DOROT S100-EC

Aquestia
Directing the Flow

PLC Controlled Valve

Description

The valve is controlled by a PLC controller that enables local or remote control of various functions such as, time related operation, the batching of liquid, and conditional (automatically modified) control parameters, in various applications. A recommended option is using the Dorot "ConDor" controller that enables the selection from a vast range of pre-programmed control functions and their combinations.

Features

- Can perform any control function
- Highly accurate and reliable electronic control
- Low power actuation
- Simple and reliable design
- Controlled by Dorot ConDor valve controller or by a third party controller
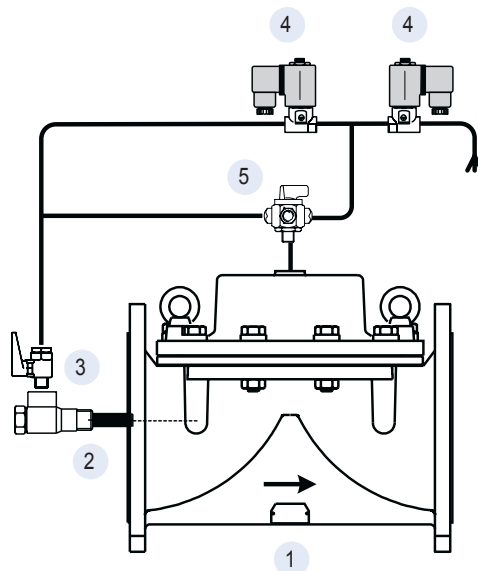
Purchase Specifications

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 determined by a set of two solenoid valves controlled by a PLC controller. 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)
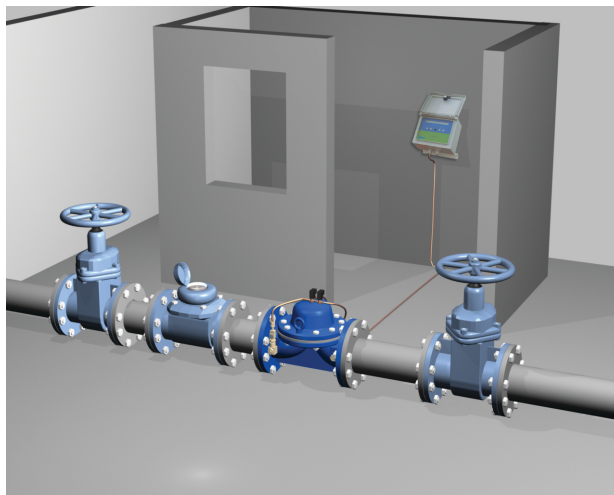
Design Considerations

- The valve should be suited for the maximal flow and allowed headloss
- Solenoid wiring diameter should be selected so that the activation voltage - losses will equal the rated value ±10%

Optional Control System Components:

1. Main Valve
2. Self-flushing filter
3. Cock valve*
4. 2/2, NC solenoid valve
5. 3-way selector valve*

* Optional component

Typical Application

Dorot PLC Controlled Valve adjusts the flow rate following a set-point signal sent from a remote center.