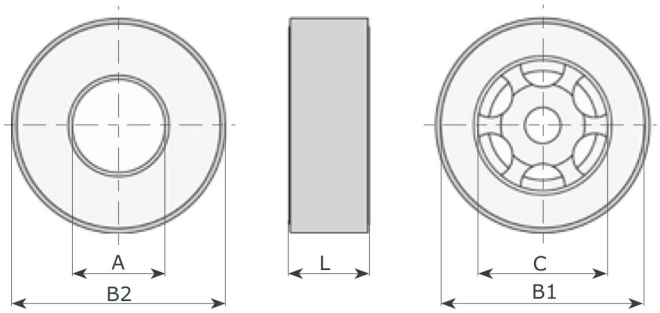
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Check valve
Series CH021



Design type	Check valve, Sandwich mounting version, Installation length according to DIN EN558-1-R49
Connection	Flanges DN15...DN100 according to EN1092
Flange type	PN10/16 (without back-up ring PN6, ANSI150)
Materials	Housing, Valve plate, Seal PTFE, Spring Hastelloy C4, Back-up ring Stainless steel AISI 304 (not in contact with the medium)
Application range	Fluids and gases of group 1 and 2 in accordance with PED 2014/68/EU that do not attack the materials used.
Medium temperature	-10...+180°C
Operating pressure	max. 6bar up to medium temperature 150°C, Permissible operating pressure for higher temperatures see pressure-temperature diagram
Mounting type	Installation in rigid piping system
Mounting position	horizontal or vertical
Special versions	Spring Stainless steel PTFE-coated, other opening pressures



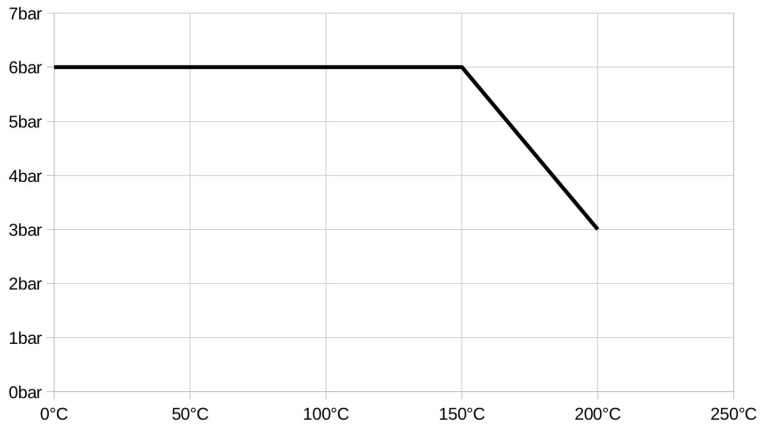
DN[mm]	A	B1	B2	C	L	Kv value [m ^{3} /h]	Weight [approx. kg]	Type
15	15	44	50	30	16	2,8	0,11	CH021-15
20	20	54	60	38	19	4,7	0,16	CH021-20
25	25	64	70	40	22	6,4	0,24	CH021-25
32	32	75	80	56	28	14,0	0,32	CH021-32
40	38	85	90	65	32	20,6	0,40	CH021-40
50	47	96	107	78	40	31,3	1,00	CH021-50
65	63	116	130	95	46	49,2	1,40	CH021-65
80	79	133	140	100	50	60,0	1,70	CH021-80
100	96	154	162	120	60	85,0	2,20	CH021-100

+43 512 52076
austria@stasto.eu
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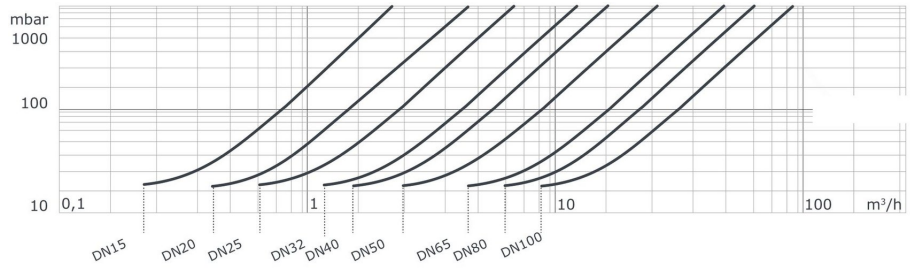
Opening pressures in [mbar]

Flow direction		DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
⇧	vertical from bottom to top	23	23	24	25	26	26	27	27	29
⇨	horizontal	22	22	22,5	23	23,5	23,5	24	24	25
⇩	vertical from top to bottom	21	21	21	21	21	21	21	21	21

Pressure-temperature diagram:



Pressure drop curve for water:



Illustrations non-binding
Design, dimensional and material changes reserved

+43 512 52076
austria@stasto.eu
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