

Datasheet Wafer Check Valve Type 369



Advantages

- Self closing wafer check valve for vertical or horizontal installation
- Suitable for installation between ISO/DIN and also ANSI flange adaptors / flanges
- Simple installation between standard flanges
- All parts are made from highly resistant plastics and sealing materials
- Robust and maintenance free design
- Optimized flange seal

Dimensions	
d40DN32-d315DN300 / 1 1/4" - 12" up to DN600 / 24" available on request	
Materials for valve body	Sealing materials
PVC-U, PP-H, PVDF	EPDM, FPM
Connection type	Accessories
Flanges	Spring in stainless steel V4a or Hastelloy C
Pressure rate	Suitable outlet flange adaptors
PN 6 / PN 10	

kv 100-values

PVC-U, Pipe PN10					
DN	Inch	d	kv 100	Cv 100	kv 100
mm		mm	l/min	US gal./min	m ³ /h
			($\Delta p = 1 \text{ bar}$)	($\Delta p = 1 \text{ psi}$)	($\Delta p = 1 \text{ bar}$)
32	1¼	40	270	18.9	16.2
40	1½	50	370	25.9	22.2
50	2	63	900	63.0	54.0
65	2½	75	1140	79.8	68.0
80	3	90	1870	130.9	112.0
100	4	110	2870	200.9	172.0
125	5	140	5700	399.0	342.0
150	6	160	6900	483.0	414.0
200	8	225	18800	1316.0	1128.0
250	10	280	25000	1750.0	1500.0
300	12	315	27600	1932.0	1656.0

PP with outlet flange adaptor PP/PE, SDR11 PN10					
DN	Inch	d	kv 100	Cv 100	kv 100
mm		mm	l/min	US gal./min	m³/h
			(Δp = 1 bar)	(Δp = 1 psi)	(Δp = 1 bar)
32	1¼	40	280	19.6	16
40	1½	50	340	23.8	20
50	2	63	610	42.7	36
65	2½	75	1230	86.1	74
80	3	90	2610	182.7	157
100	4	110	3930	275.1	236
125	5	140	7120	498.4	427
150	6	160	9180	642.6	551
200	8	225	17600	1232.0	1056
250	10	280	24400	1708.0	1464
300	12	315	31900	2233.0	1914

PVDF, Pipe PN10					
DN	Inch	d	kv 100	Cv 100	kv 100
mm		mm	l/min	US gal/min	m³/h
			(Δp = 1 bar)	(Δp = 1 psi)	(Δp = 1 bar)
32	1¼	40	280	19.6	16
40	1½	50	340	23.8	20
50	2	63	610	42.7	36
65	2½	75	1230	86.1	74
80	3	90	2610	182.7	157
100	4	110	3930	275.1	236
125	5	140	7120	498.4	427
150	6	160	9180	642.6	551
200	8	225	17600	1232.0	1056
250	10	280	24400	1708.0	1464
300	12	315	31900	2233.0	1914

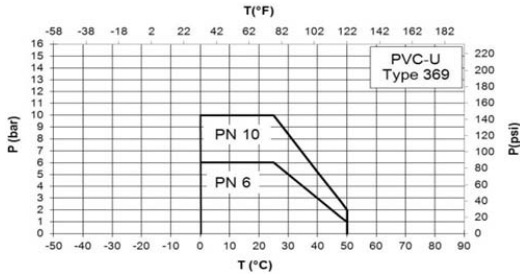
Exploded view



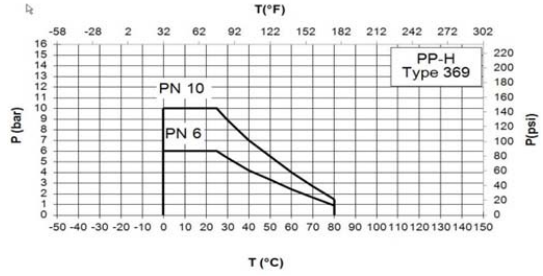
1. Screw and washer	4. Special flange gasket
2. Flange	5. Wafer check valve
3. Socket flange adaptor butt fusion flange adaptor	6. Nut and washer

P / T-Diagrams

PVC-U

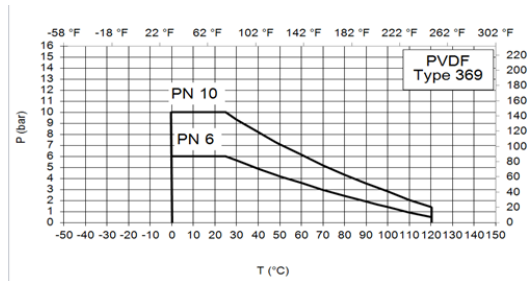


PP-H



P: Permissible pressure in bar, psi, T: Temperature in °C, °F

PVDF

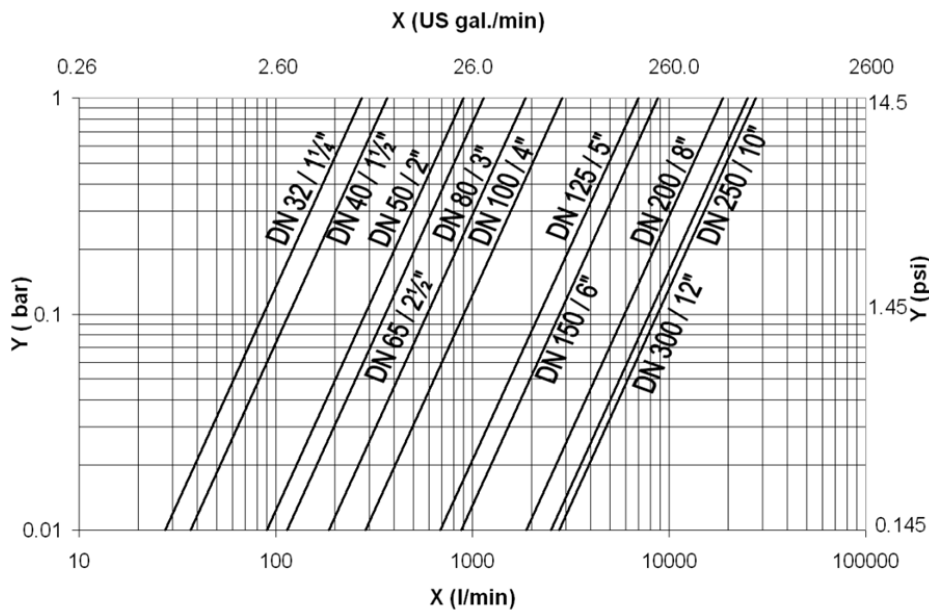


P: Permissible pressure in bar, psi, T: Temperature in °C, °F

The pressure temperature diagrams are based on a lifetime of 25 years and the medium water or similar media.

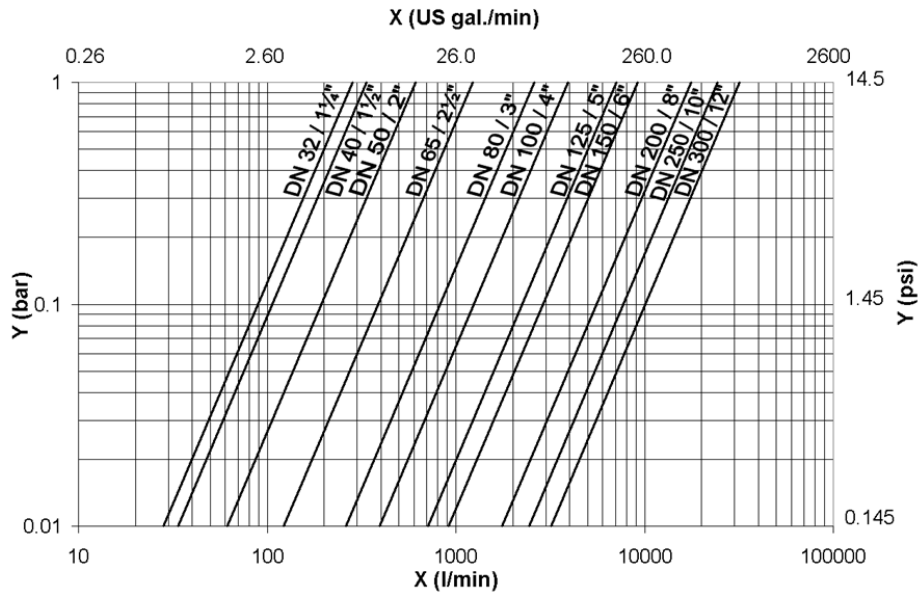
Pressure loss diagrams

PVC-U, Pipe PN10



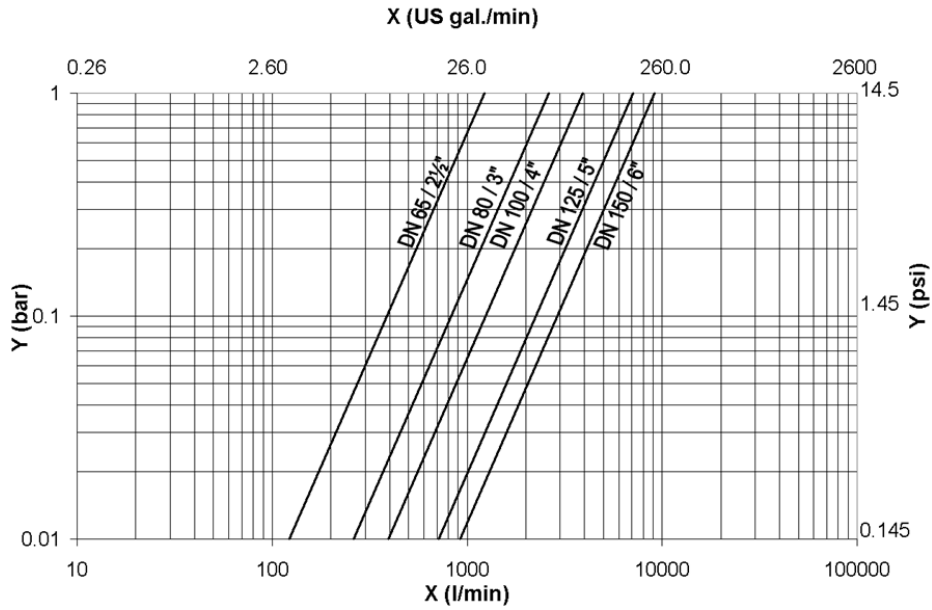
X: Flow rate (l/min, US gal/min), Y: Pressure loss Δp (bar, psi)

PP with outlet flange adaptor PP/PE, SDR11 PN10



X: Flow rate (l/min, US gal/min), Y: Pressure loss Δp (bar, psi)

PVDF, Pipe PN10

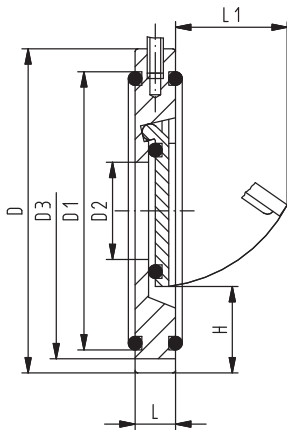


X: Flow rate (l/min, US gal/min), Y: Pressure loss Δp (bar, psi)

Opening pressure , Tightness

Diameter DN	Opening pressure in mbar				Minimum water column for sealing in m	
	Vertical without spring	Vertical with spring	Horizontal without spring	Horizontal with spring	PVC-U	PP
					PVDF	
32	10	30	1	20	2	3
40	10	30	1	20	2	3
50	10	30	1	20	2	3
65	10	30	1	20	2	3
80	10	30	1	20	2	3
100	10	30	1	20	2	3
125	10	30	1	20	2	3
150	10	30	1	20	2	3
200	18	38	1	20	2	3
250	18	38	1	20	2	3
300	18	38	1	20	2	3

Dimensions



Wafer check valve Type 369 PVC-U without spring									
d	DN	Inch	D	D1	D2	D3	L	L1	H
mm	mm		mm	mm	mm	mm	mm	mm	mm
40	32	1 ¼	85	59	18	85	15	22	25
50	40	1 ½	105	74	22	95	16	27	27
63	50	2	124	90	32	109	18	40	29
75	65	2 ½	137	110	40	129	20	55	31
90	80	3	175	125	54	144	20	67	32
110	100	4	175	150	70	164	23	67	31
140	125	4	195	178	92	195	23	94	35
160	150	5	222	192	105	220	26	100	41
225	200	6	279	256	154	275	35	152	38
280	250	8	340	306	192	330	40	180	41
315	300	10	410	342	227	380	45	215	41

Wafer check valve Type 369 PP-H									
d	DN	Inch	D	D1	D2	D3	H	L	L1
mm	mm		mm	mm	mm	mm	mm	mm	mm
40	32	1 ¼	85	59	18	85	25	15	22
50	40	1 ½	105	72	22	95	28	16	27
63	50	2	124	86	32	109	29	18	40
75	65	2 ½	137	105	40	129	31	20	55
90	80	3	175	119	54	144	32	20	67
110	100	4	175	146	70	164	31	23	67
140	125	4	195	173	92	195	35	23	94
160	150	5	222	197	105	220	42	26	100
225	200	6	279	255	154	275	38	35	152
280	250	8	340	312	192	330	41	40	180
315	300	10	410	363	227	380	41	45	215

Wafer check valve Type 369 PVDF									
d	DN	Inch	D	D1	D2	D3	L	L1	H
mm	mm		mm	mm	mm	mm	mm	mm	mm
40	32	1 ¼	85	59	18	85	15	22	25
50	40	1 ½	105	74	22	95	16	27	27
63	50	2	124	90	32	109	18	40	29
75	65	2 ½	137	110	40	129	20	55	31
90	80	3	175	125	54	144	20	67	32
110	100	4	175	150	70	164	23	67	31
140	125	4	195	178	92	195	23	94	35
160	150	5	222	192	105	220	26	100	41
225	200	6	279	256	154	275	35	152	38
280	250	8	340	306	192	330	40	180	41
310	300	10	410	342	227	380	45	215	41

Specifications

All Wafer Check Valves shall be available in metric sizes DN 32-300 mm. The minimum water column of 2 m is required for sealing. They shall be equipped with a spring (either in 316 stainless steel or Hasteloy C) guaranteeing closing in all installation positions. Attention: A stabilizing pipe zone of at least 5 times nominal diameter (DN) (recommended 10 times nominal diameter) before and after the wafer check valve should be provided.

Planning Fundamentals

The following link will lead you to the Georg Fischer Planning Fundamentals. These detailed documents will support you by choosing the right valve for your application.

http://www.gfps.com/content/gfps/com/en/support_and_services/planning_assistance/planning_fundamentals.html?lang=en