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

```
Optional provision

P

Optional provision

HP

LP

Optional provision

T1

HP

LP

T2

Optional provision

Orifice ( Provision )

HPG

PT

LPG

Optional provision

F

Optional provision

HPG

LPG

Optional provision

Pt

Optional provision

R

PCM20/06 and PCM20/10 with filter port, relief valve tank line combining T1 and T2 port.

PCM20/06 and PCM20/10 with provision for mounting Pressure reducing valve DPM*06*A-01-*

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 ---- Filter port connection (T1 & T2).
R ---- Outlet connection (reduced pressure).

Polyhydron Pvt. Ltd.
78-80, Machhe Industrial Estate,
Machhe, Belgaum - 590 014, INDIA.

Phone : +91-(0)831-2411001
Fax : +91-(0)831-2411002
E-mail : polyhydron@gmail.com
Website : www.polyhydron.com
Unit dimensions

PCM 20/06 and PCM 20/10 with provision for filter port.

### Port details

<table>
<thead>
<tr>
<th>Port</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP</td>
<td>G1/2</td>
</tr>
<tr>
<td>LP</td>
<td>G1</td>
</tr>
<tr>
<td>P</td>
<td>G1</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>G1/2</td>
</tr>
<tr>
<td>T2</td>
<td>G1</td>
</tr>
<tr>
<td>F</td>
<td>G1</td>
</tr>
</tbody>
</table>

**High pressure pump relief valve pressure adjusting screw**

**Cutout in the mounting plate**

**Low pressure pump unloading valve pressure adjusting screw**

Open this plug to insert orifice in high pr. line (not fixed in the module unless specified) orifice size 1/8" NPT

Solenoid valve for unloading low pr. pump by venting. ( Provision )

Solenoid valve for unloading high pr. pump by venting. ( Provision )

Note: Optional and Solenoid to be ordered separately.
PCM 20/06 and PCM 20/10 with provision for mounting pressure reducing valve DPM*06*A-01-*

Note: Optional and Solenoid to be ordered separately.
Technical specifications

Construction PCM 20/06 and 20/10 ..... Direct acting poppet type high pr. 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>
</tr>
</thead>
<tbody>
<tr>
<td>PCM 20-06</td>
<td>25 l/min</td>
<td>160 l/min</td>
</tr>
<tr>
<td>PCM 20-10</td>
<td>60 l/min</td>
<td>160 l/min</td>
</tr>
</tbody>
</table>

Mass .............................................. 7.5 kg. APPROX.

Ordering code

PCM20 - 10 - 50 - 200 - F - A - B - 41

Pressure Control Module with size 20 unloader valve

High pressure relief valve
Size 06, 10.

Unloader pressure adjustment
spring rating 50, 100 bar.

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

Spool ' D ' Type :

P06793