

DIRECT ACTING PRESSURE REDUCING VALVE

Model BC-DPRV-#2HC-P

Spring loaded, direct acting pressure reducing valve that reduces a high upstream pressure to a lower, constant downstream pressure, regardless of fluctuating demand or varying upstream pressure.

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



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

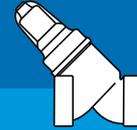
Typical Application

- Reduces pressure for point of use zones in high rise buildings.
- Low flow bypass for piloted PRV stations.

Operation

Downstream pressure is applied to the bottom of the diaphragm through an internal sensing port. So long as downstream pressure is less than or equal to the set-point of the valve, the BERMAD BC-DPRV-#2HC-P is held open by the force exerted by the spring on the top of diaphragm. When the pressure rises above the set-point,

the pressure reducing valve modulates towards the close position to reduce the downstream pressure. When the pressure has fallen back below the set-point, the valve will reopen. Turning the adjusting screw on top of the valve allows for pressure adjustment by varying the force the spring applies to the diaphragm.



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

Technical Data

Pressure Rating: 400 psi, PN25

End Connections: ¾" ISO-7 Rp, ½" NPT

Working Temperature: Water up to 180°F; 80°C

Materials: Body & Cover: Stainless Steel 316

Elastomers: EPDM rubber

Cartridge: Stainless Steel 316

Spring: Stainless Steel 316

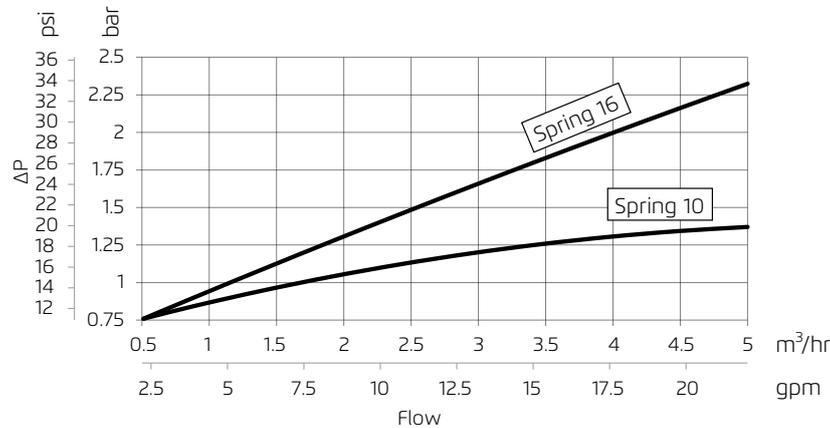
Optional Materials:

Metal parts: St. St 303, Nickel Aluminum Bronze, Super Duplex, Hastelloy.

Elastomers: NBR, FPM.

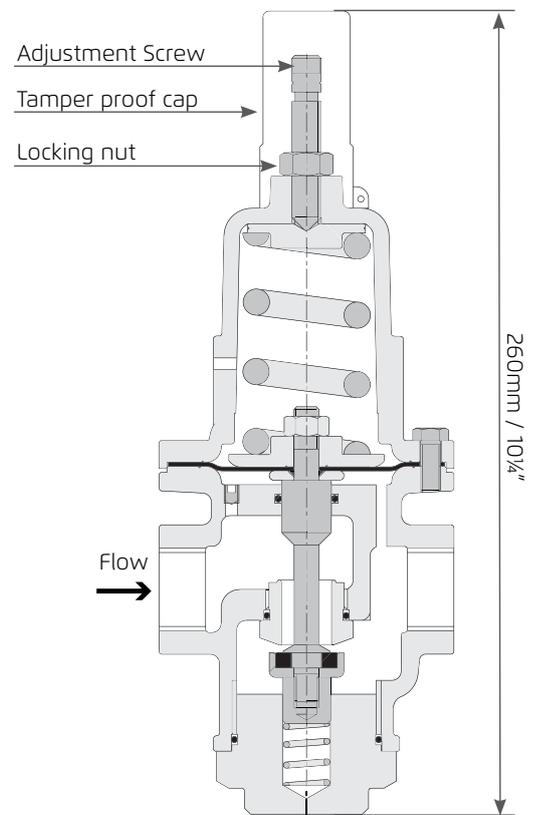
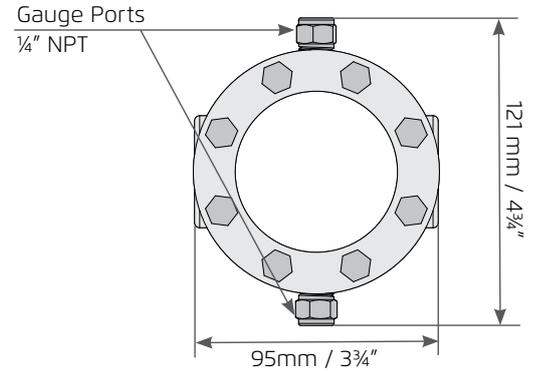
Recommended flow range: 0-12 gpm; 0-2.8 m³/hr

Pressure Drop from Static Setting



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



Weight: 3.4 kg / 7.5 lbs

