



Pressure Relief Valves

1/2" to 2" - PVC and Corzan® CPVC



CONTROL VALVES

Reliable Pressure Relief

Hayward Pressure Relief Valves protect piping system components from damage due to overpressurization. The valves work by sensing system pressure. When the system pressure exceeds the set pressure, the force of the excess pressure moves the valve piston off its seat to relieve the excess pressure and diverts some of the flow out the discharge port.

Easy to Set Pressure

Hayward Pressure Relief Valves can be set by hand – no tools are needed – to relieve pressures from 5 to 75 psi. Each size of relief valve is designed to cover this complete pressure range with just one, non-wetted, plastic-coated spring. There's no need to change springs for different pressure ranges as with ordinary relief valves.

Molded Gauge Port

An integrally-molded 1/4" NPT gauge port on the valve body makes installation of a gauge to monitor the relief pressure easy. No drilling or extra fittings are needed.

No Corrosion Failure

These all-plastic relief valves have no metal parts and will never fail, jam, or stick because of rusted or corroded components. They also require no painting or epoxy coatings to survive corrosive environments.

Features

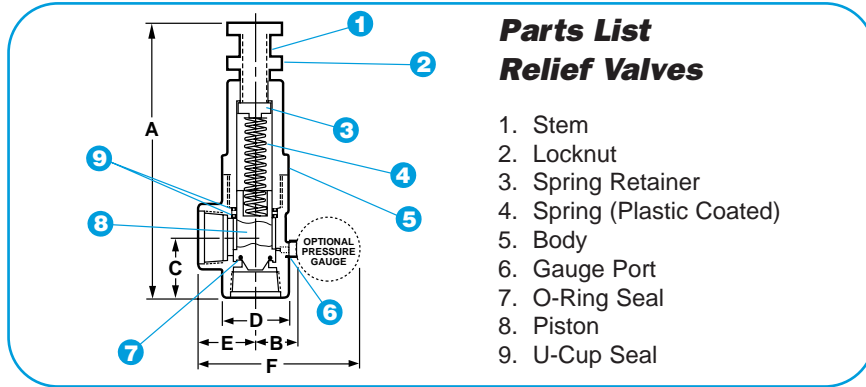
- No Metal Parts to Stick or Jam
- Hand Adjustable
- Molded Gauge Port
- Relieves Pressures from 5 to 75 PSI
- All Plastic, No Rust or Corrosion
- Viton® or EPDM Seals

Options

- Pressure Gauges 0 to 60 PSI
- Pressure Gauges 0 to 160 PSI
- Gauge Guards

Corzan® CPVC is a trademark of Noveon, Inc.
Viton® is a trademark of DuPont Dow Elastomers

Technical Information



Parts List Relief Valves

1. Stem
2. Locknut
3. Spring Retainer
4. Spring (Plastic Coated)
5. Body
6. Gauge Port
7. O-Ring Seal
8. Piston
9. U-Cup Seal

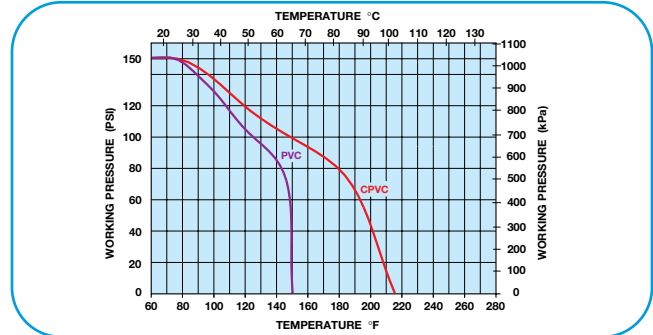
Dimensions - Inches / Millimeters

Size	A	B	C	D	E	F	Weight (lb / kg)
1/2"	6.75 / 171	1.38 / 35	1.50 / 38	1.38 / 35	1.38 / 35	5.19 / 132	0.50 / .23
3/4"	6.88 / 175	1.50 / 38	1.75 / 44	1.56 / 40	1.63 / 41	5.44 / 138	0.75 / .34
1"	8.75 / 222	1.63 / 41	2.06 / 53	1.88 / 48	1.88 / 48	5.75 / 146	1.00 / .45
1-1/2"	13.25 / 337	1.88 / 48	2.63 / 67	2.63 / 67	2.44 / 62	6.25 / 159	2.50 / 1.14
2"	15.50 / 394	2.13 / 54	3.00 / 76	3.13 / 80	2.88 / 73	6.69 / 170	3.50 / 1.59

Selection Chart

Size	Material	End Conn.	Seals	Pressure Setting	Pressure Rating
1/4" to 2"	PVC or CPVC	Threaded	Viton® or EPDM	5 to 75 PSI	150 PSI @ 70F Non-Shock

Operating Temperature/Pressure



Relief Valve Flow Chart

The chart below shows the flow rate out of the relief valve discharge port at a given set pressure and overpressure. For example, a 1" relief valve set to relieve at 30 psi would have a flow rate of 20 GPM out of the discharge port at 10 psi of overpressure (system pressure at 40 psi).

Set Relief Pressure (psi)	Relief Valve Sizes (NPT)															
	1/2"			3/4"			1"			1-1/2"			2"			
	Overpressure (psi)			Overpressure (psi)			Overpressure (psi)			Overpressure (psi)			Overpressure (psi)			
	+5	+10	+20	+5	+10	+20	+5	+10	+20	+5	+10	+20	+10	+20		
Flow Rate (gpm)																
10	.5	2.0	6.0	3.0	4.0	9.0	7.0	11.0	18.0	1.0	15.0	20.0	22.5	110.0		
20	1.0	3.0	7.0	4.0	6.0	15.0	8.0	14.0	24.0	1.5	30.0	33.0	40.0	125.0		
30	1.0	3.0	8.0	5.5	9.0	17.5	8.0	20.0	27.0	5.0	40.0	45.0	55.0	147.0		
40	1.0	3.0	8.0	9.0	13.0	19.0	8.0	27.5	30.0	8.0	47.5	51.0	75.0	160.0		
50	-	-	-	9.0	15.0	21.0	8.0	33.0	36.0	10.0	69.0	72.0	83.0	180.0		
75	-	-	-	9.0	18.0	20.0	8.0	40.0	48.0	10.0	90.0	96.0	92.0	180.0		



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