DOROT S300-QR MIN

Aquestia
Directing the Flow

Mining

Quick Pressure Relief Valve

Description

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.

Where to use it

- In treatment plants (AWTP, EWTP, etc.)
- In pump stations for pump overload protection
- In pressure reducing systems as safety relief valve
- In tanks and reservoirs to avoid pressure peaks when the level valve closes

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'). • '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. • Easy in-situ adjustment and maintenance.
High reliability	• All control ports are fitted with SST sleeves for preventing corrosion-blockage. • High Kv (Cv) control loop accessories for clogging prevention. • Pre-shaped reinforced diaphragm – for easier assembly and improved longevity.
Versatility	• A standard and simple single-chamber valve design, provides smooth operation. • Conversion to a double chamber is a simple and economical option.

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Technical Specifications

Size Range	1½"/40mm - 40"/1000mm – Flanged 1½"/40mm - 6"/150mm - Grooved 1½"/ 40mm - 2"/50mm – Threaded
Working Pressure	Maximum: 16 bar (250 psi) / 25 bar (360 psi) 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) Elastomers: EPDM (standard), Viton (optional)

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

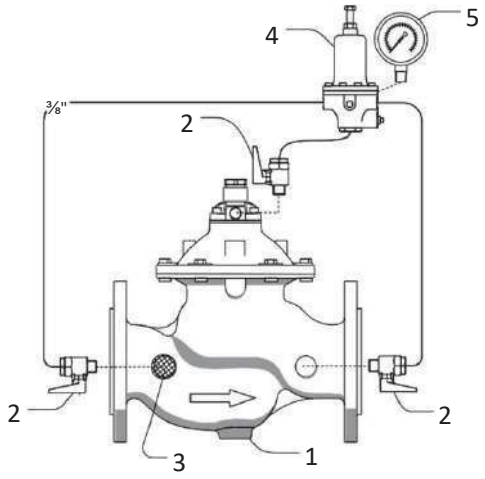
Quick Sizing

- 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 Aquestia Engineering.

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