# DOROT S300-PS MIN

Aquestia
Directing the Flow

Mining

# Pressure Sustaining Valve

## Description

The Dorot Series 300 Pressure-Sustaining Valve ('30-PS') activates 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.

## Where to use it

- In pressure management applications in water supply systems used in mining
- In treatment plants (AWTP, EWTP, etc.)
- In pump stations for pump and cavitation protection
- In piping lines to prioritize one zone over another and preventing line emptying

## Features and Benefits

| | |
|---|---|
| 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 'U/V-port').<br>• 'Floating', low-friction internal-trim design, guided by a unique LPT® device. |
| Reduced periodic inspection / maintenance labor | • The control-trim is fitted with a HIGH-CAPACITY control-filter suitable for industrial applications.<br>• Easy in-situ adjustment and maintenance. |
| High reliability | • All control ports are fitted with SST sleeves for preventing corrosion-blockage.<br>• High Kv (Cv) control loop accessories for clogging prevention.<br>• Pre-shaped reinforced diaphragm – for easier assembly and improved longevity. |
| Versatility | • A standard and simple single-chamber valve design, provides smooth operation.<br>• Conversion to a double chamber is a simple and economical option. |

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## Technical Specifications

| | |
|---|---|
| Size Range | 1½"/40mm - 40"/1000mm – Flanged<br>1½"/40mm - 6"/150mm - Grooved<br>1½"/ 40mm - 2"/50mm – Threaded |
| Working Pressure | Maximum: 16 bar (250 psi) / 25 bar (360 psi)<br>Minimum: 0.3 bar (5 psi) |
| Testing Pressure | 1.5 times maximum working pressure |
| Materials | Body: Ductile Iron (standard); Cast Steel, Stainless Steel, Super Duplex (optional)<br>Elastomers: EPDM (standard), Viton (optional) |

Upon ordering, please specify size, working pressure, thread/flange standard and type of fluid

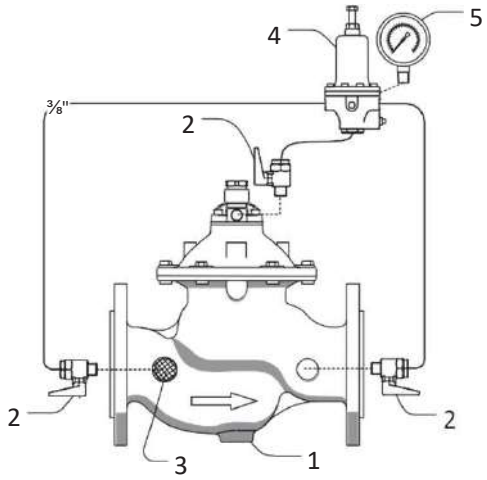
## Quick Sizing

- 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)

## 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