



# Differential Two-Level Float Valve

## Description

The Dorot Series 300 Differential Float Valve ('S300-FLDI') is an automatic, pilot controlled, level control valve, activated by the pressure of the pipeline. The valve closes when the water rises to the requested maximum level and opens when the water level drops to the preset minimum point. The differential between opening and closing levels is adjustable.

\* Optional Addition: FLDI / SP Stepped Surge-Preventing Closure or 'FR (PR)' Flow Control function.

## Where to use it

- In treatment plants (AWTP, EWTP, etc.)
- In water supply storage tanks or reservoirs
- In underground mining

## Features and Benefits

|   |   |
|---|---|
| Superb performance                              | <ul style="list-style-type: none"> <li>• 'Floating', low-friction internal-trim design, guided by a unique LPT® device.</li> </ul>  |
| Reduced periodic inspection / maintenance labor | <ul style="list-style-type: none"> <li>• The control-trim is fitted with a HIGH-CAPACITY control-filter suitable for industrial applications.</li> <li>• Easy in-situ adjustment and maintenance.</li> </ul>  |
| High reliability                                | <ul style="list-style-type: none"> <li>• All control ports are fitted with SST sleeves for preventing corrosion-blockage.</li> <li>• High Kv (Cv) control loop accessories for clogging prevention.</li> <li>• Pre-shaped reinforced diaphragm – for easier assembly and improved longevity.</li> </ul> |
| Versatility                                     | <ul style="list-style-type: none"> <li>• A standard and simple single-chamber valve design, provides smooth operation.</li> <li>• Conversion to a double chamber is a simple and economical option.</li> </ul>  |

# Differential Float Valve

## 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

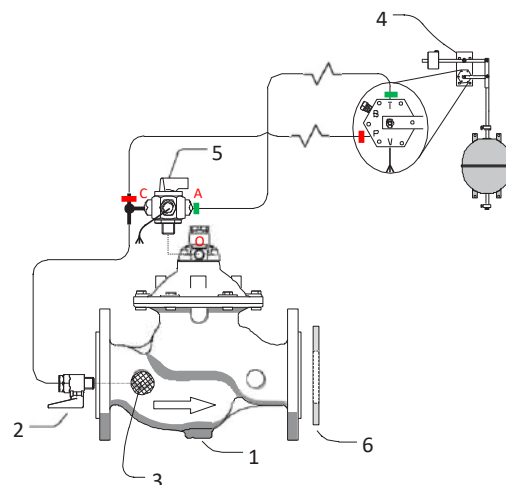
## Quick Sizing

- 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. 3W FLDI Pilot Valve
5. 3W Ball Valve
6. Orifice (Optional)

\* Indicative drawing



## Typical Installation

