# △ DOROT S300-FE





#### Excessive Flow Shut-off Valve

## > Operation

The Dorot Series 300 Excessive Flow Shut-off Valve ('S300-FE')is activated by the pressure of the pipeline. The valve closes drip tight when the flow rate exceeds the normal value (due to pipe rupture). The valve will manually re-set open after fixing the break.

# S300 Features

#### 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 'V-port') or a bypass valve.
- 'Floating', low-friction internal-trim design, guided by a unique LPT<sup>®</sup> device.

#### High reliability

- All control ports are fitted with SST sleeves for preventing corrosion-blockage.
- Pre-shaped reinforced diaphragm for easier assembly and improved longevity.

#### Reduced periodic inspection / maintenance labor

- The control-trim is fitted with a self-flushing, inline control-filter.
- Easy in-situ adjustment and maintenance.

#### Versatility

 A standard and simple single-chamber valve design, provides smooth operation. Conversion to a double chamber is a patented option.

## Standard Materials

- Body & Cover Ductile Iron
  Optional Cast Steel, SST, N.A.B, S.Duplex
- Main Internal SST (1.5"-6), Coated Steel (8"-32")
  Optional Cast Steel, SST, N.A.B, S.Duplex
- Elastomers EPDM
  Optional NBR, Neoprene, Viton or others
- Coating Polyester, Epoxy / Optional Halar and others
- Control Trim Brass, PA / Optional SST316, Duplex

## Purchase Specifications

- The valve will be hydraulic, pilot-operated globe type.
- Face-to-face length dimension meets ISO 5752 Standard.
- The stem will be guided at the top by a replaceable guide bearing and at the bottom by a stainless steel unique LPT<sup>®</sup> 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

- The valve should be suited for the maximal flow and allowed Headloss.
- For low pressure systems, consider a 3-way control pilot.

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## > Quick Sizing

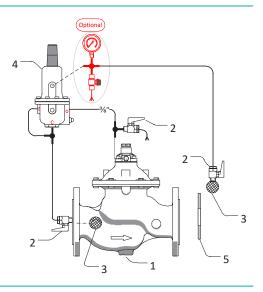
- Maximum recommended flow velocity for momentary operation 15 m / sec ( 50 ft. / sec).
- If the set pressure is >5 bar, a downstream orifice should be added - Please consult with Dorot Eng.

## Pressure Rating

- Model 30, 30A for medium pressure (PN16 bar / 250 psi)
- Model 31, 31A for high pressure (PN25 bar / 360 psi)

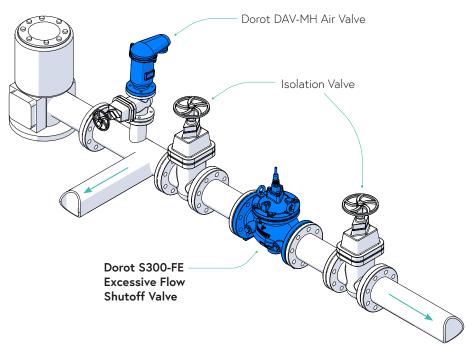
#### Main Control System Components\*

- 1. Main Valve
- 2. Ball Valve
- 3. Self-flushing Filter
- 4. CXSD Pilot Valve
- 5. Orifice Plate
- \* Indicative drawing



#### Typical Installation

Typical applications include Excessive Flow Shutoff Valve Model S300-FE. Dorot Excessive Flow Shutoff Valve installed to prevent flood damages caused by pipe rupture.



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