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 #6 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.
How To Order

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>Connection Standard</th>
<th>Control Function</th>
<th>Additional Features</th>
<th>Special Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>30, 30A, 31, 31A</td>
<td>6</td>
<td>ISO PN16</td>
<td>PR</td>
<td>Electric On-Off Control</td>
<td>EL (N.O.) Position Indicator</td>
</tr>
</tbody>
</table>

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.

Schematic Control Diagram

Purchase Specifications

Operating Data Checklist

(Insert value)

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

- Maximum Flow Rate: __________________________
- Maximum Upstream Pressure: ____________________
- Minimum Upstream Pressure: ____________________
- Required Downstream Pressure: _________________

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.

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