



GESTRA® DISCO Non-Return Valves RK 71



Issue Date: 2/98

Non-Return Valves
PN 6/10/16
DN 15-100 mm
(½-4")
RK 71

A₂

Application for liquids, gases and vapours.

Pressure/Temperature Rating

Nominal sizes DN	mm in	15-100 ½-4"		
Nominal pressure	PN	16		
Max. service pressure	barg psig	16 230	14 200	13 185
Related temperature	°C °F	120 248	200 392	250 482
Minimum temperature ¹⁾		- 60 °C (-76 °F)		

¹⁾ Minimum temperature for nominal pressure rating.

Chemical resistance see GESTRA Information A 2.1

Connections of wafer-type valves

Standard valves for fitting between flanges to	
DIN	BS
DIN 2501 PN6/10/16	BS 10 table F

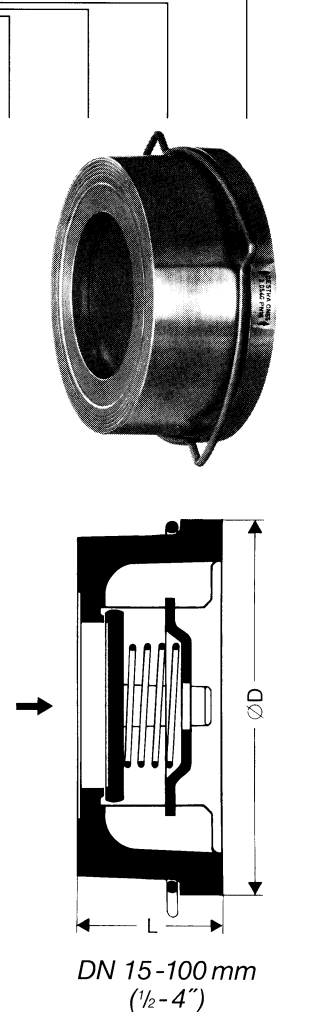
Dimensions

DN	mm in	15 ½	20 ¾	25 1	32 1¼	40 1½	50 2	65 2½	80 3	100 4
Dimensions in mm	L ²⁾	16	19	22	28	31.5	40	46	50	60
	D	40	47	56	72	82	95	115	132	152
Weight	kg	0.09	0.13	0.21	0.48	0.63	1.05	1.45	2	3.2

²⁾ Overall length according to DIN EN 558-1, table 11, series 49
(≙ DIN 3202, part 3, series K4)

Materials

DN 15-100 mm (½-4")	DIN reference	
Body, seat and guide ribs	Brass CuZn 39 Pb 3	2.0401
Valve disc, spring retainer	X 6 CrNiMoTi 17 12 2	1.4571
Spring		
Centring ring	X 12 CrNi 17 7	1.4310



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A Unit of Flowserve Corporation

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FLOWSERVE

Flow Control Division

Opening pressures

Differential pressures at zero volume flow

DN		Opening pressures in mbar		
		Direction of flow		
mm	in	↑	→	↓
15	½	25	22.5	20
20	¾	25	22.5	20
25	1	25	22.5	20
32	1¼	27	23.5	20
40	1½	28	24.0	20
50	2	29	24.5	20
65	2½	30	25.0	20
80	3	31	25.5	20
100	4	33	26.5	20

1 mbar \triangleq 0.0145 psi \triangleq 10 mm w.g.
 \triangleq 0.4 in w.g.

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 must be calculated and used in the graph.

The values indicated in the chart are applicable to spring-loaded valves with horizontal flow. With vertical flow insignificant deviations occur only within the range of partial opening.

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

\dot{V}_w = Equivalent water volume flow in l/s etc.

ρ = Density of fluid (operating condition) in kg/m³ etc.

\dot{V} = Volume of fluid (operating condition) in l/s etc.

Enquiry Specification

GESTRA DISCO-non-return valves RK. Wafer design with extremely short overall length to DIN EN 558-1, table 11, series 49.

Suitable for fitting between flanges to DIN or BS.

Indications on pressure, nominal size (DN).

Order Specifications

Type RK 71, DN...

Metal-to-metal seat.

Fluid, flowrate, pressure and temperature. Type of pipe flanges.

Note

The valves should not be used on compressors or where pulsating flow exists.

For these applications please consult us.

Supply in accordance with our general terms of business.

Technical modifications reserved.

