300 Series

Automatic Hydraulic Control Valves

SOLENOID CONTROLLED VALVE

EL

30-6-EL

DOROT model “EL” is an automatic, solenoid controlled valve, activated by the pressure of the pipeline.

The valve is controlled by an electric solenoid valve, which initiates the connection of upstream pressure to the main valve control chamber. This either causes the valve to close or the control chamber to drain, thus opening the valve.

The standard mode of the main valve is "normally closed" (N.C.). An electric signal opens the standard valve.

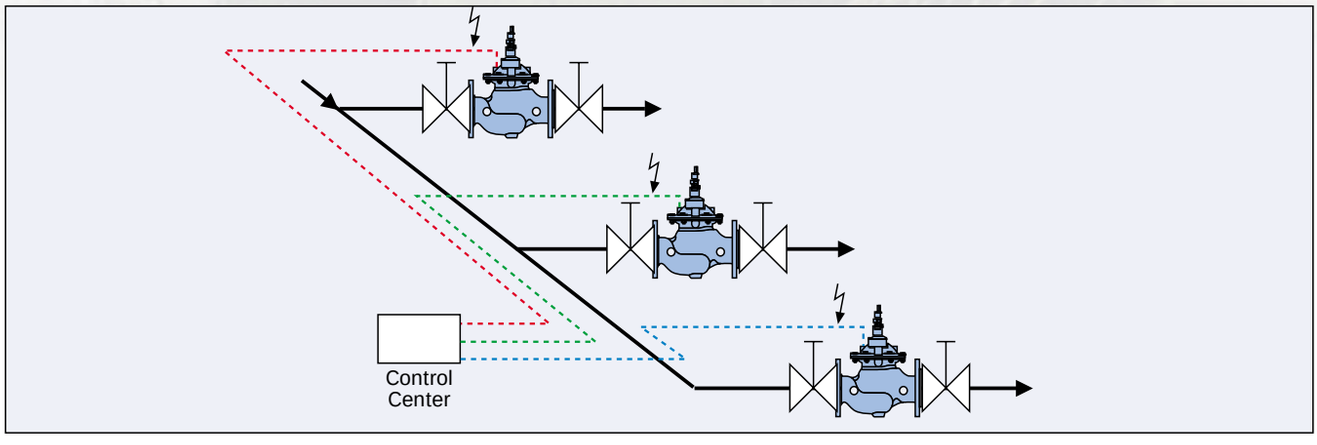
" Normally open" (N.O.) valves are supplied on request. This valve will be closed by an electric signal.

The standard electric current of the solenoid is 24VAC,50Hz. *Various coils, suitable to other electric currents are supplied on request.*

The main valve is supplied in two models:
Model 30, 30A for medium pressure (up to 16 bar / 230 psi)
Model 31, 31A for high pressure (up to 25 bar / 350 psi).

For further information see p.G5; and graph #1 on page G5-b.
For solenoid data refer to p.G6-f.

Typical Application:



The valves are activated from a central control point by electric command.

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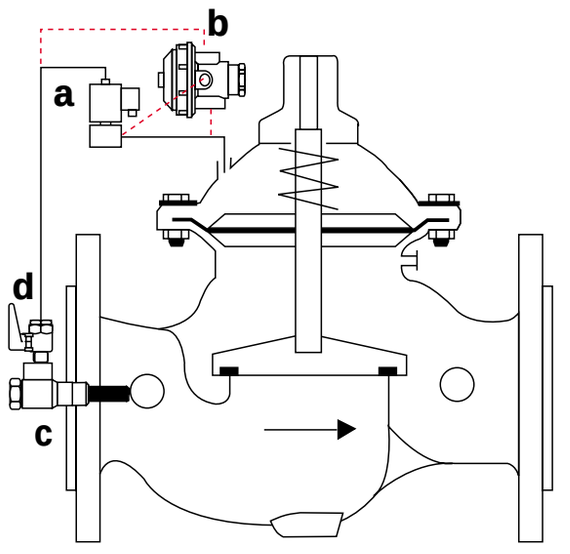
Schematic Control Diagram



a. 3-Way Solenoid Valve

b. Accelerator Relay Mod. 66-200
(For 8" or larger valves)

c. 1/2" Self-Flushing Filter Mod.81-1/2-2

d. 1/2" Ball Valve Mod.34-1/2

Purchase Specifications

(Insert values)

- The valve will be controlled by an electric solenoid valve *(electric data)*.
- The main valve will be "normally closed" ("normally open").
- The main valve will be a hydraulically operated, diaphragm actuated, Globe Type.
- The main valve will consist of a removable SST seat and resilient Rubber seal fully supported by a seal disc.
- The stem will be guided at the top by a replaceable guide bearing in the valve bonnet, and at the bottom by a Bronze centering device, connected to the seal disc and moving freely inside the seat.
- No bottom guide bearing is permitted.
- The diaphragm will be fully supported, top and bottom, by rigid discs and will be connected to the stem in a way which enables fast and easy replacement on site.
- No external packing gland and piston activation is permitted.
- Face-to-face length dimension meets ISO 5752(S-1) Standard.
- Flange standard will be to *(network standard)*.

The control system will consist of:
- Solenoid Valve.
- Self-Flushing, Removable, Internal Filter.

The valve shall be DOROT mod. 30 *(31)* -*(size)* - EL or equal in all aspects.

Design Notes

The maximum operating pressure, liquid quality, and required response time of the main valve, dictate solenoid valve selection.
Consult DOROT or your local distributor.

Calculation of the electric conduits, connecting the valve to the control center, should prevent energy loss in excess of 10% of nominal solenoid voltage.

Operating Data Checklist

(Please fill out and send to the distributor when ordering)

Maximum Flow Rate: _____

Maximum Upstream Pressure: _____

Electric Control Current: _____

Optional Features

Indirect control, using a hydraulic relay to boost the solenoid command, is used on larger valves (8" or larger) or in the case of abrasive control media.

External control pressure source (air, water).

Hydraulic Check Valve *(add code "**CV**").*
See p. 1B-1 for further information.

How To Order

Please specify the requested valve in the following sequence (see example below):

Model	**Size**	**Connection Standard**	**Control Function**	**Additional Features**	**Special Instructions**
30, 30A 31, 31A [D]	(Inch): 1 1/2" - 20"	ISO, ANSI, JIS etc.		Check Valve	
↓	↓	↓	↓	↓	↓
30	— 6	— ISO PN16	— EL	/ CV	— Position Indicator