**LS-3000, RD-2500 PRESSURE DROP, RELIEF CURVE AND STANDARD MODELS**

### PRESSURE DROP

<table>
<thead>
<tr>
<th>FLOW (GPM)</th>
<th>INLET TO OUTLET</th>
<th>INLET TO A OR B</th>
<th>A OR B TO OUTLET</th>
<th>INLET TO OUTLET</th>
<th>INLET TO A OR B</th>
<th>A OR B TO OUTLET</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>5</td>
<td>20</td>
<td>8</td>
<td>3</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>10</td>
<td>9</td>
<td>39</td>
<td>15</td>
<td>5</td>
<td>11</td>
<td>13</td>
</tr>
<tr>
<td>15</td>
<td>19</td>
<td>60</td>
<td>32</td>
<td>7</td>
<td>23</td>
<td>24</td>
</tr>
<tr>
<td>20</td>
<td>31</td>
<td>90</td>
<td>54</td>
<td>11</td>
<td>40</td>
<td>42</td>
</tr>
</tbody>
</table>

### STANDARD VALVES AVAILABLE

All standard valves have a load check (except LS3000 models), a complete lever handle assembly, and an adjustable ball-spring relief, see below for settings. For other relief settings, please specify.

#### LS-3000/RD-2500 RELIEF VALVE

CURVES AT VARIOUS SET POINTS

<table>
<thead>
<tr>
<th>PRESSURE DROP</th>
<th>RELIEF CURVE AT VARIOUS SET POINTS</th>
<th>RELIEF SETTING</th>
<th>FROM OPEN CENTER TO CLOSED</th>
</tr>
</thead>
<tbody>
<tr>
<td>110 SUS OIL AT 115°F</td>
<td>500 PSI @ 3 GPM</td>
<td>NO</td>
<td>2250 PSI @ 3 GPM</td>
</tr>
<tr>
<td>1500 PSI @ 3 GPM</td>
<td>YES</td>
<td>2250 PSI @ 3 GPM</td>
<td></td>
</tr>
<tr>
<td>2000 PSI @ 3 GPM</td>
<td>NO</td>
<td>2250 PSI @ 3 GPM</td>
<td></td>
</tr>
<tr>
<td>2500 PSI @ 3 GPM</td>
<td>NO</td>
<td>2250 PSI @ 3 GPM</td>
<td></td>
</tr>
<tr>
<td>3000 PSI @ 3 GPM</td>
<td>NO</td>
<td>2250 PSI @ 3 GPM</td>
<td></td>
</tr>
</tbody>
</table>

### 4 WAY SPOOL

This spool option is used to control a double acting cylinder. In neutral both of the work ports are blocked and oil goes through the open center passage to the outlet. This is the most popular spool option.

### 3 WAY SPOOL

This spool option is used to control a single acting cylinder or a uni-directional motor. In neutral the work port is blocked and oil goes through the open center passage to the outlet. The “B” work port is plugged for this option.

### 4 WAY MOTOR SPOOL

This spool option is used to control a reversing motor or a double acting cylinder. In neutral the work ports are connected to tank and oil goes through the open center passage to the outlet. This allows a motor to free-wheel or a cylinder to float in the neutral position.

### LOAD CHECK

The load check feature is standard on all RD-2500 valve models. The load check will prevent the fall of a cylinder as the spool is shifted. It does this by preventing the back-flow of oil from work port to inlet. The pump must build up enough pressure to overcome the pressure on the work port and lift the load check poppet. The load check has nothing to do with holding a cylinder when the spool is in neutral.
**DESCRIPTION:**
This valve is a screw-in cartridge style, pressure compensated fixed-flow priority flow regulator. The valve delivers a constant flow to the priority port regardless of pressure on the secondary or primary circuit. All ports can be fully pressurized.

**SPECIFICATIONS**
- **MAXIMUM PRESSURE** .................. 3000 PSI
- **MAXIMUM INLET FLOW** .................. 15 GPM
- **MAXIMUM CONTROL FLOW** ........... 5 GPM
- **FLOW ACCURACY** 1.5 to 5 GPM .................. ±10 %
- **MAXIMUM TEMPERATURE** .................. 180°F
- **RECOMMENDED FILTRATION** ISO 4406 17/14/19
- **THE CARTRIDGE IS ALL STEEL CONSTRUCTION**
- **THE VALVE BODIES ARE HIGH STRENGTH ALUMINUM**
- **INSTALLATION TORQUE** 10-12 FT-LBS

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**FOR PRIORITY FLOW SETTINGS OR PORT SIZES NOT LISTED, CONTACT YOUR SALES REPRESENTATIVE.**

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**PMC CAVITY PMC10-3L**

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**SEE PAGE 24 OF THE STANDARD PRODUCT PRICE LIST FOR PRICING**