



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" – 2" sizes.

- **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**

Griffo 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.

TYPICAL INSTALLATION

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Chemical Tank

Drain Valve

GRIFCO Y Strainer

Shut-off Valve

GRIFCO Calibration Column

Vent Valve

GRIFCO Relief Valve Flow Indicator

GRIFCO Pulsation Dampener

GRIFCO 2 Port Pressure Relief Valve

GRIFCO Isolated Pressure Gauge

GRIFCO Back Pressure Anti-Syphon Valve

GRIFCO Corporation Stop

Chemical Feed Pump

Isolating Ball Valves

Relief Piping and Calibration venting

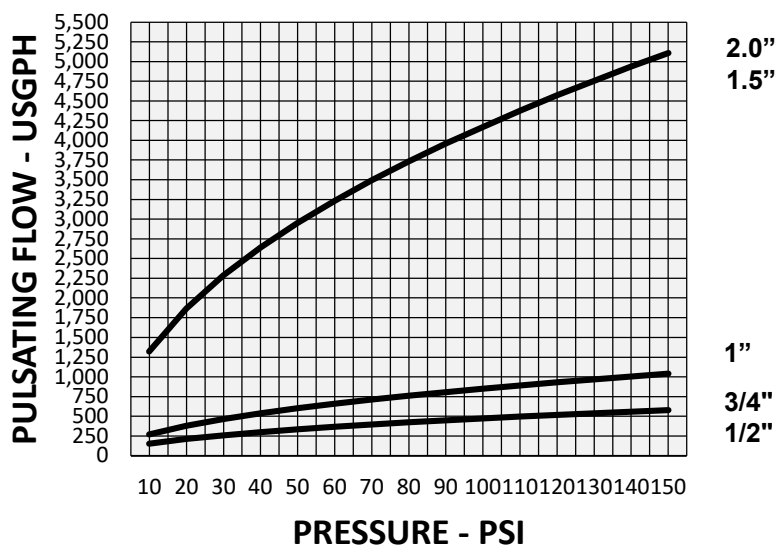
GRIFCO Isolated Pressure Gauge

GRIFCO Back Pressure Anti-Syphon Valve

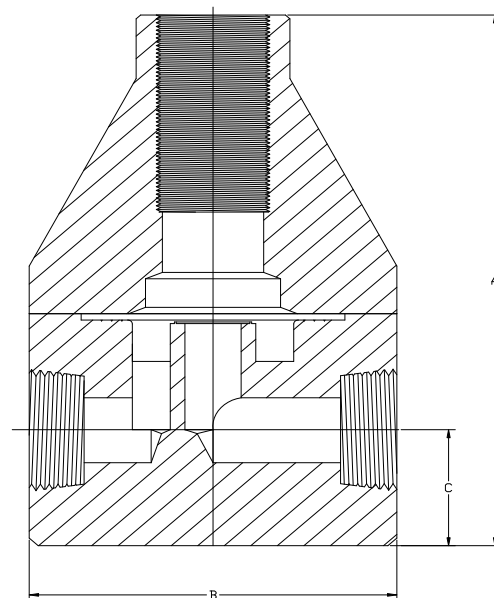
Technical Data:

Sizes: Model BPHF			1/2", 3/4", 1", 1 1/2" & 2"		
Connections:			NPT, Socket, Union & Flange		
Pressure Adjustment			Standard: 10 - 150 psi, Optional: 0 - 50 psi, 10 - 250 psi		
Flow Rates @ 150 psi			Shipping Weight: lbs		
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



Dimensions:



Product Codes For Ordering:

BPHF ☐ ☐ ☐ ☐ ☐

1 2 3 4

1 = Size 050 - 1/2" 075 - 3/4" 105 - 1" 150 - 1 1/2" 200 - 2"

2 = Material P - PVC CP - CPVC PP - Polypro T - PTFE K - PVDF H - Halar S - 316 SS A - Alloy 20 C - Hastalloy C

3 = Spring Opt Blank - 10 - 150 psi 1 - 0- 50 psi 2 - 10 - 250 psi

4 = Options V - Viton Diaphragm S - Socket Connection F - Flange Connection U - Union Connection B - BSP Connections OSS - 316 SS Top AR - Priming Valve

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

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