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G - SERIES PRESSURE RELIEF VALVE

Features:

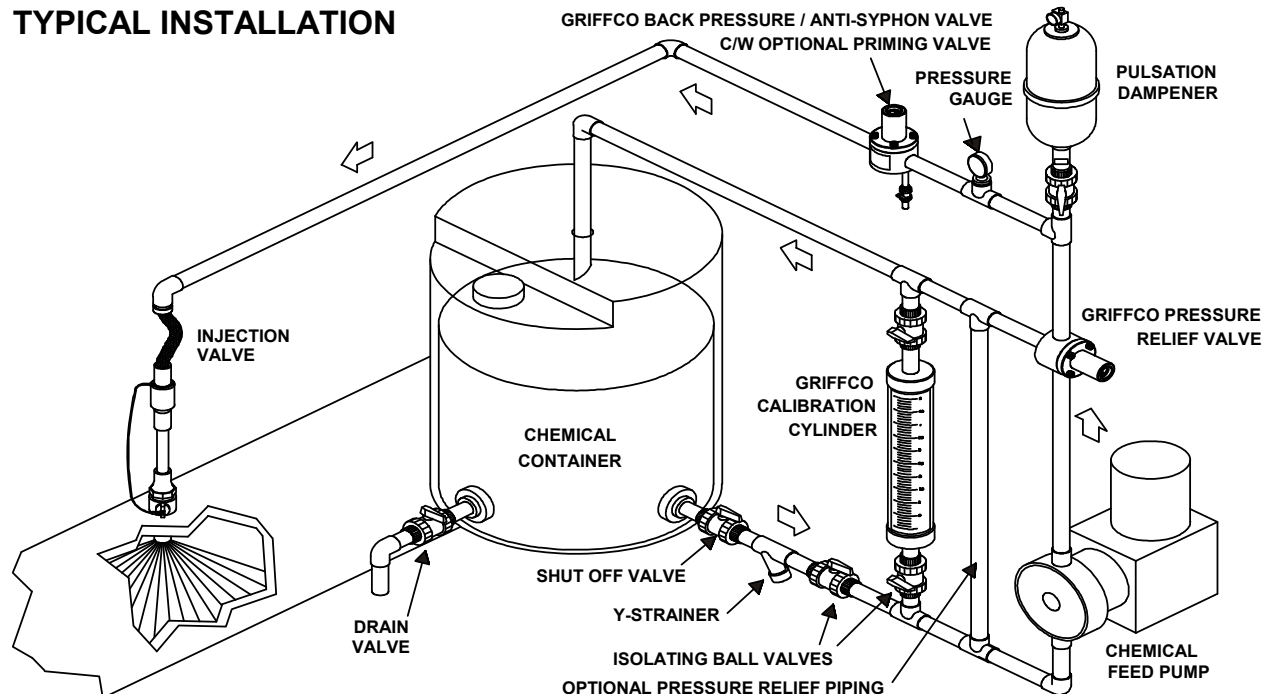
- Molded Noryl Top
- High Reliability / Low Cost
- Molded PTFE/EPDM Diaphragm
- Adjustable Relief Settings
- Optional Pressure Ratings
- 2 & 3 Port Configurations
- Ventable to Suction Line
- Robust, Machined Construction
- Tamper Resistant Adjustment Screw
- Wide Range of Materials
- ISO 9001 Certified

Operation:

Griffco diaphragm pressure relief valves operate when the pressure in the chemical system exceeds the preset pressure of the valve. The diaphragm is held against the valve seat by an internal spring. When the preset pressure is exceeded the diaphragm is forced up and the chemical flows out the relief port, back to the chemical tank or to the suction side of the pump. The valves are pre-set at 3.5 bar (50 psi), however they are field adjustable from 1 - 10 bar (10-150 psi), [up to 25 bar (350psi)] via the adjustment screw. The relief valve should be set approximately 1 bar (15psi) higher than the system pressure. Installation should be made as close to the pump as possible, without any valves or accessories between the relief valve and the pump. Consult your pump manufacturer for their recommendations

Griffco G-Series diaphragm pressure relief valves are designed to protect chemical feed systems from over pressure damage caused by defective equipment or a blockage in the chemical feed line. 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 Hastalloy C.** Available sizes: DN15 – DN 100

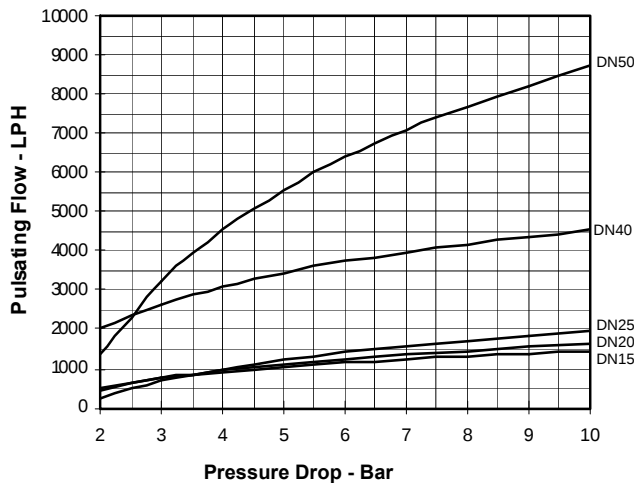
TYPICAL INSTALLATION



Technical Data:

Model PRG 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 (10-150psi), Optional: 0–3.5 bar (0-50psi), 1–17 bar (10-250psi), 3.5 – 25 bar (50-350psi) <i>*NOTE: Size DN 40 (1.5") and larger valves; MAX RANGE 1 – 17 bar (10-250psi)</i>			
Flow Rates @ 10 bar			Shipping Weight: kgs (lbs)			
Sizes		Pulsating l/h (gph)	Continuous m³h (gpm)	Plastic	Metal / Plastic Top	Metal / Metal Top
1/2" DN 15	(2 port only) ↓	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		8892 (2350)	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 (375psi)		Max Operating Pressure @ 21° C (70°F)	
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 & 100 curves on request)



Product Codes For Ordering Pressure Relief Valves:

PRG ☐ ☐ ☐ ☐ ☐ ☐
 PRG2 (2 Port) 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 - Polypro
 T - PTFE
 K - PVDF
 H - Halar
 S - 316SSL
 A - Alloy 20
 C - Hastelloy C

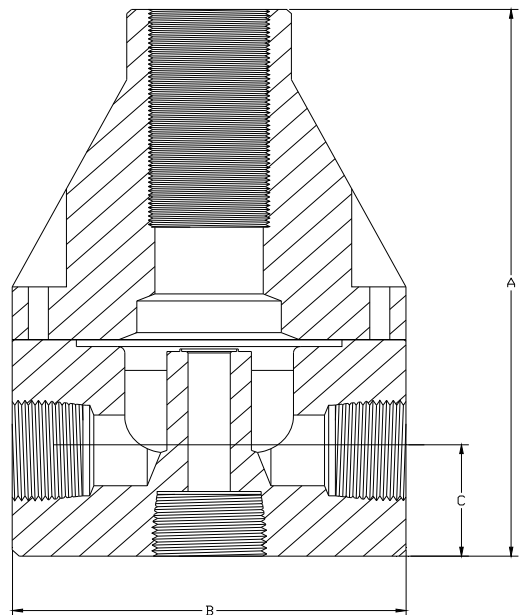
3 = Spring bar (psi)

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 (50-350ps)
 AR - Priming Valve
 90 - 90° Configuration

Dimensions:



DIMENSIONS: PRG - Series

All Materials (1.5" and larger are 2 port only, no bottom port)

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: For Optional 2-Port pressure relief valve put "2" after PRG
 Note: Option MSS only for use with 316SS, A20 & Hast C. valves.
 Note: 1.5" and larger are 2 port only, there is no bottom port.

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

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