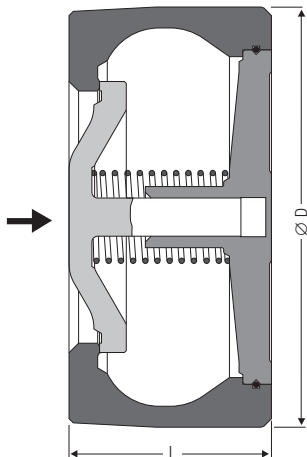


DN 15-100



DN 125-200

## Non-Return Valve RK 70, PN 6, DN 15-200

**Application** in heating installations. Valve disc/cone of plastics.  
Noiseless operation. DN 15-100 are additionally dampened by an O-ring.

### Pressure & temperature ratings

Nominal sizes	DN	15-100			125-200		
Nominal pressure	PN	6					
Max. service pressure <sup>1)</sup>	[barg]	6	3	2	1.5	1	0.5
Service temperature	[°C]	20	50	80	100	110	130
Minimum temperature	[°C]	-30 <sup>2)</sup>			-10 <sup>2)</sup>		

<sup>1)</sup> Max. service pressure or differential pressure in closed systems.

<sup>2)</sup> Minimum temperature for nominal pressure rating.

### End connections of wafer-type valves

Standard valves for fitting between flanges to DIN 2501, PN 6/10/16. DN 15-100 with spiral centering ring.

### Dimensions

Nominal size	[mm]	15	20	25	32	40	50	65	80	100	125	150	200
	[inch]	½	¾	1	1¼	1½	2	2½	3	4	5	6	8
Dimensions	L <sup>3)</sup>	16	19	22	28	31.5	40	46	50	60	90	106	140
	[mm]	D	40	47	56	72	82	95	115	132	152	184	209
Weight	[kg]	0.09	0.13	0.21	0.48	0.63	1.05	1.45	2.0	3.2	5.6	8.4	17

<sup>3)</sup> Short overall length to EN 558-1, table 11, series 49.

### Materials

DN 15-100	DIN	
Body, seat and guide ribs	CuZn40Pb2	2.0402
Valve disc / O-ring	PPO / EPDM	
Spring retainer	X6CrNiMoTi17 12 2	1.4571
Spring to close		
Centering ring	X12CrNi17 7	1.4310
DN 125-200		
Body, seat	Cast iron GG-25	5.1301
Valve plug	Polyamide 6	
Guide	G-X8CrNi12	1.4107
Spring to close	X6CrNiMoTi17 12 2	1.4571

# Non-Return Valve

## RK 70, PN 6, DN 15-200

### Opening Pressures

Differential pressures at zero volume flow.

DN	Opening pressures [mbar]			
	Direction of flow			
	without spring	with spring		
	↑	↑	→	↓
15	0.4	5.8	5.4	5
20	0.4	5.8	5.4	5
25	0.4	5.8	5.4	5
32	0.5	6	5.5	5
40	0.5	6	5.5	5
50	0.6	6.2	5.6	5
65	0.7	6.4	5.7	5
80	0.8	6.6	5.8	5
100	0.8	6.8	5.9	5
125	2	9	5.4	5
150	2.5	10	5.4	5
200	2.5	10	5.4	5

### Specification Text

GESTRA DISCO non-return valves RK 70, PN 6. **Quiet valves for heating installations**, wafer design with extremely short overall length to DIN EN 558-1, table 11, series 49.

Standard valves for fitting between pipe flanges to DIN. Indication of nominal pressure, nominal size and body material. Shut-off provided by valve disc/cone of plastics.

### Inspection & Certification

Documentation regarding material tests and in-house examination with test report to EN 10204-2.2 available at extra cost. Please state the inspection and certification requirements when inquiring or ordering. After supply of the equipment certification cannot be established. Charges and extent of the above mentioned certificates as well as the different tests confirmed therein are listed in our price list "Test and Inspection Charges for Standard Equipment". For other test certificates please consult us.

### Order Specifications

Type RK 70, DN ...

Additional information: Flowrate, service pressure and temperature. Standard designation of pipe flanges.

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. For other fluids it is necessary to calculate an equivalent water volume flowrate  $\dot{V}_w$  and use this in the chart.

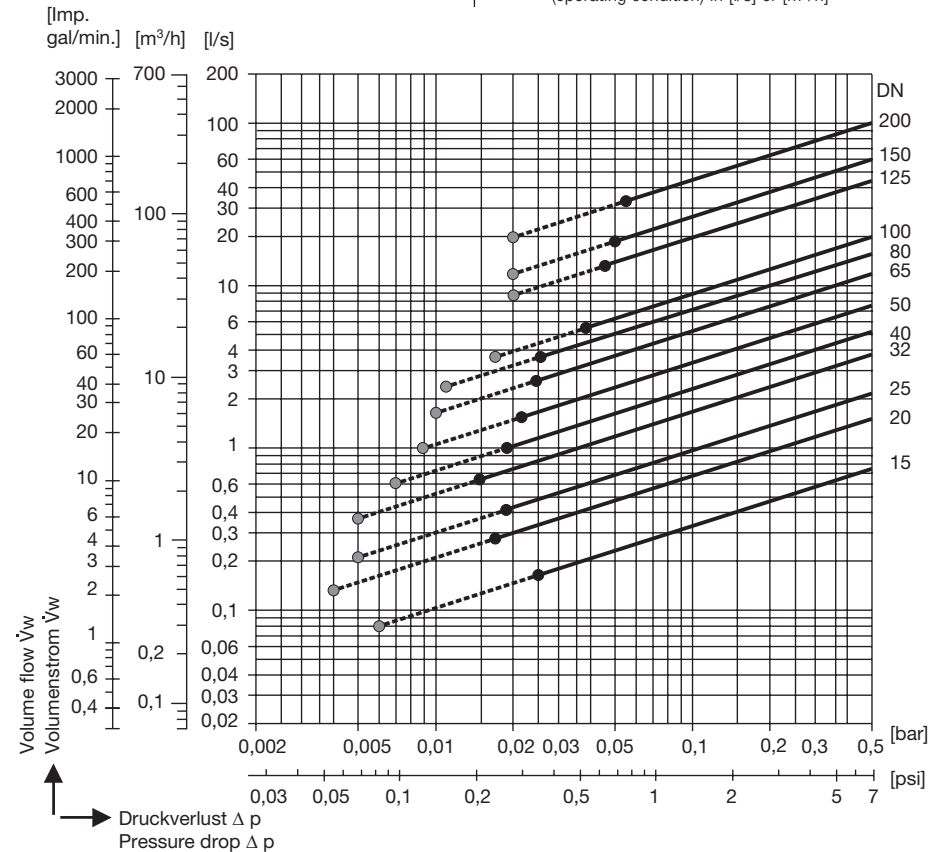
The pressure drop values indicated in the chart are applicable to spring-assisted valves with horizontal flow and to valves without spring mounted in vertical pipes with upward flow.

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

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

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

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



- Required minimum volume flowrate  $\dot{V}_w$  for equipment fitted without spring and mounted in vertical pipes with upward flow.
- Required minimum volume flowrate  $\dot{V}_w$  for equipment fitted with standard spring and mounted in horizontal pipes.

### PED (Pressure Equipment Directive)

The equipment fulfills the requirements of the Pressure Equipment Directive PED 97/23/EC. For use with fluids of group 2. With CE marking (apart from equipment that is excluded from the scope of the PED as specified in section 3.3). For more information please refer to our PED Declaration of Conformity.

### ATEX (Atmosphère Explosible)

The equipment does not have its own potential source of ignition and is therefore not subject to the ATEX Directive 94/9/EC. Applicable in Ex zones 0, 1, 2, 20, 21, 22 (1999/92/EC). The equipment does not bear an Ex marking. For more information refer to our ATEX Declaration of Manufacturer.

# GESTRA AG

Münchener Straße 77, 28215 Bremen, Germany  
 Telefon +49 421 3503-0, Telefax +49 421 3503-393  
 E-mail info@de.gestra.com, Web www.gestra.de

