



PBV Series Back Pressure Valves

1/4" TO 4" / DN8 TO DN100
PVC, CPVC, PP AND PVDF

KEY FEATURES

- Available in PVC, CPVC, PP or PVDF Body with Noryl™ Molded Dome
- PTFE/EPDM Diaphragm
- Spring: 10 – 150 psi (Spring pre-set: 50 psi)
- 304 Stainless Steel Bolting
- FNPT or Socket 1/4"-2", Flange 3"-4"
- Anti-Siphon Function
- Adjustment Screw with Slot
- PVC, CPVC and PVDF rated to 250 psi @ 70°F / 17.2 Bar at 21°C, PP rated to 150 psi @ 70°F / 10 Bar at 21°C

OPTIONS

- ANSI or DIN / EN Threaded, Socket, True Union Socket or Flanged End Connections
- 0 - 50 psi and 10 - 250 psi Springs
- PTFE/FPM Diaphragm

MATERIALS

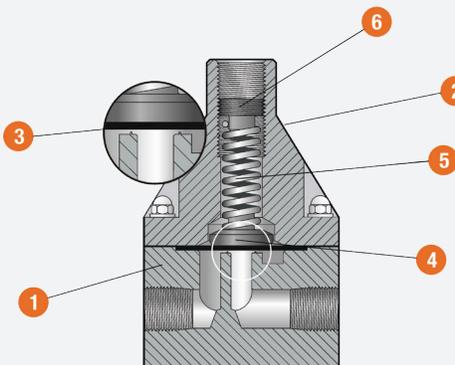
- PVC Cell Class 12454 per ASTM D1784
- CPVC Cell Class 23447 per ASTM D1784
- PP per ASTM D4101
- Natural PVDF per ASTM D3222 Type 1



Certified to NSF/ANSI 61 & 372

TECHNICAL INFORMATION

DETAILED VIEW



SELECTION CHART

SIZE	MATERIAL	END CONNECTION	DIAPHRAGM	PRESSURE ADJUSTMENT	PRESSURE RATING
1/4"-3/8" DN8-DN10	PVC, CPVC, PVDF	FNPT	PTFE/EPDM, PTFE/FPM	10-150 psi Optional: 0-50, 10-250	250 PSI @ 70°F 16 Bar @ 21°C Non-Shock
	PP	FNPT			150 PSI @ 70°F 10 Bar @ 21°C Non-Shock
1/2"-2" DN15-DN50	PVC, CPVC, PVDF	FNPT, Socket, Flange*			250 PSI @ 70°F 16 Bar @ 21°C Non-Shock
	PP	FNPT, Socket, Flange*			150 PSI @ 70°F 10 Bar @ 21°C Non-Shock
	PVC, CPVC	TU Socket			250 PSI @ 70°F 16 Bar @ 21°C Non-Shock
3"-4" DN80-DN100	PVC, CPVC	Flange*			150 PSI @ 70°F 10 Bar @ 21°C Non-Shock

* All flanged valves are rated to 150 PSI @ 70°F Non-Shock (10 Bar @ 21°C)

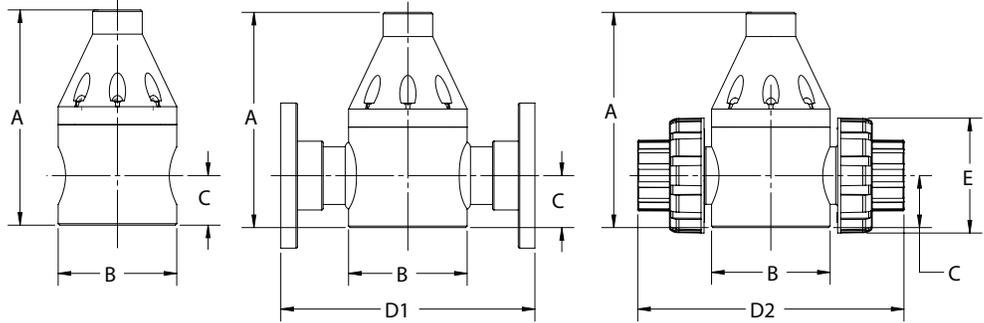
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1/4" TO 4" PVC, CPVC, PP AND PVDF

TECHNICAL INFORMATION, CONTINUED

PARTS LIST

1. Valve Body - PVC, CPVC, PP or PVDF
2. Dome - Noryl™
3. Diaphragm - PTFE/EPDM or PTFE/FPM
4. Compressor
5. Spring
6. Adjustment Screw



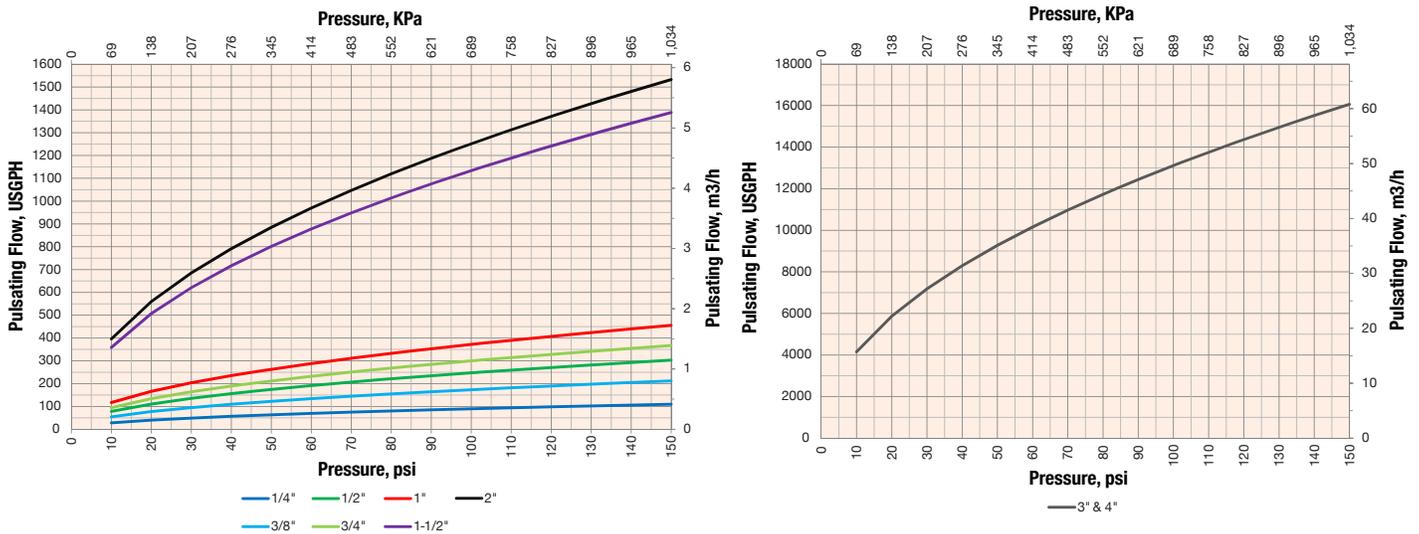
DIMENSIONS (INCHES / MILLIMETERS)

VALVE SIZE in / DN	A in / mm	B in / mm	C in / mm	D1 ¹ in / mm	D2 ¹ in / mm	E in / mm
1/4 / 8	3.55 / 90	2.35 / 60	0.75 / 19	-	-	-
3/8 / 10	3.55 / 90	2.35 / 60	0.75 / 19	-	-	-
1/2 / 15	4.25 / 108	2.35 / 60	1.08 / 27	6.35 / 161	6.44 / 164	2.25 / 57
3/4 / 20	5.56 / 141	3.50 / 89	1.13 / 29	7.50 / 191	7.30 / 185	2.62 / 67
1 / 25	5.86 / 149	3.50 / 89	1.25 / 32	7.50 / 191	7.85 / 199	3.00 / 76
1-1/2 / 40	8.35 / 212	4.90 / 124	1.83 / 47	10.50 / 267	14.30 / 363	4.00 / 102
2 / 50	8.90 / 226	4.90 / 124	2.15 / 55	10.50 / 267	11.0 / 279	4.75 / 121
3 / 80	11.75 / 298	5.95 / 151	3.0 / 76	15.0 / 381	-	-
4 / 100	11.75 / 298	5.95 / 151	3.0 / 76	17.0 / 432	-	-
*4 / 100	11.75 / 298	5.95 / 151	3.0 / 76	15.0 / 381	-	-

*PP & PVDF

¹End to End dimensions will vary on flanged and true union styles due to some solvent cement construction.

PERFORMANCE CURVE



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