Pilot operated, balanced piston sequence valve

Functional Group:
Products : Cartridges : Sequence : 3-Port : Pilot Operated, Balanced Piston

Model: RSDC-LAN

Product Description
Pilot-operated, balanced piston sequence valves will supply a secondary circuit with flow once the pressure at the inlet (port 1) has exceeded the valve setting. The pressure setting of a sequence valve controls the pressure at port 1 relative to the pressure at the drain (port 3). These valves are insensitive to back pressure at port 2 (sequence), up to the valve setting. They may be used to regulate pressure in place of 2-port relief valves if there is pressure in the return line.

Technical Features
- All 3 port sequence cartridges are physically and functionally interchangeable (i.e. same flow path, same cavity for a given frame size).
- Pilot flow continues to increase as the pressure at port 1 (inlet), relative to the pressure at port 3 (drain), rises above the valve setting.
- The main stage orifice is protected by a 150 micron stainless steel screen.
- Pressure at port 3 is directly additive to the valve setting at a 1:1 ratio and should not exceed 5000 psi (350 bar).
- Not suitable for use in load holding applications due to spool leakage.
- Corrosion resistant cartridge valves are intended for use in corrosive environments and are identified by the model code suffix /AP (see Option Selection below). External parts are made from stainless steel with titanium or brass components, where applicable. Internal parts are made from carbon steel leaded alloy, the same as standard valves. For further details, please see the Materials of Construction page.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

Technical Data

<table>
<thead>
<tr>
<th></th>
<th>U.S. Units</th>
<th>Metric Units</th>
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<tbody>
<tr>
<td>Cavity</td>
<td></td>
<td>T-11A</td>
</tr>
<tr>
<td>Capacity</td>
<td>15 gpm</td>
<td>60 L/min.</td>
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<tr>
<td>Control Pilot Flow</td>
<td>7 - 10 in³/min.</td>
<td>0,11 - 0,16 L/min.</td>
</tr>
<tr>
<td>Factory Pressure Settings</td>
<td>4 gpm</td>
<td>15 L/min.</td>
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</tbody>
</table>
Maximum Operating Pressure: 5000 psi (350 bar)
Maximum Valve Leakage at 110 SUS (24 cSt): 2 in³/min. @ 1000 psi, 30 cc/min. @ 70 bar
Response Time - Typical: 10 ms
Series (from Cavity): Series 1
Adjustment - Number of Clockwise Turns to Increase Setting: 5
Valve Hex Size: 7/8 in. (22.2 mm)
Valve Installation Torque: 30 - 35 lbf ft (40 - 50 Nm)
Adjustment Screw Internal Hex Size: 5/32 in. (4 mm)
Adjustment Locknut/Cap Hex Size: 9/16 in. (15 mm)
Adjustment Nut Torque: 80 - 90 lbf in. (9 - 10 Nm)
Seal Kits - Cartridge: Buna: 990-011-007, Viton: 990-011-006
Model Weight: 0.35 lb. (0.16 kg.)

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**RSDC-LAN**

**Control**

<table>
<thead>
<tr>
<th>Adjustment Range</th>
<th>Seal Material</th>
<th>Material/Coating Modifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>L Standard Screw Adjustment</td>
<td>+0.00</td>
<td>A 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting</td>
</tr>
<tr>
<td>A 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting</td>
<td>+0.00</td>
<td>N Buna-N +0.00</td>
</tr>
</tbody>
</table>

**Recommended List Price:** $49.30

*Our corrosion resistant product line is growing! If you are interested in a corrosion resistant option for this model, please contact Sun.*

When the modifier is /AP, the control must be C or L
Customer specified setting stamped on hex $ 2.00