



Griffco Valve Inc.
 6010 N. Bailey Ave., Ste 1B
 Amherst, NY 14226 USA
 Phone: +1 716 835-0891
 Fax: +1 716 835-0893
sales@griffcovalve.com
www.griffcovalve.com

G - SERIES BACK PRESSURE VALVE

Features:

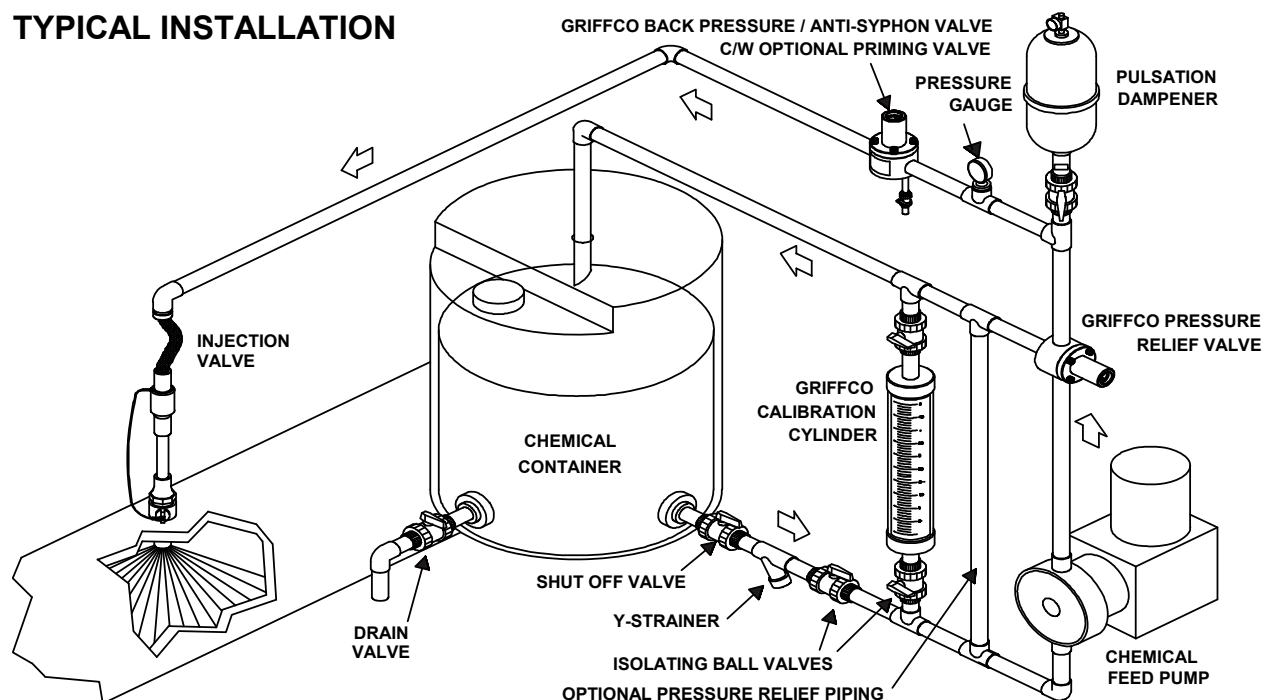
- Molded Noryl Top
- High Reliability / Low Cost
- Molded PTFE/EPDM Diaphragm
- Adjustable Relief Settings
- Optional Pressure Ratings
- Anti-Siphon Function
- Robust, Machined Construction
- Tamper Resistant Adjustment Screw
- Wide Range of Materials
- ISO 9001 Certified

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 (50psi), however they are field adjustable from 1 – 10 bar (10-150psi) 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.

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-siphon 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: DN15 – DN100 (1/2" to 4").

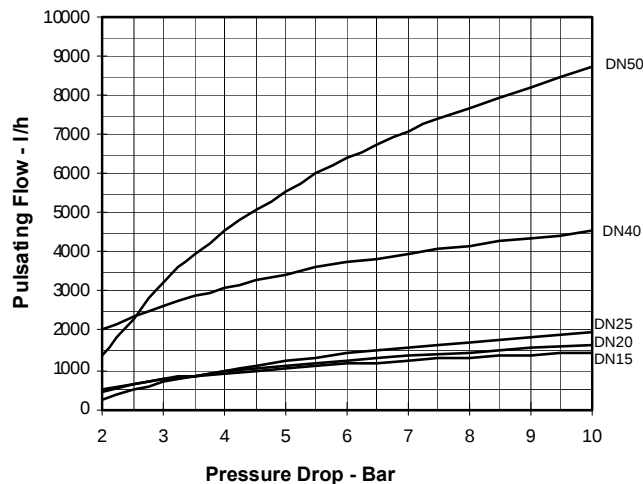
TYPICAL INSTALLATION



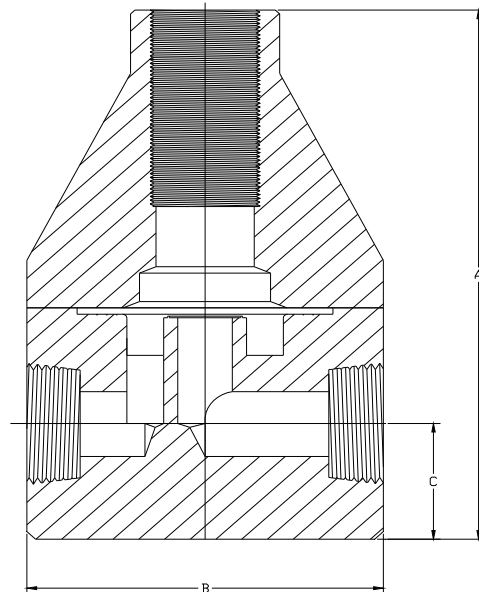
Technical Data:

Model BPG Sizes: Metric or Imperial				DN15, 20, 25, 40, 50, 80, 100 or 1/2", 3/4", 1", 1.5", 2", 3", 4"		
Connections: Metric or Imperial				Standard Threaded, Socket, Union, & Flange		
Pressure Adjustment				Standard: 1–10 bar (10-150 psi), Optional: 0–3.5 bar (0-50 psi), 1–17 bar (10-250 psi), 3.5 – 25 bar (50-350 psi) <i>*NOTE: Size DN 40 (1.5") and larger valves; MAX RANGE 1 – 17 bar (10-250 psi)</i>		
Flow Rates @ 10 bar (150 PSI)				Shipping Weight: kgs (lbs)		
Sizes		Pulsating l/h (gph)	Continuous m³h (gpm)	Plastic	Metal / Plastic Top	Metal / Metal Top
1/2"	DN 15	1135 (300)	4.77 (21)	1.4 (3.0)	2.5 (5.5)	3.0 (6.5)
3/4"	DN 20	1135 (300)	4.77 (21)	1.4 (3.0)	2.5 (5.5)	3.0 (6.5)
1"	DN 25	1890 (500)	5.9 (26)	1.6 (3.5)	2.7 (6.0)	3.2 (7.0)
1.5"	DN 40	4542 (1200)	14.3 (63)	4.0 (9.0)	8.0 (18.5)	12.5 (26.0)
2"	DN 50	5803 (1533)	28.4 (120)	4.0 (9.0)	9.0 (20.0)	13.6 (30.0)
3"	DN 80	19600 (5200)	61.2 (270)	12.7 (28.0)		
4"	DN 100	19600 (5200)	61.2 (270)	13.6 (30.0)		
Max Temperature: °C (°F)				PVC: 60° (140°); CPVC & PP: 90° (195°); PTFE, PVDF, & Metal: 150°(300°), Peak 200° (390°)		
Max Operating Pressure @ 21° C (70°F)				Plastic/Noryl: 25 bar (375 psi)		Metal/Metal: 135 bar (2000 psi)
Materials of Construction:						
Diaphragm				PTFE / EPDM, Optional: Viton, Hypalon, & PTFE / Viton		
Valve Top				Standard: Noryl (DN15 – DN50); PVC (DN80 – DN100) Optional: 316 SS		
Valve Body				PVC, CPVC, PP, PTFE, PVDF, Halar, 316 SS, A 20, Hast. C		

Performance Curves: 3" & 4", DN 80 & DN100 curves on request



Dimensions:



Product Codes For Ordering Back Pressure Valves:

BPG ☐ ☐ ☐ ☐ ☐
1 2 3 4

1 = Size

050 – 1/2", DN15
075 – 3/4", DN20
100 – 1", DN25
155 – 1.5", DN40
200 – 2", DN50
300 – 3", DN80
400 – 4", DN100

2 = Material

P - PVC
CP - CPVC
PP - Polyprop
T - PTFE
K - PVDF
H - Halar
S - 316SS
A - Alloy 20
C - Hastelloy C

3 = Spring bar (psi)

Blank 1-10 (10-150)
1 - 0 – 3.5 (0-50)
2 - 1 – 17 (10-250)
For 3.5 - 25 (50-350)
spring use option
code "MSS"

4 = Options

Blank - NPT & PTFE/EPDM
V - Viton Diaphragm
TV - PTFE/Viton Diaph.
B - BSPT Threads
S - Socket Connection
SD - Metric Socket
F - Flange Connection
FD - Metric Flanged
U - Union Connection
UD - Metric Union
OSS - 316 SS Top
MSS - 3.5-25bars (50-350psi)
AR - Priming Valve
90 - 90° Configuration

DIMENSIONS: BPG - Series

All Materials

Size	A – cm (in.)	B – cm (in.)	C – cm (in.)	Orifice cm (in.)
1/2", DN15	14.12 (5.560)	8.90 (3.500)	2.86 (1.125)	0.952 (0.375)
3/4", DN20	14.12 (5.560)	8.90 (3.500)	2.86 (1.125)	0.952 (0.375)
1", DN25	14.88 (5.860)	8.90 (3.500)	3.12 (1.250)	1.110 (0.437)
1.5", DN40	21.21 (8.350)	12.45 (4.90)	4.64 (1.825)	1.905 (0.750)
2", DN50	22.60 (8.900)	12.45 (4.90)	5.46 (2.150)	2.222 (0.875)
3", DN80*	29.85 (11.25)	38.01 (15.0)	7.62 (3.0)	3.810 (1.500)
4", DN100*	29.85 (11.25)	38.01 (15.0)	7.62 (3.0)	3.810 (1.500)

* Note DN80 & DN100, 3" & 4" are flanged only

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

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