DOROT S300-BC MIN

Aquestia
Directing the Flow

Mining

Pump Control Valve

Description

The Dorot Series 300 Pump Control Valve ('S300-BC') is an automatic controlled valve, activated by the pressure of the pipeline. The valve will minimize pump starting and stopping surges by slowly opening at pump startup and slowly closing prior to pump shutdown. The valve will close instantly on power failure.

Where to use it

- In pumping systems (RAFF ponds, PLS ponds, Seepage, Boosters, etc.)
- In treatment plants (AWTP, EWTP, etc.)
- In dewatering applications / underground mining
- In recovery water applications

Features and Benefits

Superb performance	• '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. • For non-clean solutions, a full port motorized ball valve is used (instead of a solenoid valve) • 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

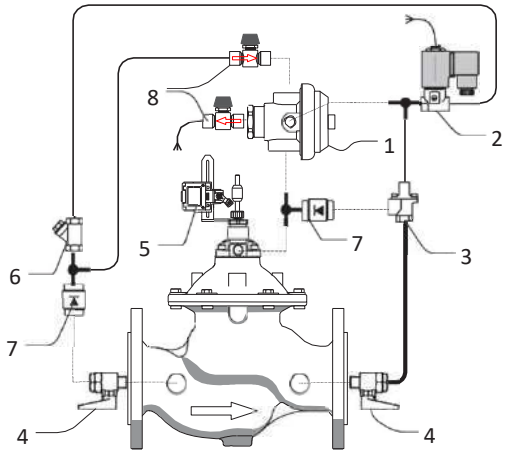
Quick Sizing

- Maximum 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. 3 / 2 Hyd. Relay-Valve Model 66-210
2. 3 / 2, N.C Solenoid Valve (or motorized ball valve)
3. 3 / 2 Hyd. Relay-Valve Model 28-200
4. Isolation Ball-Valve
5. Limit Switch Assembly
6. 'Y' Pattern Control Filter
7. Check Valve
8. Needle Valve

* Indicative drawing



Typical Installation