



30-6-PR

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

The valve reduces upstream pressure to a steady, predetermined downstream pressure, regardless of fluctuation of upstream pressure and flow rate.

Should downstream pressure exceed the required set-point (due, for example, to a halt in pipeline flow), the valve closes drip-tight.

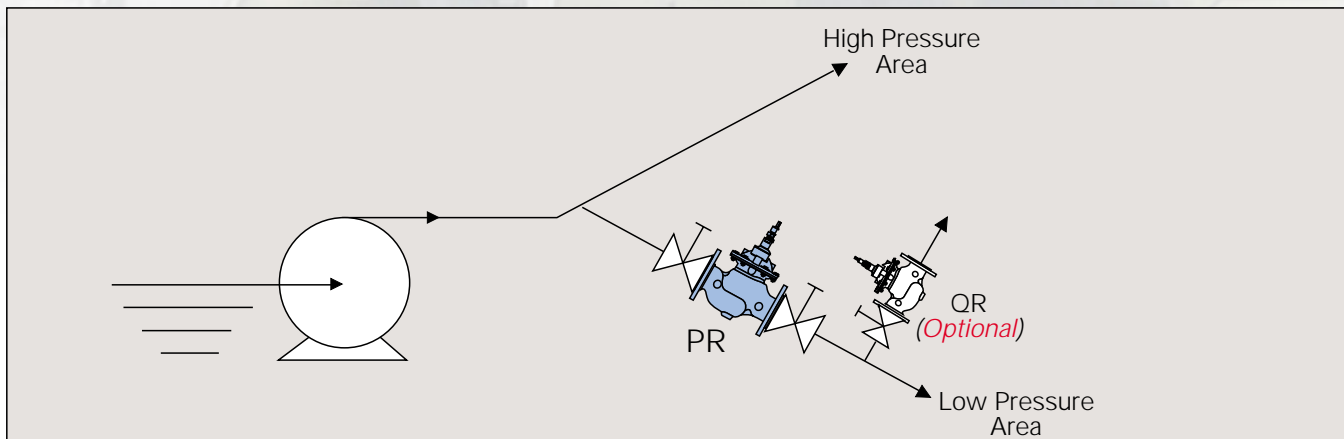
The main valve is supplied in two models:

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

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

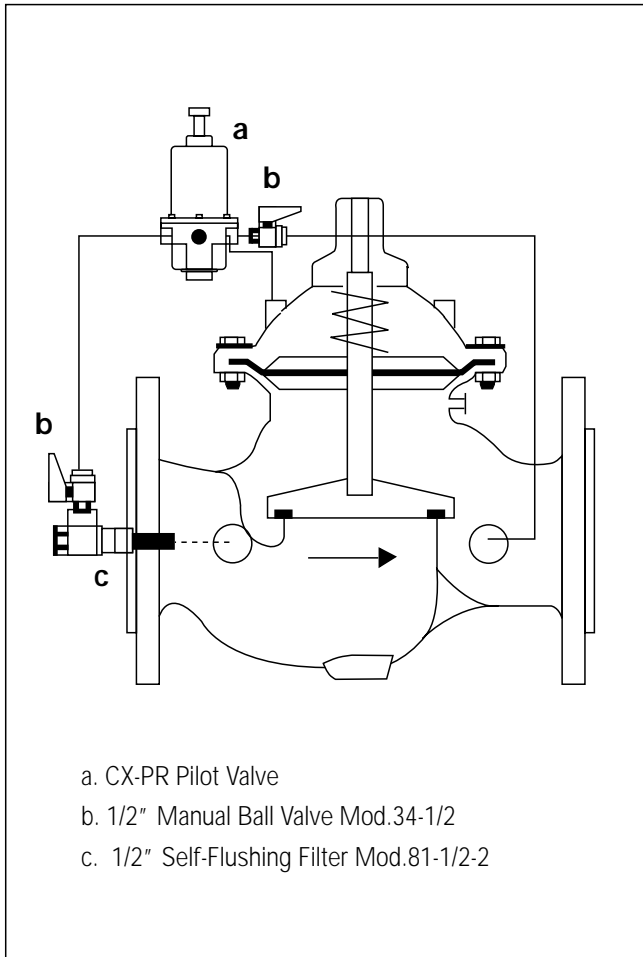
*For further information see p.G5; and graph #2 on page G5-b.
For pilot data refer to p. G6-a.*

Typical Application:



The "PR" Valve limits the pressure in a demand area to a preset value, regardless of flow or upstream pressure. Installation of a "QR" Quick Relief Valve, downstream of the "PR" Valve, may prevent excessive pressure in case of extreme pressure or flow fluctuation.

Schematic Control Diagram



Purchase Specifications

(Insert value)

- The valve will maintain constant stabilized downstream pressure *(value)* regardless of varying upstream pressure.
- The valve will regulate any flow within the specified range without the need for a smaller bypass valve or throttling plug.
- The valve will be a hydraulically operated, diaphragm actuated, Globe Type.
- The main valve will consist of a removable SST seat and a 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 will be 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 will be 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)* - PR or equal in all aspects.

Design Notes

The "PR" Valve creates a defined minimum pressure differential. This loss must be incorporated in the design. Refer to the head loss chart in cases where upstream pressure may drop to the downstream pressure set-point.

Regulating valves may operate in destructive cavitation conditions. Refer to p. G6 for further information .

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.

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

Operating Data Checklist

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

| | |
|-------------------------------|-------|
| Maximum Flow Rate: | _____ |
| Maximum Upstream Pressure: | _____ |
| Minimum Upstream Pressure: | _____ |
| Required Downstream Pressure: | _____ |

How To Order

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

| Model 30, 30A 31, 31A [D] | Size (Inch): 1 1/2" - 20" | Connection Standard ISO, ANSI, JIS etc. | Control Function | Additional Features Electric On-Off Control | Special Instructions |
|------------------------------------|------------------------------|--|---------------------|---|-------------------------|
| ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| 30 | — 6 | — ISO PN16 | — PR | / EL (N.O.) | — Position Indicator |