

# Pipeline Ancillaries

## Backflow Preventer RV 11

Epoxy Coated Backflow Preventer



### Technical Data

Connection DN	40 - 400
Nominal Pressure PN	10 - 16
K <sub>v5</sub> -Value	25 - 2550 m <sup>3</sup> /h
Temperature	80 °C
Medium	water

### Description

Backflow preventers are valves preventing the backflow of the flow medium.

The backflow preventer RV 11 operates without spring or valve cone but with a diaphragm formed in an optimised way made of EPDM or NBR, which lays itself tightly closed around the flow cone when the flow goes backward. The diaphragm elasticity allows opening at abt. 1 m/s and closes noiselessly.

The backflow preventer RV is predominantly used for water and slightly aggressive liquids in order to prevent backflow when pumps are switched off or over. It is also utilised as backpressure relief valve and vacuum breaker. Water hammers are dampened by the diaphragm.

The installation length is in accordance with EN 558-1.

### Standard

- » body with epoxy-coating
- » plug

### Options

- » various materials for diaphragms and seals, suitable for your medium
- » special versions upon 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.



### Flow Capacity

nominal diameter DN	40	50	65	80	100	125
K <sub>v5</sub> -value m <sup>3</sup> /h	25	38	65	100	158	237
ζ	6,41	6,91	6,68	6,58	6,44	6,98

### Flow Capacity

nominal diameter DN	150	200	250	300	350	400
K <sub>v5</sub> -value m <sup>3</sup> /h	350	640	970	1400	1900	2550
ζ	6,6	6,1	6,6	6,5	6,5	6,4

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### Materials

Body, Bonnet, Internals	GG 25, GGG 40
Diaphragm	NBR, EPDM
Guide	GG 25, GGG 40

### Dimensions [mm]

Size	nominal diameter DN					
	40	50	65	80	100	125
A	180	200	240	260	300	350
øD	150	175	220	220	292	292

### Dimensions [mm]

size	nominal diameter DN					
	150	200	250	300	350	400
A	400	500	600	700	800	900
øD	292	380	446	550	645	720

### Weights [kg]

nominal diameter DN						
40	50	65	80	100	125	
9.5	14.1	16	24	49	50.5	

### Weights [kg]

nominal diameter DN						
150	200	250	300	350	400	
55	101	146	251	352	423	

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.

### Dimensional Drawing

