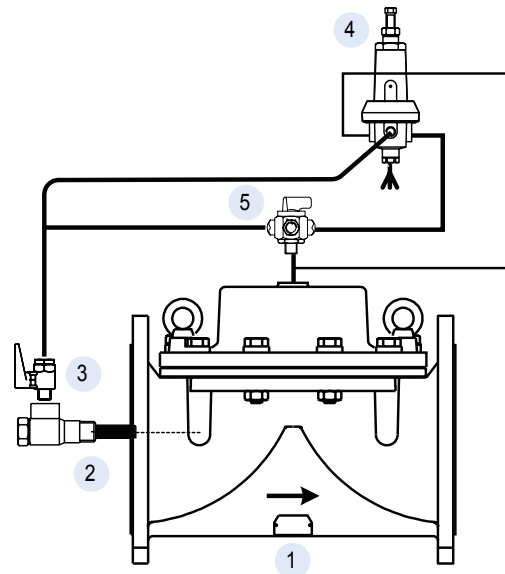


## TO Two Stage Opening Addition



### Description

The device can be added to any control function and will prevent damage caused by too fast filling of a drained pipeline. The flow rate will be restricted, until the network, downstream of the valve is full and then a full opening of the valve is enabled. Please consult DOROT for more details.

### Features

- Can be added to any pipe-filling control function
- User adjusted filling pace
- Completely hydraulic – no electronic controllers, batteries or relays are used
- Simple and reliable design

### 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's opening will be restricted by a two-stage opening control that limits the filling flow until the downstream system is full. 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)

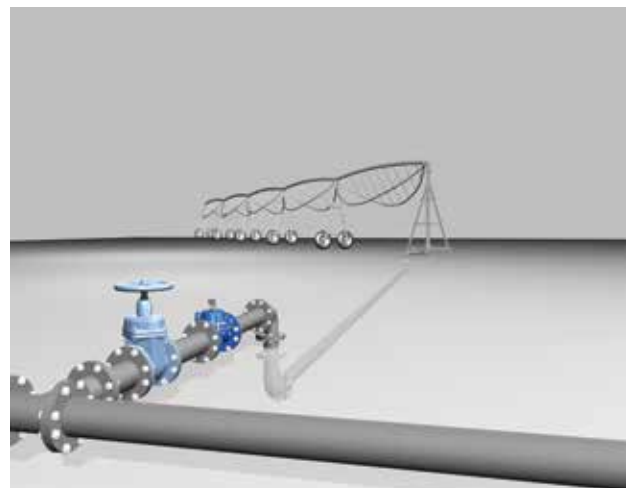
### Design Considerations

- The valve should be suited for the maximal flow and allowed headloss
- Prefer selection low pressure diaphragms when the valve is expected to stay in open position for long periods

### Optional Control System Components:

- 1 Main Valve
- 2 Self-flushing filter
- 3 Cock valve\*
- 4 Pilot valve
- 5 3-way selector valve\*

\* Optional component



### Typical Application

Dorot two-stage function prevents water-hammer/surges caused by fast drained pipe filling.