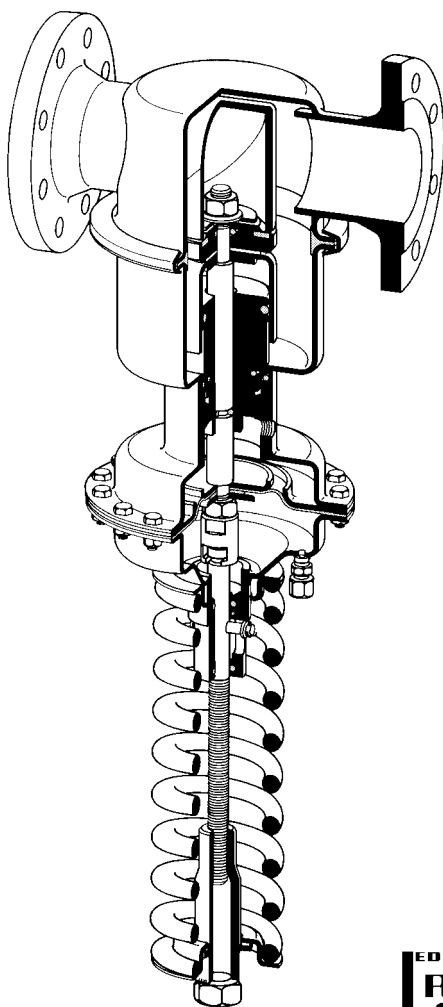


PRESSURE REDUCING VALVES

for liquids and gases
up to 130 °C

MANKENBERG
INDUSTRIEARMATUREN
Type 664



TECHNICAL DATA

MEDIUM	liquids, gases
NOMINAL PRESSURE	PN 16 / 10, 6, 2,5, 1
CONNECTION	DN 50 - 100
INLET PRESSURE	up to 16 bar
OUTLET PRESSURE	0,02 - 5 bar in 6 ranges
TEMPERATURE	up to 130 °C
KVS-VALUE	32 - 100 m ³ /h
DESIGN	open spring cap (standard) closed spring cap (special design)

DESCRIPTION

Pressure reducing valves control the pressure at the outlet side.

The pressure reducer type 664 is a diaphragm-controlled, spring-loaded proportional controller with release. The valve cone is built as a soft seal (up to 130 °C). The sealing is equal to or better than VDI/VDE rule 2174.

With depressurized pipeline the spring keeps the valve cone in open position. Under pressure the medium flows from the inlet side through the valve seat into the body and acts on the diaphragm /spring system from the outlet side (outlet pressure).

The outlet pressure balances the force of the valve spring across the diaphragm (set value). As the outlet pressure rises above the pressure set using the setting screw, the valve cone moves toward the seat causing the flow to be restricted. As the outlet pressure drops the restricting orifice becomes larger. The valve is fully open if the pipeline is depressurized. Rotating the setting screw clockwise increases the outlet pressure.

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

In the case of toxic or hazardous media the valve must be fitted with an additional leakage line connection. When the overflow valve 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 pressure reducing valves 664 are operated by 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

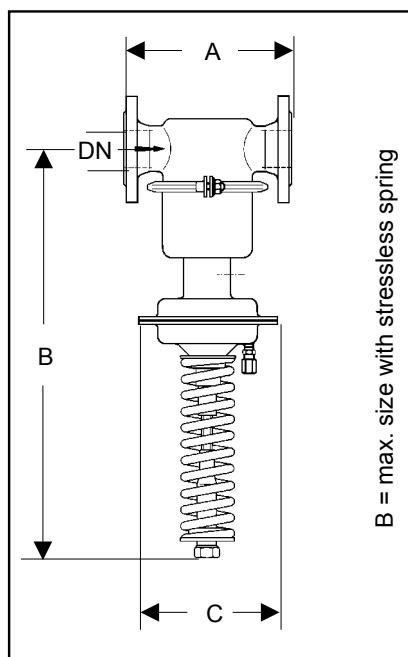
ADJUSTING RANGES [bar], NOMINAL PRESSURE					
2 - 5	0,8 - 2,5	0,2 - 1,2	0,1 - 0,6	0,02 - 0,25	0,02 - 0,15
16/10	16/6	16/2,5	16/1	16/1	16/1

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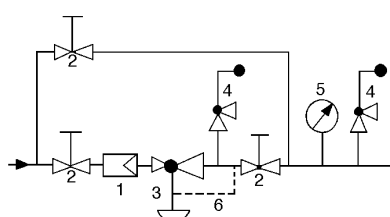
MATERIALS	
TEMPERATURE	130 °C
BODY	CrNiMo-steel
DIAPHRAGM HOUSING	
SPRING CAP	
SPRING	
VALVE SEAL	EPDM / FPM
DIAPHRAGM	
O-RING (balance)	



DIMENSIONS [mm]												
pressure range bar	DN 50			DN 65			DN 80			DN 100		
	A	B	C	A	B	C	A	B	C	A	B	C
2 - 5	230	740	220	290	790	220	310	790	220	350	790	220
0,8 - 2,5	230	740	220	290	790	220	310	790	220	350	790	220
0,2 - 1,2	230	740	270	290	790	270	310	790	270	350	790	270
0,1 - 0,6	230	740	360	290	790	360	310	790	360	350	790	360
0,02 - 0,25	230	650	360	290	700	360	310	700	360	350	700	360
0,02 - 0,15	230	650	500	290	700	500	310	700	500	350	700	500

WEIGHTS [kg]				
pressure range bar	nominal diameter			
	50	65	80	100
2 - 5	33	34	37	39
0,8 - 2,5	34	35	37	39
0,2 - 1,2	34	35	37	39
0,1 - 0,6	37	38	40	42
0,02 - 0,25	40	41	43	45
0,02 - 0,15	40	41	43	45

RECOMMENDED INSTALLATION



sense line connection: 10 - 20 x DN behind the valve

- 1 strainer *
- 2 shutoff valves
- 3 **pressure reducing valve ***
- 4 safety valve *
- 5 pressure gauge *
- 6 sense line EO8
- * use MANKENBERG-products

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