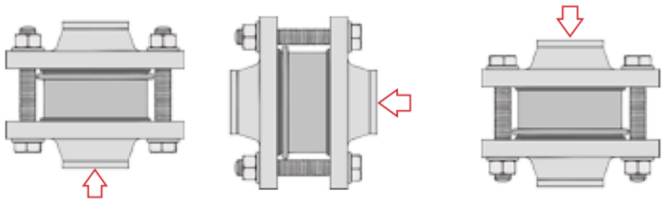
check valve
series CH063

Features and Advantages:

Little dimensions and low weights.
Face to face acc. to **DIN EN 558-1 Series 49 (DIN 3202 K4)**.
Opening pressure from 10 to 500 mBar.
Usable also as vacuum breaker, overpressure and bottom valve.
No leackage with soft seat.
acc. to DIN 3230 BN3 with metallic seat.
Low head losses.

To be installed in any position:



P max: **25 Bar 15**

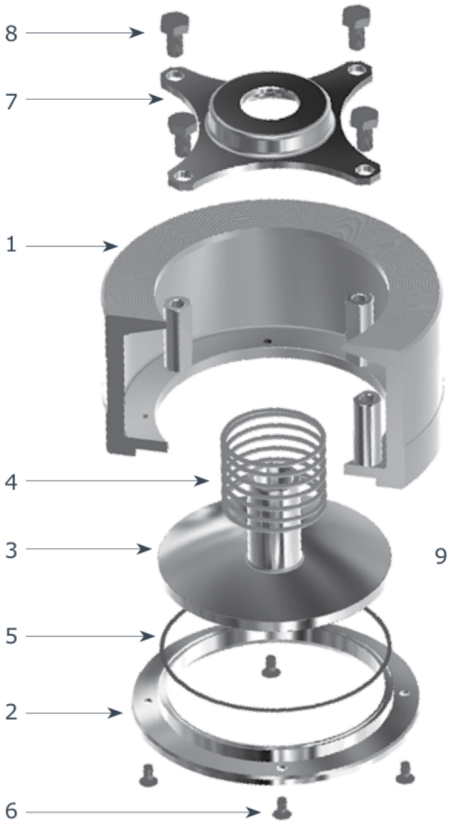
Flange:
DN 125÷200 PN 10÷25, A150

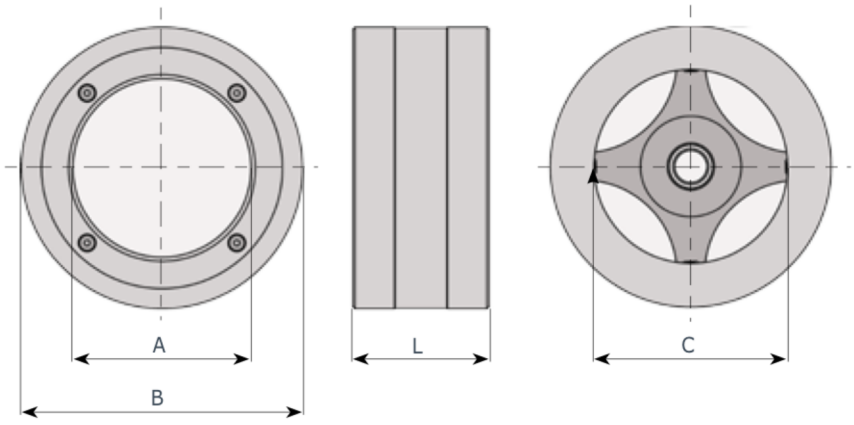
This type of valve cannot be used with spirometallic packing.

Certifications:

CE 0497 [PED] GOST

item	q.ty	part	material
1	1	body	• A351 - CF8M (AISI 316)
2	1	seat	• A240 (AISI 316L)
3	1	disc	• A240 (AISI 316L)
4	1	spring -standard *on request*	• AISI 316 • Hastelloy C4
5	1	O-Ring	• NBR • EPDM • FKM • PTFE
6	4	screw	• A182 (AISI 316)
7	1	spring housing	• A182 (AISI 316)
8	4	screws	• A4 (AISI 316)
9	4	studs	• A182 (AISI 316)





DN	125	150	200
A	120	140	183
B	190	218	273
C	125	150	200
L	90	106	140
Kg	6.7	10.5	22.4

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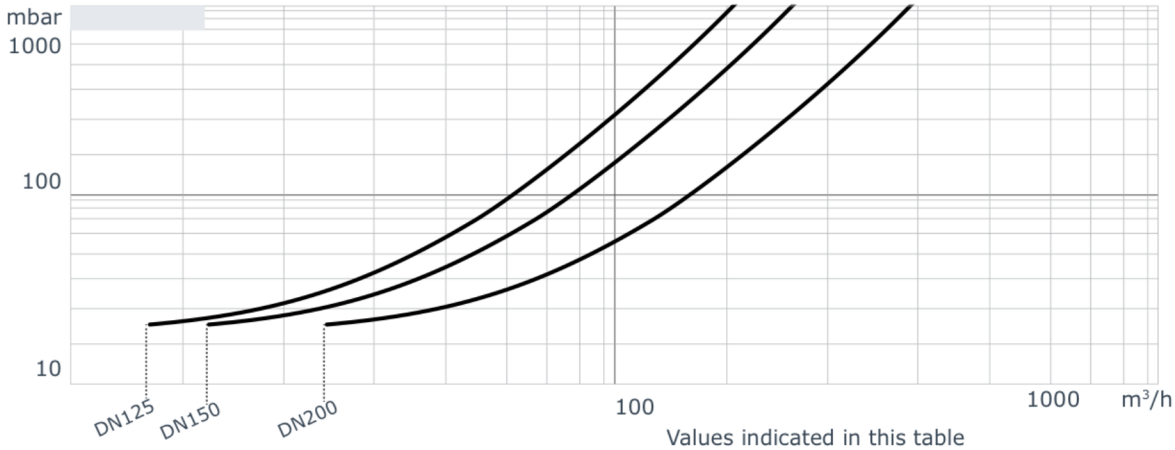
Head losses (H_2O - 20°C - horizontal flow, standard spring)



Values indicated in this table are only for informations.

Formula for calculation of equivalent flow rate to H_2O

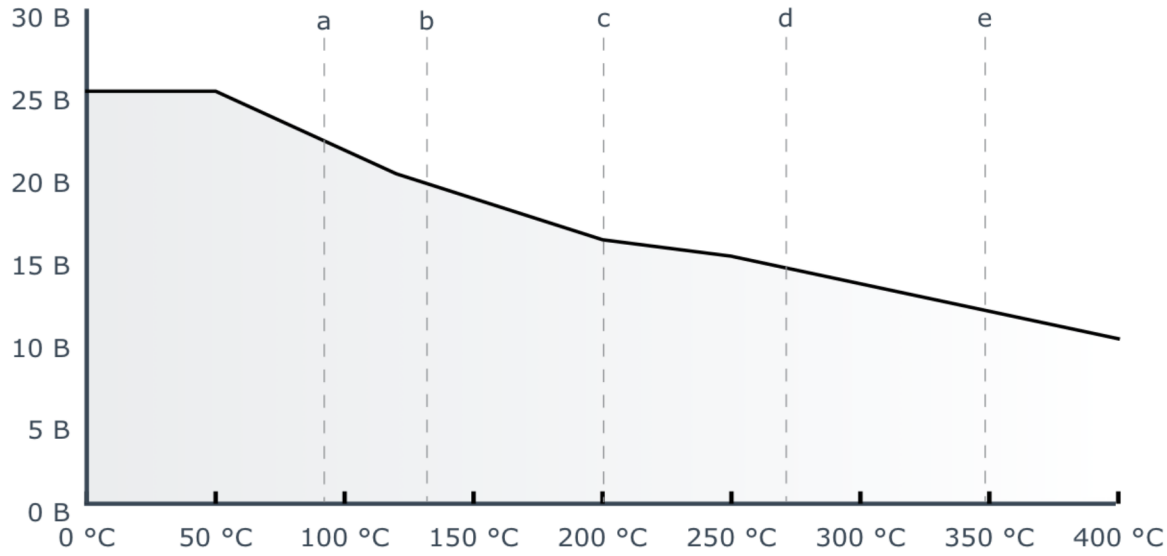
$$Qe = Q \sqrt{\frac{d}{1000}}$$

For different liquid, gas or steam head losses are determined by equivalent water flow rate, as follows:

Qe	equivalent water flow *(m³/h o l/s)*	Q	fluid flow *(m³/h o l/s)*	d	fluid specific gravity *(Kg/m³)*

Temperature - pressure diagram

a NBR T_{MAX} = 95°C
b EPDM T_{MAX} = 130°C
c FKM PTFE T_{MAX} = 200°C
d spring AISI 316 T_{MAX} = 270°C
e spring HASTELLOY C4 T_{MAX} = 350°C



minimum opening pressure with standard springs

flusso	DN	125	150	200
△	mBar	34	36	36
▻	mBar	22	23	27
▽	mBar	17	18	18
△ without spring	mBar	8	9	10

Opening values may vary ±10%

Y = available
N = not available

special spring table

DN	125	150	200
10 mBar	Y	Y	Y
20 mBar	Y	Y	Y
30 mBar	Y	Y	Y
50 mBar	Y	Y	Y
100 mBar	Y	Y	Y
200 mBar	Y	Y	Y
300 mBar	Y	Y	Y
500 mBar	Y	Y	Y