

Pressure Control Valves

Backpressure Regulators UV 1.3

Epoxy-coated Cast Valve for Pressure Relief Tasks



Technical Data

Connection DN	50 - 200
Nominal Pressure PN	25
Inlet Pressure	0 - 25 bar in 3 setting ranges
K _{vs} -Value	25 - 350 m ³ /h
Temperature	70 °C
Medium	water

Description

Medium-controlled overflow valves are simple control valves offering accurate control while being easy to install and maintain. They control the pressure upstream of the valve without requiring pneumatic or electrical control elements.

The UV 1.3 is a seat-controlled, spring-loaded overflow valve for the protection of pump systems or other pressurised vessels or pipes with high throughputs. The opening pressure is continuously adjustable from the outside. The valve works reliably for tasks to minimise pressure surge (pressure surge limitation).

One special characteristic is its very compact design. The valve cone is soft-sealed (special flat seal). The valve is made of spheroidal graphite iron with a continuous epoxy coating > 200 µm, providing excellent protection against corrosion.

Thanks to its bell shape the controller automatically empties, ensuring that the medium cannot freeze (frost protection without subsequent emptying).

Standard

- » body made of spheroidal graphite iron with an epoxy coating
- » seat control
- » bell shape, self-emptying

Options

- » factory pre-set
- » secured against unauthorised outside adjustment
- » nominal pressure PN 40

Capabilities

- » as a pump protection valve
- » as a surge limiting device

Operating instructions, know how and safety instructions must be observed. All the pressure has always been indicated as overpressure. We reserve the right to alter technical specifications without notice.



Setting Ranges [bar]

0 - 8	8 - 16	16 - 25
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K_{vs}-Values [m³/h]

nominal diameter DN	50	65	80	100	150	200
seat ø mm	40	40	62	62	137	137
K _{vs} -value m ³ /h	25	25	70	70	350	350

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Materials

Body	spheroidal cast iron epoxy coated
Bonnet	spheroidal cast iron epoxy coated
Spring	stainless steel 55SiCr6
Valve Seal	Plyurethan
Elastomere	Plyurethan

Dimensions[mm]

size	nominal diameter DN			
	50/65	80/100	150	200
A	185	235	300	360
B	185	242	404	404
C	417	540	720	720
D	40	50	220	220

Weights [kg]

nominal diameter DN				
50/65	80/100	150	200	
14	28	75	79	

Special designs on request.
 The pressure has always been indicated as overpressure.
 Mankenberg reserves the right to alter or improve the designs or specifications of the products described herein without notice.

Dimensional Drawing

