

**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

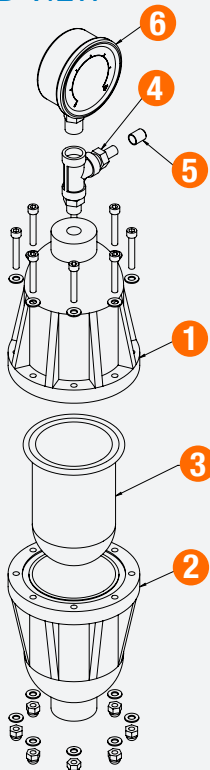
**MATERIALS**

- 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 <sup>3</sup>					
010-10 in <sup>3</sup>	1/2" (DN15)				
015-15 in <sup>3</sup>					
029-29 in <sup>3</sup>	3/4" (DN20)	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
042-42 in <sup>3</sup>					
036-36 in <sup>3</sup>					
080-80 in <sup>3</sup>	1" (DN25)				
125-125 in <sup>3</sup>					

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

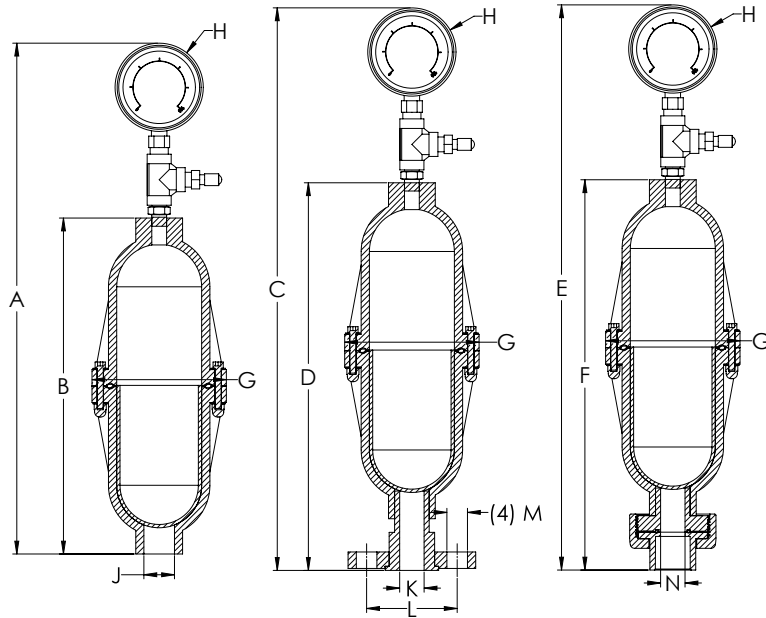
# HPD Series Pulsation Dampener

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 <sup>3</sup>	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

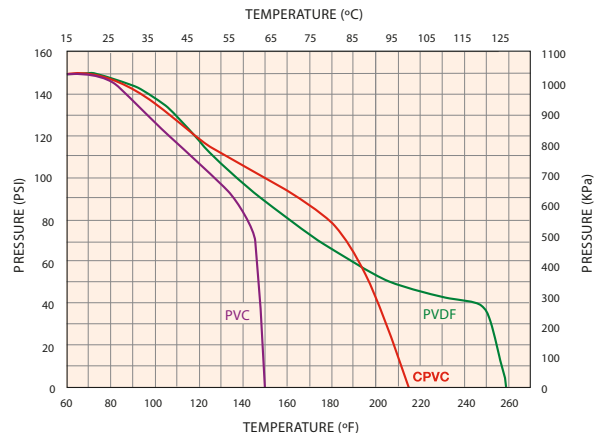
V = Volume/Stroke of Dosing Pump (in<sup>3</sup>)

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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