## Griffco Valve Inc.



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**Griffco G-Series** diaphragm back pressure valves are designed to enhance the performance of chemical feed systems by applying a continuous back pressure to the chemical feed pump, while also acting as an anti-syphon valve. Robust construction ensures reliability in the rigorous service of municipal and industrial applications. Wetted materials include: PVC, CPVC, PP, PVDF, PTFE, Halar, 316 SS, A20 and Hast. C. Available sizes: 1/2" – 4".

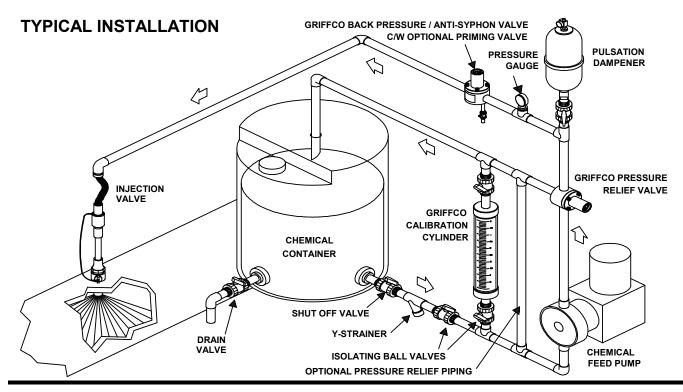
# G-SERIES BACK PRESSURE VALVES

## Features:

- Molded Noryl Top
- High Reliability/Low Cost
- Molded PTFE/EPDM Diaphragm
- Adjustable Relief Settings
- Optional Pressure Rated Valves
- Anti-Siphon Function
- Robust, Machined Construction
- Tamper Resistant Adjustment Screw
- Wide Range of Materials

# **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 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.



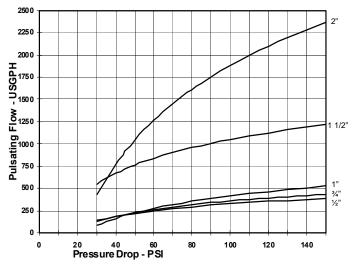
CALL 1 - 800 - GRIFFCO

## **Technical Data:**

Model BPG Sizes			1/2", 3/4", 1", 1 1/2", 2", 3", 4"				
Connections: Pressure Adjustment Flow Rates @ 150 psi			NPT, Socket, Union, Flange Standard: 10 - 150 psi; Optional: 0 – 50 psi, 10 – 250 psi, 50 - 350 psi *Note: Size 1 1/2" and Larger BPG valves 10 – 250 psi Max range ONLY.				
			Size	Pulsating	Continuous	Plastic	Metal / Plastic Top
1/2" 3/4" 1"	300 USgph 300 USgph 500 USgph	21 USgpm 21 USgpm 26 USgpm	3.0 3.0 3.5	5.5 5.5 6.0	6.5 6.5 7.0		
1 1/2" 2" 3" 4"	1200 USgph 2350 USgph 5200 USgph 5200 USgph	63 USgpm 120 USgpm 270 USgpm 270 USgpm	9.0 9.0 28.0 30.0	18.5 20.0	26.0 30.0		
Max Tempera			PVC: 140° ; CPVC & PP:	195°; PTFE, PVDF & Metal:	300°, (Peak 390°)		
Max Operating Pressure(psi) @ 70 Deg. F			Plastic/Noryl: 375 psi	Metal/Metal: 2	etal/Metal: 2000 psi		
Materials of	Construction:						
Diaphragm			PTFE / EPDM, Optional: Viton, Hypalon, & PTFE / Viton				
Valve Top			Standard: 1/2" – 2" Noryl 3" & 4" PVC Optional: 316 SS				
Valve Body			PVC, CPVC, PP, PTFE, PVDF, Halar, 316 SS, A 20, Hast. C				
Dorforman	CO CURVOS: (3" & A" C		et) Dimensio	25:			

Performance Curves: (3" & 4" curves on request)

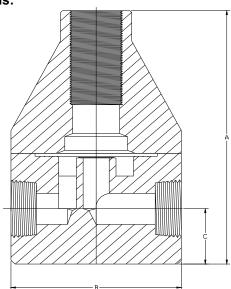
Dimensions:



### Product Codes For Ordering Back Pressure Valves:

BPG 🗌					
	1	2	3	4	
<b>1 = Size</b> 050 - 1/2" 075 - 3/4" 100 - 1" 155 - 1 1/2" 200 - 2" 300 - 3" 400 - 4"	<b>2 = Mat</b> P - PVC CP - CP' PP - Poly T - PTFE K - PVDI H - Hala S - 316 S A - Alloy C - Hast	ypro F SS 20	Blank 1 - 0 2 - 10 <i>For 50</i>	<b>Spring Opt</b> - 10-150 psi - 50 psi - 250 psi - 250 psi use option MSS"	<b>4 = Options</b> Blank - NPT Threaded V - Viton Diaphragm TV - PTFE/Viton Diaph. S - Socket Connection F - Flange Connection U - Union Connection OSS - 316 SS Top MSS - 50 - 350 psi AR - Priming Valve 90 - 90° Configuration

Note: Option MSS only for use with 316SS, A20 & Hast C. valves.



DIMENSIONS: BPG - Series								
All Materials								
Size	A (in.)	B (in.)	C (in.)	Orifice (in.)				
1/2"	5.560	3.500	1.125	0.375				
3/4"	5.560	3.500	1.125	0.375				
1"	5.860	3.500	1.250	0.437				
1.5"	8.350	4.90	1.825	0.750				
2"	8.900	4.90	2.150	0.875				
3" *	11.25	15.0 *	3.0	1.500				
4" *	11.25	15.0 *	3.0	1.500				

\* Note 3"&4" are flanged only

### Email: sales@griffcovalve.com