



30-6-PS

DOROT model "PS" is an automatic, pilot controlled, pressure sustaining valve, activated by the pressure of the pipeline.

The valve will maintain a steady, predetermined pressure in the network, upstream of its location.

Should the upstream pressure exceed the required set-point, the valve opens, increasing network flow, thus reducing its upstream pressure.

If upstream pressure falls below the required value, the valve closes drip-tight.

The main valve is supplied in two models:

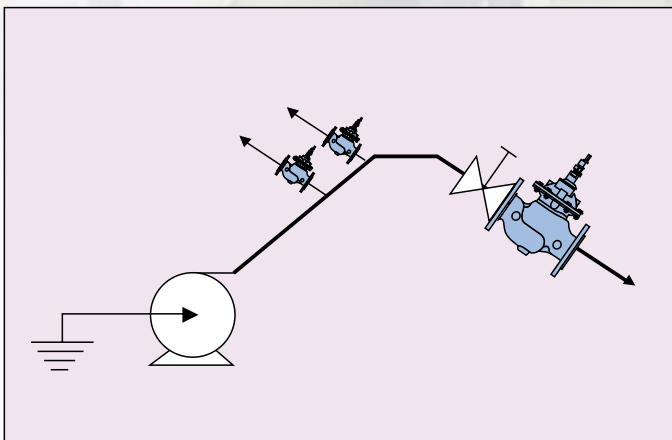
Model 30, 30A for medium pressure (up to 16 bar / 230 psi)

Model 31, 31A for high pressure (up to 25 bar / 350 psi).

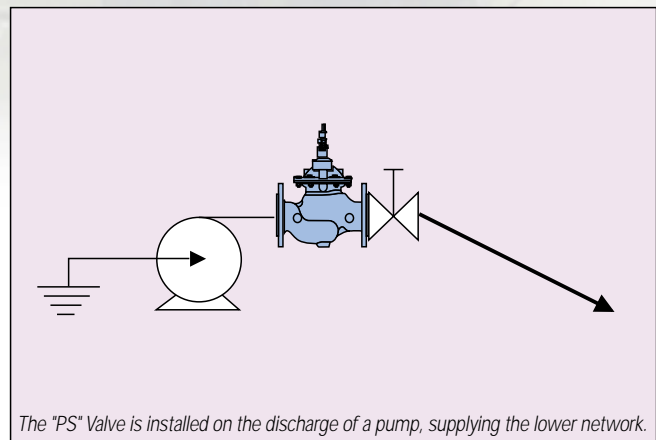
For further information see p. G5; and graph #2 on page G5-b.

For pilot data refer to p. G6-a.

Typical Application:



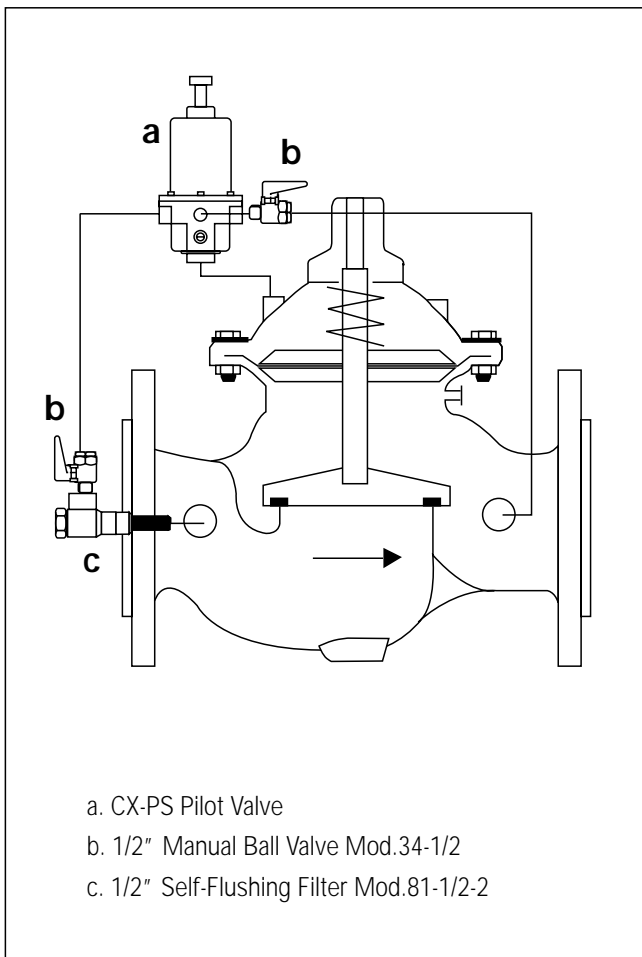
The "PS" Valve maintains the minimum required pressure in elevated demand areas, when the network flow increases.



The "PS" Valve is installed on the discharge of a pump, supplying the lower network.

The "PS" Valve maintains a preset pressure in the pump, preventing excessive flow, cavitation, and surges throughout the system filling stage.

Schematic Control Diagram



Purchase Specifications

(Insert value)

- The valve will maintain constant, steady upstream pressure.
- The valve will modulate according to the varying network flow.
- The 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:

- 2-Way Pilot Valve
- Self-Flushing, Removable, Internal Filter.
- Manual Closure Valve.

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

Design Notes

The "PS" Valve creates a defined minimum pressure differential. This loss must be incorporated in the design.
 Refer to p.G5-b.

Regulating valves may operate in destructive cavitation conditions.
 Refer to p.G5-d for further information.

Operating Data Checklist

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

Maximum Flow Rate:	_____
Maximum Upstream Pressure:	_____
Requested Upstream Pressure:	_____

Optional Features

Electric On-Off Control (add code "**EL**").
 When ordering, specify "normally open" (N.O) or "normally closed" (N.C).
 See P. 1A-1 for further information.

Check Valve Function (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.		Electric On-Off Control	
↓	↓	↓	↓	↓	↓
30	— 6	— ISO PN16	— PS	/ EL (N.O.)	— Position Indicator