DIRECT ACTING PRESSURE RELIEF VALVE

Model DPRV-#3HC

Spring loaded, direct acting relief valve that relieves excessive system pressure when such pressure rises above a preset value. It responds immediately, accurately, and with high repeatability to a rise in system pressure by opening fully.

This model is often used as a pilot control for various Bermad pilot operated models.

Features and Benefits

- Fulfills all requirements for Drinking Water System
- Components and Reduction of Lead in Drinking Water Act
- Immediate, accurate response to sudden system variations
- Drip Tight Closure
- Robust Design - Suitable for constant, intense operation
- High Quality Construction Materials
- In-Line Serviceable - Quick and easy maintenance and service
- Easy field pressure setting and calibration

Typical Application

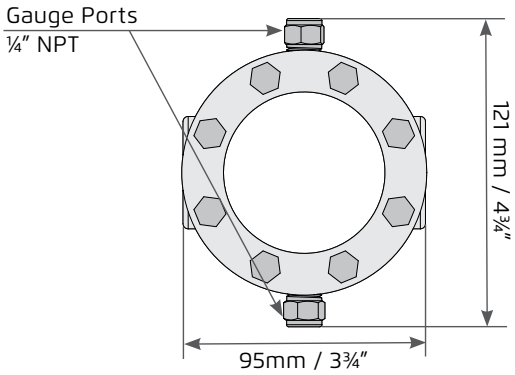
- Relieves excess pressure downstream of dead-end PRV stations
- Protects pipelines from high pressure.

Pressure reducing system with redundancy for small pressure zones featuring BERMAD DPRV-#2HC direct acting pressure reducing valve and BERMAD DPRV-#3HC direct acting pressure relief valve.

All images in this catalog are for illustration only

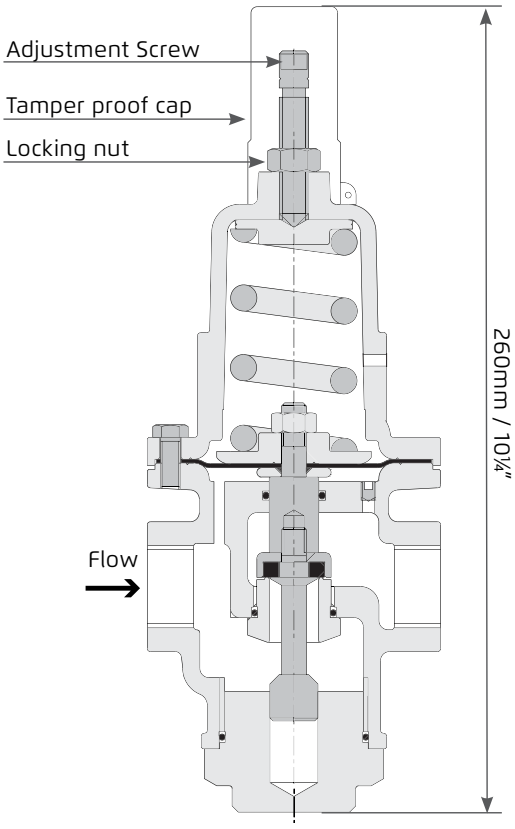
Operation

Upstream pressure is applied to the bottom of the diaphragm through an internal sensing port. So long as upstream pressure is less than or equal to the set-point of the valve, the BERMAD DPRV-#3HC is held closed by the force exerted by the spring on the top of diaphragm. When the pressure rises above the set-point, the pressure relief valve opens to relieve the upstream pressure. When the pressure has fallen back below the set-point, the valve will close. Turning the adjusting screw on top of the valve allows for pressure adjustment by varying the force the spring applies to the diaphragm.



Technical Data

Pressure Rating: 400 psi, PN25
End Connections: ¾" ISO-7 Rp, ½" NPT
Working Temperature: Water up to 180OF; 80OC
Materials: Body & Cover: Stainless Steel 316
Elastomers: EPDM rubber
Cartridge: Stainless Steel 316
Spring: Stainless Steel 316

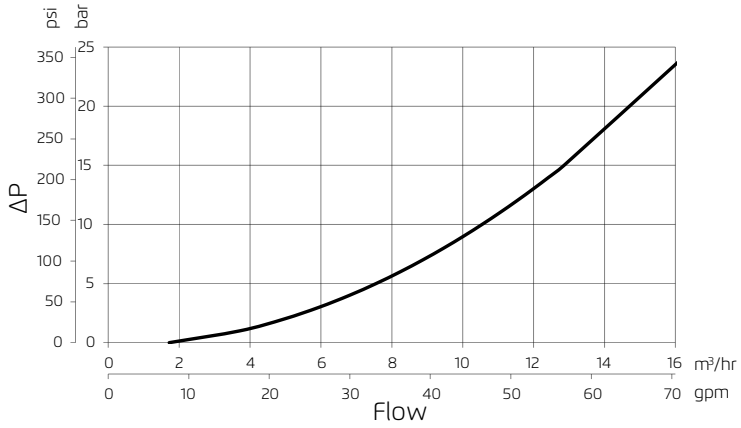


Weight: 3.4 kg / 7.5 lbs

Optional Materials:

Metal parts: St. St 303, Nickel Aluminum Bronze, Super Duplex, Hastelloy.
Elastomers: NBR, FPM.
Recommended flow range: 0-12 gpm; 0-2.8 m³/hr

Expected Relief Flow



Adjustment Range:

Model	Spring	Pressure range		Approximate increase for each clockwise turn of adjusting screw	
		bar	psi	bar	psi
#2HC-WD-16-0-N (Standard)	16	1-16	15-230	2.2	31.3
#2HC-WD-10-0-N	10	0.8-10	11-150	0.6	9.0
#2HC-WD-25-0-N	25	2-25	30-350	1.8	25.7

NSF 61/372 USA | WRAS UK | DVGW Germany | ACS France | GOST Russia | BELGAQUA Belgium | AS 5081 Australia | Watermark Australia | PZH Poland | Bulgarcontrola Bulgaria | SVGW Switzerland | ISO 9001 - 2008

For detailed Engineering & Specification data, IOM and CAD Drawings, visit the Model Page on the BERMAD website.

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