This is a direct-acting differential area poppet type relief valve, typically used to provide main relief protection against surge and overload conditions. It is fast acting and dirt tolerant and can be used for continuous duty and intermittent applications providing accurate stable pressure control. It also has a flat pressure rise versus increase in flow rate and has reasonably high flow capacity relative to physical size.

**Operation**

The D-DERCD blocks flow from (1) to (2) until sufficient pressure is present at (1) to force the poppet to open and allow metered flow from (1) to (2). The cartridge offers smooth transition in response to load changes in common hydraulic circuits.

**Adjustment**

Turn to increase pressure.

**Features**

- Hardened parts for long life.
- Industry common cavity.

**Installation Space Saving Product.**

Concealed adjustment / cannot be field adjusted.

Not recommended for crossover relief valve applications, use D-DERWD
### Dimensions [mm]

![Dimension Diagram]

### Ordering Code

**D-DERCD**

<table>
<thead>
<tr>
<th>Options</th>
<th>Pressure setting</th>
<th>Port size (BSP)</th>
<th>No. of ports</th>
<th>Body material</th>
</tr>
</thead>
<tbody>
<tr>
<td>00 - Nitrile</td>
<td>2500 - 7 to 170 bar</td>
<td>B - 3/8&quot;</td>
<td>2 - 2 ports</td>
<td>A - Aluminium</td>
</tr>
<tr>
<td>V0 - Viton</td>
<td>3500 - 170 to 240 bar</td>
<td>C - 1/2&quot;</td>
<td></td>
<td>S - Steel</td>
</tr>
</tbody>
</table>

Options - See page B-DDE

For pressures over 210 bar use steel.