



Griffco Valve Inc.

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PRS Series Relief Valve with Pressure Switch



Features:

- Integrated Into Pressure Relief Valve
- Adjustable Pressure Setting
- Isolation Chamber To Protect Switch
- SPST Switch 100 VA Max
- Robust, Machined Construction
- Switch Isolator Filling Port
- Wide Range of Materials
- Optional Gauge Port

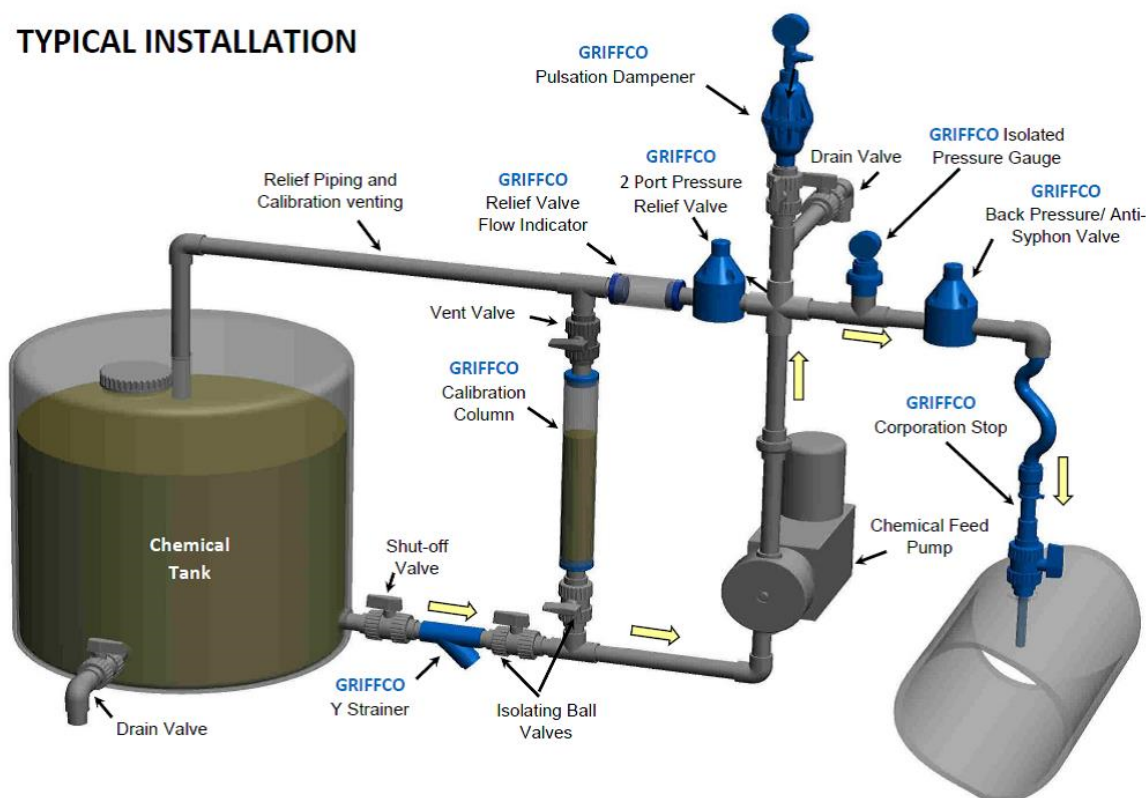
Operation:

The Griffco Pressure Relief Valve with Pressure Switch is installed in an integrated instrument isolator mounted to the bottom of the relief valve. When the pressure relief valve relieves the overpressure, the pressure is transmitted through the isolating diaphragm to the switch. The switch changes condition and an alarm signal is triggered. Once the alarm condition is corrected the switch returns to its original position.

Griffco's Pressure Relief Valve with Pressure Switch is designed to protect chemical feed pumps and systems by sending an alarm signal to a control station or panel. The signal is to alert personnel that there is a problem in the chemical feed system and that the relief valve is open.

The switch has an adjustable set point and multiple customer selected ranges. Switch housings are available in zinc plated steel or optional 316L SS. A convenient fill port on the side of the instrument isolator is provided.

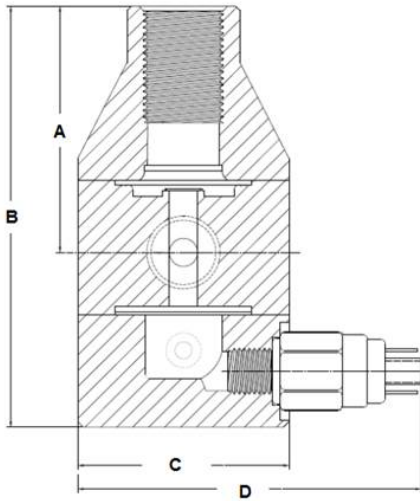
TYPICAL INSTALLATION



Technical Data:

Sizes:				M-Series - 1/4", 3/8", 1/2" and G-Series - 1/2", 3/4", 1"			
Connections:				NPT, BSPT, Socket, Union			
Pressure Relief Valve Adjustment				Standard: 10 - 150 psi (.7 - 10 Bar); Optional: 0 - 50 psi (0- 4 Bar)			
Pressure Switch Range				Standard: 15 - 60 psi (1 - 4 Bar); Optional: 40 - 150 psi (3 - 10 Bar)			
Switch Rating				100 VA max. Normally Open Contact			
M-Series Flow Rates @ 150 psi		Shipping Weight: lbs		G-Series Flow Rates @ 150 psi		Shipping Weight: lbs	
Size	Pulsating	Continuous		Size	Pulsating	Continuous	
1/4"	100 USgph	5 USgpm	2.0	1/2"	320 USgpmh	16.7 USgpm	3.0
3/8"	200 USgph	10 USgpm	2.0	3/4"	367 USgpm	19.2 USgpm	3.0
1/2"	300 USgph	15 USgpm	2.0	1"	462 USgpm	24.2 USgpm	3.5
Max Temperature: (°F)				PVC: 140°; CPVC & PP: 195°; PVDF: 300° (Peak 390°)			
Max Operating Pressure @ 70°F				225 psi			
Materials of Construction:							
Valve Diaphragm				Standard: PTFE / EPDM, Optional: Viton, Hypalon, PTFE / Viton			
Instrument Isolator Diaphragm				Standard: PTFE, Optional: Viton			
Valve Body				PVC, CPVC, PP, PVDF			
Instrument Isolator Body				Standard: PVC, Optional: CPVC, PP or PVDF			
Switch Body				Standard: Zinc Plated Steel, Optional: 316L SS			

DIMENSIONS:



DIMENSIONS: PRS Series

All Materials

Size	A (in)	B (in)	C (in)	D (in)
1/4"	2.70	4.70	2.35	3.80
3/8"	2.70	4.70	2.35	3.80
1/2" M	3.10	5.50	2.35	3.80
1/2" G	4.60	6.90	3.50	5.00
3/4"	4.60	6.90	3.50	5.00
1"	4.75	7.20	3.50	5.00

Product Codes for Ordering:

PRS ☐ ☐ ☐ ☐ ☐ ☐ ☐

 1 2 3 4 5

1 = Size M025 - 1/4" M038 - 3/8" M050 - 1/2" G050 - 1/2" G075 - 3/4" G100 - 1"	2 = Material P - PVC CP - CPVC PP - Polypro K - Kynar	3 = Spring Blank - 10 - 150 psi 1 - 0 - 50 psi	4 = Options Blank - NPT & Std Diaphragm V - Viton Diaphragm TV - PTFE/Viton Diaphragm S - Socket Connection F - Flanged Connection U - Union Connection G - Gauge + Class & Range	5 = Switch Options Blank - Standard Body, 15 - 60 psi Switch 4 - Standard Body, 40 - 150 psi Switch 5 - 316L SS Body, 15 - 60 psi Switch 6 - 316L SS Body, 40 - 150 psi Switch X after 4, 5, or 6 above for Normally Closed	Gauge Class (Only with Option "G") 1 - Economy 2 - Mid Range 3 - Premium Pressure Range 1 - 0 - 160 psi 2 - 0 - 60 psi 3 - 0 - 100 psi
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