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UNIBODY RELIEF & BACK PRESSURE VALVES

Griffco's new unibody valve is the latest innovation to ensure leak-free connections and operation. This new design allows flexibility of changing connection types, ease of maintenance, and eliminates additional system components (extra unions); saving time and money. As with all of the Griffco designs, the chemical feed system is safeguarded by either applying a continuous back pressure to the chemical feed pump, while also acting as an anti-siphon valve or allowing for system pressure relief (2-port only) in case of an upset condition. This new construction ensures increased leak-free reliability in the rigorous service of municipal and industrial applications. Wetted materials include: **PVC and CPVC.** Available from 1/2", 3/4", and 1" union socket connections.

Features:

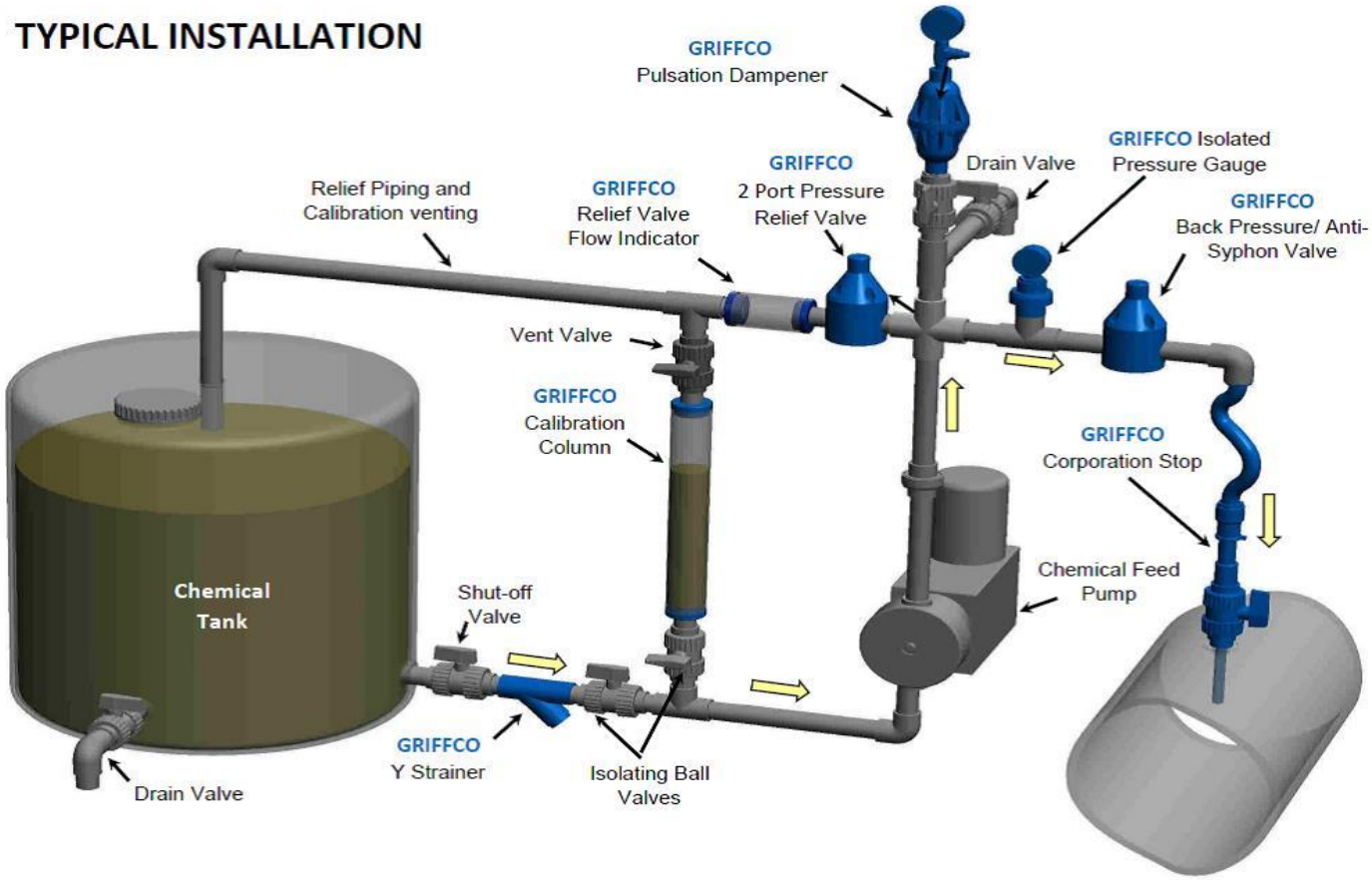
- **Completely machined body**
- **No seals or glued connections**
- **Union style connections**
- **Available in PVC and CPVC**
- **Adjustable Pressure Settings**
- **Anti-Siphon Function**
- **Composite PTFE/EPDM Diaphragm**
- **NSF certified (PVC only)**
- **2 Year Warranty**

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.

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.

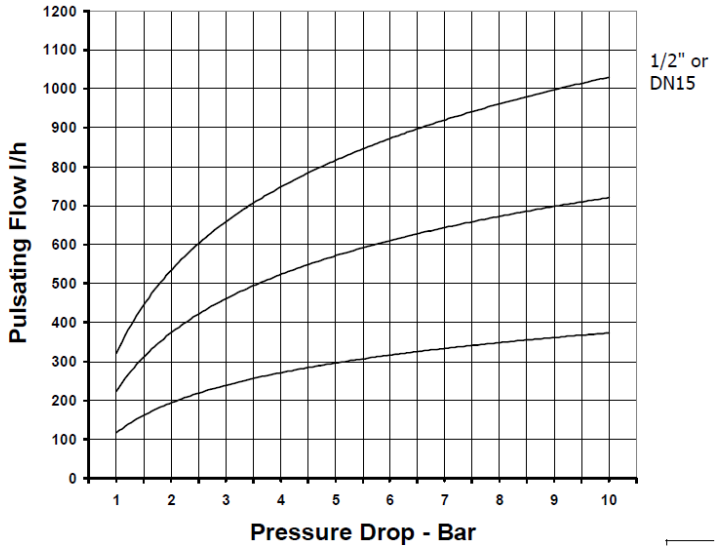
TYPICAL INSTALLATION



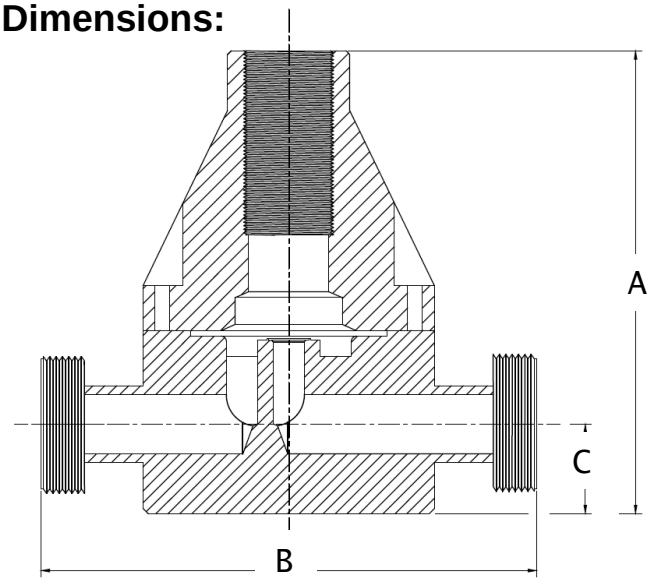
Technical Data:

Types: BPU - Back Pressure Valve PRU - Pressure Relief Valve (2 Port)			**Sizes: 1/2", 3/4", & 1”**		
Connections:			**Union Socket**		
Pressure Adjustment			**Standard: 0,7 – 10 bar Optional: 0 – 3,5 bar, 0,7 – 17 bar**		
Flow Rates @ 10 bar			**Shipping Weight: gram**		
Size	**Pulsating**	**Continuous**	**Plastic**	**Metal / Plastic Top**	**Metal / Metal Top**
1/2” 3/4” 1”	**985 L/Hr 1.135 L/Hr 1.895 L/Hr**	**58 L/min 20 L/min 100 L/min**	**450 1.360 1.360**	**N/A N/A N/A**	**N/A N/A N/A**
Max Temperature:			**PVC: 60°C; CPVC: 90°C**		
Max Operating Pressure @ 21°C:			**Plastic/Noryl: 17 bar**		
Materials of Construction:					
Diaphragm			**Standard: PTFE / EPDM Optional: Viton, Hypalon, Nitrile, PTFE / Viton**		
O-rings			**Standard: Viton, Optional EPDM**		
Valve Top			**Standard: Noryl**		
Valve Body			**PVC, CPVC**		

Performance Curves:



Dimensions:



Size	A (mm)	B (mm)	C (mm)
1/2”	108	123	27,4
3/4"	141	132	31,8
1”	141	132	31,8

Product Codes For Ordering:

BPU or PRU ☐☐☐ ☐ ☐ ☐

1 2 3 4

BPU – Back Pressure valve or **PRU** – Pressure Relief valve (2 port)

1 = Size	**2 = Material**	**3 = Spring Opt**	**4 = Options**
050 - 1/2"	P - PVC	Blank – 0,7 – 10 bar	Blank – PTFE/EPDM Diaphragm. with Viton O-Rings
075 - 3/4"	CP - CPVC	1 – 0 – 3,5 bar	V - Viton Diaphragm
100 - 1”		2 – 0,7 – 17 bar	E – EPDM O-Rings
			D – Metric Connections
			EE – EPDM Diaphragm & O-Rings

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