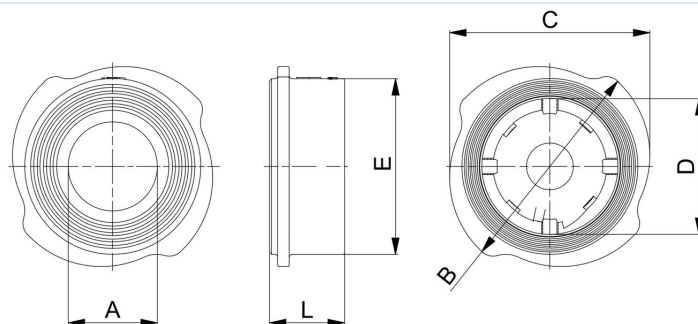


Check valve Series CH009



Design type	Wafer check valve metal-to-metal sealing, Installation length according to DIN EN558-1-R49
Tightness	corresponding DIN3230 BN3, for gaseous media we recommend soft seal
Connection	Flanges DN15...DN100 according to EN1092
Flange type	DN15...DN80 PN6/10/16/25/40, DN100 PN10/16/25/40, DN15...DN100 ANSI150/300
Materials	Housing Stainless steel 1.4408, Stainless steel disc 1.4404, Spring Stainless steel 1.4401
Medium temperature	-55...+250°C
Operating pressure	max. 52bar up to medium temperature 0°C, Permissible operating pressure for higher temperatures see pressure-temperature diagrams
Mounting type	Installation in rigid piping system
Mounting position	horizontal or vertical
Application range	Fluids and gases of group 1 and 2 according to PED 2014/68/EU that do not attack the materials used.
Special versions	Soft seals for higher tightness



DN[mm]	A	B	C	D	E	L	Kv value [m³/h]	Weight [approx. kg]	Type
15	14	54	45	23	43	17	3,2	0,11	CH009-15
20	19	64	54	28	48	20	5,3	0,18	CH009-20
25	25	71	63	36	58	22	7,2	0,26	CH009-25
32	31	81	72	50	68	28	17,0	0,40	CH009-32
40	38	93	82	58	75	32	23,0	0,55	CH009-40
50	48	110	95	71	94	40	34,0	1,00	CH009-50
65	62	130	115	86	113	46	52,0	1,50	CH009-65
80	77	149	131	105	129	50	70,0	2,00	CH009-80
100	95	181	160	130	159	60	120,0	3,20	CH009-100



Opening pressures in [mbar]

Flow direction		DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
	vertical from bottom to top	25	25	25	27	28	30	30	25	21
	horizontal	23	23	23	25	23	24	24	19	15
	vertical from top to bottom	21	21	21	22	18	18	18	13	9

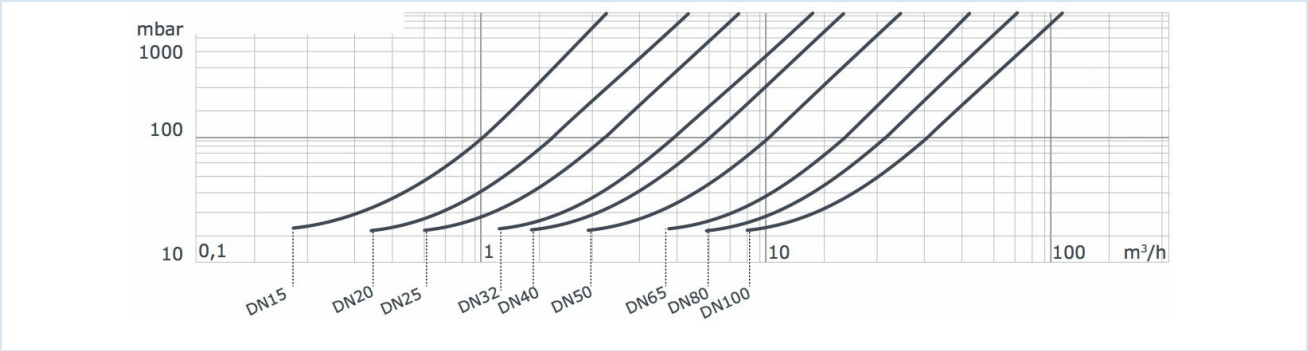
Pressure-temperature diagram:



Medium temperature Soft seal:

Seal	Temperature range [°C]	Application
NBR	-25...+95	neutral gases and liquids
EPDM	-35...+130	Hot water, Steam, Oxygen
FKM	-20...+200	Oils and fuels

Pressure drop curve for water:



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