

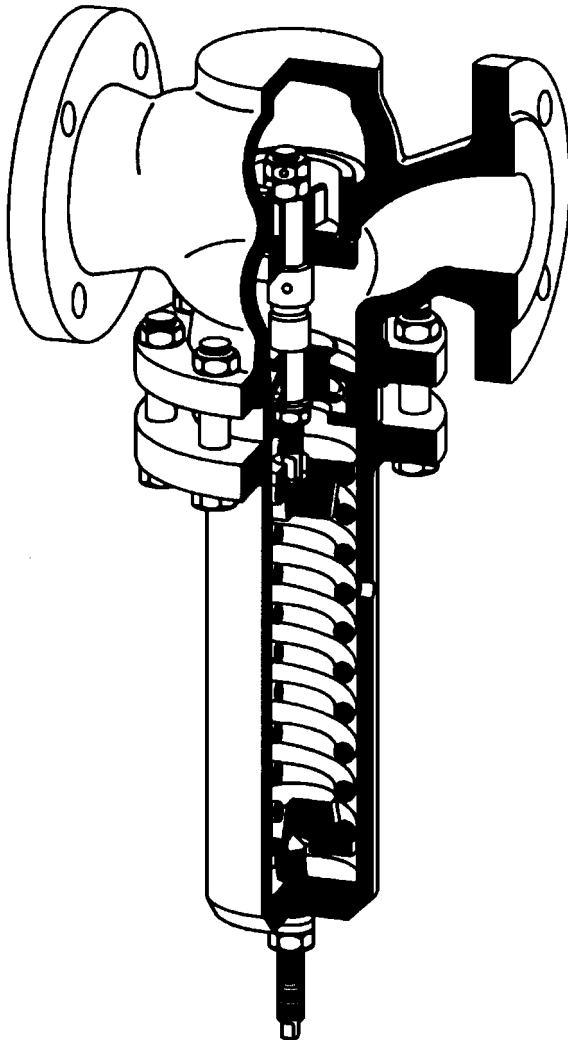
OVERFLOW VALVES

for liquids and gases
up to 300 °C



WIR REGELN DAS SCHON.

Type 1.2



TECHNICAL DATA

MEDIUM	liquids, gases
NOMINAL PRESSURE	PN 16 - 40
CONNECTION	DN 25 - 200
INLET PRESSURE	2 - 40 bar
TEMPERATURE	Type 1.2M + 1.2K up to 130 °C Type 1.2B up to 300 °C
KVS-VALUE	6 - 125 m ³ /h

DESCRIPTION

Overflow valves limit the inlet side pressure to a value no greater than the preset pressure level of the valve.

The type 1.2 overflow valve is a spring-loaded seat-controlled proportional control valve for medium flow rates, featuring a diaphragm-, piston- or bellows-controlled relief mechanism. Valve cones can be supplied with soft or metallic seals. The tightness of the valve seal is equal to or better than VDI/VDE rule 2174.

Whith a depressurized system the valve is kept closed by the spring. An increasing inlet pressure acts on the cone spring system. The inlet pressure is balanced by the force of the valve spring (set pressure). As the inlet pressure rises above the pressure set by means of the setting screw, the valve starts to open. The pressure setting can be increased by turning the setting screw clockwise.

The maximum permitted inlet pressure is 1,5 times the set pressure, unless otherwise specified.

If toxic or hazardous media are used the valve must feature a sealed spring cover (including setting spindle seal) fitted with a leakage line connection. When the pressure reducer is installed on site a leakage line must be fitted capable of safely draining the escaping medium in case the control valve should become defective.

Mankenberg reserves the right, to alter or improve the designs or specifications of the products described herein without notice.

Special designs on request.

KVS-VALUES m ³ /h					
seat	nominal diameter DN				
	25	32	40	50	65
I	6	12	15	20	35
II	-	6	12	15	20
III	-	-	6	12	15

KVS-VALUES m ³ /h					
seat	nominal diameter DN				
	80	100	125	150	200
I	40	50	80	95	125
II	35	40	50	80	95
III	20	35	40	50	80

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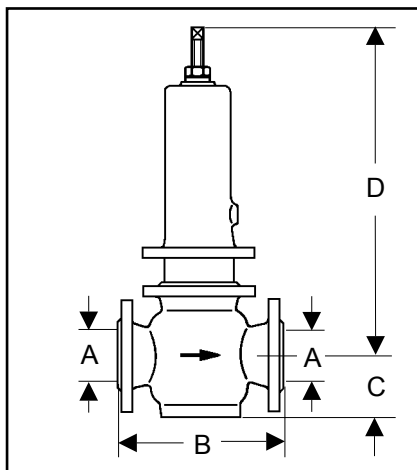


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Type 1.2

MATERIALS

TEMPERATURE	80 °C	130 °C	300 °C
BODY	GG-20 / GS-C25 / CrNiMo-steel		
SPRING CAP	steel welded / CrNiMo-steel		
SPRING	spring steel C / CrNiMo-steel		
VALVE SEAL	NBR / Cr-Mo-steel / CrNiMo-steel	EPDM / FPM / CrMo-steel / CrNiMo-steel	CrMo-steel / CrNiMo-steel
DIAPHRAGM	CR	EPDM / FPM	-
O-RING	NBR	EPDM / FPM / FXM	-
BELLOW	CrNiMo-steel		



DIMENSIONS [mm]

size	nominal pressure	nominal diameter DN (size A)				
		25	32	40	50	65
B	PN 16 - 25/40	160	180	200	230	290
C	PN 16 - 25/40	-	72	72	72	102
D	PN 16 - 40	on request				

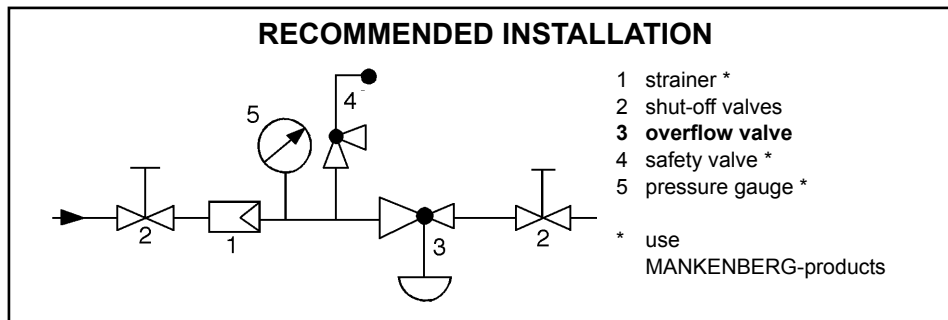
DIMENSIONS [mm]

size	nominal pressure	nominal diameter DN (size A)				
		80	100	125	150	200
B	PN 16 - 25/40	310	350	400	480	600
C	PN 16 - 25/40	102	102	240	240	270
D	PN 16 - 40	on request				

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 25/40	14	20	24	28	42	50	70	115	140	250

RECOMMENDED INSTALLATION



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