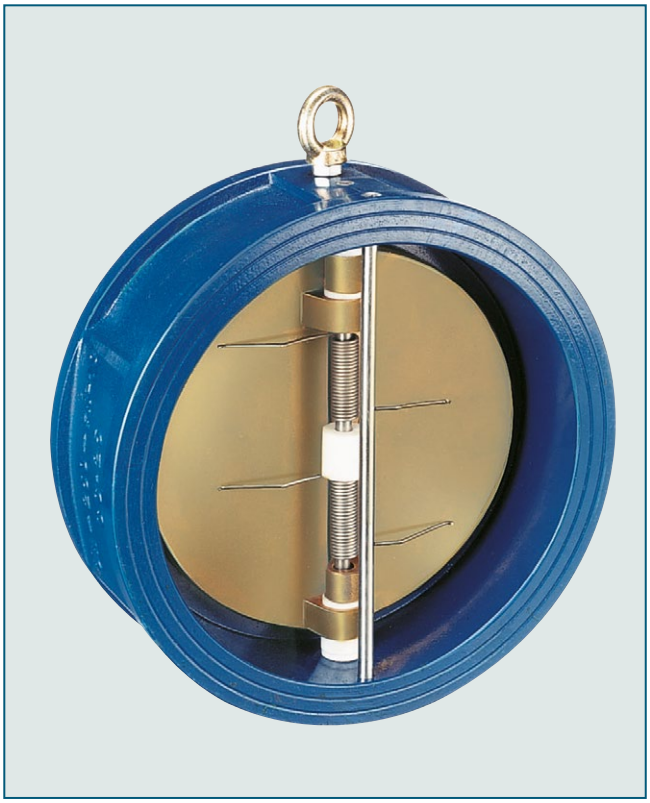
DOUBLE CHECK VALVE DC



TECHNICAL DATA

Nominal diameter:	DN 50 - DN 600
Face-to-face:	EN 558-1
	ISO 5752
Flange accommodation:	EN 1092 PN10/16, ASME Class 150
Flange Surface Design:	EN 1092 Form A/B
	ASME RF, FF
Marking:	EN 19
Operating pressure:	16 bar ≤ DN 250
	10 bar ≥ DN 300
Tightness check:	EN 12266 (Leakage Rate A)
	ISO 5208, Category 3
Temperature range:	0°C to +130°C (depending on pressure, medium and temperature)

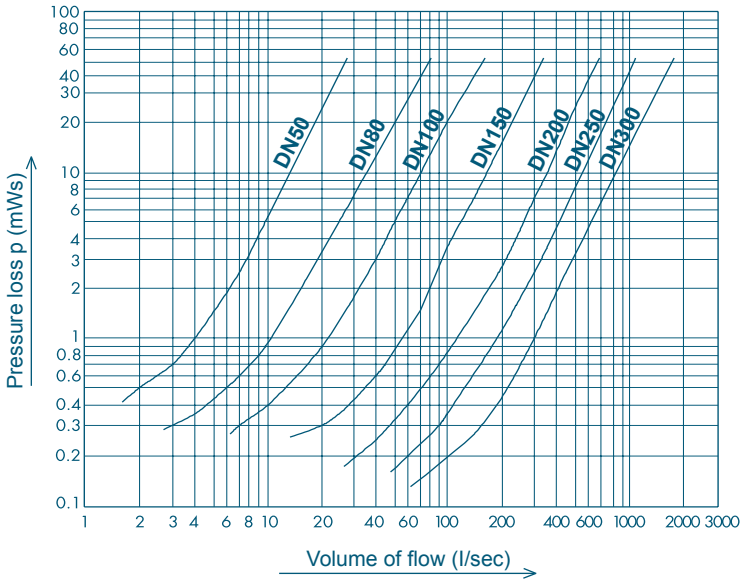
Standard construction:

TYP	DC 1	DC 2	DC 3	DC 4	DC 5
Body	EN-JS 1030	EN-JS 1030	1.4408	Alu-Bronze C954	EN-JS 1030
Disc	Alu-Bronze C954	1.4408	1.4408	Alu-Bronze C954	EN-JS 1030
Shafts	1.4401	1.4401	1.4401	Alu-Bronze C954	1.4401
Springs	1.4571	1.4571	1.4571	2.4816	1.4571
Bearing operating	NBR	EPDM	EPDM	NBR	EPDM
Lager	PTFE	PTFE	PTFE	PTFE	PTFE

FEATURES

- Maintenance-free wafer double check valve
- Can be disassembled, material-specific recycling possible

PRESSURE LOSS DIAGRAM DN 50 - DN 300



The values given in the diagram are valid for water at 20°C. They result of measurements at valves which are mounted in a horizontal conduction.
For the ascertainment of pressure losses for other media, the water flow amount has to be calculated with the following formular:

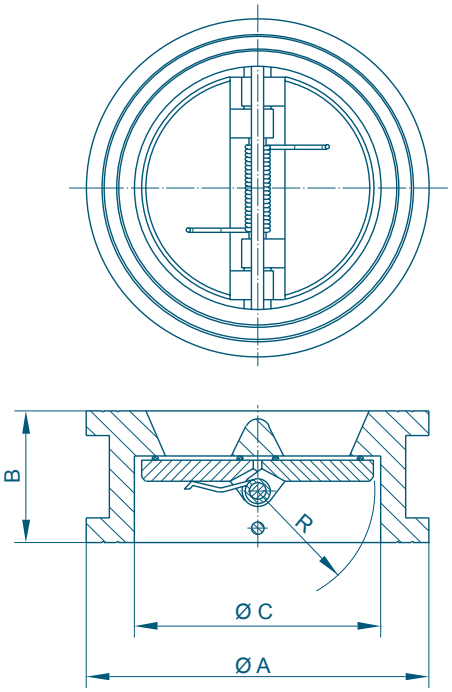
$W_{äp} = \sqrt{\frac{\gamma_B}{1000}} \times Q_B$

$W_{äp}$ = equivalent water flow in m³/h

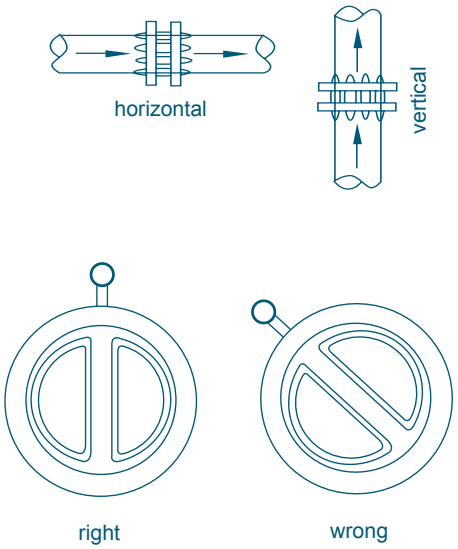
γ_B = flow amount of the media in its operating conditions kg/m³

Q_B = volume of flow in operating condition (m³/h)

DOUBLE CHECK VALVE DC



INSTALLATION



Double check valve DC

DN [mm]	Size [in]	Dimensions [mm] A	B	C	R	min. opening pressure [mbar]	K_V [m³/h]	Weight [kg]
50	**2**	107	43	65	29	20	63	1,5
65	**2½**	127	46	80	36	20	109	2,4
80	**3**	142	64	94	43	20	172	3,6
100	**4**	162	64	117	53	20	289	5,7
125	**5**	192	70	145	66	20	476	7,3
150	**6**	218	76	170	79	20	750	9,0
200	**8**	273	89	224	104	20	1550	17,0
250	**10**	328	114	265	127	20	2880	26,0
300	**12**	378	114	310	148	20	4100	42,0
350	**14**	438	127	360	172	30	5274	55,0
400	**16**	489	140	410	197	30	8250	75,0
450	**18**	539	152	450	218	30	10550	101,0
500	**20**	594	152	505	241	30	14500	111,0
600	**24**	695	178	624	295	30	24000	172,0

Installing the check valve on top of a pump please ensure that neither the valve is mounted directly on the pump flange or the following bend or a smoothing section of less than 5 x DN is observed.
For tight sealing of the DC a back pressure of not less than 1 bar is required.

Subject to change without notice

EBRO ARMATUREN

www.ebro-armaturen.com
post@ebro-armaturen.com

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