**HIGH FLOW SERIES**

**BACK PRESSURE VALVES**

**Features:**
- NEW Molded Noryl Top
- High Reliability / Low Cost
- Molded PTFE/EPDM Diaphragm
- Adjustable 1 – 10 Bar
- Optional Pressure Rated Valves
- Anti-Siphon Function
- Robust, Machined Construction
- Tamper Resistant Adjustment Screw
- Wide Range of Materials
- ISO 9001 Certified

**Operation:**
Griffco diaphragm back pressure valves apply positive discharge pressure to a metering pump system to prevent siphoning and eliminate varying dosage rates caused by fluctuating downstream pressure. The diaphragm is held against the valve seat by an internal spring. When the preset pressure is exceeded, the diaphragm is forced up and chemical flows through the valve to the injection point. The valves are preset for 3.5 bar, however they are field adjustable from 1 – 10 bar via the adjustment screw. Installation should be as close to the injection point as possible to prevent chemical line drainage and it is most important that all chemical system equipment such as pulsation dampeners and pressure gauges are between the pump and back pressure valve.

**TYPICAL INSTALLATION**

[Diagram showing typical installation of a Griffco back pressure valve system, including chemical container, injection valve, shut off valve, drain valve, y-strainer, pulsation dampener, chemical feed pump, Griffco pressure relief valve, Griffco calibration cylinder, and pressure gauge.]

Griffco high flow diaphragm back pressure valves are designed to enhance the performance of higher flow, continuous feed pumps that require a constant head pressure, while also acting as an anti-syphon valve. Larger orifice sizes make the valve ideal for use with higher viscosity fluids. Wetted materials include: PVC, CPVC, PP, PVDF, PTFE, 316 SS, A 20 and Hast. C. Available in DN15, DN20, DN25.
Technical Data:

Model BPHF 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>3765 l/h</td>
<td>12.26 m³/h</td>
<td>3.2</td>
<td>6.5</td>
<td>10.4</td>
</tr>
</tbody>
</table>

Flow Rates (Q) @ 10 bar

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:

BPHF □□□ □□□

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 F - Flange Connection
T - PTFE U - Union Connection
K - PVDF B - BSP Connections
H - Halar OSS - 316 SS Top
S - 316 SS AR – Priming Valve
A - Alloy 20
C - Hastalloy C

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

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