

NEW PRODUCT PREVIEW
**HPD Series
Pulsation Dampener**

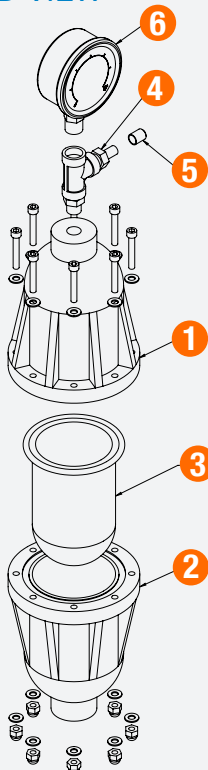
1/2" TO 1" PVC, CPVC OR PVDF

KEY FEATURES & BENEFITS

- Corrosion Resistant Construction
- Available in PVC, CPVC, and PVDF Materials
- 316 SS Charging Tee and Gauge
- Multiple Bladder Materials
- Reduces Damaging Shock from Pumps to Critical Components
- Delivers an Even, Laminar Flow, and Continuous Chemical Dosage
- Pressure Rated at 150 PSI/10 Bar in All Sizes @ 70°F/23°C Non-Shock
- Made in USA

MATERIALS

- PVC Cell Class 12454 per ASTM D1784
- CPVC Cell Class 23447 per ASTM D1784
- Natural PVDF per ASTM D3222 Type 1
- Viton®, EPDM, Hypalon or PTFE Bladders


TECHNICAL INFORMATION
EXPLODED VIEW

SELECTION CHART

| SIZE | CONNECTION SIZE | HOUSING MATERIAL | END CONNECTION | BLADDER / SEALS | PRESSURE RATING |
|-------------------------|-----------------|-------------------|---|-------------------------------|--|
| 006-6 in ³ | 1/2" (DN15) | PVC, CPVC or PVDF | NPT, BSPT, Flanged or True Union Socket | EPDM, Viton®, Hypalon or PTFE | 150 PSI @ 70°F 10 Bar @ 21°C Non-Shock |
| 010-10 in ³ | | | | | |
| 015-15 in ³ | | | | | |
| 029-29 in ³ | 3/4" (DN20) | | | | |
| 042-42 in ³ | | | | | |
| 036-36 in ³ | | | | | |
| 080-80 in ³ | | | | | |
| 125-125 in ³ | | | | | |

†PVC and CPVC housings have a non-wetted Noryl® top. PVDF housings have a non-wetted PVDF top.

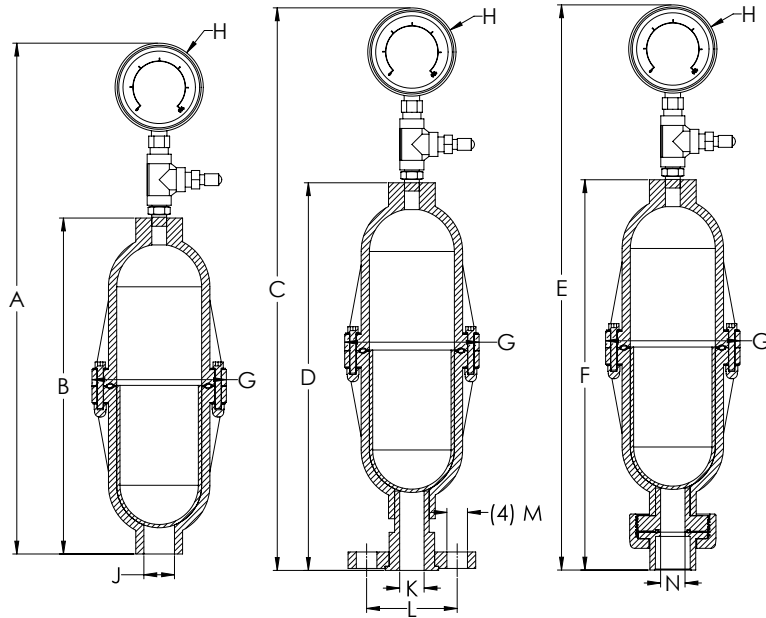
HPD Series Pulsation Dampener

1/2" TO 1" PVC, CPVC OR PVDF

TECHNICAL INFORMATION, CONTINUED

PARTS LIST

1. Upper Housing, Noryl® or PVDF
2. Lower Housing, PVC, CPVC or PVDF
3. Bladder, EPDM, Viton®, Hypalon or PTFE
4. Charging Tee, Stainless steel
5. Air Valve Cap, Stainless steel
6. Pressure Gauge, Stainless steel



DIMENSIONS

| SIZE | CONN. SIZE | A | B | C | D | E | F | G | H | J | K | L | M | N | WEIGHT |
|-----------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-----------|-----|-----------|-----------|-----------|-----------|-------------|
| in ³ | in | in / mm | in / mm | in / mm | in / mm | in / mm | in / mm | in / mm | in / mm | in | in / mm | in / mm | in / mm | in / mm | lbs / Kg |
| 6 | 1/2 | 9.54 / 242 | 4.22 / 107 | 11.07 / 281 | 5.75 / 146 | 11.20 / 284 | 5.88 / 149 | 3.40 / 86 | 2.68 / 68 | 1/2 | 0.55 / 14 | 2.38 / 60 | 0.63 / 16 | 0.55 / 14 | 1.16 / 0.52 |
| 10 | 1/2 | 11.01 / 280 | 5.69 / 145 | 12.62 / 320 | 7.30 / 185 | 12.67 / 322 | 7.35 / 187 | 3.40 / 86 | 2.68 / 68 | 1/2 | 0.55 / 14 | 2.38 / 60 | 0.63 / 16 | 0.55 / 14 | 1.22 / 0.55 |
| 15 | 1/2 | 12.47 / 317 | 7.15 / 182 | 14.00 / 356 | 8.68 / 220 | 14.13 / 359 | 8.81 / 224 | 3.40 / 86 | 2.68 / 68 | 1/2 | 0.55 / 14 | 2.38 / 60 | 0.63 / 16 | 0.55 / 14 | 1.32 / 0.60 |
| 29 | 3/4 | 13.05 / 331 | 7.73 / 196 | 14.62 / 371 | 9.30 / 236 | 14.75 / 375 | 9.43 / 240 | 4.08 / 104 | 2.68 / 68 | 3/4 | 0.74 / 19 | 2.75 / 70 | 0.63 / 16 | 0.74 / 19 | 1.82 / 0.83 |
| 42 | 3/4 | 15.52 / 394 | 10.20 / 259 | 17.09 / 434 | 11.77 / 299 | 17.22 / 437 | 11.90 / 302 | 4.08 / 104 | 2.68 / 68 | 3/4 | 0.74 / 19 | 2.75 / 70 | 0.63 / 16 | 0.74 / 19 | 2.10 / 0.95 |
| 36 | 1 | 11.11 / 282 | 5.79 / 147 | 12.70 / 323 | 7.38 / 187 | 13.00 / 330 | 7.68 / 195 | 5.77 / 147 | 2.68 / 68 | 1 | 0.96 / 24 | 3.13 / 80 | 0.63 / 16 | 0.96 / 24 | 2.30 / 1.04 |
| 80 | 1 | 15.20 / 386 | 9.88 / 251 | 16.82 / 427 | 11.50 / 292 | 17.09 / 434 | 11.77 / 299 | 5.77 / 147 | 2.68 / 68 | 1 | 0.96 / 24 | 3.13 / 80 | 0.63 / 16 | 0.96 / 24 | 3.08 / 1.40 |
| 125 | 1 | 19.29 / 490 | 13.97 / 355 | 20.91 / 531 | 15.59 / 396 | 21.18 / 538 | 15.86 / 403 | 5.77 / 147 | 2.68 / 68 | 1 | 0.96 / 24 | 3.13 / 80 | 0.63 / 16 | 0.96 / 24 | 3.70 / 1.68 |

DAMPENER SIZING EQUATION

$$C(\text{in}^3) = \frac{(V) \times (K) \times (\text{SP}/\text{Pmin})^Y}{1 - (\text{SP}/\text{Pmax})^Y}$$

K = Type of Pump:
 Simplex: Single Acting = .60, Double Acting = .25
 Duplex: Single Acting = .25, Double Acting = .15
 Triplex: Single Acting = .15, Double Acting = .06

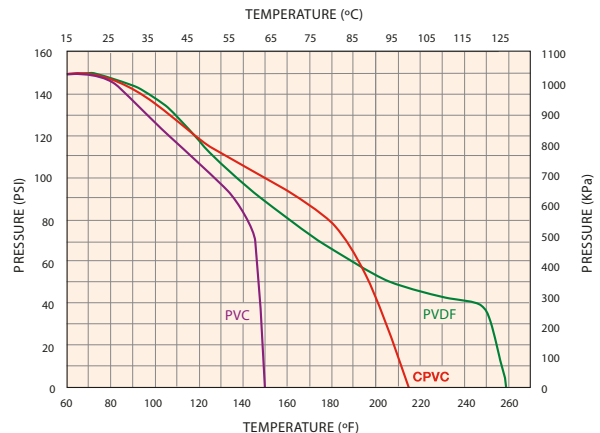
V = Volume/Stroke of Dosing Pump (in³)

SP = System Mean Operation Pressure

Pmin & Pmax = Min/Max Operating Pressure

Y = Compressed Charge in Dampener
 (Compressed Air / Nitrogen = 0.714)

OPERATING TEMPERATURE/PRESSURE



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