Griffco high flow diaphragm pressure relief valves are designed to protect chemical transfer systems from over pressure damage caused by defective equipment or a blockage in the chemical line. Large orifice sizes facilitate high flows and high viscosity. Wetted materials include PVC, CPVC, PP, PVDF, PTFE, 316SS, A20 and Hast. C. Available sizes: DN 15, DN 20 and DN25.

**Features:**
- High Reliability / Low Cost
- Large Orifice for High Viscosity Fluids
- Higher Flow / Lower Pressure Drop
- Adjustable 1 – 10 Bar
- Ventable to Suction Line
- 2 Port Design
- Vulcanised PTFE/EPDM Diaphragm
- Wide Range of Materials
- ISO 9001 Certified

**Operation:**
Griffco diaphragm pressure relief valves operate when the pressure in a chemical line exceeds the pre-set pressure of the valve. The diaphragm is held against the valve seat by an internal spring. When the pre-set pressure is exceeded the diaphragm is forced up and the chemical flows out the relief port, back to the chemical tank or to the suction side of the pump. The valves are pre-set at 3.5 bar, however they are field adjustable from 1 – 10 bar via the adjustment screw. The relief valve should be set approximately 1 bar higher than the system pressure. Installation should be made as close to the pump as possible, without any valves or accessories between the relief valve and the pump. Consult your pump manufacturer for his recommendations.

**TYPICAL INSTALLATION**
2 PORT RELIEF VALVE

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Bulletin # PRHF1005M-2011
Technical Data:

Model PRHF Sizes: (DN) 15, 20, 25

Connections: ISO Thread, Socket, Union, & Flange

Pressure Adjustment
Standard: 1–10 bar, Optional: 0–3.5 bar, 1–17 bar

Flow Rates (Q) @ 10 bar

<table>
<thead>
<tr>
<th>Size</th>
<th>Pulsating</th>
<th>Continuous</th>
<th>Plastic</th>
<th>Metal / Plastic Top</th>
<th>Metal / Metal Top</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN 15</td>
<td>2271 l/h</td>
<td>6813 l/hr</td>
<td>1.6</td>
<td>2.7</td>
<td>3.2</td>
</tr>
<tr>
<td>DN 20</td>
<td>2271 l/h</td>
<td>6813 l/hr</td>
<td>1.6</td>
<td>2.7</td>
<td>3.2</td>
</tr>
<tr>
<td>DN 25</td>
<td>3785 l/h</td>
<td>12.26 m³/h</td>
<td>3.2</td>
<td>6.5</td>
<td>10.4</td>
</tr>
</tbody>
</table>

Shipping Weight: kgs

Size Pulsating Continuous Plastic Metal / Plastic Top Metal / Metal Top
DN 15 2271 l/h 6813 l/hr 1.6 2.7 3.2
DN 20 2271 l/h 6813 l/hr 1.6 2.7 3.2
DN 25 3785 l/h 12.26 m³/h 3.2 6.5 10.4

Max Temperature: (°C)
PVC: 60°; CPVC & PP: 90°; PTFE, PVDF, & Metal: 150°, (Peak 200°)

Max Operating Pressure (bar) @ 21° C
Plastic/Noryl: 25 bar Metal/Metal: 135 bar

Materials of Construction:

Diaphragm
PTFE / EPDM, Optional: Viton, Hypalon, & PTFE / Viton

Valve Top
Standard: Noryl (DN15 – DN25); Optional: SS

Valve Body
PVC, CPVC, PP, PTFE, PVDF, Halar, 316 SS, A 20, Hast. C

Performance Curve:

Dimensions:

Product Codes For Ordering:

PRHF □□□ □ □ □ □ □ □
1 2 3 4

1 = Size 2 = Material 3 = Spring Opt 4 = Options
050 – DN15 P - PVC 1 - 0 - 3.5 bar V - Viton Diaphragm
075 – DN20 CP - CPVC 2 - 1 - 17 bar S - Socket Connection
100 – DN25 PP - Polypro T - PTFE F - Flange Connection
K - PVDF U - Union Connection
H - Halar B - BSP Connections
S - 316 SS OSS - 316 SS Top
A - Alloy 20 AR – Priming Valve
C - Hastalloy C

For more detailed information visit us at www.griffcovalve.com

Email: sales@griffcovalve.com