General Description

Series PR pressure reducing valves are used to regulate pressure in one or more areas of a hydraulic circuit independent of the main pressure relief valve.

The optional integral reverse flow by-pass check valve allows fluid to flow around the reducing valve in the reverse direction resulting in lower pressure drop and less system loss.

Specifications

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Operating Pressure</td>
<td>205 Bar (3000 PSI)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flow Rate</td>
<td>3.78 LPM (1 GPM) minimum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum Pressure Setting</td>
<td>10.2 Bar (150 PSI) minimum flow at maximum, 32 cst. (150 SSU) oil and fluid temperature of 38°C (100°F)</td>
<td>Note: Change in flow, temperature or fluid [cst. (SSU)] rating will affect valve minimum pressure.</td>
<td></td>
</tr>
<tr>
<td>Drain Line</td>
<td>Externally drained</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reverse Flow</td>
<td>Optional integral reverse flow by-pass check valve</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* See Ordering Information

Flow Data

<table>
<thead>
<tr>
<th>Valve Model</th>
<th>Flow (Max)</th>
<th>Mounting Style</th>
<th>Port Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR3P</td>
<td>12 GPM (45 L/M)</td>
<td>Inline</td>
<td>3/8 NPTF</td>
</tr>
<tr>
<td>PR3M</td>
<td>12 GPM (45 L/M)</td>
<td>Subplate (NFPA P03)</td>
<td>3/8 NPTF</td>
</tr>
<tr>
<td>PR6P</td>
<td>30 GPM (114 L/M)</td>
<td>Inline</td>
<td>3/4 NPTF</td>
</tr>
<tr>
<td>PR6M</td>
<td>30 GPM (114 L/M)</td>
<td>Subplate (NFPA P06)</td>
<td>3/4 NPTF</td>
</tr>
<tr>
<td>PR10P</td>
<td>70 GPM (265 L/M)</td>
<td>Inline</td>
<td>1-1/4 NPTF</td>
</tr>
<tr>
<td>PR10M</td>
<td>70 GPM (265 L/M)</td>
<td>Subplate (NFPA P10)</td>
<td>1-1/4 NPTF</td>
</tr>
</tbody>
</table>
**Pressure Control Valves**

**Series PR**

### Ordering Information

<table>
<thead>
<tr>
<th>Designation</th>
<th>Description</th>
<th>Pressure Range</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR*3P</td>
<td>3/8&quot; NPTF Inline</td>
<td>150-3000 PSI</td>
<td>4.3 kg (9.5 lbs.)</td>
</tr>
<tr>
<td>PR*3M</td>
<td>3/8&quot; Subplate (NFPA P03)</td>
<td>150-2000 PSI</td>
<td>4.8 kg (10.5 lbs.)</td>
</tr>
<tr>
<td>PR*6P</td>
<td>3/4&quot; NPTF Inline</td>
<td>150-3000 PSI</td>
<td>5.6 kg (12.5 lbs.)</td>
</tr>
<tr>
<td>PR*6M</td>
<td>3/4&quot; Subplate (NFPA P06)</td>
<td>150-2000 PSI</td>
<td>5.2 kg (11.5 lbs.)</td>
</tr>
<tr>
<td>PR*10P</td>
<td>1-1/4&quot; NPTF Inline</td>
<td>150-3000 PSI</td>
<td>10.4 kg (23.0 lbs.)</td>
</tr>
<tr>
<td>PR*10M</td>
<td>1-1/4&quot; Subplate (NFPA P10)</td>
<td>150-2000 PSI</td>
<td>10.4 kg (23.0 lbs.)</td>
</tr>
</tbody>
</table>

*NOTE: NOT REC'D. WHEN ORDERING*
Millimeter equivalents for inch dimensions are shown in (**) 

Manifold mounted, 3/8" pilot operated
Pressure Reducing Valve

Pressure Control Valves
Series PR*3M
Pressure Control Valves
Series PR*3P

Millimeter equivalents for inch dimensions are shown in (**)

In-line mounted, 3/8" pilot operated
Pressure Reducing Valve

Dimensions

1/4 NPTF—REMOTE CONTROL PORT

1/4 NPTF—DRAIN PORT
MUST BE OPEN TO TANK

3.35 (85.1)
FULLY EXTENDED

13 (3.3)

1/4 NPTF—GAGE PORT—HIGH PRESSURE INLET

1/4 NPTF—GAGE PORT—REDUCED PRESSURE OUTLET

3/8 NPTF—REDUCED PRESSURE OUTLET (OR REVERSED FREE FLOW INLET WITH CHECK OPTION)
(OPTIONAL EITHER SIDE)

3.00 (76.2)

1.50 (38.1)

1.38 (35)

2.75 (70) SQ.

2.12 (54)

8.25 (159)

1.18 (30)

.56 (14.2)
Millimeter equivalents for inch dimensions are shown in (**)

Manifold mounted, 3/4" pilot operated
Pressure Reducing Valve
Pressure Control Valves
Series PR*6P

Millimeter equivalents for inch dimensions are shown in (**)

In-line mounted, 3/4" pilot operated
Pressure Reducing Valve

1/4 NPTF—GAGE PORT—HIGH PRESSURE INLET
1/4 NPTF—GAGE PORT—REDUCED PRESSURE OUTLET
3/4 NPTF—REDUCED PRESSURE OUTLET OR REVERSED FREE FLOW INLET WITH CHECK OPTION
1/4 NPTF—DRAIN PORT
2.75 (70) sq.

JAM NUT-LOCKS PRESSURE SETTING
Millimeter equivalents for inch dimensions are shown in (**)

Manifold mounted, 1 1/4" pilot operated

Pressure Reducing Valve

1.17 (30) DIA. HIGH PRESSURE INLET OR REVERSE FREE FLOW OUTLET WITH CHECK OPTION

1/8 NPTF (PLUGGED)

1/4 NPTF FOR REMOTE PRESS. ADJUSTMENT (PLUGGED)

EXTERNAL DRAIN PORT (OPEN)

1.17 (30) DIA. REDUCED PRESSURE OUTLET OR REVERSE FREE FLOW INLET WITH CHECK OPTION

3.35 (85.1) FULLY EXTENDED

5.40 (137.1) WITH CHECK

1.88 (47.6)

.12 (3)

2.47 (63)

2.34 (59.4)

2.66 (67.5)

3.31 (84)

3.42 (86.4)

3.81 (97)

4.83 (123)

5.98 (151.7)

6.68 (169.6)

1.68 (42.1)

1.90 (48.2)

3.65 (93)

1.81 (46)

7.47 (190)

1.17 (30)

REDUCED PRESSURE GAGE PORT

HIGH PRESSURE GAGE PORT
Millimeter equivalents for inch dimensions are shown in (**)

In-line mounted, 1 1/4" pilot operated
Pressure Reducing Valve

---

1/4 NPTF REMOTE CONTROL PORT

1/4 NPTF DRAIN PORT MUST BE OPEN TO TANK

1-1/4 NPTF–REDUCED PRESSURE OUTLET OR REVERSE FREE FLOW INLET WITH CHECK OPTION

1-1/4 NPTF–HIGH PRESSURE INLET OR REVERSE FREE FLOW OUTLET WITH CHECK OPTION

---

3.35 (85.1) FULLY EXTENDED

JAM NUT-LOCKS PRESSURE SETTING

6.28 (159.5) WITH INTEGRAL CHECK

4.65 (118) WITHOUT INTEGRAL CHECK

2.69 (68.3) 1.96 (50)

HIGHPRESSURE GAGE PORT

REDUCED PRESSURE GAGE PORT