

**Griffco Valve Inc.** 188 Creekside Dr. Amherst, NY 14228 Phone: 1 716 835-0891 Fax: 1 716 835-0893



**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**, **316 SS**, **A 20 and Hast**. **C**. Available in  $1/2^{\circ} - 2^{\circ}$  sizes.

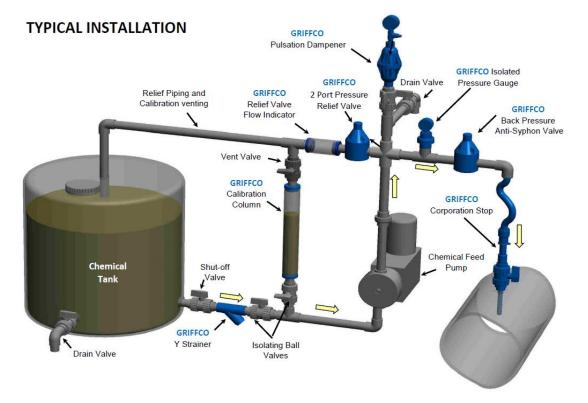
# HIGH FLOW SERIES PRESSURE RELIEF VALVES

#### Features:

- High Reliability / Low Cost
- Large Orifice for High Viscosity Fluids
- Higher Flow / Lower Pressure Drop
- Adjustable 10 150 psi
- Vent able to Suction Line
- 2 Port Design
- Vulcanised PTFE/EPDM Diaphragm
- Wide Range of Materials

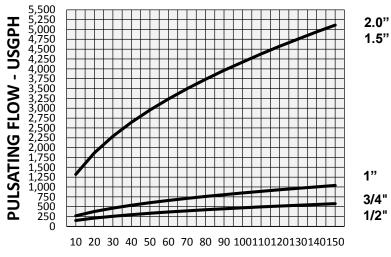
#### **Operation:**

**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 chemical flows out the relief port back to the chemical feed tank or to the suction side of the pump. The valves are pre-set for 50 psi, however they are field adjustable from 10 - 150 psi via the adjustment screw. The relief valve should be set approximately 15 psi higher than the system pressure. Installation should be as close to the pump as possible, without any valves or accessories between the relief valve and the pump. Consult the pump manufacturer for their recommendations.



Sizes: Model BPHF Connections: Pressure Adjustment			1/2", 3/4", 1", 1 /12" & 2" NPT, Socket, Union & Flange Standard: 10 - 150 psi, Optional: 0 - 50 psi, 10 - 250 psi										
							Flow Rates @	2 150 psi		Shipping Weight: Ibs	Shipping Weight: Ibs		
							Size	Pulsating	Continuous	Plastic	Metal / Plastic Top	Metal / Metal Top	
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								
1 1/2"	5157 USgph	270 USgpm	10.00	35.00	45.00								
2"	5157 USgph	270 USgpm	10.00	35.00	45.00								
Max Temperature: (°F)			PVC: 140°; CPVC & PP: 195°; PVDF, PTFE and all Metal: 300°, (Peak 390°)										
Materials of	Construction:												
Diaphragm			PTFE / EPDM, Optional: Viton & PTFE / Viton										
Valve Top			Standard: Noryl Optional: 316 SS										
Valve Body			PVC, CPVC, PP, PTFE, PVDF, 316 SS, A 20, Hast. C, Others on Request										

#### **Performance Curves**

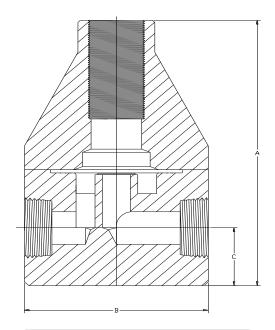


**PRESSURE - PSI** 

## **Product Codes For Ordering:**

BPHF [					
	1	2	3	4	
<b>1 = Size</b> 050 - 1/2" 075 - 3/4" 100 - 1" 150 - 1 ½" 200 - 2"	<b>2 = Mat</b> P – PVC CP - CPV PP - Poly T - PTFE K - PVDF H - Halar S - 316 S A - Alloy 2 C - Hasta	/C pro : S 20	Blank – 1 –	<b>Dring Opt</b> 10 – 150 psi 0- 50 psi 10 - 250 psi	<b>4 = Options</b> V - Viton Diaphragm S - Socket Connection F - Flange Connection U - Union Connection B - BSP Connections OSS - 316 SS Top AR – Priming Valve

### **Dimensions:**



DIMENSIONS: BPHF-SERIES							
All Materials							
Size	A(in)	B(in)	C(in)				
1/2"	5.560	3.500	1.125				
3/4"	5.560	3.500	1.125				
1"	7.250	4.900	1.250				
1 1/2"	9.850	5.950	2.150				
2"	9.850	5.950	2.150				