



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
- Noryl®, PP, PVDF, 316SS Construction
- Multiple Diaphragm Materials
- Pressures Up To 200 psi
- Made in the USA

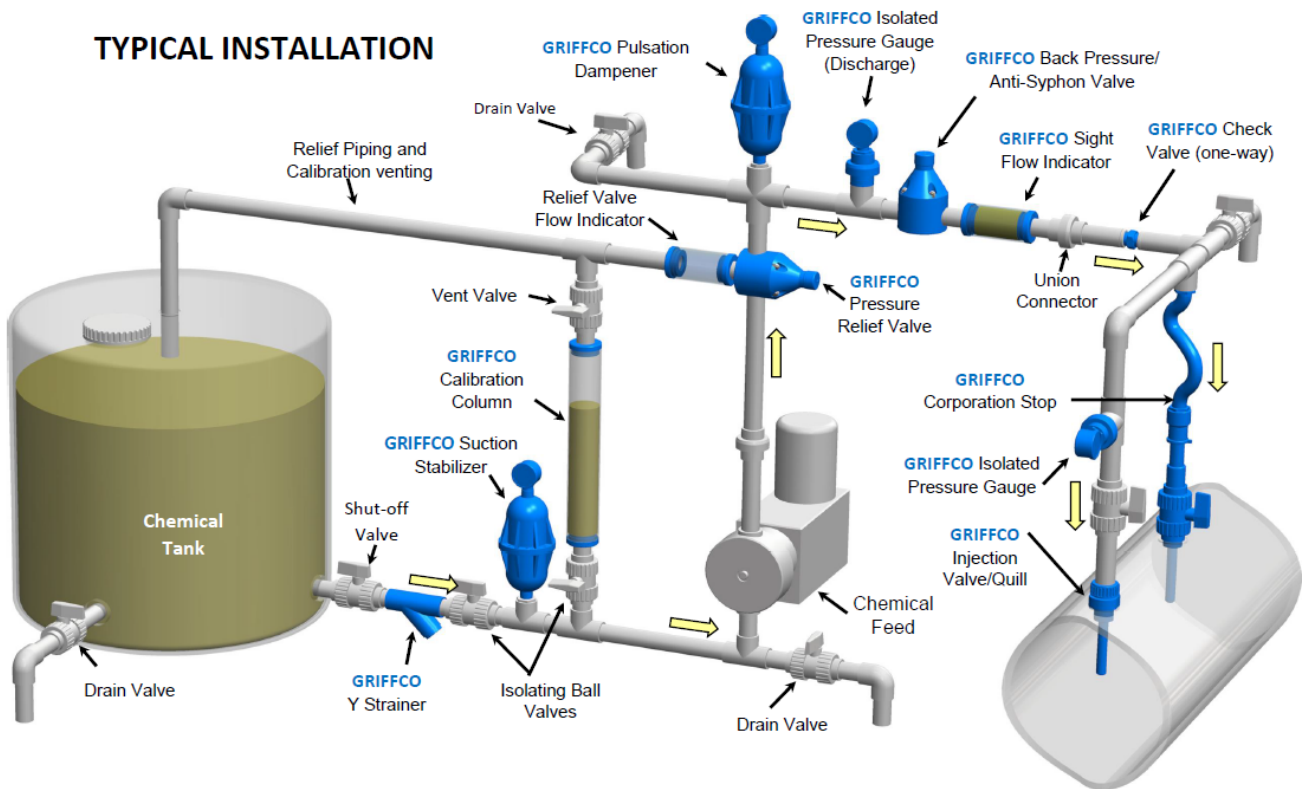
Information needed to size a dampener:

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

Required Dampener Capacity (C) Calculation:

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

TYPICAL INSTALLATION

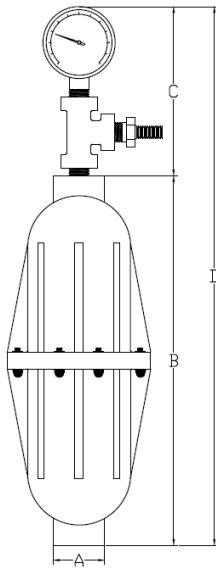


CALL: 1 800-GRIFFCO

TECHNICAL DATA:

Materials of Construction:	Body: Noryl [®] , PP, PVDF, 316 SS; Top: Noryl [®] , 316 SS	
Connection Sizes:	1/2", 3/4" and 1"	
Connections:	NPT, BSPT, Socket, Union, Flange	
Gauge Port Sizes	1/8", 1/4" and 1/2"	
Max Temperature: (°F)	PP 190° ; PVDF: 250° ; Noryl: 275°	
Max Operating Pressure (psi) @ 70 Deg. F	250 psi	
Diaphragm Material	Std: EPDM. Optional: Viton [®] , Hypalon	
Gauge and Charging Valve Materials	Std.: Brass, Optional: 316 SS	
Dampening Effect	± 2.5%	
Optional Gauges	Std: 0 – 160 psi; Optional: 0 – 60 psi, 0 – 100 psi, 0 – 200 psi	

Dimensions:



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

Product Codes for Ordering:

PD

1 2 3 4 5

1 = Size

0011 – 6 in³
 0012 – 10 in³
 0013 – 15 in³
 0021 – 16 in³
 0022 – 29 in³
 0023 – 42 in³
 0031 – 36 in³
 0032 – 80 in³
 0033 – 125 in³

2 = Housing Material

N – Noryl[®]
 PP – GF Polypro
 K – PVDF

3 = Diaphragm Material

V – Viton[®]
 H – Hypalon[®]
 E – EPDM

4 = Charging Assy. Options

0 – Brass Tee & Econo Gauge
 1 – Brass Tee & Mid Gauge
 2 – Brass Tee & Premium Gauge
 3 – 316 SS Tee & Econo Gauge
 4 – 316 SS Tee & Mid Gauge
 5 – 316 SS Tee & Premium Gauge

5 = Pressure Options

1 – 160 psi
 2 – 60 psi
 3 – 100 psi
 4 – 200 psi