

# 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.

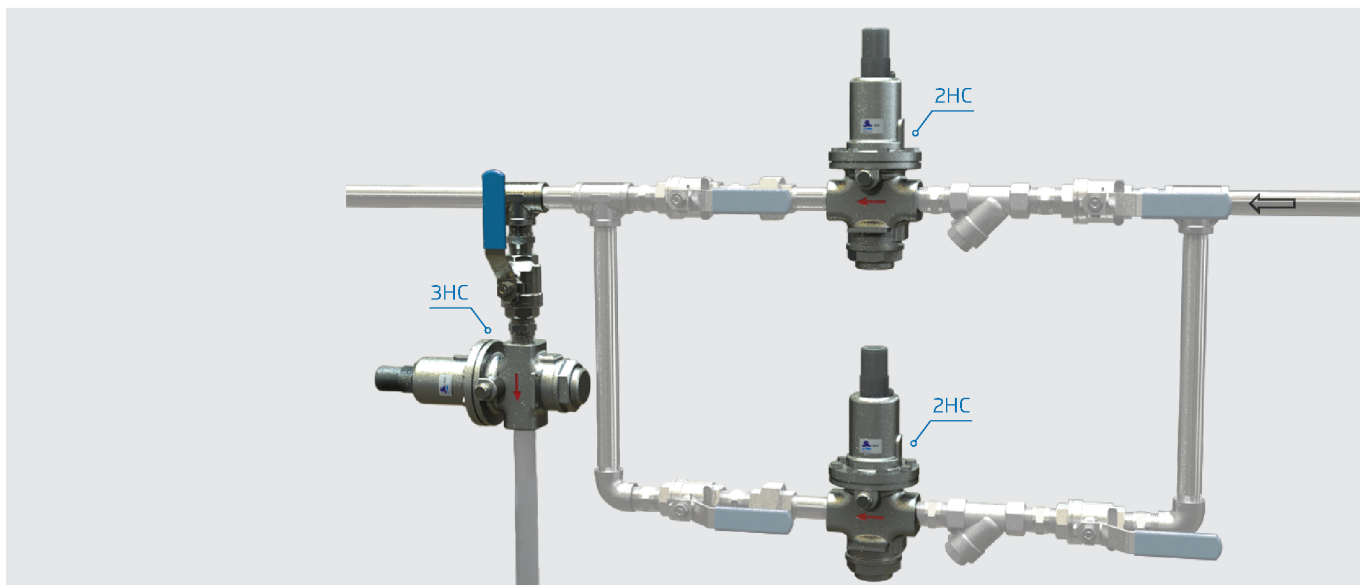
### Features

- Certified to functional and drinking water standards: EN-1074, NSF/ANSI 61/372, WRAS, AS 5081 and others
- Drip tight sealing
- Robust design – Engineered for continuous, demanding operation
- High quality construction materials
- Easy pressure adjustment

### Typical Applications

- Relieves excess pressure downstream of pressure reducing stations
- Protects systems and pipelines from high pressure

### Typical Installation



**Pressure reducing system** with redundancy featuring two BERMAD DPRV-2HC direct acting pressure reducing valves in parallel and BERMAD DPRV-3HC direct acting pressure relief valve.

## 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 relief valve 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 drip tight. Turning the adjusting screw allows for pressure adjustment by varying the force the spring applies to the diaphragm.

## Technical Data

**Pressure Rating:** PN25, 400 psi

**End Connections:** ¾" ISO-7 Rp, ½" NPT

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

## Materials

**Body & Cover:** Stainless Steel 316

**Elastomers:** EPDM

**Internals:** Stainless Steel 316

**Spring:** Stainless Steel 316

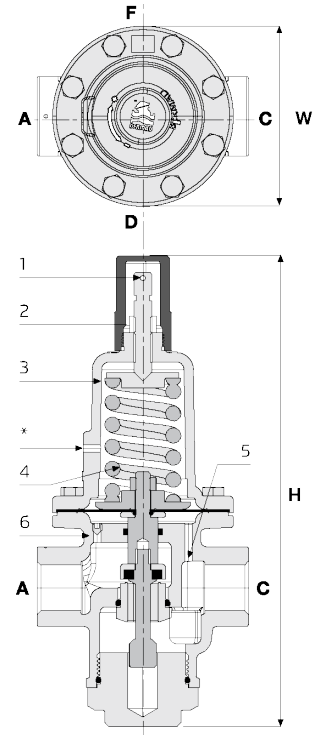
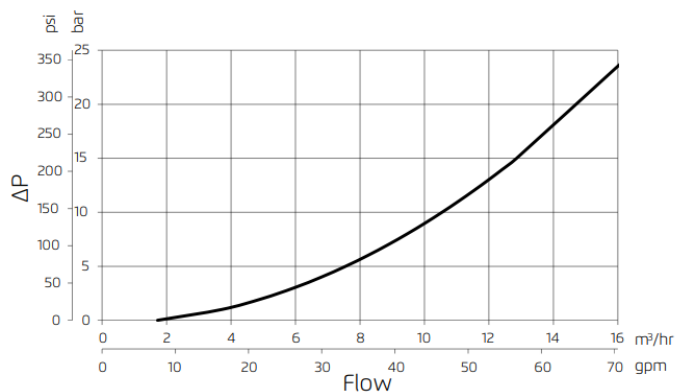
## Optional Materials

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

**Elastomers:** NBR, FPM (Viton®)

## Performance Data

Inlet Pressure / Maximum Discharge Flow Rate to Atmosphere(when the valve is fully open)



Part	Description
1	Adjusting screw
2	Locking nut
3	Cover
4	Spring
5	Internal sensing
6	Body

Port	Size	Connections
C	¾" BSP	In
A	¾" BSP	Out
F/D	½" NPT	pressure gauge

## Adjustment Range:

Model	Spring	Pressure range		1 Turn of adjusting screw = approx	
		bar	psi	bar	psi
3HC-WD-16-N (Standard)	16	1-16	15-230	2.2	31.3
3HC-WD-30-N	30	7-25	100-365	1.8	25.7