Gold Series
GDR18

Direct-Acting Relief Valve
200 GPM (800 L/min)
T-18A 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
200 gpm (800 L/min)

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

Response time
>90% of setting

Response Time
2 ms (typical)

Fluid
General hydraulic fluid

Cavity
T-18A

Install Torque
350-375 LB-FT (465 – 500 Nm)

Options

<table>
<thead>
<tr>
<th>GDR18</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>N - Buna-n</td>
<td>V - Viton</td>
<td>xx-in psi (ie 1000=1000 psi)</td>
</tr>
<tr>
<td>45 - 800 - 4500 psi (std. set 1000 psi)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Typical Pressure Rise

\[
P = \frac{Q}{500} \\
Q = \text{GPM} \\
P = \text{psi} \\
Q = \text{GPM}
\]

\[
P = \frac{Q}{500} \\
Q = \text{L/min.} \\
P = \text{bar} \\
Q = \text{L/min}
\]