Gold Series

GDR3

Direct-Acting Relief Valve
50 GPM (200 L/min)
T-3A Cavity

Type
Relieves pressure when valve setting is exceeded.

Operation
This valve is normally closed. When pressure applied at port 1 rises to the valve setting, a poppet is lifted allowing limited flow to tank, port 2. Back pressure at port 2 increases the valve setting directly. Will not allow reverse flow.

Material
All steel construction. Precision ground & hardened parts. Buna-n seals are standard, viton available as an option.

Factory set at
4 gpm 15 L/min

Maximum Pressure
5,000 psi (350 bar)

Nominal Flow
50 gpm (200 L/min)

Maximum Leakage
10 drops/min @ reseat 0.7 cc/min @ reseat

Reseat pressure
>90% of setting

Response Time
2 ms (typical)

Fluid
General hydraulic fluid

Cavity
T-3A

Install Torque
45-50 LB-FT (60 – 70 Nm)

Options

<table>
<thead>
<tr>
<th>GDR3</th>
<th>30</th>
<th>N</th>
<th>XXXX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic cartridge</td>
<td>Adjustment Range</td>
<td>Seals</td>
<td>Factory Setting</td>
</tr>
<tr>
<td>30 - 500 - 3000 psi (std. set 1000 psi)</td>
<td>45 - 800 - 4500 psi (std. set 1000 psi)</td>
<td>N - Buna-n V - Viton</td>
<td>xx-In psi (ie 1000=1000 psi)</td>
</tr>
</tbody>
</table>

Typical Pressure Rise

```
<table>
<thead>
<tr>
<th>Q=psi</th>
<th>1000</th>
<th>2000</th>
<th>3000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q=GPM</td>
<td>0</td>
<td>10</td>
<td>20</td>
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```

```
<table>
<thead>
<tr>
<th>Q=psi</th>
<th>1000</th>
<th>2000</th>
<th>3000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q=bar</td>
<td>0</td>
<td>10</td>
<td>20</td>
</tr>
</tbody>
</table>
```

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