



RV Series Pressure Relief Valves

1/2" TO 2" PVC AND CPVC

KEY FEATURES

- Available in PVC and CPVC
- Hand Adjustable, No Tools Needed
- Integrally Molded Threaded Gauge Port
- Pressure Relief from 5 PSI to 75 PSI

OPTIONS

- 0 to 30 PSI Pressure Gauge
- 0 to 60 PSI Pressure Gauge
- 0 to 160 PSI Pressure Gauge
- Gauge Guards
- 2 to 20 PSI for 1-1/2" to 2" with Low Pressure Spring
- Flanged Ends

MATERIALS

- PVC Cell Class 12454 per ASTM D1784
- CPVC Cell Class 23447 per ASTM D1784
- FPM and EPDM O-Ring Seals

TECHNICAL INFORMATION

SELECTION CHART

SIZE*	MATERIAL	END CONNECTION	SEALS	PRESSURE SETTING	PRESSURE RATING
1/2" – 2" (DN15 – DN50)	PVC or CPVC	Threaded or Flanged	FPM or EPDM	5 to 75 PSI	150 PSI @ 70°F 10 Bar @ 21°C Non-Shock

* Available with threaded ends to BS21.

Brisbane, Australia
www.monarchindustrial.com.au
www.monarchasiapacific.com.au

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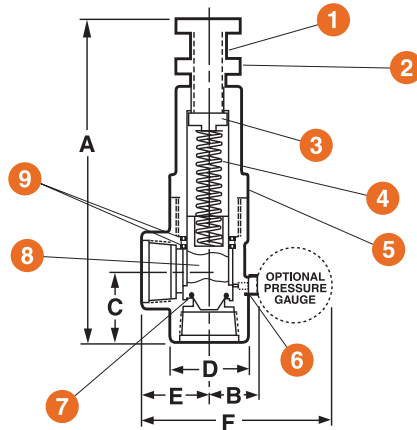
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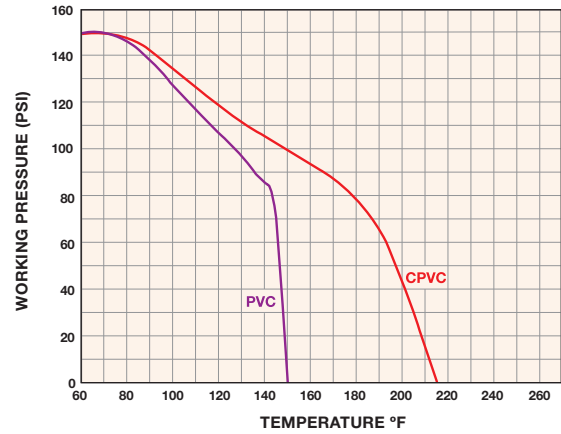
TECHNICAL INFORMATION, CONTINUED

PARTS LIST

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



OPERATING TEMPERATURE/PRESSURE



DIMENSIONS

SIZE in / DN	A in / mm	B in / mm	C in / mm	D in / mm	E in / mm	F in / mm	WEIGHT lb / kg
1/2 / 15	6.75 / 171	1.38 / 35	1.50 / 38	1.38 / 35	1.38 / 35	5.19 / 132	.50 / .23
3/4 / 20	6.88 / 175	1.50 / 38	1.75 / 44	1.56 / 40	1.63 / 41	5.44 / 138	.75 / .34
1 / 25	8.75 / 222	1.63 / 41	2.06 / 52	1.88 / 48	1.88 / 48	5.75 / 146	1.00 / .45
1-1/2 / 40	13.25 / 337	1.88 / 48	2.63 / 67	2.63 / 67	2.44 / 62	6.25 / 159	2.50 / 1.13
2 / 50	15.50 / 394	2.13 / 54	3.00 / 76	3.13 / 80	2.88 / 73	6.69 / 170	3.50 / 1.59

Dimensions are subject to change without notice – consult factory for installation information

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).

RELIEF VALVE SIZES (NPT)

SET RELIEF PRESSURE (PSI)	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	+2*	+5*	+5*	+10	+20
	FLOW RATE (GPM)			FLOW RATE (GPM)			FLOW RATE (GPM)			FLOW RATE (GPM)			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	N/A	N/A	N/A	9.0	15.0	21.0	8.0	33.0	36.0	10.0	69.0	72.0	83.0	180.0
75	N/A	N/A	N/A	9.0	18.0	20.0	8.0	40.0	48.0	10.0	90.0	96.0	92.0	180.0

* With Optional Low Pressure Spring



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