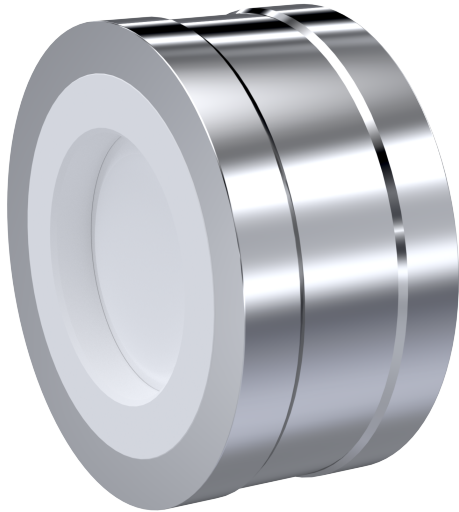


Check-valve TYPE RV05



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
- Parts that are in contact with the medium are made of PTFE or other high-quality synthetics
- low opening pressure
- Authorized for FDA

connection:

1/2" inch – 6" inch

pressure:

0 – 10 bar

temperature:

-196°C to +160°C

Body:

Stainless steel 1.4301

Lining:

PTFE + 25% fibreglass

Disc:

PTFE + 25% fibreglass

Spring:

Hastelloy C4, PFA coated

Working pressure:

max. 10 bar (see pressure-temperature diagram)

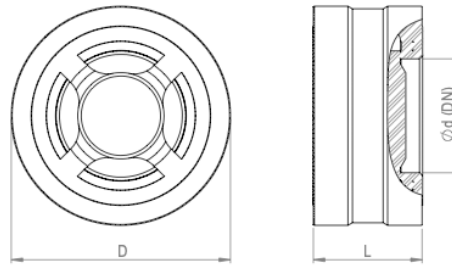
Overall length:

acc. to DIN EN 558, basic row 52

Tightness:

acc. to DIN EN 12266-1, leakage D

Dimensions:

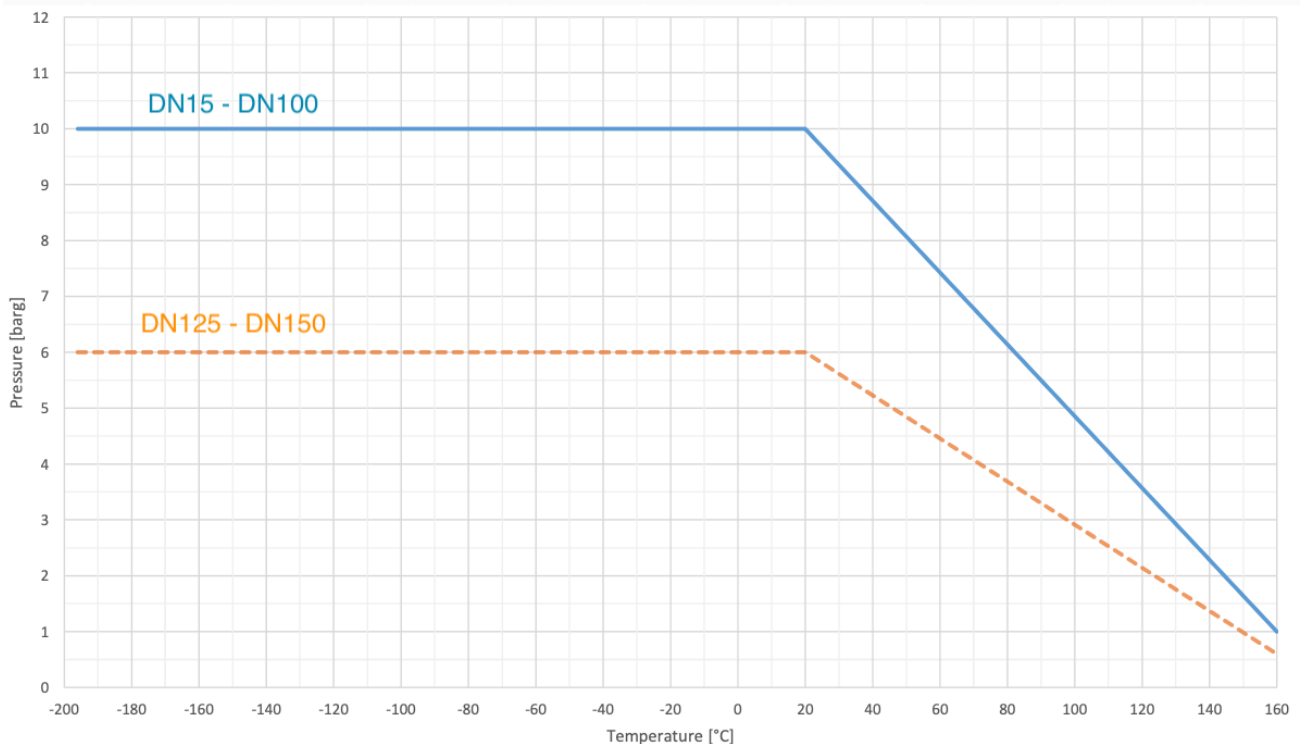


Diameter		D (PN10)	D (ANSI150)	Ød	L	Opening pressure in mbar*			KV-value	Zeta	weight
DN	inch	mm	mm	mm	mm	↑	→	↓	m³/h	m³/h	kg
15	½"	51	47,6	15	25	22	20	18	3,94	5,21	0,1
20	¾"	61	57,1	20	31,5	22	20	18	5,69	7,89	0,3
25	1"	71	66,7	25	35,5	22	20	18	11,14	5,03	0,4
32	1¼"	82	76,2	32	40	22	20	18	21,23	3,71	0,55
40	1½"	92	85,7	39	45	22	20	18	21,63	8,74	0,8
50	2"	107	104,7	48	56	22	20	18	41,7	5,74	1,3
65	2½"	127	123,8	62	63	23	20	17	70,5	5,73	2
80	3"	142	136,5	72,5	71	24	20	16	91,34	7,84	2,5
100	4"	162	170**	89	80	24	20	16	128,2	9,71	3,6
125	5"	192	192	110	90	24	20	16	191,04	10,68	5
150	6"	218	218	134	106	25	20	15	286,59	9,84	7

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

**Centering ring must be applied (included)

Pressure-Temperature Diagram:



Pressure-loss-diagram:

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

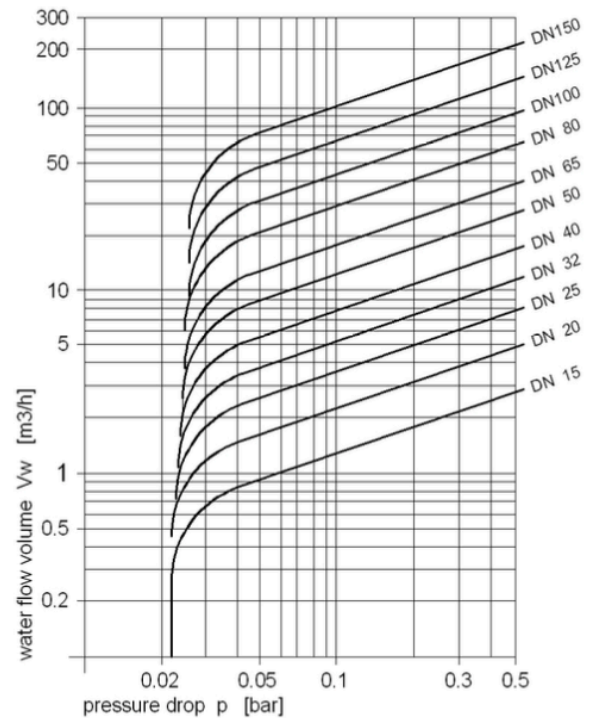
To determine the pressure losses for other media, calculate the equivalent water volume flow.

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

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)



Installation:

- Observe the flow direction (arrow on the body)!!
- Install between flanges acc. to DIN EN 1092-1 PN10 or ANSI B 16.5 Cl. 150
- The valve is centred between the flanges via the outer diameter of the body using the flange bolts
- The flanges must be perfectly aligned with each other. Angular misalignment may cause damage to the valve.
- Tighten the valve evenly in several steps in a crosswise pattern using a torque wrench at ambient temperature. Excessive torque will cause deformation which may result in leakage and damage of the valve.

Recommended tightening torque values under the following conditions:

- A4 hexagon bolts, unlubricated
- Flat gasket acc. to EN1514-1 type IBC – PTFE (3mm thickness)
- Flanges acc. to EN1092-1 type B
- Ambient temperature
- Water at 10bar

Nennweite	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150
Anzug	8 Nm	14 Nm	18 Nm	29 Nm	36 Nm	45 Nm	30 Nm	38 Nm	40 Nm	53 Nm	69 Nm

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.