**Operation**

The D-HGPDC in neutral (un-piloted), blocks flow between (2) and (3).

The spring chamber is constantly vented at (1). On attainment of a predetermined pressure at (4), the cartridge allows 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.

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**Performance**

32 cSc / 38°C.

**Specifications**

<table>
<thead>
<tr>
<th>Specification</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-DDGVHDDD</td>
</tr>
<tr>
<td>Weight - Valve only</td>
<td>0.28 kg</td>
</tr>
<tr>
<td>Weight - Valve + Body</td>
<td>0.55 kg (alu) 1.87 kg (steel)</td>
</tr>
</tbody>
</table>

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0.8 to 1.5 mm diameter orifice recommended beneath port 4

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Related Fluid Power Ltd.  T: 0044 (0)1334 655600  F: 0044 (0)1334 650006  E: sales@relatedfluidpower.com  www.relatedfluidpower.com
Mechanical Directional Control.
Pilot Directional Valve, 2 Way NC - Size 10.

Dimensions

[mm]

Ordering Code

D-HGPDC

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)

A - 1/4"
B - 3/8"
C - 1/2"

Options - See page B-DDG

No. of ports

4 - 4 ports

Options - See page B-DDG

Body material

A - Aluminium
S - Steel

For pressures over 210 bar use steel.