**Pressure Reducing Valve**

- Use this valve in double or single acting systems.
- Direct acting, poppet style, adjustable, cartridge construction.
- Cartridge construction is the adjustable, direct acting, poppet style.
- Model 47-0540-01 set the pressure range from 52 bar (5.2 MPa) to 310 bar (31 MPa). Repeatability ± 7%.
- Model 47-0540-03 set the pressure range from 10 bar (1 MPa) to 62 bar (6.2 MPa). Repeatability ± 10%.
- Maximum inlet pressure is 350 bar (35 MPa).
- Two-port design eliminates the need for third fluid line to drain bypass flow (internal leakage) back to the system reservoir.
- Recommended Filtration is 25 Micron (NOM) / 40 Micron (ABS) (minimum).

**Operation:** The Pressure Reducing Valve (PRV) is a Normally Open (N/O) pressure control device. The valve remains open and fluid flows freely to downstream devices (from the valve to devices) until the pressure in the valve reaches the pressure (adjustable) set-point. At the set-point pressure, the valve closes blocking further flow and pressure rise to the downstream devices. If there is a sufficient downstream pressure loss (from the valve to devices), the PRV will re-open, allowing flow to pass through the valve until the pressure again reaches the valve set-point.

**Pressure Reducing Valve**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Inlet Pressure</th>
<th>Set Pressure Range</th>
<th>Repeat A</th>
</tr>
</thead>
<tbody>
<tr>
<td>47-0540-01</td>
<td>350 bar (35 MPa)</td>
<td>52-310 bar (5.2-31.0 MPa)</td>
<td>± 7% 148</td>
</tr>
<tr>
<td>47-0540-03</td>
<td>&lt; 200 bar (20 MPa)</td>
<td>10-62 bar (1.0-6.2 MPa)</td>
<td>± 10% 165</td>
</tr>
<tr>
<td></td>
<td>&gt; 200 bar (20 MPa)</td>
<td>20-62 bar (2.0-6.2 MPa)</td>
<td></td>
</tr>
</tbody>
</table>

**Filter Plate**

Order a Filter Plate to protect valve from debris.

(More details on M-4)

For proper sealing, the mating surface must be flat within 0.08 mm with a maximum surface roughness of 1.6 µm Rₐ.

NOTE: Maximum system flow rate is 5.7 l/min. for all VektorFlo® special function valves.

Excess flow voids warranty.

Order a Filter Plate to protect valve from debris.

(More details on M-4)