**LS08-30 Load Shuttle, Ball-Type**

**DESCRIPTION**
A load-shuttling, screw-in, cartridge-style hydraulic check valve, for use in blocking circuits where a priority of flow/direction is given to a higher pressure circuit over a lower one.

**OPERATION**
The LS08-30 will allow flow from the higher pressure of ➀ or ➂ port to the ➁ port. The valve is commonly used to direct oil from the pressure side of a bidirectional hydraulic motor to a pressure-released hydraulic brake.

**FEATURES**
- Rapid response to load direction changes.
- Compact size.

**RATINGS**
- **Operating Pressure:** 240 bar (3500 psi)
- **Proof Pressure:** 390 bar (5700 psi)
- **Flow:** See Performance Chart
- **Internal Leakage:** 0.25 cc/minute (5 drops/minute) max. at 207 bar (3000 psi)
- **Temperature:** -40 to 120°C with standard Buna seals
- **Filtration:** See page 9.010.1
- **Fluids:** Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 ssu); See Temperature and Oil Viscosity, page 9.060.1
- **Installation:** No restrictions; See page 9.020.1
- **Cavity:** VC08-3; See page 9.108.1
- **Cavity Tool:** CT08-3XX; See page 8.600.1
- **Seal Kit:** SK08-3X-MM; See page 8.650.1

**PERFORMANCE** (Cartridge Only)

<table>
<thead>
<tr>
<th>FLOW lpm/gpm</th>
<th>PRESSURE DROP bar/psi</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.7/25</td>
<td>3.8</td>
</tr>
<tr>
<td>3.4/50</td>
<td>7.5</td>
</tr>
<tr>
<td>5.2/75</td>
<td>11.4</td>
</tr>
<tr>
<td>6.9/100</td>
<td>15.1</td>
</tr>
<tr>
<td>8.6/125</td>
<td>18.9</td>
</tr>
</tbody>
</table>

32 cSt/150 ssu oil at 40°C
DIMENSIONS

MATERIALS

Cartridge: Weight: 0.08 kg. (0.17 lbs.)
Steel with Zinc-plated exposed surfaces; Buna N O-rings and back-ups standard.

Standard Ported Body: Weight: 0.27 kg. (0.60 lbs.) Anodized high-strength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.008.1

TO ORDER

<table>
<thead>
<tr>
<th>Porting</th>
<th>Cartridge Only</th>
<th>SAE 4</th>
<th>SAE 6</th>
<th>1/4 in. BSP*</th>
<th>3/8 in. BSP*</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS08-30</td>
<td>0</td>
<td>4T</td>
<td>6T</td>
<td>2B</td>
<td>3B</td>
</tr>
</tbody>
</table>

*BSB Body
U.K. Mfr. Only

Seals
N Buna N (Std.)
V Fluorocarbon

ORIFICE DISC MAY NOT BE USED WITH THIS PRODUCT.