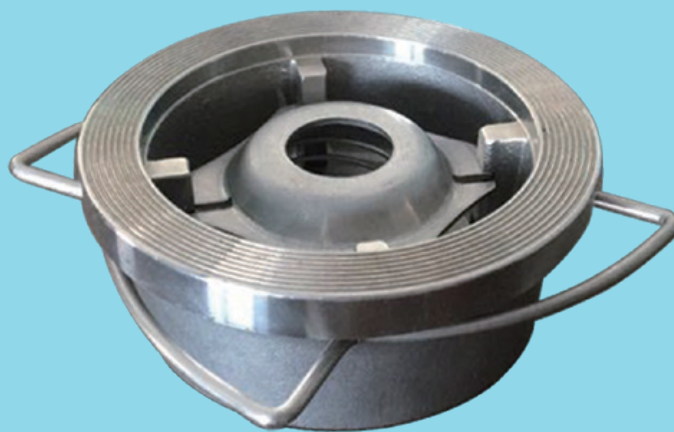


Wafer Lift Check Valves

Series C11



GENERAL INFORMATION

Series C11 wafer lift check valve opens when the opening force exceeds the closing force. The opening force depends on the pressure or the flow volume and the closing force on the tension of the closing spring, the closing weight, the installation position and the size of the check valve. The wafer design drastically reduces the weight in comparison with conventional valves.

They have been widely used in Marine and offshore industry, Petrochemical industry, Pharmaceutical industry, Heating and cooling, Ventilation, Fire protection systems, Water industry, Beer and beverage industry.

FEATURES

- Wafer short face-to-face dimension
- Self-centering
- Low pressure drops
- Easy to install and maintenance
- Can be installed on vertical pipelines with down flow

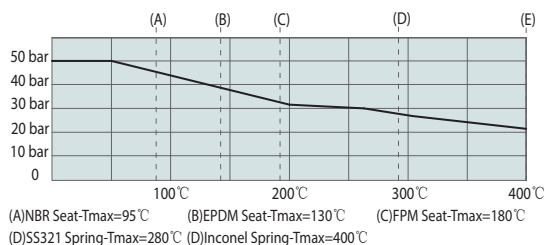
TECHNICAL DATA

Connection	Wafer
Nominal diameter	DN15-DN200
Pressure rating	PN6, PN10, PN16, PN25, PN40; ANSI CLASS150, CLASS300
Face to face	EN558 Series 49 (DIN 3202 K4)
Temperature range	-20°C to +95°C for NBR seat -20°C to +130°C for EPDM seat -20°C to +180°C for FPM seat -29°C to +400°C for metal to metal seat
Coating	Galvanization for steel

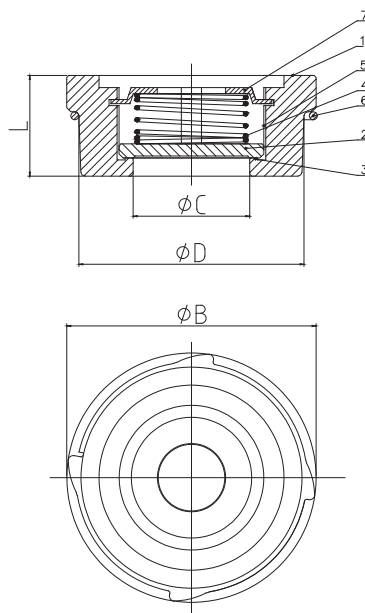
PARTS LIST AND MATERIAL SPECIFICATION

No.	Part name	Material
1	Body	ASTM A351 CF8, ASTM A351 CF8M
2	Disc	SS304, SS316L
3	Seat	Same as body
4	Spring	SS304, SS316
5	Guider	Same as body
6	Ring	SS304
7	Retainer	SS304, SS316

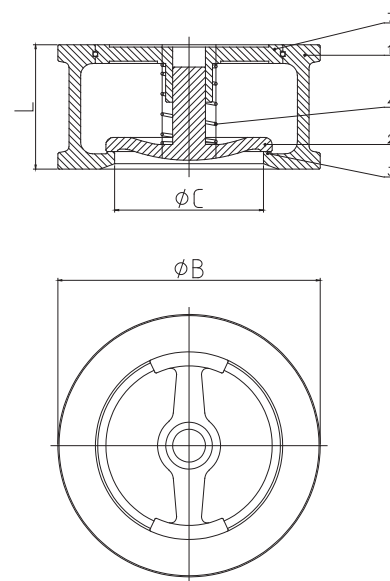
TEMPERATURE-PRESSURE DIAGRAM



DN15-DN100



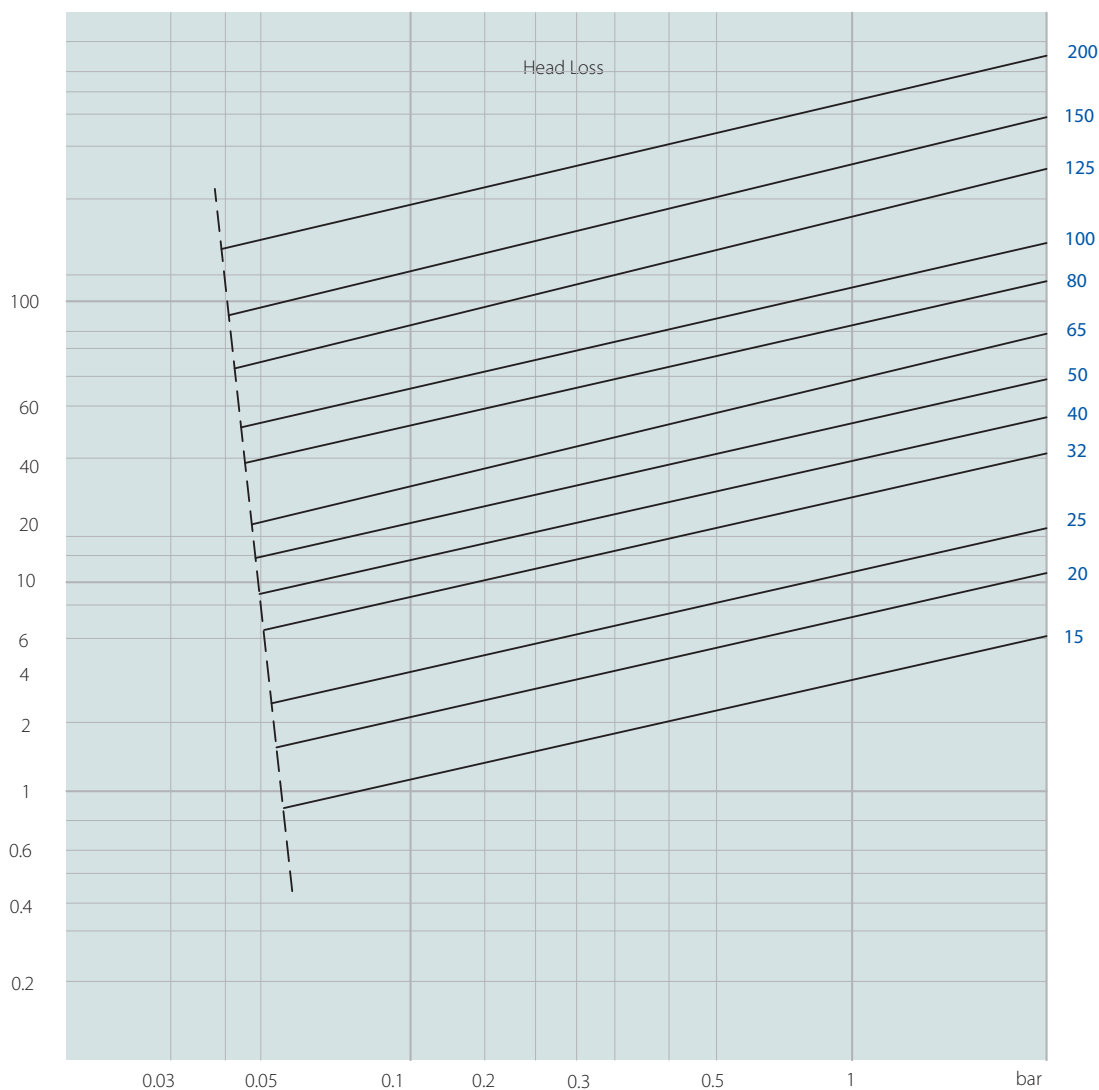
DN125-DN250



DIMENSIONS (mm)

SIZE		B	C	D	L	WT (kg)
DN	INCH					
15	1/2"	39	15	34	16	0.1
20	3/4"	46	20	40	19	0.2
25	1"	54	25	50	22	0.3
32	1 1/4"	70	32	62	28	0.4
40	1 1/2"	80	40	70	32	0.5
50	2"	94	46	85	40	1.1
65	2 1/2"	109	62	100	46	1.5
80	3"	128	75	120	50	2.3
100	4"	150	86	140	60	3.5
125	5"	192	110	-	90	5.9
150	6"	218	127	-	106	8.3
200	8"	273	165	-	140	15.4
250	10"	329	200	-	146	31

WATER STANDARD CONDITIONS



Kv AND CRACKING PRESSURE

SIZE	DN	15	20	25	32	40	50	65	80	100	125	150	200
	INCH	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"
Kv	m ³ /h at 1bar ΔP	5	7	13	20	40	50	70	90	150	280	350	550
Cracking Pressure with spring	→ mbar	23	23	23	24	26	26	28	29	30	17	17	17
	↑ mbar	25	25	25	27	29	29	31	32	33	20	20	20
	↓ mbar	21	21	21	21	23	23	25	26	27	14	14	14
Cracking Pressure without spring	↑ mbar	2	2	2	3	3	3	3	3	3	3	3	3