## **Pressure Control Valves**

### Back Pressure Regulators UV 3.8K

Valve for Viscous Media

#### Technical Data

Connection DN Connection G Nominal Pressure PN Inlet Pressure K<sub>vs</sub>-Value Temperature Medium

#### 15 - 100 1/2 - 2 10 - 16 2 - 16 bar 3.5 - 9 m³/h 180 °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 backpressure regulator UV 3.8K is a piston-controlled , spring-loaded proportional valve for viscous media at medium flow rates. The valve cone is provided with a metallic seal.

This valve is manufactured from deep-drawn stainless steel featuring excellent corrosion resistance. It contains virtually no dead pockets. The angled design allows complete draining.

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 (metal sealing cone - 0.1 % K<sub>vs</sub> value).

#### Standard

- » medium wetted parts made of CrNiMo-Stahl
- piston controlled »

#### 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 O-ring and seal materials suitable for your medium
- special connections: ANSI or JIS flanges, NPT, welding spigots; other connections on request
- » 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.

K <sub>vs</sub> Values[m <sup>3</sup> /h]															
	nominal	DN	15	20	25	32	40	50	65	80	100				
	diameter	G	1/2	3/4	1	1 1/4	1 1/2	2	-	-	-				
	K <sub>vs</sub> value	m³/h	3.5	3.5	3.5	3.5	5.5	5.5	9	9	9				
	Pressure R	anges	[bar],	Nom	inal P	ressur	e								
	2	- 5			4 -	10		8 - 16							
	PN	10			PN	16	PN 16								



Nys Faracs	[ ,]									
nominal	DN	15	20	25	32	40	50	65	80	100
diameter	G	1/2	3/4	1	1 1/4	1 1/2	2	-	-	-
$K_{vs}$ value	m³/h	3.5	3.5	3.5	3.5	5.5	5.5	9	9	9
Pressure F	Ranges	[bar],	Nom	inal P	ressui	re				
2	- 5			4 -	10			8 -	16	

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## Back Pressure Regulators UV 3.8K



Valve for Viscous Media

Mate	rials								
Temp	erature	80	) °C		130	°C	1	50 °C	
Body		C	'NiMo-s	teel	CrNi	Mo-stee	el C	rNiMo-s	steel
Spring	Cap	st	eel welc	led opt	tional C	rNiMo-	steel		
Spring		sp	oring ste	el C op	otional	CrNi-ste	el		
O-Ring	9	N	BR		EPDI FPM	V optio	nal Fl	PM-PTFE	E coated
	nsions								
size	nomina	I diame	eter DN						
	15	20	25	32	40	50	65	80	100
А	90	95	100	105	115	125	145	155	190
В	90	95	100	105	115	125	145	155	175
С	500	500	500	500	500	500	500	600	800
øD	200	200	200	200	200	200	200	200	240
Weig	nts [kg	]							
nomir	al diam	eter Di	N						
15	20	2	5 3	2	40	50	65	80	100
10,8	11,3	3 11	,8 13	,0 1	13,5	15,0	16,7	18,7	22,0
Dime	nsions	[mm]							
size	nomina	I diame	eter G						
	1/2		3/4	1		1 1/4	11	/2	2
А	80		80	80	)	80	8	C	80
В	80		80	80	)	85	11	5	125
С	500		500	50		500	50		600
øD	200		200	20	0	200	20	0	200
-	nts [kg								
	al diam								
1/		3/4		1		1/4	1 1/2	2	2
8	5	8,2		8,5		8,8	9		9,4
Custo	ms Tar	iff Nu	mber						
84814	010								

#### 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.

# Strainer Shutoff valves

- 3 Backpressure Regulator
- 4 Safety Valve
- use MANKENBERG-Products

**Recommended Installation** 

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6 Leakage Line G 3/8 (option)

5 Pressure Gauge