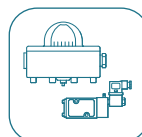
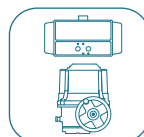
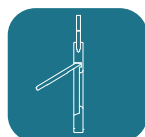
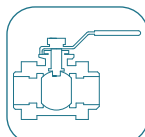
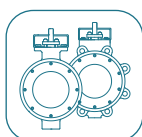
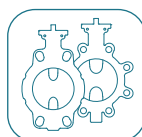


Wafer disc check valve

Fig.622



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Product description

Fig.622 wafer lift check valve is a single-disc, wafer-type valve designed for reliable and efficient flow control. It opens when the pressure or flow force exceeds the closing force, determined by spring tension, weight, installation position, and valve size. Once the force decreases, the spring automatically closes the valve, preventing backflow.

The compact wafer design significantly reduces weight compared to traditional valves, lowering transportation and installation costs while improving flexibility and efficiency.



Applications

Fig.622 wafer lift check valve is widely used in various industrial applications, including but not limited to:

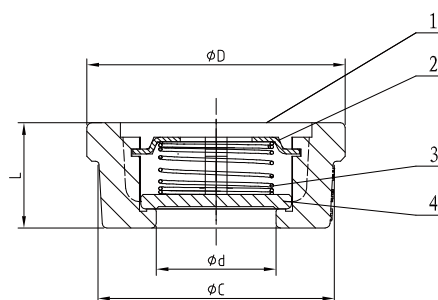
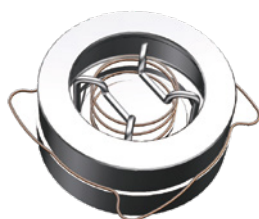
- **Marine and Offshore Industry:** For flow control in piping systems on ships and offshore platforms.
- **Petrochemical Industry:** Suitable for transporting corrosive and non-corrosive media in refineries and chemical plants.
- **Pharmaceutical Industry:** Ensures unidirectional fluid flow in production processes to prevent cross-contamination.
- **Heating and Cooling Systems:** Ideal for HVAC systems handling hot or cold water.
- **Ventilation Systems:** Guarantees unidirectional airflow.
- **Fire Protection Systems:** Prevents backflow in fire safety pipelines.
- **Water Treatment Industry:** Used in water purification and wastewater treatment systems.
- **Beer and Beverage Industry:** Controls liquid flow in production lines.

Features

- **Wafer-Type Design:** Compact structure and lightweight, reducing transportation and installation costs.
- **Self-Centering Mechanism:** Easy to install between flanges without additional alignment tools.
- **Low Pressure Drops:** Ensures system efficiency and minimizes energy consumption.
- **Easy Installation and Maintenance:** Simple to integrate into pipelines without complex maintenance procedures.
- **Vertical Pipeline Compatibility:** Designed for vertical pipelines with downward flow.
- **Standard Metal-to-Metal Seat:** Ensures reliable sealing under various operating conditions, with soft seat options available upon request.
- **Wide Flange Compatibility:** Suitable for flanges conforming to CLASS150/CLASS300 and PN10/PN16/PN25/PN40 standards, meeting diverse industrial requirements.

Datasheet

Connection:	Wafer
Nominal diameter:	DN15-DN100
Rating:	CLASS150/CLASS300, PN10/PN16/PN25/40
Face to face:	DIN3202-K4
Body:	CF8M, CF8
Disc:	CF8M, CF8
Segment:	SS316, SS304
Spring:	SS316, SS304



Material part list

No.	Part name	Mateiral	Quantity
1	Body	CF8M, CF8	1
2	Segment	SS316, SS304	1
3	Spring	SS316, SS304	1
4	Disc	CF8M, CF8	1

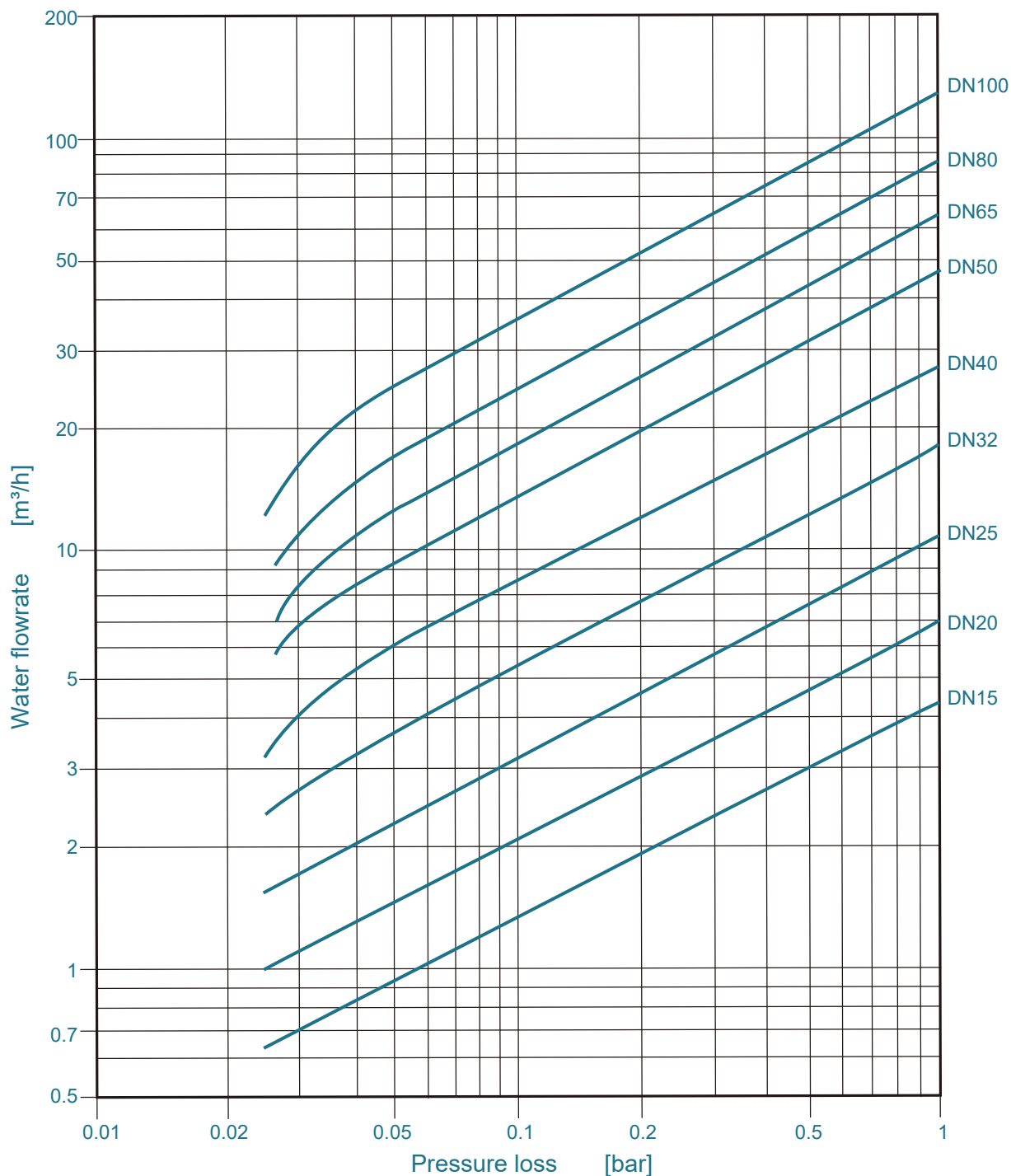
Dimensions

DN	INCH	D	d	C	L
15	1/2"	39	15	34	16
20	3/4"	46	20	40	19
25	1"	54	35	50	22
32	1 1/4"	70	32	62	28
40	1 1/2"	80	40	70	32
50	2"	94	46	85	40
65	1 1/2"	112	62	100	46
80	3"	132	75	120	50
100	4"	150	86	140	60

Technical data

DN	INCH	Opening pressure [mbar]	Kv [$\Delta P=0.1\text{bar}$]
15	1/2"	39	15
20	3/4"	46	20
25	1"	54	35
32	1 1/4"	70	32
40	1 1/2"	80	40
50	2"	94	46
65	1 1/2"	112	62
80	3"	132	75
100	4"	150	86

Pressure drop



* This chart shows the pressure loss over the water flowrate.

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