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. All 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 dian	neter 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]

43					
seat	nominal dian	neter 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									
4 - 8	6 - 12	8 - 16	10 - 25		20 - 35				
Setting Ranges [bar] Balanced by Bellow									
2 - 5 4 - 8		6 - 12		10 - 25					
	4 - 8 s [bar] Ba	s [bar] Balanced by 4 - 8 6 - 12 s [bar] Balanced by	s [bar] Balanced by Piston 4 - 8 6 - 12 8 - 16 s [bar] Balanced by Bellow	s [bar] Balanced by Piston 4 - 8 6 - 12 8 - 16 10 - s [bar] Balanced by Bellow	s [bar] Balanced by Piston 4 - 8 6 - 12 8 - 16 10 - 25 s [bar] Balanced by Bellow				

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Materials								
Temperature	80 °C	130 °C	300 °C					
Body	cast steel option	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	ninal 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]

	•···• [·····]							
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]

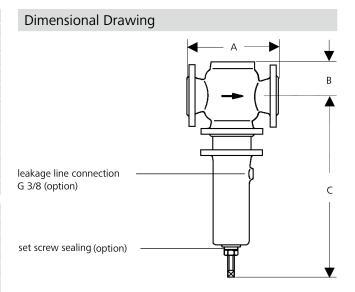
nominal	nomir	nal dia	meter	DN						
pressure	25	32	40	50	65	80	100	125	150	200
PN 16	12	17	20	22	32	40	60	100	120	220
PN 40	14	20	24	28	42	50	70	115	140	250

Customs Tariff Number

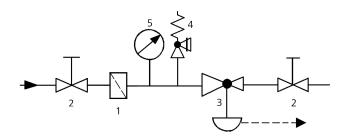
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Special designs on request.

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)