



General representation



Waterworks

Pressure Reducing Valve

Description

The DOROT S300L PR, a pressure reducing valve, is activated by the pressure of the pipeline. The valve reduces high upstream pressure to a steady, pre-determined and lower downstream pressure, regardless of fluctuations in upstream pressure or rate of flow. In case the downstream pressure exceeds the set value, the valve will close drip tight.

Features & Benefits

- Reduces a higher inlet pressure to a lower outlet pressure without the need for a low-flow bypass valve
- Constant outlet pressure over wide flow range
- Pilot-operated main valve not subject to pressure fall off
- Outlet pressure is adjustable with single screw
- Adjustable opening/response 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" up to 8".
- The valve should be suited for the maximal flow and allowed headloss.
- If upstream pressure could drop below the required set pressure, select 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).

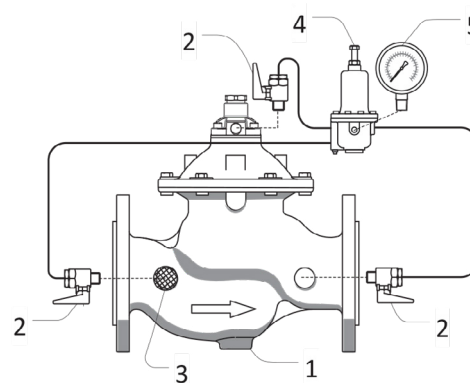
Pressure Rating

- 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 Reducing Pilot
5. Pressure Gauge (Optional)

* Indicative drawing



Typical Installation

Typical applications include installation of a DOROT S300L PR Pressure Reducing Valve, a Quick Pressure Relief Valve, DOROT S300L QR, and an air valve (downstream of the PR Valve is recommended).

