



Griffco Valve Inc.

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Pulsation Dampeners



Griffco pulsation dampeners are designed to enhance the performance of chemical feed systems by reducing harmful shock waves and delivering continuous chemical dosage at the injection point.

Features:

- High Reliability, Low Cost
- 9 Volumetric Sizes Available
- CPVC, PVDF, Noryl®, PVC, PP, 316SS Construction
- Multiple Diaphragm Materials
- Pressures Up To 250 psi Metallic; 150 psi Plastic
- Made in the USA

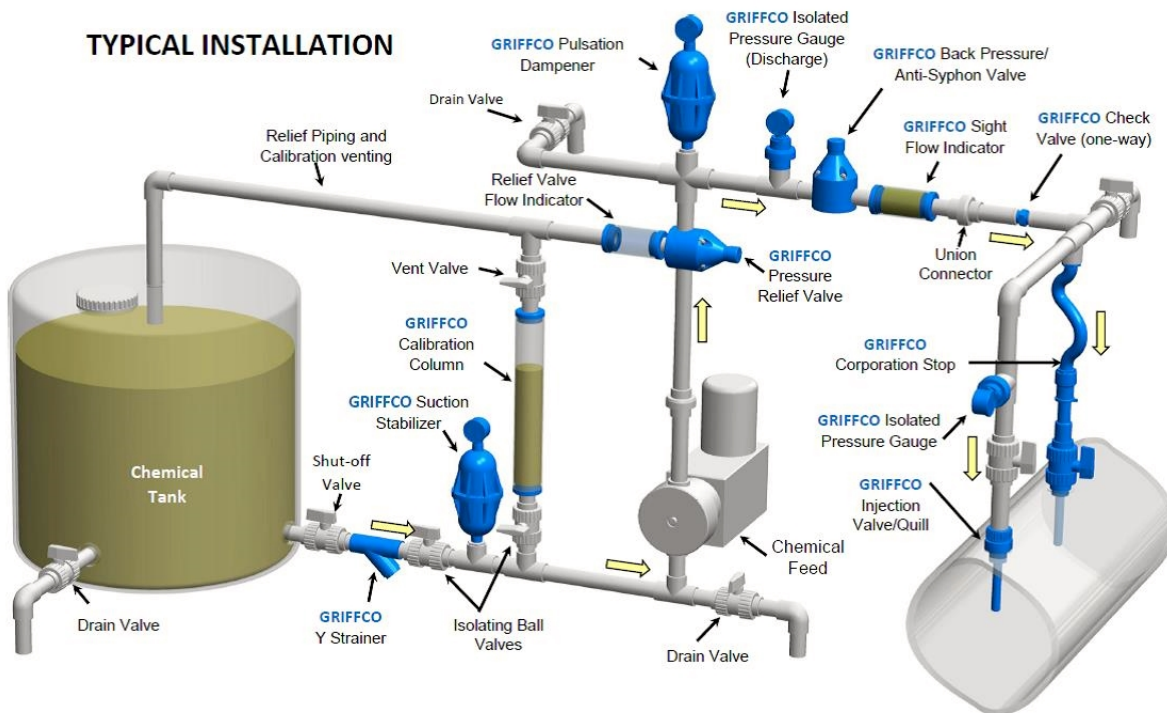
Information needed to size a dampener:

- 1 – Type of pump. (**K** factor)
 - Simplex: Single Acting= .60; Double Acting = .25
 - Duplex: Single Acting= .25; Double Acting = .15
 - Triplex: Single Acting= .13; Double Acting = .06
 - Quadruplex: Single Acting= .10; Double Acting = .06
 - Quintuplex: Single Acting= .06; Double Acting = .02
- 2 – Volume/Stroke of dosing pump in cubic in (**V**)
- 3 – System mean operation pressure (**SP**)
- 4 – Min and max operating pressure (**Pmin & Pmax**)
- 5 – Compressed charge in dampener (**y**)
 - Compressed Air =1.0; Nitrogen=.714

Required Dampener Capacity (C) Calculation:

$$C \text{ (cubic inches)} = \frac{(V) \times (K) \times (SP/P_{min})^y}{1 - (SP/P_{max})^y}$$

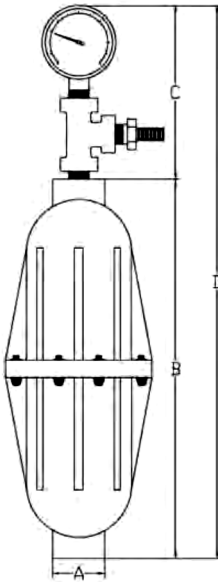
TYPICAL INSTALLATION



TECHNICAL DATA:

Materials of Construction:	Body: CPVC, PVDF, Noryl®, PVC, PP, 316 SS Top: Noryl®, 316 SS
Connection Sizes:	1/2", 3/4" and 1"
Connections:	Standard: NPT, Optional: BSPT, Flanged, Socket, Union,
Gauge Port Sizes	Standard: 1/4", Optional: 1/8"
Max Temperature: (°F)	CPVC: 175°, PVDF: 225°, Noryl: 225°, PVC: 140°, PP: 175°
Max Operating Pressure (psi) @ 70 Deg. F	Plastic: 150 psi (Peak: 250 psi), Metal 250 psi (peak 350 psi)
Diaphragm Material	Standard: EPDM, Optional: Viton®, Hypalon®
Gauge and Charging Valve Materials	Standard: Brass, Optional: 316 SS
Dampening Effect	± 2.5%
Optional Gauges	Std: 0 – 160 psi; Optional: 0 – 60 psi, 0 – 100 psi, 0 – 200 psi, 0 - 300 psi

Dimensions for Plastics:



Model	Capacity (cu in)	A (in)	B (in)	C(in)	D (in)
PD0011	6.0	1/2	4.23	4.20	8.43
PD0012	10.0	1/2	5.70	4.20	9.90
PD0013	15.0	1/2	7.15	4.20	11.35
PD0021	16.0	3/4	5.26	4.40	9.66
PD0022	29.0	3/4	7.76	4.40	12.16
PD0023	42.0	3/4	10.26	4.40	14.66
PD0031	36.0	1	5.79	4.40	10.19
PD0032	80.0	1	9.90	4.40	14.30
PD0033	125.0	1	14.00	4.40	18.40

Note: Dimensions for 316 SS available upon request

Product Codes for Ordering:

PD

1 2 3 4 5 6

1 - Size	2 - Housing Material	3 - Diaphragm Material	4 - Charging Assembly Options	5 - Pressure Options	6 - Other Options
0011 – 6 in ³	CP - CPVC	E – EPDM	0 - Brass Tee & Economy Gauge	1 - 160 psi	B - BSPT Connection
0012 – 10 in ³	K – PVDF	H - Hypalon®	1 - Brass Tee & Mid Range Gauge	2 - 60 psi	F - Flanged Connection
0013 – 15 in ³	N – Noryl®	V – Viton®	2 - Brass Tee & Premium Gauge	3 - 100 psi	R - Rubber Boot for Gauge
0021 – 16 in ³	P - PVC		3 - 316 SS Tee & Economy Gauge	4 - 200 psi	S - Socket Connection
0022 – 29 in ³	PP – GF Polypro		4 - 316 SS Tee & Mid Range Gauge	5 - 300 psi	U - Union Connection
0023 – 42 in ³	S – 316 SS		5 - 316 SS Tee & Premium Gauge		UD - Metric Union Connection
0031 – 36 in ³			6 - Brass Tee - Compound Gauge		UZ - Threaded Union Connection
0032 – 80 in ³			7 - 316 SS Tee - Compound Gauge		M – Back Mount Gauge
0033 – 125 in ³					M8 – Back Mount 1/8" Gauge

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