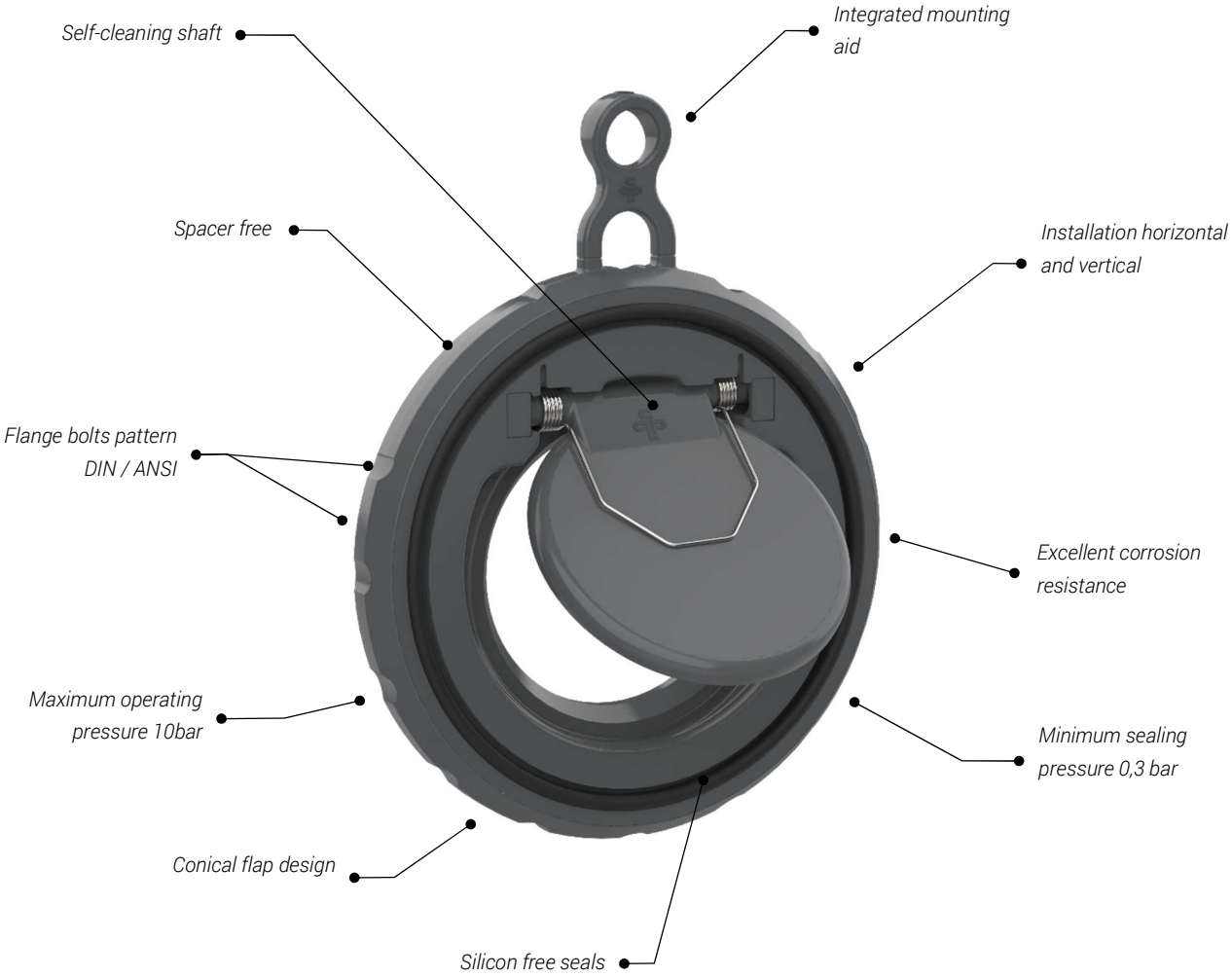
PRAHER PLASTICS

Wafer Check Valve K6

PVC-U

DATASHEET

Wafer check valve K6



Overview

General		
Materials	Body material	PVC-U
	Sealing material	FPM / EPDM
Dimensions	DN40 – DN350 d50 – d355 1 ½“ – 14“	
Connection variants	Flange	DIN 2501 PN10 / ANSI class150
Spring	Mat. 1.4401	
	Hastelloy C-4	
Operating pressure	DN40 – DN200 DN250 – DN300 DN350	MOP 10bar MOP 8bar MOP 6bar

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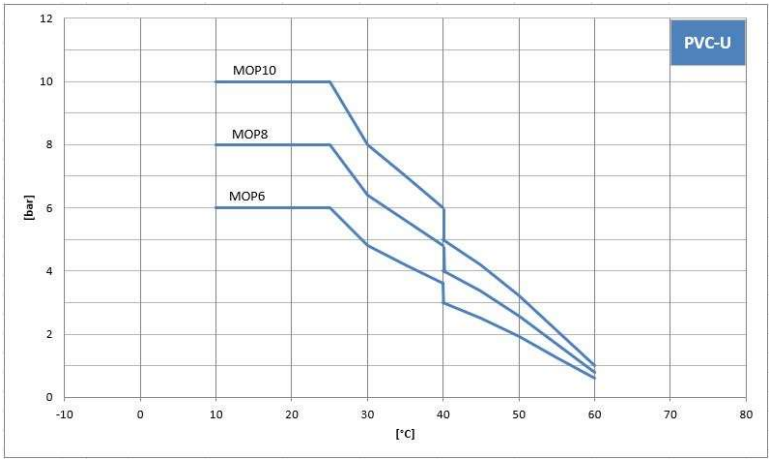
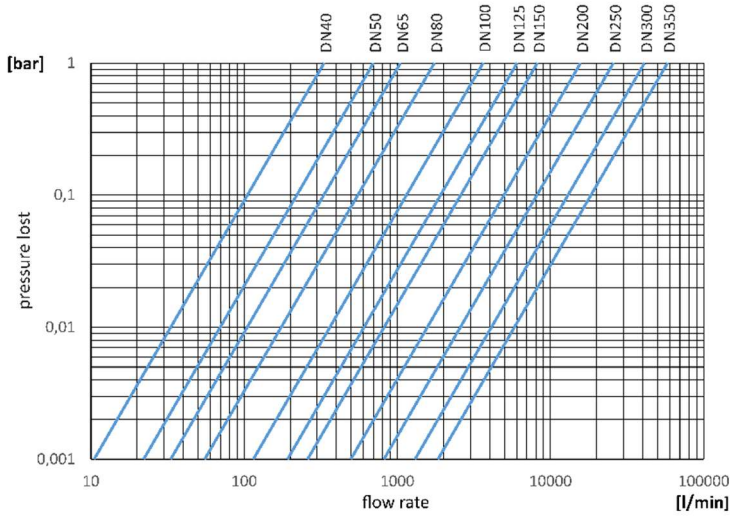
Technical Data

Pressure Temperature Diagram



The values of the Pressure Temperature Diagram are based on a service life of 25 years at static pressure load and apply to water or water-like media at 20°C.

Flow - Pressure Drop - CV Value



Technical Data

CV-Value-Table

Values of the pressure drop diagram result with an opening angle "W" according to the Dimensions table and flow medium water at 20°C!

Pressure Loss	DN40 d50	DN50 d63	DN65 d75	DN80 d90	DN100 d110	DN125 d140	DN150 d160	DN200 d225
0,001 bar	10,5	22,1	33,2	55,3	114,9	191,9	259,8	497,5
1 bar	333	700	1.050	1.750	3.633	6.067	8.217	15.733

Druckverlust	DN250 d280	DN300 d315	DN350 d355
0,001 bar	816,8	1.301,8	1.839,4
1 bar	25.833	41.167	.58.167

(Data in l/min) Follow Installation Instruction

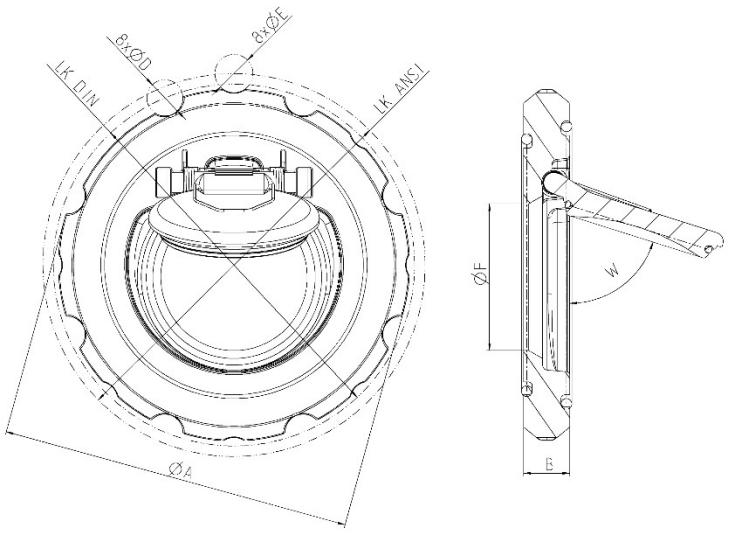
Opening Pressure (without Spring)

Dimension	Mounting Position	
	horizontal	vertical
DN40	*2 mbar*	*10 mbar*
DN50	*2 mbar*	*10 mbar*
DN65	*2 mbar*	*10 mbar*
DN80	*2 mbar*	*10 mbar*
DN100	*2 mbar*	*10 mbar*
DN125	*3 mbar*	*15 mbar*
DN150	*3 mbar*	*15 mbar*
DN200	*3 mbar*	*15 mbar*
DN250	*4 mbar*	*20 mbar*
DN300	*4 mbar*	*20 mbar*
DN350	*6mbar*	*30 mbar*

Opening pressure with spring approx. 10 mbar higher!
The opening pressure is the differential pressure required to open the valve!

For further information and notes, see operating instructions.

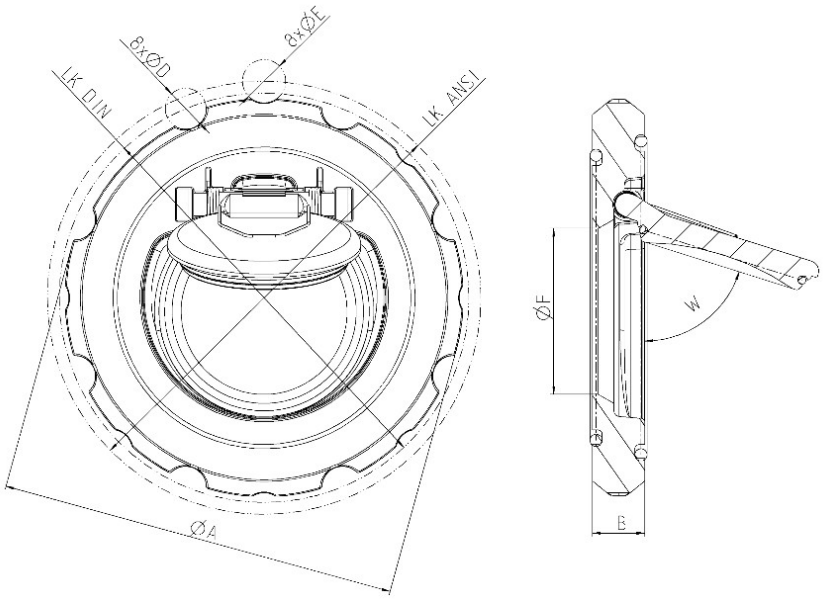
Dimensions



DN	40	50	65	80	100	125	150	200
d	50	63	75	90	110	140	160	225
Inch	1½“	2“	2½“	3“	4“	5“	6“	8“
ØA	95	109	130	146	175	198	223	280
B	16	18	20	20	23	25	30	34
LK DIN	110	125	145	160	180	210	240	295
ØD	18	18	18	18	18	18	22	22
LK ANSI	98,5	120,7	139,7	152,4	190,5	215,9	241,3	298,5
ØE	15,5	19	19	19	19	22,2	22,2	22,2
ØF	23,5	33	42	53	73	93	110	150
W*	91	88,5	82	84,5	72,5	73,5	69	74
W**	93,5	92,5	86	88,5	78	79	75	79

(Dimensions in mm)
(“W” Dimensions in degree)
*Pipe PN10 – Follow the Installation Instructions
**Pipe PN6 – Follow the Installation Instructions

Dimensions



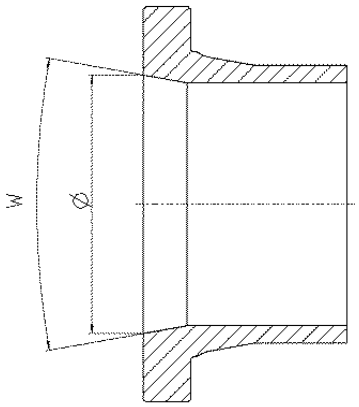
DN d Inch	250 280 10“	300 315 12“	350 355 14“
ØA	343	406,4	447,6
B	42	47	51
LK DIN	350	400	460
ØD	22	22	22
LK ANSI	361,95	431,8	476,25
ØE	25,4	25,4	28,6
ØF	186	229	261**
W*	74,5	66,5	69
W**	80	72	73

(Dimensions in mm)
(“W” Dimensions in degree)
*Pipe PN10 – Follow the Installation Instructions
**Pipe PN6 – Follow the Installation Instructions

Dimensions

Installation Instructions

There must be a clearance in the pipeline on the outlet side according to the table in order to ensure the correct opening of the valve.



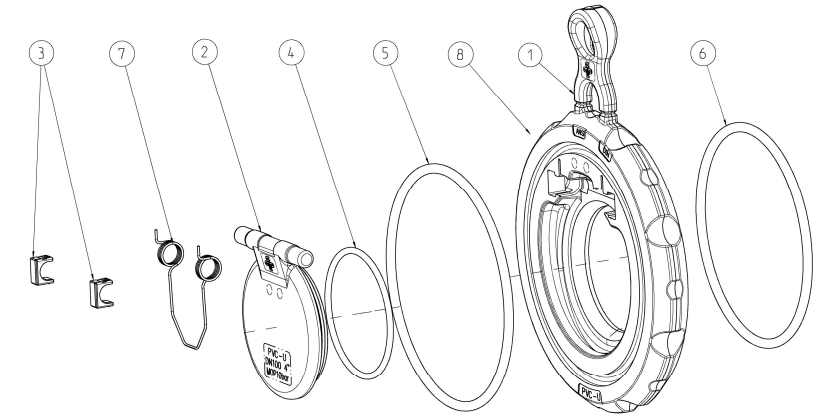
Dimension	DN40 d50	DN50 d63	DN65 d75	DN80 d90	DN100 d110	DN125 d140	DN150 d160	DN200 d225
ø	46	57	68	80	103	128	147	198
W	*20*	*20*	*20*	*20*	*20*	*20*	*20*	*20*

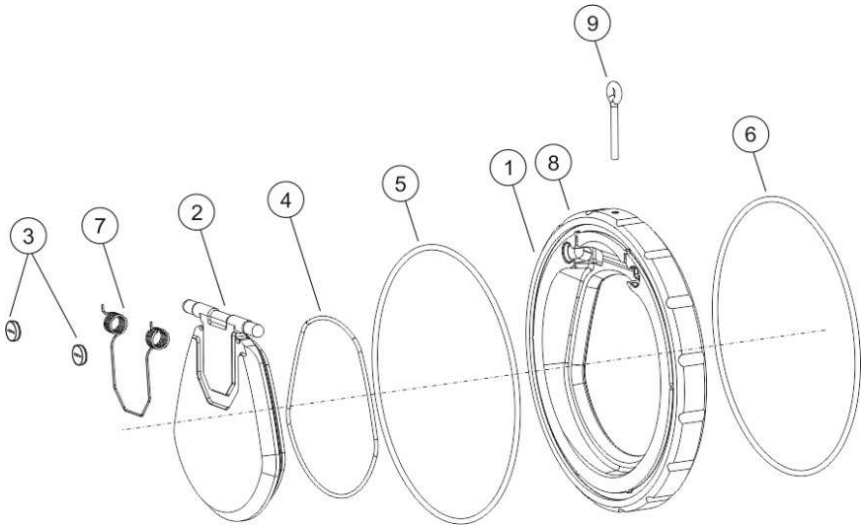
Dimension	DN250 d280	DN300 d315	DN350 d355
ø	247	292	338
W	*20*	*20*	*15*

(Dimensions in mm)
(„W" Dimensions in degree)

EXPLOSION DRAWING

No.	Description	Material
1.	Body	PVC-C
2.	Flap	PVC-C
3.	Flap clips	PVC-C
4.	O-Ring Flap	FPM / EPDM
5.	Front O-Ring Body	FPM / EPDM
6.	Rear O-Ring Body	FPM / EPDM
7.	Spring	1.4401 / Hastelloy C-4
8.	Label	
9.	Eye bolt	galvanized (from DN250)





Accessories / Spare parts

O-Ring Seal Kit

- Material: EPDM / FPM

Consisting of:

- O-Ring Flap
- Front O-Ring Body
- Rear O-Ring Body

Spring Set

- Material: 1.4401 / Hastelloy C-4

Consisting of:

- Spring

NOTES

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