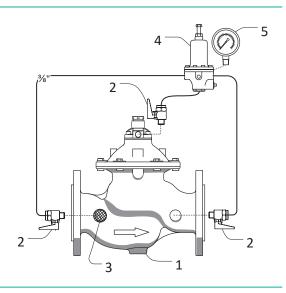
- Maximum recommended flow velocity for momentary operation 15 m / sec ( 50 ft. / sec).
- If the set pressure is >5 bar, a downstream orifice should be added - Please consult with Dorot Eng.

## Pressure Rating

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

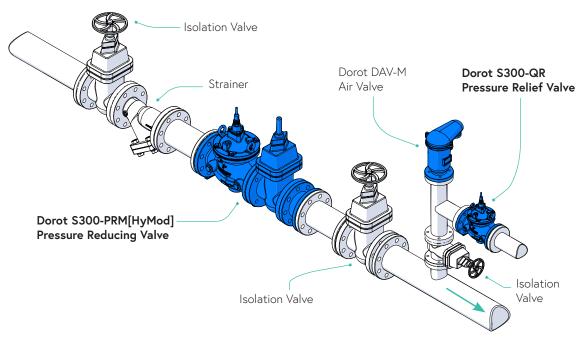
#### Main Control System Components\*

- 1. Main Valve
- 2. Ball Valve
- 3. Self-flushing Filter
- 4. 2W PS Pilot Valve
- 5. Pressure Gauge
- \* Indicative drawing



#### Typical Installation

Typical applications include Pressure Sustaining Valve Model S300-QR. The Dorot Quick Pressure-relieve Valve protects a system against pressure surges caused by pump start-up or valves closures.



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