

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

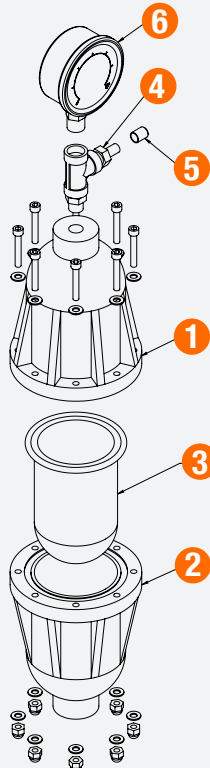
MATERIALS

- 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 in³	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 in³					
015-15 in³					
029-29 in³	3/4" (DN20)				
042-42 in³					
036-36 in³					
080-80 in³	1" (DN25)				
125-125 in³					

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

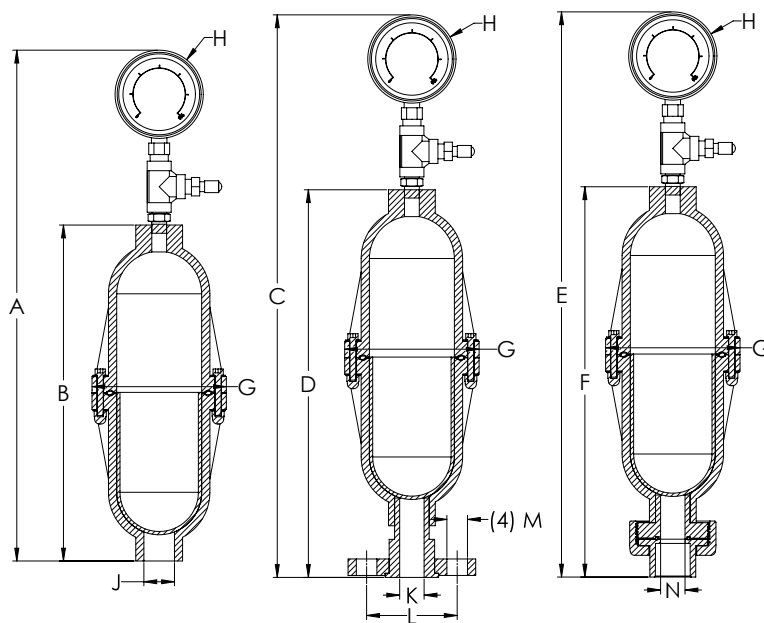
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TECHNICAL INFORMATION, CONTINUED

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

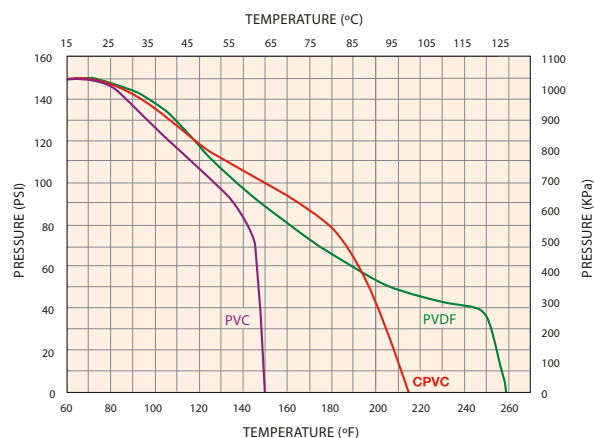
V = Volume/Stroke of Dosing Pump (in³)

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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USA: 1.888.429.4635 • Fax: 1.888.778.8410 • One Hayward Industrial Drive • Clemmons, NC 27012 • Email: hfcsales@hayward.com
Canada: 1.888.238.7665 • Fax: 1.905.829.3636 • 2880 Plymouth Drive • Oakville, ON L6H 5R4 • Email: hflowcanada@hayward.com
Visit us at: haywardflowcontrol.com

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Bag Filter vessel

- GFPP
- PVC
- CPVC



Y Strainers

- PVC
- CPVC
- Clear PVC
- PVDF



Simplex Strainers

- PVC
- CPVC
- GFPP
- PVDF
- Eastar® (Clear)



Duplex Strainers

- PVC
- CPVC
- GFPP
- Eastar® (Clear)

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Ball Valves

- PVC
- CPVC
- GFPP
- PVDF



Check Valves

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- Y-Check Valves
- Wafer Check Valves
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Pressure & Chemfeed

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- Back Pressure
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- Needle Valves
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Actuation

- Electric
- Pneumatic



Solenoid Valves

- PVC
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Australia

Monarch Asia Pacific Pty Ltd
Unit 3
8 Bult Drive
Brendale, QLD 4500

Phone : +61 (0) 7 3889 9949

www.monarcindustrial.com.au



Thailand

PSF Equipment (Thailand) Co Ltd
11 Soi Suanphak 42
Suanphak Road, Chimphi
Talingchan, Bangkok 10170

Phone : +66 (0) 2 882 5512
Fax No: +66 (0) 2 424 3725

www.psftailand.com