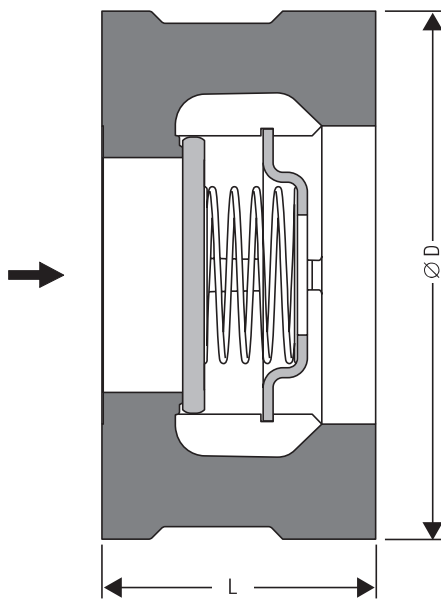


DN 15-100  
Optional: with connection for electrostatic discharge line



## Non-Return Valve

### RK 26 A

#### For Flanges PN 10/16/25/40, DN 15-100

#### ASME Class 150/300

### Description

Wafer-type non-return (check) valve for sandwiching between flanges. Valve with spring for installation in any position. Without spring only for vertical lines with upward flow. Self-centering valve body ensures accurate installation. Application for liquids, gases and vapours. Please observe the classification according to the Pressure Equipment Directive (PED).

### Pressure / Temperature Rating

RK 26 A	DIN, EN, ASME B16.5, Class 300										Design	
	[°C]	-200	20	100	200	300	350	400	450	500		550
DN 15 – 200	49.6	49.6	42.2	35.7	31.6							metal-to-metal (standard)
[bar] g	49.6	49.6	42.2	35.7	31.6	30.3	29.4	28.8	28.2	25.0		metal-to-metal with Nimonic® springs

Valve disc gasket	t <sub>min</sub> [°C]	t <sub>max</sub> [°C]	Application	Leakage rate
Metal-to-metal RK 26 A, DN 15-100	-200	550	Liquids, gases, vapours	EN 12266-1, Class C
PTFE	-190	250	Corrosive fluids	EN 12266-1, Class C
EPDM	-40	150	Water, condensate, vapours	EN 12266-1, Class A
FPM	-25	200	Mineral oils, gases, air	EN 12266-1, Class A

For additional information on chemical resistance go to [www.gestra.de](http://www.gestra.de) and click on "Technical Support" and then on "Chemical Resistance".

### End Connections

DIN <sup>1)</sup>	ASME	BS 10
EN 1092-1 PN 10/16/25/40 Groove/groove Female/female	B 16.1 Class 125 FF B 16.5 Class 150/300 RF Ring Joint Facing (optional)	Table D, E, F, H, J

<sup>1)</sup> Please order DN 100 for PN 6/16 or PN 25/40

### Dimensions

Valve size	[mm]	15	20	25	32	40	50	65	80	100
	[inch]	½	¾	1	1¼	1½	2	2½	3	4
Face-to-face dimensions [mm]	L <sup>2)</sup>	25	31.5	35.5	40	45	56	63	71	80
Ø D	PN 10/16	52	63	72	81	93	108	128	143	163
	PN 25	52	63	72	81	93	108	128	143	169
	PN 40	52	63	72	81	93	108	128	143	169
	Class 150 RF	46	56	66	75	85	104	123	135	173
	Class 300 RF	52	63	72	81	93	108	128	147	179
Weight	[kg]	0.25	0.4	0.57	0.83	1.2	2.15	3.2	4.5	6.9

<sup>2)</sup> Short overall length according to EN 558-2, series 52 (≙ DIN 3202-3, series K5)

### Materials

DN 15-100		DIN/EN	ASTM	Category
Body, seat and guide ribs	RK 26 A	1.4408	A 351CF8M	Stainless steel
Valve disc, spring retainer		1.4571		Stainless steel
Spring				Stainless steel

## Non-Return Valve

### RK 26A

**For Flanges PN 10/16/25/40,  
DN 15-100, ASME Class 150/300**

### Opening Pressures

Differential pressures at zero volume flowrate

DN	Opening pressures [mbar]			
	without spring	Direction of flow in valve		
		↑	↗	↘
15	2.5	10	7.5	5
20	2.5	10	7.5	5
25	2.5	10	7.5	5
32	3.5	12	8.5	5
40	4.0	13	9	5
50	4.5	14	9.5	5
65	5.0	15	10	5
80	5.5	16	10.5	5
100	6.5	18	11.5	5

On request at extra charge, special springs for opening pressures:

Between 5 and 1000 mbar for DN 15 – 50 mm,  
between 5 and 700 mbar for DN 65 and 80,  
between 5 and 500 mbar for DN 100.

### Enquiry Specification

GESTRA DISCO Non-return valve type RK 26 A for flanges PN 10/16/25/40.

Wafer design with extremely short overall length to EN 558-2, series 52.

Suitable for fitting between pipe flanges to DIN/EN, BS and ASME. Self-centering valve body. The valve disc rests on two of the four guide ribs, independently of the flange standard. Broad sealing surfaces. Installation in any position. Optional connection for electrostatic discharge line. Stronger springs for other opening pressures are also available on request. Metal-to-metal or soft (EPDM, FPM) seats. Design in accordance with PED 97/23/CE, with CE marking. Specification of nominal pressure, size, body materials etc. in accordance with EN 19.

### Please note:

The selected non return valve must ensure that the minimum volume flowrate keeps the valve disk in the open position (see Pressure Drop Chart / stable range). Valve construction is very robust, but they are not recommended for use on compressors or where pulsating flow exists. If in doubt please consult us and we will carry out the pressure drop calculation and select a suitable valve.

Supply in accordance with our general terms of business.

### Pressure Drop Chart

The curves given in the chart are valid for water at 20 °C. To read the pressure drop for other fluids the equivalent water volume flowrate  $\dot{V}_w$  must be calculated and used in the graph.

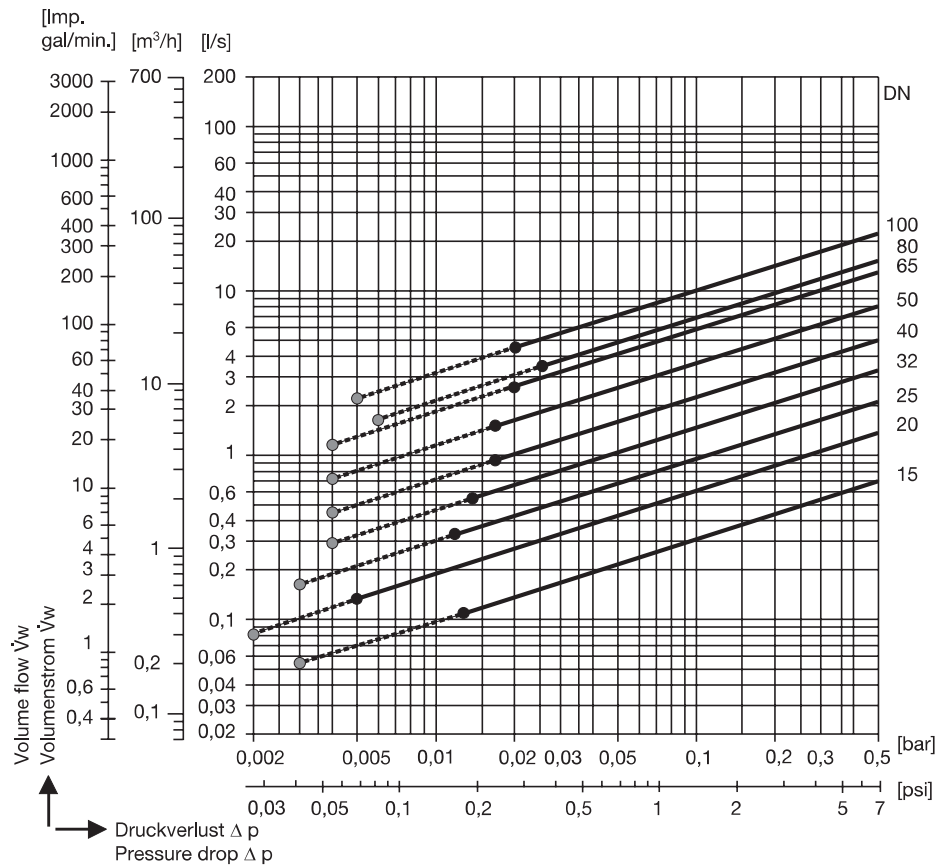
The values indicated in the chart are applicable for spring-assisted valves with horizontal flow and to valves without spring installed in vertical pipes with upward flow.

$$\dot{V}_w = \dot{V} \cdot \sqrt{\frac{\rho}{1000}}$$

$\dot{V}_w$  = Equivalent water volume flow in [l/s] or [m³/h]

$\rho$  = Density of fluid (operating condition) in [kg/m³]

$\dot{V}$  = Volume of fluid (operating condition) in [l/s] or [m³/h]



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