

Check-valve TYPE RV05



description:

Check valves allow the medium to flow just in one direction. If the flow of the medium changes the direction, the check valve will close automatically.

features:

- Suitable for aggressive liquids, gases and vapors in all engineering processes
- Intermediate flange design
- low opening pressure

connection:

1/2" inch – 6" inch

pressure:

0 – 10 bar

temperature:

-200°C up to +160°C

Installation:

between flanges

body:

stainless steel 1.4301

lining:

PTFE + 25% fibreglass

disc:

PTFE + 25% fibreglass

spring:

Hastelloy C4, PFA coated

working pressure:

max. PN10

limits of use:

acc. to DIN EN 1092-1

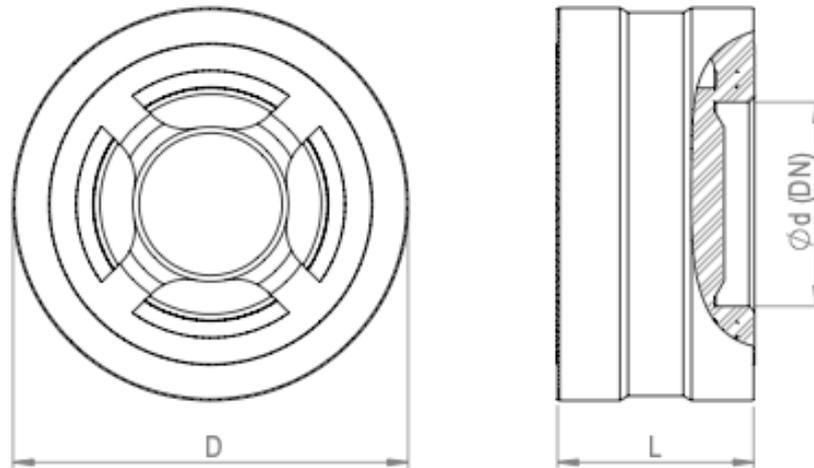
overall length:

acc. to DIN EN 558, basic row 52

tightness:

acc. to DIN EN 12266-1, leakage D

Dimensions:



DN	diameter	D (PN10)	D (ANSI150)	Ød	L	opening pressure*			KV-value	Zeta	weight
						↑	→	↓			
15	1/2"	51	47,6	15	25	25	20	15	3,94	5,21	0,1
20	3/4"	61	57,1	20	31,5	25	20	15	5,69	7,89	0,3
25	1"	71	66,7	25	35,5	25	20	15	11,14	5,03	0,4
32	1 1/4"	82	76,2	32	40	27	20	13	21,23	3,71	0,55
40	1 1/2"	92	85,7	39	45	28	20	12	21,63	8,74	0,8
50	2"	107	104,7	48	56	29	20	11	41,7	5,74	1,3
65	2 1/2"	127	123,8	62	63	30	20	10	70,5	5,73	2
80	3"	142	136,5	72,5	71	31	20	9	91,34	7,84	2,5
100	4"	162	170**	89	80	33	20	7	128,2	9,71	3,6
125	5"	192	192	110	90	33	20	7	191,04	10,68	5
150	6"	218	218	134	106	35	20	5	286,59	9,84	7

* the tolerance of the opening pressure is +/-20%.

**Centering ring must be applied (included)

Pressure-loss-diagram:

For water 20°C with open valve and horizontal flow.

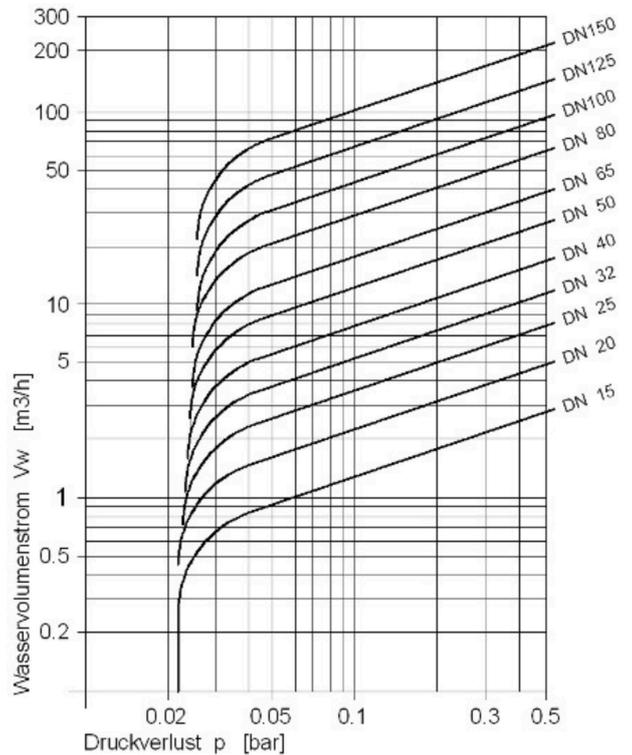
To determine the pressure losses for other media, calculate the equivalent water volume flow.

$$V_w = v \sqrt{\frac{\rho}{1000}}$$

V_w = equivalent water volume flow

ρ = density of the medium in kg/m³

v = volume flow of the medium in m³/h (operating condition)



article number:

Type	version	Seal	diameter
RV05	00 – standard PN10 01 – ANSI 150	03 – PTFE	03 – DN15 1/2" 04 – DN20 3/4" 05 – DN25 1" 06 – DN32 1 1/4" 07 – DN40 1 1/2" 08 – DN50 2" 09 – DN65 2 1/2" 10 – DN80 3" 11 – DN100 4" 12 – DN125 5" 13 – DN150 6"

example Nr. RV04000304:

RV04	00	03	04
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Check-valve made of stainless steel

version: standard

Seal: PTFE

Diameter: DN15 3/4" inch

Image similar, subject change without notice.