

OVERFLOW VALVES

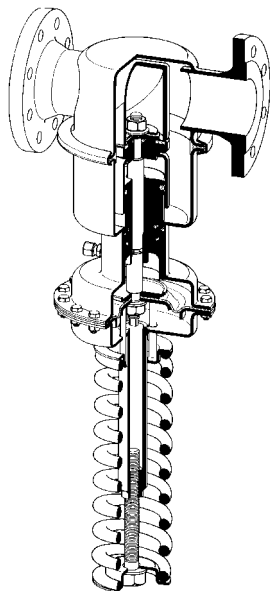
for fluids and gases
up to 130 °C



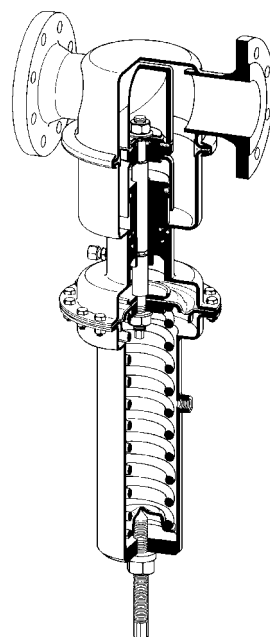
WIR REGELN DAS SCHÖN.

Type 4.7
4.8

Type 4.7



Type 4.8



TECHNICAL DATA

MEDIUM	fluids, gases
NOMINAL PRESSURE	PN 16 / 10 / 6 / 2,5 / 1
CONNECTION	DN 50 - 100
INLET PRESSURE	0,02 - 10 bar
	in 7 adjusting ranges
TEMPERATURE	up to 130 °C
KVS-VALUE	32 - 100 m ³ /h
DESIGNS	type 4.7 with open spring cap type 4.8 with closed spring cap

DESCRIPTION

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

The overflow valves type 4.7 and 4.8 are spring-loaded proportional controllers for high flow rates. The valve cone is built as soft seal (up to 130 °C). The tightness of the valve seal is equal to or better than VDI/VDE rule 2174.

With a depressurized system the valve is kept closed by the spring. An increasing inlet pressure acts on the control section 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.

The overflow valves type 4.7 and 4.8 only working with a sense line (which has to be installed at site).

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]			
nominal diameter DN			
50	65	80	100
32	50	80	100

ADJUSTING RANGES [bar], NOMINAL PRESSURE						
4,5 - 10	2 - 5	0,8 - 2,5	0,2 - 1,2	0,1 - 0,6	0,02 - 0,25	0,02 - 0,15
PN 16	PN 10	PN 6	PN 2,5	PN 1	PN 1	PN 1

OVERFLOW VALVES

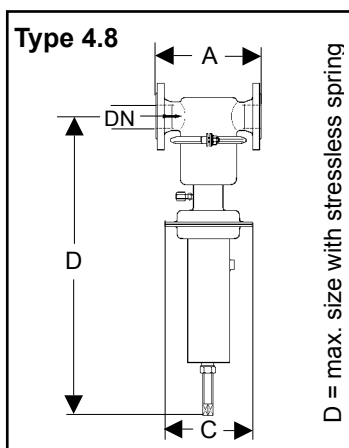
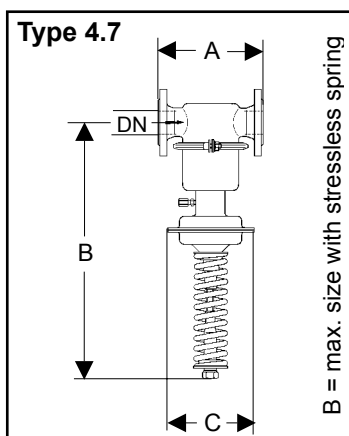
for fluids and gases
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Type 4.7
4.8

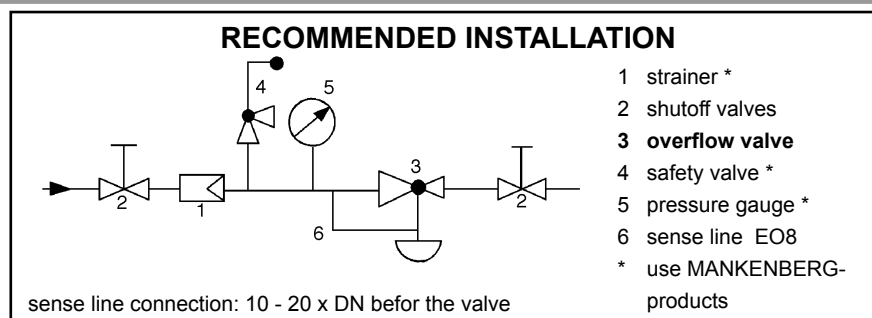
MATERIALS	
TEMPERATURE	130 °C
BODY	CrNiMo-steel
DIAPHRAGM HOUSING	CrNiMo-steel
SPRING CAP	steel / CrNiMo-steel
SPRING	steel / CrNiMo-steel
VALVE SEAL	EPDM / FPM
DIAPHRAGM	EPDM / FPM
O-RING (balance)	EPDM / FPM



DIMENSIONS [mm]								
pressure range bar	DN 50				DN 65			
	A	B	C	D	A	B	C	D
4,5 - 10	230	610	220	750	290	750	220	890
2 - 5	230	610	220	750	290	750	220	890
0,8 - 2,5	230	610	220	750	290	750	220	890
0,2 - 1,2	230	610	270	750	290	750	270	890
0,1 - 0,6	230	610	360	750	290	750	360	890
0,02 - 0,25	230	500	360	640	290	640	360	780
0,02 - 0,15	230	500	500	640	290	640	500	780

DIMENSIONS [mm]								
pressure range bar	DN 80				DN 100			
	A	B	C	D	A	B	C	D
4,5 - 10	310	750	220	890	350	750	220	890
2 - 5	310	750	220	890	350	750	220	890
0,8 - 2,5	310	750	220	890	350	750	220	890
0,2 - 1,2	310	750	270	890	350	750	270	890
0,1 - 0,6	310	750	360	890	350	750	360	890
0,02 - 0,25	310	640	360	780	350	640	360	780
0,02 - 0,15	310	640	500	780	350	640	500	780

WEIGHTS [kg]				
pressure range bar	nominal diameter DN			
	50	65	80	100
4,5 - 10	30	31	33	35
2 - 5	30	31	33	35
0,8 - 2,5	30	31	33	35
0,2 - 1,2	33	34	36	38
0,1 - 0,6	36	37	39	41
0,02 - 0,25	37,5	38,5	38,5	38,5
0,02 - 0,15	37,5	38,5	38,5	38,5



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