



**Griffco Valve Inc.**

6010 North Bailey Ave, Ste 1B

Amherst, NY 14226

Phone: 1 800-474-3326

Fax: 1 716-835-0893

# HIGH FLOW SERIES BACK PRESSURE VALVES



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 1/2", 3/4" and 1" sizes.

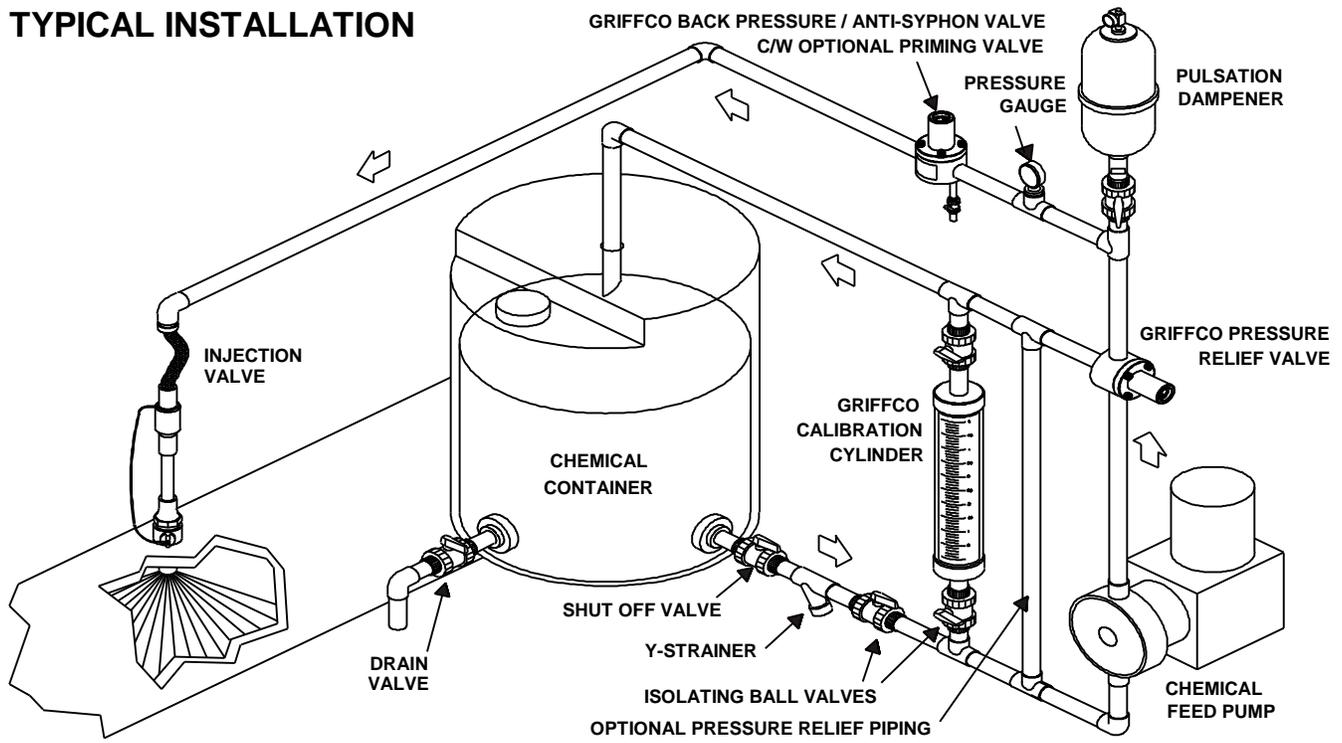
## Features:

- ✂ High Reliability / Low Cost
- ✂ Large Orifice for High Viscosity Fluids
- ✂ Higher Flow / Lower Pressure Drop
- ✂ Adjustable 10 - 150 PSI
- ✂ Anti-Siphon Function
- ✂ Robust, Machined Construction
- ✂ Vulcanised PTFE/EPDM Diaphragm
- ✂ Wide Range of Materials

## Operation:

Griffco diaphragm back pressure valves apply positive discharge pressure to any 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 50 psi, however they are field adjustable from 10 - 150 psi 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



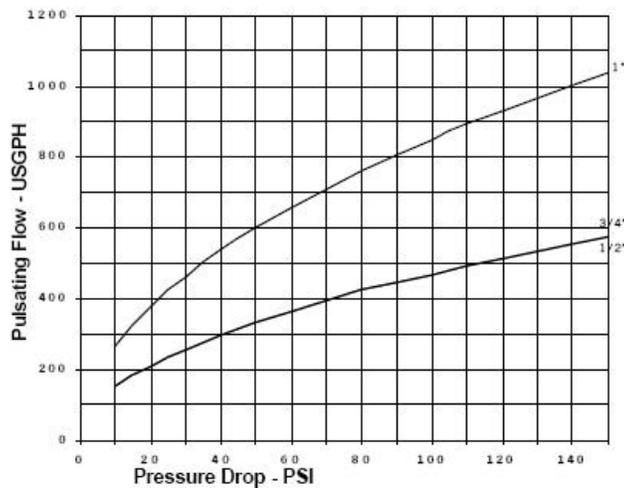
CALL 1 - 800 - GRIFFCO

Bulletin # BPV1005-2002

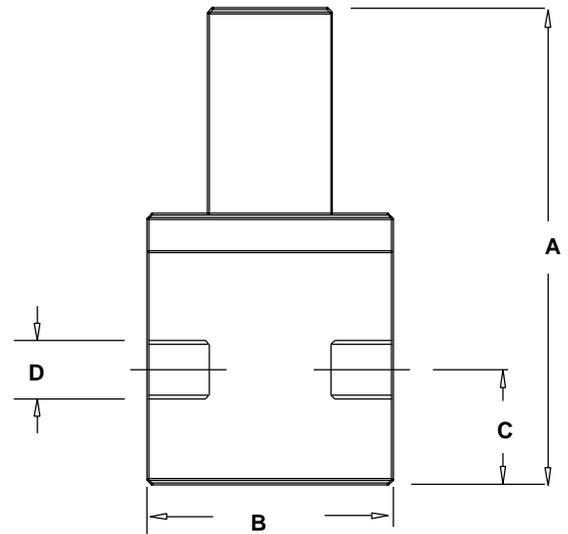
## Technical Data:

<b>Sizes:</b> Model BPHF		1/2", 3/4", 1"			
<b>Connections:</b>		NPT, Socket & Flange			
<b>Pressure Adjustment</b>		10 - 50 psi, 10 - 150 psi			
<b>Flow Rates @ 150 psi</b>		<b>Shipping Weight: lbs</b>			
<b>Size</b>	<b>Pulsating</b>	<b>Continuous</b>	<b>Plastic</b>	<b>Metal / Plastic Top</b>	<b>Metal / Metal Top</b>
1/2"	600 USgph	30 USgpm	3.5	6.0	7.0
3/4"	600 USgph	30 USgpm	3.5	6.0	7.0
1"	1000 USgph	54 USgpm	7.0	14.0	23.0
<b>Max Temperature: (°F)</b>		Plastic: 140° ; Metal: 300°, (Peak Short Term 390°)			
<b>Materials of Construction:</b>					
<b>Diaphragm</b>		PTFE / EPDM, Optional: Viton & PTFE / Viton			
<b>Valve Top</b>		Standard: PVC Optional: CPVC, Steel, 316 SS			
<b>Valve Body</b>		PVC, CPVC, PP, PTFE, PVDF, 316 SS, A 20, Hast. C, Others on Request			

## Performance Curves



## Dimensions:



## Product Codes For Ordering:

BPHF

??? ? ?

1 2 3

**1 = Size**

**2 = Material**

**3 = Options**

050 - 1/2"

P - PVC

V - Viton Diaphragm

075 - 3/4"

CP - CPVC

S - Socket Connections

100 - 1" PP - Polypro

F - Flanged Connections

T - PTFE

OS - Optional Steel Top

K - PVDF

OSS - Optional 316 SS Top

S - 316 SS

MS - 50 - 350 psi; Steel Top

A - Alloy 20

MSS - 50 - 350 psi; 316 SS Top

C - Hastalloy C

AR - Optional Priming Valve

D	A	B	C
1/2"	5.90	3.5	1.25
3/4"	5.90	3.5	1.25
1"	7.25	4.5	1.875