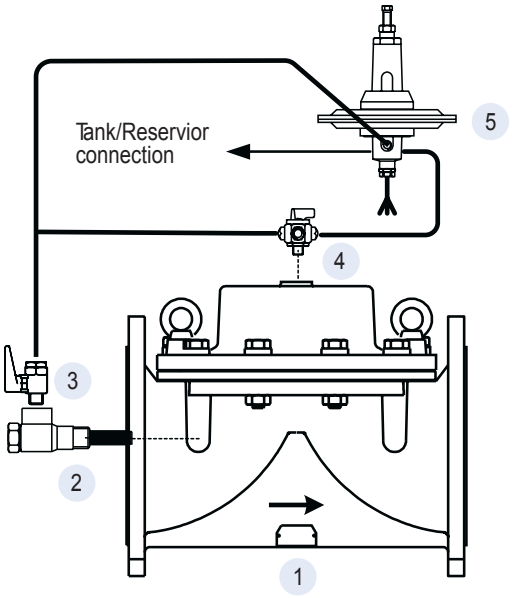
# DOROT S100-AL

WOIMA-TUOTANTO OY

## Altitude Pilot Controlled Valve






### Description

The main valve is controlled by a highly sensitive pilot, located outside the tank. The pilot opens or closes the valve in response to the static pressure of the water.
The pilot allows for differential adjustments between the maximum and minimum level. Optional Addition: Stepped Surge-Preventing Closure.

### Features

- Accurate and repeatable differential level control
- Fast response
- Easy access - no float is located in the tank/reservoir
- Simple and reliable design
- Easy installation and maintenance

### Purchase Specifications

The valve will be hydraulic, direct sealing diaphragm type, which allows inline maintenance. No stem, shaft or guide bearing will be located within the water passage.
The valve will be activated by the line pressure or by an external hydraulic or pneumatic pressure. The valve position will be controlled by a hydrostatic pressure sensing pilot valve. The valve and the controls will be a Dorot Series 100 valve or similar in all aspects.

### Quick Sizing

- Valve size same as line or one size smaller
- Maximum flow speed for continuous operation 5.5 m/sec (18 ft/sec)

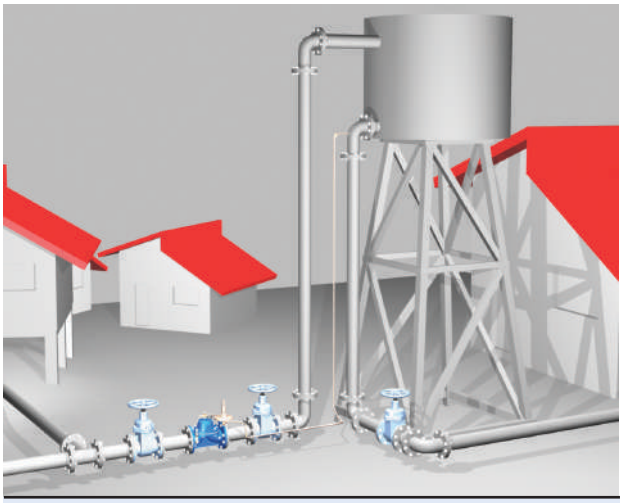
### Design Considerations

- The valve should be suited for the maximal flow
- The pilot valve must be located at least 2 meters below the closing level in the tank
- When water-hammer/surge expected during closure - add stepped surge preventing closure function to the altitude control pilot

### Optional Control System Components:

1. Main Valve
2. Self-flushing filter
3. Cock valve*
4. Manual over-ride selector valve*
5. High sensitivity altitude control pilot valve

* Optional component



### Typical Application

Dorot Altitude Pilot Controlled Valve controlling the water volume in an elevated tank.