

The Truflo BPV-M Series Back Pressure/Relief Valve has two functions. As a back pressure valve, installed in-line downstream of a pump, the back pressure below the metering pump is maintained. When installed in the branch of a tee it is a pressure relief valve. The valve stays closed until inlet pressure reaches the set pressure which is adjusted by turning the spring tensioning bolt. Inlet pressure acts upward against the piston allowing excess pressure to flow upwards through the orifice.

PVC

SERIES : PBV-M

CONNECTION : ½" - 2"

ENDS : True Union Socket, Threaded Socket, Threaded or Flanged ends

DIAPHRAGM : PTFE Bonded EPDM

SEALS : EPDM, FKM (Viton®)



FEATURES

True Union Ends

- Easy installation and maintenance
- Tube Fitting Connection chemical leakage problems common threaded connections

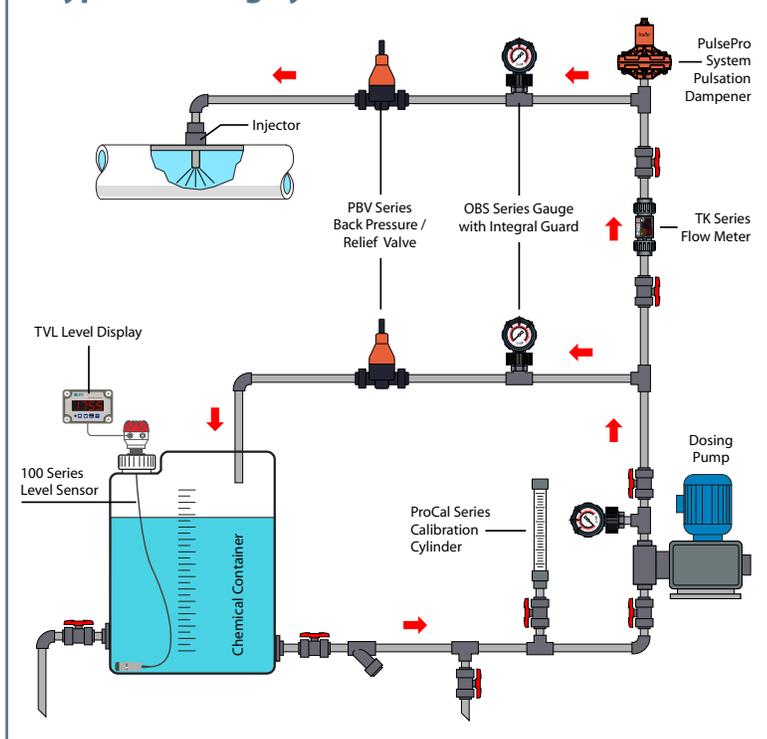
Long Cycling Life

- Dynamic seal is PTFE Teflon® bonded EPDM for high chemical resistance
- This molded diaphragm is designed for superior sealing and flex life

Superior Performance in Dosing Systems

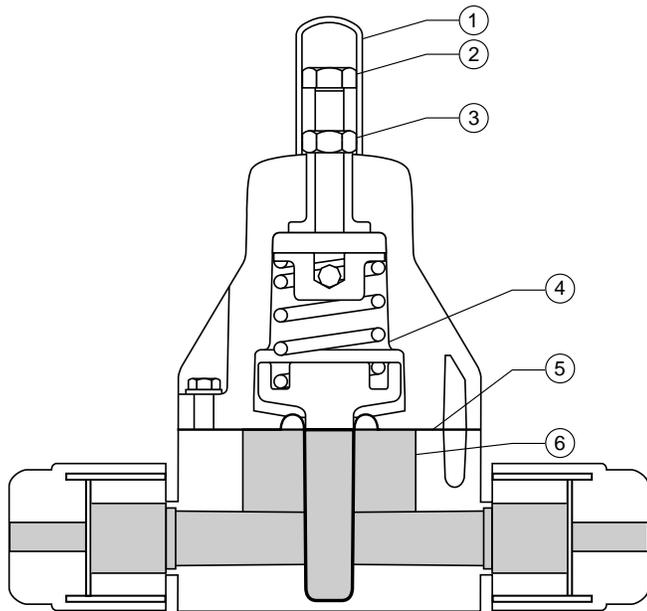
- Valves are hydraulically designed for very low hysteresis ("backlash") and to eliminate chatter
- Easy to Set Pressure in the field 3-90 psi range
- Valve opening depends on inlet pressure - not affected by downstream pressure

Typical Dosing System Schematic



TECHNICAL

Set Pressure Ranges- Pressure Relief	½" to 2" - 5 to 150 PSI
Set Pressure Ranges- Back Pressure	½" to 2" - 5 to 150 PSI
Maximum Viscosity	120 cP
Hysteresis	4 psi



PARTS

No.	Part	Pcs.	Materials
1	Body	1	PVC
2	Bonnet	1	PPG
3	Spring	1	Galvanized Steel
4	Control Diaphragm	1	PTFE Teflon® bonded EPDM
5	Piston	1	PVC
6	Lower Spring Retainer	1	PPG

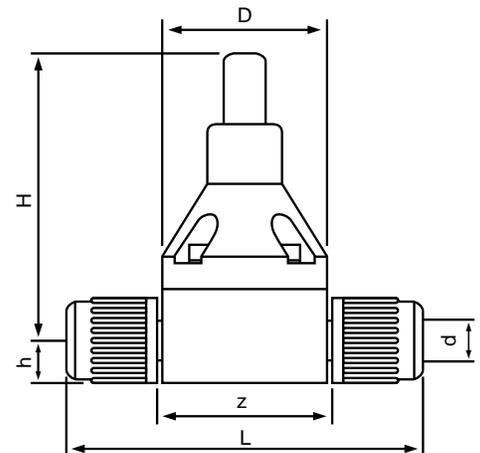
DIMENSIONS

Model	Size	L	H	D	d	z	h
BPV005	¼"	108	89	50	0.12	51	13

MAXIMUM PRESSURES PSI

Size	PVC			
	20°C 68°F	30°C 86°F	40°C 104°F	50°C 122°F
¼"	90	90	44	15

CV Value - 1.2



ORDERING EXAMPLE

Back Pressure / Relief Valves	PBV-M	A	025	V	U
Body Material	A – PVC				
Size	025 – ¼"				
Elastomers	E – EPDM		V – FPM (Viton®)		
Ends	T – Tube				