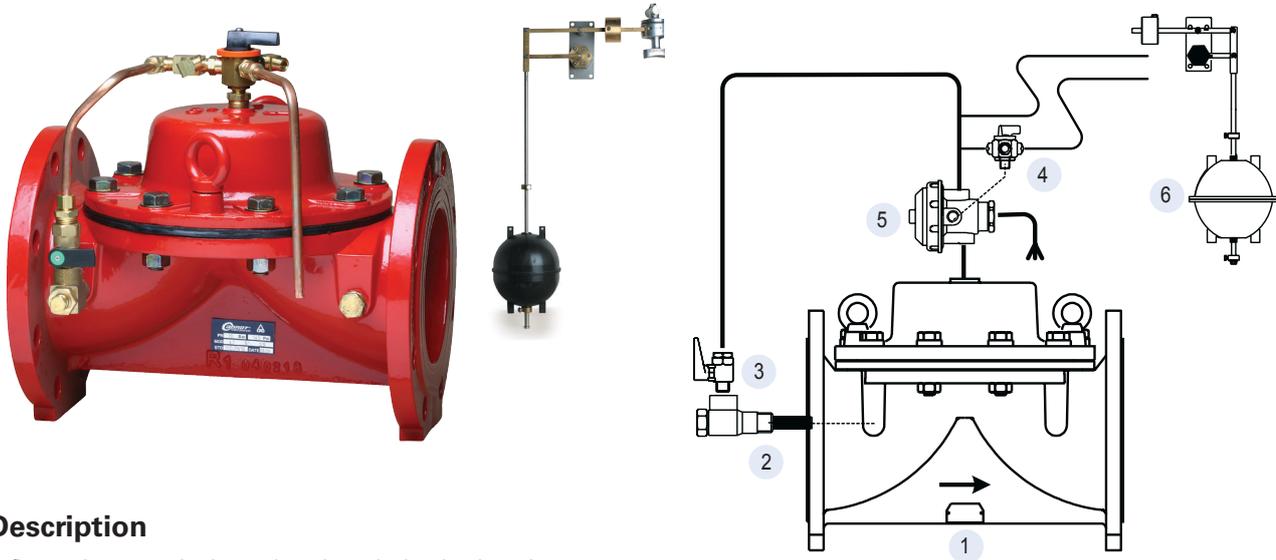


Differential Float Controlled Valve



Description

A float valve controls the main valve, closing it when the water reaches maximum level, and opening it when the water drops to its preset minimum level. The differential between the maximum and the minimum levels is adjustable.
Optional Addition: Stepped Surge-Preventing Closure.

Features

- Accurate and repeatable differential level control
- Adjustable differential
- Fast response
- 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 pressure. The valve position will be controlled by a 4-way float pilot located at the top of the tank/reservoir. 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)

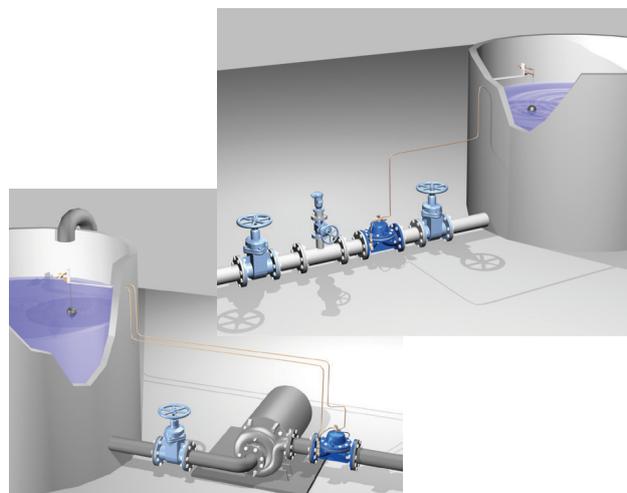
Design Considerations

- The valve should be suited for the maximal flow
- Upstream pressure at closed position should be at least 10m (15psi) higher than the static water pressure at the downstream
- Fast stream and waves may cause mechanical damage to the float levers. It is advisable to install the pilot in a still part of the reservoir

Optional Control System Components:

- 1 Main Valve
- 2 Self-flushing filter
- 3 Cock valve*
- 4 Manual over-ride selector valve*
- 5 Accelerator relay (optional for valves larger than 150mm/6")
- 6 4-way differential pilot valve (other types are optional)

* Optional component



Typical Application

Dorot Differential Float Pilot Controlled Valve controlling the water volume in a filling or emptying tank.