PRESSURE CONTROL

Back pressure regulators UV 1.2

Valve for medium to very high flow rates

Technical data

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

*RT = -10 °C TO + 50 °C

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 back pressure 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 bonnet 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

Product

Picture similar

Technical specification

K_{vs} values [m³/h]					
seat	nominal diameter				
	25	32	40	50	65
I	6	12	15	20	35
II	-	6	12	15	20
III	-	-	6	12	15

K_{vs} values [m³/h]					
seat	nominal diameter				
	80	100	125	150	200
I	40	50	80	95	125
II	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	10 - 25

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Please send us your enquiry and allow us to advise you. Special designs on request.
The pressure has always been indicated as overpressure. Mankenberg reserves the right to alter technical specifications without notice.

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Materials

Materials			
Temperatur	80 °C	130 °C	300 °C
Body	Cast steel optional stainless steel		
Bonnet	Steel welded optional stainless steel		
Spring	Spring steel optional stainless steel		
Metallic seal	Chromium steel optional stainless steel		
Soft seal	NBR	EPDM optional FKM	-
Diaphragm	CR	EPDM optional FKM	-
O-ring	NBR	EPDM optional FKM oder FXM	-
Bellow	Stainless steel	Stainless steel	Stainless steel

*All materials equal or of higher quality

Dimensions and weights

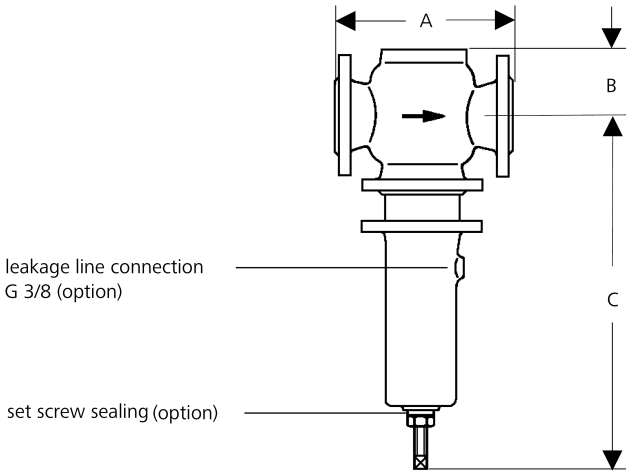
Dimensions [mm]						
size	nominal pressure	nominal diameter DN				
		25	32	40	50	65
A*	PN 16 - 40	160	180	200	230	290
B	PN 16 - 40	-	72	72	72	72
C	PN 16 - 40	on request				

Dimensions [mm]						
size	nominal pressure	nominal diameter DN				
		80	100	125	150	200
A*	PN 16 - 40	310	350	400	480	600
B	PN 16 - 40	102	102	240	240	270
C	PN 16 - 40	on request				

*overall length tolerances in acc. with DIN EN 558

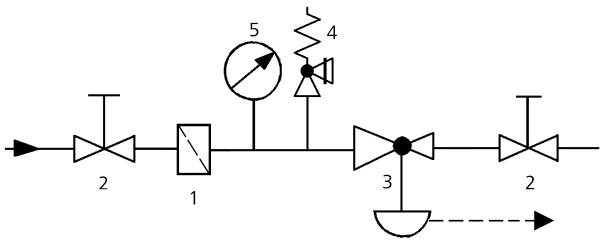
Weights [kg]										
nominal pressure	nominal diameter DN									
	25	32	40	50	65	80	100	125	150	200
PN 16	12	17	20	22	32	40	60	100	120	220
PN 40	14	20	24	28	42	50	70	115	140	250

Customs tariff number
84814010



Recommended installation

1	Strainer	4	Safety valve
2	Shut-off valves	5	Pressure gauge
3	Back pressure regulator	6	Leakage line connection G 3/8 (optional)



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