



General representation



Waterworks

Pressure Sustaining Valve

Description

The DOROT S300L PS, a pressure sustaining valve, is activated by the pressure of the pipeline. The valve maintains a steady, predetermined pressure in the network, upstream of its location. Should the upstream pressure exceed the required set point, the valve opens, increasing network flow, thus reducing its upstream pressure. If upstream pressure falls below the required value, the valve closes drip tight.

Features & Benefits

- Limits inlet pressure by relieving excess pressure
- Prevents inlet pressure from dropping below a predetermined minimum
- Operates over a wide flow range
- Inlet pressure is adjustable with single screw
- Quick opening & adjustable closing speed
- Can be maintained without removal from the line
- Factory tested and can be preset to your requirements

Certification & Compliance

UL Water Quality / NSF 61-G & 372

NSF-ISO Quality System (9001)



Standard Materials

- Body & Cover – Ductile Iron
- Main Internals – Stainless Steel
- Elastomers – EPDM
- Coating – Epoxy
- Control Trim – Stainless Steel 316

Purchase Specifications

- The valve will be hydraulic, pilot-operated globe type.
- Face-to-face length dimension meets USA standards.
- The stem will be guided at the top by a replaceable guide bearing and at the bottom by a stainless steel unique LTP® 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

- Available in sizes 2" - 8".
- The valve should be suited for the maximal flow and allowed headloss.
- For low pressure systems, consider a 3-way control pilot.
- Large pressure differentials may cause cavitation damage. Consult Aquestia for solutions if such conditions are expected.

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).

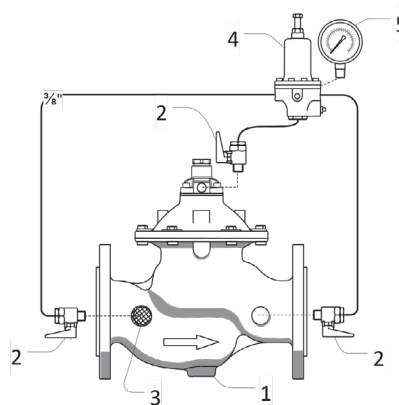
Pressure Rating

- Model 33 for medium pressure (PN16 bar / 250 psi)
- Model 34 for high pressure (PN25 bar / 360 psi)

Main Control System Components*

1. Main Valve
2. Ball Valve
3. Y-type Strainer (Optional Self-Flushing Filter)
4. Pressure Sustaining/Relief Pilot
5. Pressure Gauge (Optional)

* Indicative drawing



Typical Installation

Typical applications include installation of a DOROT S300L PS Pressure Sustaining Valve and an air valve. The Pressure Sustaining Valve will maintain a steady, predetermined pressure in the network, upstream of its location.

