Pressure Control Valves

Back Pressure Regulators UV 1.2

Valves for Simple Regulation Tasks

Technical Data

Connection DN Nominal Pressure PN Inlet Pressure K_{vs}-Value Temperature Medium 25 - 200 16 - 40 2 - 40 bar 6 - 125 m³/h 300 °C liquids and gases

Description

Self-acting back pressure regulators 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 1.2 backpressure regulator is a spring-loaded, seat-controlled proportional control valve balanced by diaphragm, piston or bellow. It is designed for simple control tasks and medium volumes. The valve cone can be fitted with a metallic or soft seal.

The inlet pressure to be controlled is balanced across the valve seat by the force of the valve spring (set pressure). If the inlet pressure rises above the set pressure, the valve opens. With decreasing inlet pressure the valve control orifice reduces, when the pipeline is depressurised, the valve is closed. Rotating the adjusting screw clockwise increases the inlet pressure.

These valves are no shut-off elements ensuring a tight closing of the valve. In accordance with DIN EN 60534-4 and/or ANSI FCI 70-2 they may feature a leakage rate in closed position in compliance with the leakage classes III or V.

Options

- » For toxic or hazardous media: sealed spring cap complete with leakage line connection (incl. sealed adjusting screw). Must be installed with a leakage line capable of draining leaking medium safely and without pressure
- » Various diaphragm and seal materials suitable for your medium
- » Special versions on request

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



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K_{vs}-Values [m³/h]

seat	nominal diameter DN						
	25	32	40	50	65		
I	6	12	15	20	35		
Ш	-	6	12	15	20		
III	-	-	6	12	15		

K_{vs}-Values [m³/h]

¥3							
seat	nominal diameter DN						
	80	100	125	150	200		
I	40	50	80	95	125		
Ш	35	40	50	80	95		
III	20	35	40	50	80		

Setting Ranges [bar] Balanced by Diaphragm

2 - 5		4 - 8		6 - 12				
Setting Ranges [bar] Balanced by Piston								
2 - 5	4 - 8	6 - 12	8 - 16	10 -	25	20 - 35		
Setting Ranges [bar] Balanced by Bellow								
2 - 5		4 - 8	6 - 12		1	10 - 25		



\NKENBERG GmbH | Spenglerstraße 99 | D-23556 Lübeck

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Materials						
Temperature	80 °C	130 °C	300 °C			
Body	cast steel optional CrNiMo-steel					
Spring Cap	steel welded op	tional CrNiMo-ste	eel			
Spring	spring steel opti	onal CrNiMo-stee	el			
Metallic Seal	CrNi-steel optional CrNiMo-steel					
Soft Seal	NBR	EPDM optional FKM	-			
Diaphragm	CR	EPDM optional FKM	-			
O-Ring	NBR	EPDM optional FKM or FXM	-			
Bellow	CrNiMo-steel	CrNiMo-steel	CrNiMo-steel			

Dimensions [mm]

size	nominal	nominal diameter DN				
	pressure	25	32	40	50	65
A*	PN 16 - 40	160	180	200	230	290
В	PN 16 - 40	-	72	72	72	102
С	PN 16 - 40			on request	:	

Dimensions [mm]

	0					
size	nominal	nominal diameter DN				
	pressure	80	100	125	150	200
A*	PN 16 - 40	310	350	400	480	600
В	PN 16 - 40	102	102	240	240	270
С	PN 16 - 40		(on request	I	

* Overall length tolerances in acc. with DIN EN 558

Weights [kg]

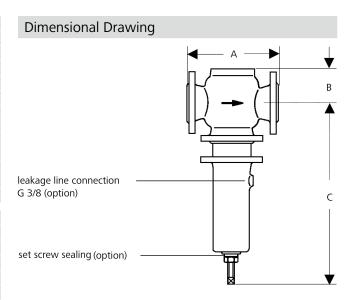
nominal nominal diameter DN	nominal diameter DN							
pressure 25 32 40 50 65 80 100 125 150 2	00							
PN 16 12 17 20 22 32 40 60 100 120 2	20							
PN 40 14 20 24 28 42 50 70 115 140 2	50							

Customs Tariff Number

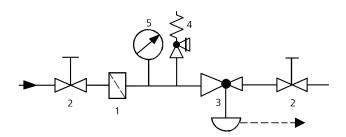
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Special designs on request.

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.



Recommended Installation



- 1 Strainer*
- 2 Shutoff valves
- 3 Backpressure regulator*
- 4 Safety Valve*
- *Use MANKENBERG-Products
- 5 Pressure Gauge
- 6 Leakage Line G 3/8
- (option)

Authorised Distributor:



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