



Electronic Control Valve

Description

The Dorot Series 300 Electronic Control Valve ('S300-EC') is an automatic, solenoid control valve, activated by the pressure of the pipeline. The valve is controlled by the versatile DOROT "ConDor" controller that enables all control functions, or combination of functions, at extreme accuracy. Can be controlled by any pulse-activating controller as well.

Where to use it

- In pressure management applications in water supply systems used in mining
- In mining processes, for electronic control of any hydraulic parameter such pressure, flow, level, etc.
- In leaching applications for electronic control of leaching rates
- In pump stations for pump and cavitation protection

Features and Benefits

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|---|---|
| Superb performance | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • The control-trim is fitted with a HIGH-CAPACITY control-filter suitable for industrial applications. • Easy in-situ adjustment and maintenance. |
| High reliability | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 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

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| 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

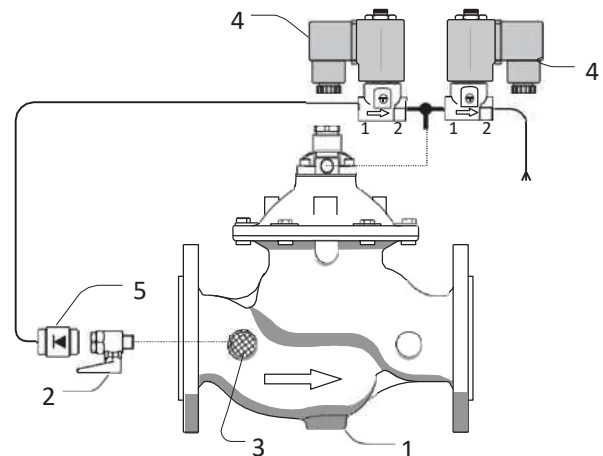
Quick Sizing

- 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. 2 / 2 Solenoid Valve
5. Check Valve

* Indicative drawing



Typical Installation (as flow control)

