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# G - SERIES PRESSURE RELIEF VALVE



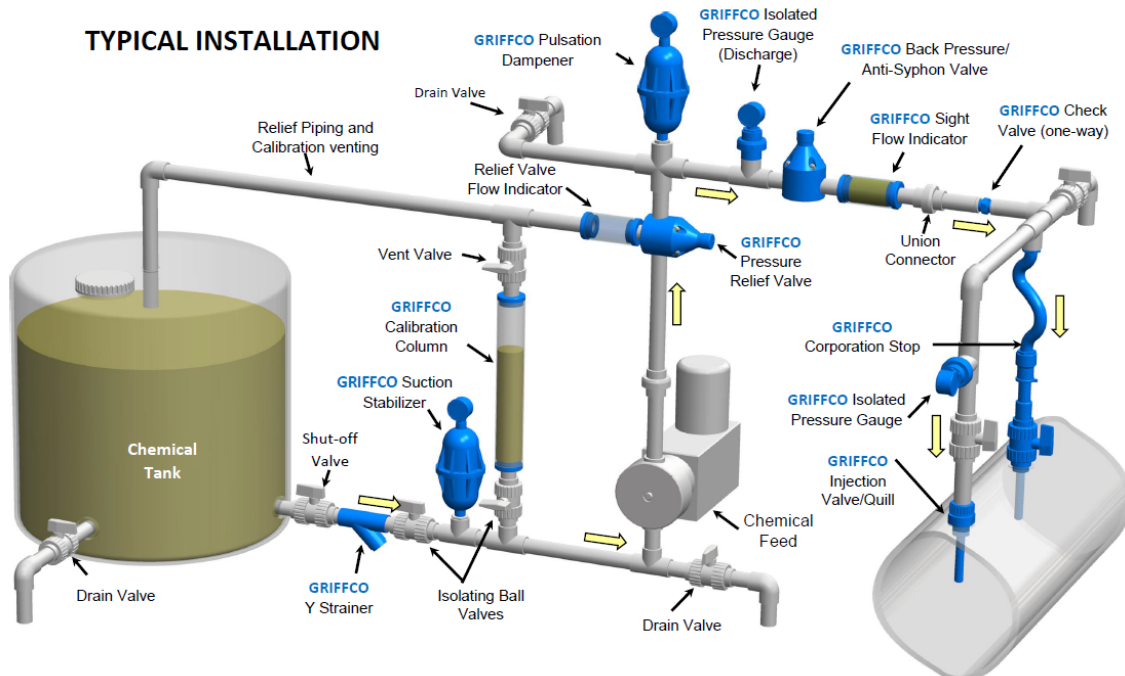
**Griffco G-Series** diaphragm pressure relief valves are designed to protect chemical feed systems from over pressure damage caused by defective equipment or a blockage in the chemical feed line. Robust construction ensures reliability in the rigorous service of municipal and industrial applications. Wetted materials include: **PVC, CPVC, PP, PVDF, PTFE, Halar, 316 SS, A20 and Hastalloy C.** Available sizes: 1/2" - 4".

## Features:

- Molded Noryl Top
- High Reliability / Low Cost
- Molded PTFE/EPDM Diaphragm
- Adjustable 10 - 150 PSI
- Optional: Other PSI Rated Valves
- 2 & 3 Port Configurations
- Ventable to Suction Line
- Robust, Machined Construction
- Wide Range of Materials

## 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 50 psi, however they are field adjustable from 10 - 150 psi, (up to 350 psi) via the adjustment screw. The relief valve should be set approximately 15 psi 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.

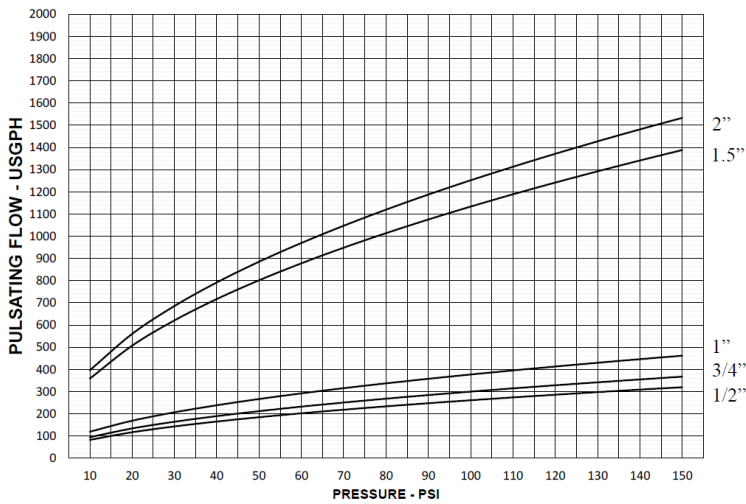


## Technical Data:

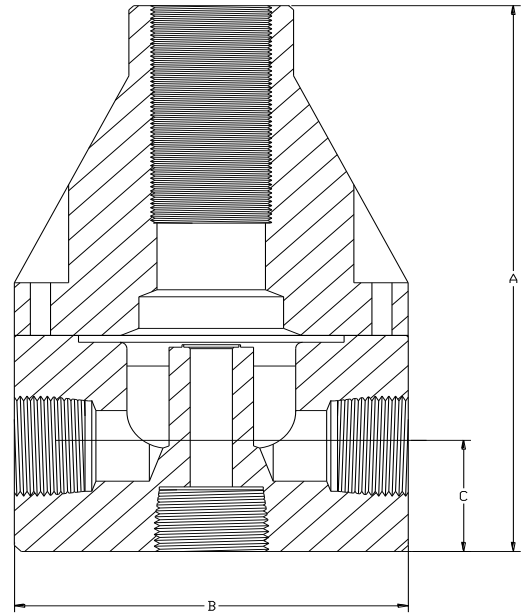
<b>Model PRG Sizes: PRG, PRG2 (2 port)</b>		<b>1/2", 3/4", 1", 1 1/2", 2", 3", 4"</b>			
<b>Connections:</b>		<b>NPT, Socket, Union, &amp; Flange</b>			
<b>Pressure Adjustment</b>		<b>Standard: 10 - 150 psi, Optional: 0 - 50 psi, 10 - 250 psi, 50 - 350 psi</b> <b>*Note: Size 1 1/2" and larger PRG valves 10 - 250 psi Max range ONLY.</b>			
<b>Flow Rates @ 150 psi</b>		<b>Shipping Weight: lbs</b>			
<b>Size</b>	<b>Pulsating</b>	<b>Continuous</b>	<b>Plastic</b>	<b>Metal / Plastic Top</b>	<b>Metal / Metal Top</b>
1/2"	320 USgph	16.7 USgpm	3.0	5.5	6.5
3/4"	367 USgph	19.2 USgpm	3.0	5.5	7.0
1"	462 USgph	24.2 USgpm	3.5	6.0	7.0
1 1/2" (2 port only)	1388 USgph	72.7 USgpm	7.0	14.0	23.0
2"	1533 USgph	80.3 USgpm	9.0	20.0	30.0
3"	5157 USgph	270 USgpm	28.0		
4"	5157 USgph	270 USgpm	30.0		
<b>Max Temperature: (°F)</b>		<b>PVC: 140° ; CPVC &amp; PP: 195°; PTFE, PVDF, &amp; Metal: 300°, (Peak 390°)</b>			
<b>Max Operating Pressure (psi) @ 70 deg. F</b>		<b>Plastic/Noryl: 375 psi</b>		<b>Metal/Metal: 2000 psi</b>	
<b>Materials of Construction:</b>					
<b>Diaphragm</b>		<b>PTFE / EPDM, Optional: Viton, Hypalon, &amp; PTFE / Viton</b>			
<b>Valve Top</b>		<b>Standard: Noryl (1/2" - 2") PVC (3" &amp; 4") Optional: 316 SS L</b>			
<b>Valve Body</b>		<b>PVC, CPVC, PP, PTFE, PVDF, Halar, 316 SS L, A 20, Hast. C</b>			

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

Performance Curves - Pulsating Flow



## Dimensions:



## Product Codes For Ordering Pressure Relief Valves:

PRG, PRG2 (2 port) or

1 2 3 4

**1 = Size**   **2 = Material**   **3 = Spring Opt**   **4 = Options**

050 - 1/2"   P - PVC   Blank - 10-150 psi   Blank - NPT Threaded  
 075 - 3/4"   CP - CPVC   1 - 0 - 50 psi   V - Viton Diaphragm  
 100 - 1"   PP - Polypro   2 - 10 - 250 psi   TV - PTFE/Viton Diaph.  
 155 - 1 1/2"   T - PTFE   *For 50-350 psi*   S - Socket Connection  
 200 - 2"   K - PVDF   *spring use option*   F - Flange Connection  
 300 - 3"   H - Halar   *code "MSS"*   U - Union Connection  
 400 - 4"   S - 316 SS   OSS - 316 SS Top  
                   A - Alloy 20   MSS - 50 - 350 psi  
                   C - Hastelloy C   AR - Priming Valve  
   90 - 90° Configuration

## DIMENSIONS: PRG - Series

All Materials (See Note below for 4" PVC & CPVC)

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: 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 3"&4" are flanged only. \*\*Dim B on 4" PVC & CPVC is 17"