**Operation**

The D-HGPDO in neutral (un-piloted), allows flow between (2) and (3) bi-directionally.

The spring chamber is constantly vented at (1). On attainment of a predetermined pressure at (4), the cartridge blocks flow from (2) to (3).

Note: that the backpressure value at (1) must be added to the selected pressure setting to determine pilot pressure necessary to shift valve to second position.

**Features**

- Hardened parts for long life and low leakage.
- Industry common cavity.

0.8 to 1.5 mm diameter orifice recommended beneath port 4

**Specifications**

<table>
<thead>
<tr>
<th></th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nom. Flow (lpm)</td>
<td>38</td>
</tr>
<tr>
<td>Max. Pressure (bar)</td>
<td>276</td>
</tr>
<tr>
<td>Internal Leakage (32 cSt)</td>
<td>82 cc/min</td>
</tr>
<tr>
<td>Hydraulic Oil</td>
<td>General purpose hydraulic fluid</td>
</tr>
<tr>
<td>Viscosity Range</td>
<td>3 to 640 cSt</td>
</tr>
<tr>
<td>Filtration</td>
<td>ISO 18/16/13</td>
</tr>
<tr>
<td>Operating Temp.</td>
<td>-40 to 120°C</td>
</tr>
<tr>
<td>Cartridge Torque</td>
<td>40.6 Nm</td>
</tr>
<tr>
<td>Cavity</td>
<td>DG10-4 (see cavity data page CAV-DE10-4)</td>
</tr>
<tr>
<td>Spare Seal Kit (Viton)</td>
<td>SK-DDGVHDDDD</td>
</tr>
<tr>
<td>Weight - Valve only</td>
<td>0.28 kg (alum)</td>
</tr>
<tr>
<td>Weight - Valve + Body</td>
<td>0.55 kg (alum) 1.87 kg (steel)</td>
</tr>
</tbody>
</table>

**Performance**

32 cSc / 38°C.
Mechanical Directional Control.
Pilot Directional Valve, 2 Way NO - Size 10.

Dimensions [mm]

Ordering Code

D-HGPDO

Options
00 - Nitrile
V0 - Viton

Crack Pressure (±10%)  
0040 - 2.8 bar (40 psi)
0080 - 5.5 bar (80 psi)
0160 - 11 bar (160 psi)

Port size (BSP)  
B - 3/8"
C - 1/2"

No. of ports  
4 - 4 ports

Options - See page B-DDG

Body material  
A - Aluminium
S - Steel

For pressures over 210 bar use steel.