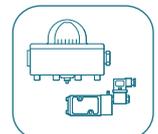
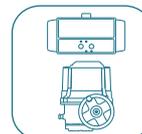
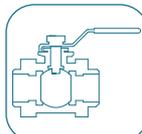
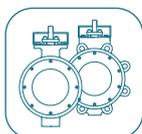


Wafer Spring-loaded Lift check valve

Fig.622



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Product description

Fig.622 is a wafer-type, spring-loaded lift check valve with a single guided disc, designed for reliable backflow prevention in piping systems.

The valve operates automatically under differential pressure. The spring-loaded disc opens when there is sufficient upstream pressure and closes immediately when flow stops or reverses, ensuring fast response and stable sealing performance.

Its compact wafer construction allows installation between standard flanges, providing a lightweight and space-saving alternative to conventional flanged check valves.

Applications: Reverse flow prevention in liquid piping systems, including:

- Petrochemical and chemical processing
- Marine and offshore applications
- Water supply and water treatment systems
- Heating and cooling (HVAC) systems
- General industrial utility lines

Available in stainless steel (CF8/CF8M), and duplex stainless steel 2205 for enhanced corrosion resistance.



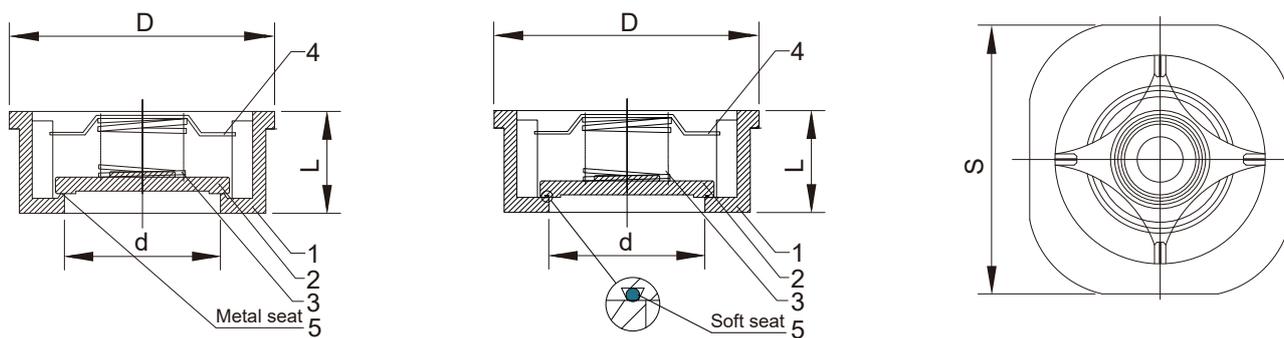
Features

- **Compact Wafer Design:** Lightweight construction for between-flange installation, saving space and weight.
- **Flexible Installation:** Suitable for horizontal pipelines and vertical pipelines with upward flow.
- **Sealing Options:** Metal-to-metal seat; Soft seat (available in NBR, EPDM, FPM).
- **Wide Flange Compatibility:** Compatible with PN10/16/25/40 and CLASS150/300 flanges.
- **Body shape:** Square body. Please contact Coreline if you need round type.

Specifications

Connection:	Wafer
Nominal diameter:	DN15-DN100
Rating:	PN10/PN16/PN25/40, CLASS150/CLASS300
Face to face:	DIN 3202 K4, EN 558-1 Series 49
Body:	CF8, CF8M, 2205
Disc:	CF8, CF8M, 2205
Spring retainer:	SS304, SS316
Spring:	SS304, SS316, INCONEL 750
Sealing:	Metal-to-metal, NBR, EPDM, FPM

Datasheet



Dimensions

DN	INCH	D	d	S	L
15	1/2"	55	15	46	16
20	3/4"	64	20	56	19
25	1"	74	24	66	22
32	1 1/4"	85	31	80	28
40	1 1/2"	95	38	89	32
50	2"	110	49	102	40
65	1 1/2"	130	62	120	46
80	3"	146	74	136	50
100	4"	168	91	160	60

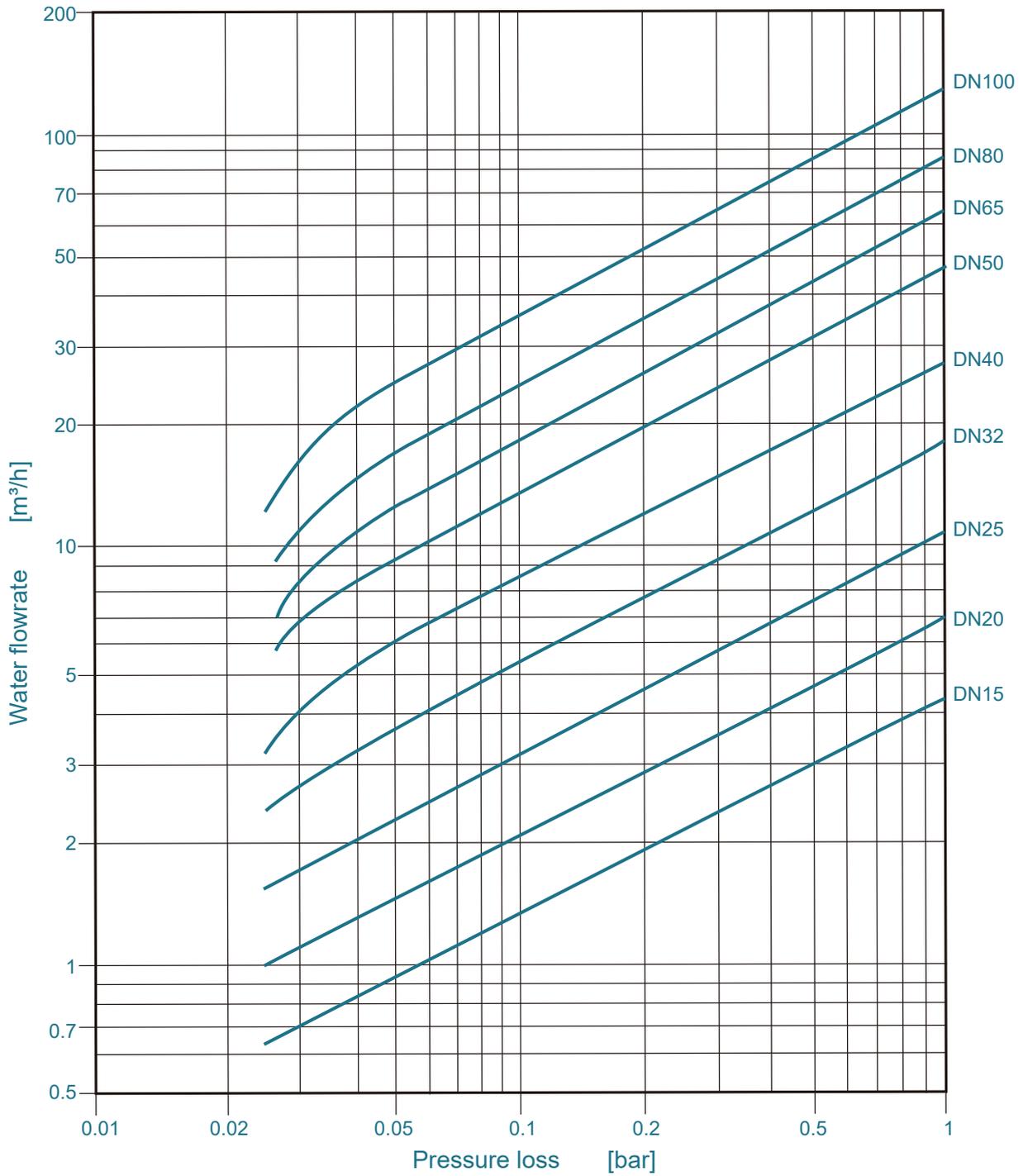
Material part list

No.	Part name	Material	Quantity
1	Body	CF8, CF8M, 2205	1
2	Disc	CF8, CF8M, 2205	1
3	Spring	SS304, SS316, INCONEL 750	1
4	Spring retainer	SS304, SS316	1
5	Sealing	Metal-to-metal, NBR, EPDM, FPM	-

Technical data

DN	INCH	Opening pressure [mbar]	Kv [$\Delta P=1\text{bar}$]	Weight [kg]
15	1/2"	35	5	0.13
20	3/4"	35	8	0.19
25	1"	35	11	0.29
32	1 1/4"	35	18	0.49
40	1 1/2"	35	30	0.68
50	2"	35	45	1.05
65	1 1/2"	35	60	1.65
80	3"	35	85	2.21
100	4"	35	92	3.42

Pressure drop



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

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The contents of this catalogue are confidential and proprietary to Coreline, we reserve the right to change the specifications without any notice.

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