



Griffco Valve, Inc.
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Pulsation Dampeners



Features:

- High Reliability, Low Cost
- 9 Volumetric Sizes Available
- Noryl®, PP, PVDF, 316SS Construction
- Multiple Diaphragm Materials
- Pressures up to 250 psi
- Made in the USA

Information needed to size a dampener:

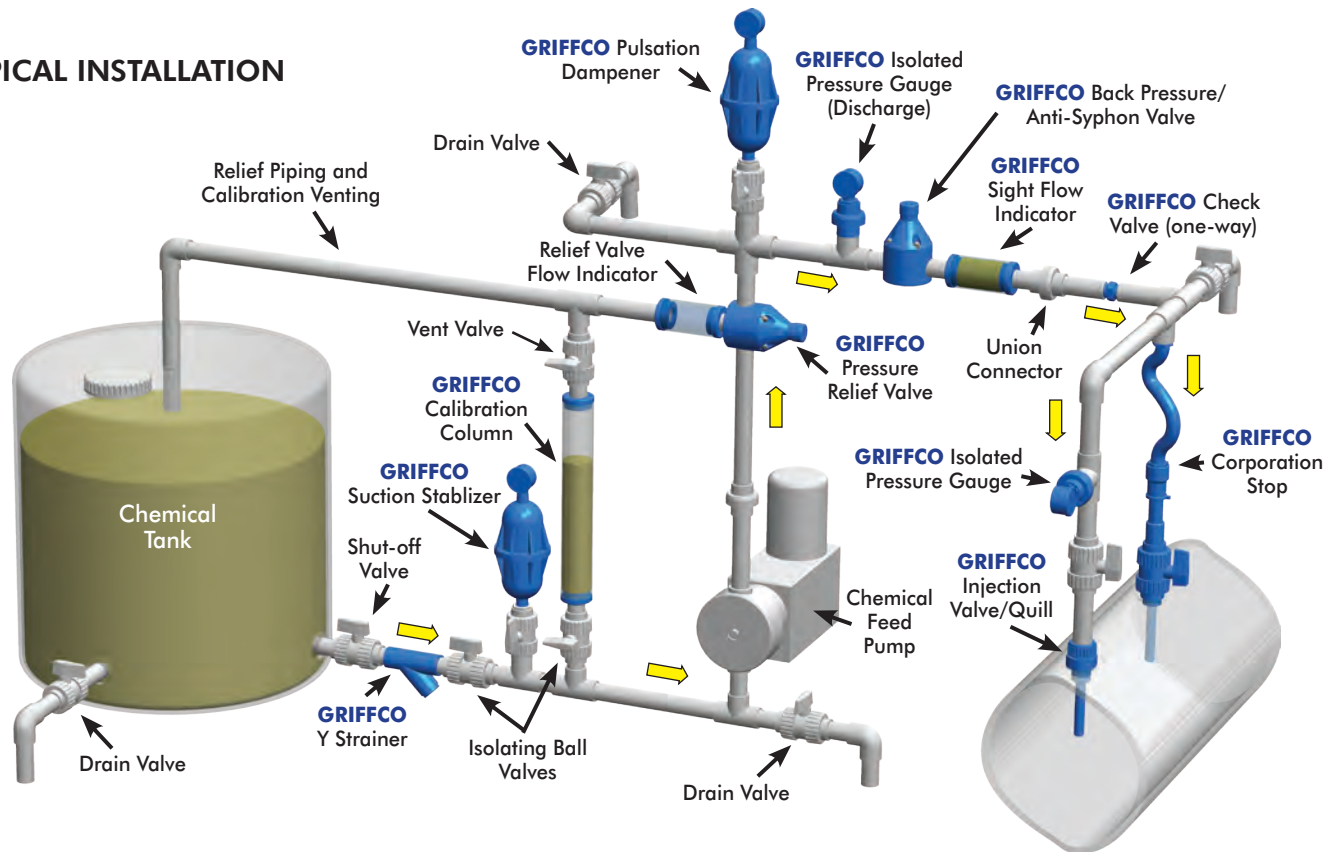
- 1 – Type of pump. (**K factor**)
 Simplex: Single Acting = .60; Double Acting = .25
 Duplex: Single Acting = .25; Double Acting = .15
 Triplex: Single Acting = .25; Double Acting = .15
- 2 – Volume/Stroke of dosing pump in cubic in (**V**)
- 3 – System mean operation pressure (**P**)
- 4 – Min and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

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.

Required Dampener Capacity (C) Calculation:

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

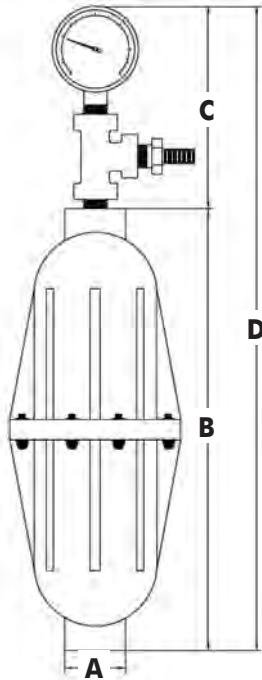
TYPICAL INSTALLATION



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 – 26 in³
 0023 – 42 in³
 0031 – 36 in³
 0032 – 80 in³
 0033 – 125 in³

2 = Housing Material

N – Noryl
 PP – GF Polypro
 K – PVDF
 S – 316 SS

3 = Diaphragm Material

V – Viton
 H – Hypalon
 E – EPDM

4 = Gauge Options

0 – Brass Hardware & Gauge
 1 – Brass / Brass & SS Gauge
 2 – SS Hardware & Gauge

5 = Range Options

1 – 160 psi
 2 – 60 psi
 3 – 100 psi
 4 – 200 psi
 5 – 250 psi