Description

Designed to control double pumps of Hi-Low system. Unloads low pressure pump when system pressure rises above the pressure set on Unloader valve. Relieves high pressure pump when system pressure reaches the value. Solenoid unloading facility available as an option.

Hydraulic symbol

![Hydraulic symbol diagram]

Connection details:

- **HP** ---- High pressure pump connection.
- **LP** ---- Low pressure pump connection.
- **P** ---- Outlet connection.
- **HPG** ---- Gauge connection on high pressure pump line.
- **LPG** ---- Gauge connection on low pressure pump line.
- **Pt** ---- Pilot pressure connection (Optional).
- **T1** ---- Tank connection of high pressure relief valve.
- **T2** ---- Tank connection of low pressure unloading valve.
- **F** ---- Provision for filter port.

Optional outlet port combining T1 and T2.

Optional provision for fixing orifice.
Unit dimensions

Solenoid valve (provision) for unloading both the Pumps simultaneous (by venting).

Provision for fixing orifice, Size - 1/2" NPT- female threads. (Not fixed in the module, unless specified.)

Cutout in the mounting plate

Solenoid valve (provision) for unloading the low pressure pumps (by venting)

Dimensions in mm.

<table>
<thead>
<tr>
<th>Port</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP</td>
<td>G3/4</td>
</tr>
<tr>
<td>LP</td>
<td>G1</td>
</tr>
<tr>
<td>P</td>
<td>G1-1/4</td>
</tr>
<tr>
<td>Pt</td>
<td>G1/4</td>
</tr>
<tr>
<td>HPG</td>
<td>G1/4</td>
</tr>
<tr>
<td>LPG</td>
<td>G1/4</td>
</tr>
<tr>
<td>T1</td>
<td>G3/4</td>
</tr>
<tr>
<td>T2</td>
<td>G1</td>
</tr>
<tr>
<td>F</td>
<td>G1-1/4</td>
</tr>
</tbody>
</table>

Optional

High pressure relief valve cover

High pressure pump relief valve. Pressure adjusting screw

Low pressure unloading valve cover

Unloading pressure adjust screw

Check valve cover
Technical specifications

Construction  PCM 20/16 .............. Two stage poppet type high pressure relief valve.
Two stage poppet type low pressure unloading valve.

Mounting ................................ Threaded body (Factory standard)

Mounting position ..................... Optional

Flow direction  ......................... As per hydraulic symbol.

Operating pressure ................... For low pressure pump 50 and 100 bar.
For high pressure pump port 100, 200, 315.

Hydraulic medium ..................... Mineral oil.

Viscosity range ....................... 10 cSt to 380 cSt.

Fluid temperature range ............. -20°C to +70°C.

Fluid cleanliness requirement ......... ISO 4406 20/18/15 or better.

Flow handling capacity ..............

<table>
<thead>
<tr>
<th>Model</th>
<th>High pressure max.</th>
<th>Low pressure max.</th>
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</thead>
<tbody>
<tr>
<td>PCM 20/16</td>
<td>100 l/min</td>
<td>160 l/min</td>
</tr>
</tbody>
</table>

Mass ........................................ 10.5 kg. APPROX.

Ordering code

Pressure control module with size 20 Unloader valve.

High pressure relief valve
Size 16

Unloader pressure adjustment
spring rating 50, 100 bar.

High pressure relief valve
pressure adjustment spring rating 100, 200 & 315 bar.

Design code subject to change. Installation dimensions remain same.
for design code 10 thru 19.

Solenoid unloading ( provision )
for low pressure relief valve.
(Omit, if not required)

Solenoid unloading ( provision )
for high pressure unloading valve.
(Omit, if not required)

 Provision for Filter port
(Omit, if not required)

Note: Solenoid (refer spool type) below
Subplate to be ordered separately.

Spool ' D ' type: [Diagram]

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Subject to revision.

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