Dual plate swing check valve, article 650-GGG/VA

Diameter 2“ (DN 50) up to 12“ (DN 300)

Double plate swing check valve from the **"Slim-Line"** series for general industrial applications.

Wafer design (intermediate flange) with double disc separated in the middle, guided on a bearing shaft and a second shaft as a limit stop. Due to this construction, the opening cross section is more than 90%, so that the lowest pressure losses occur. The discs returns by a helical spring. The doubel plates lie on a soft sealing elastomer sealing surface in the body, optionally in the qualities NBR / EPDM / FPM (Viton).

Body inside / outside with epoxy coating (> 200 µm).

- ☞ **Installation between flanges according to DIN EN 1092-1 Form B1, PN 10/16 from nominal size DN 300 PN 10, also on request according to ASME 16.5, class 150**
- ☞ **Face to face according to EN 558-1, row 16 (DIN K-3)**
- ☞ **Installation in any pipe system (vertical / horizontal)**, with vertical mounting, the media flow should be from bottom to top.

CE	0036
T °C	Ambient -10° C ... +80° C
T °C	Medium EPDM -10° C ... +120° C NBR -10° C ... + 90° C FPM -10° C ... +150° C

Pressure drop diagram

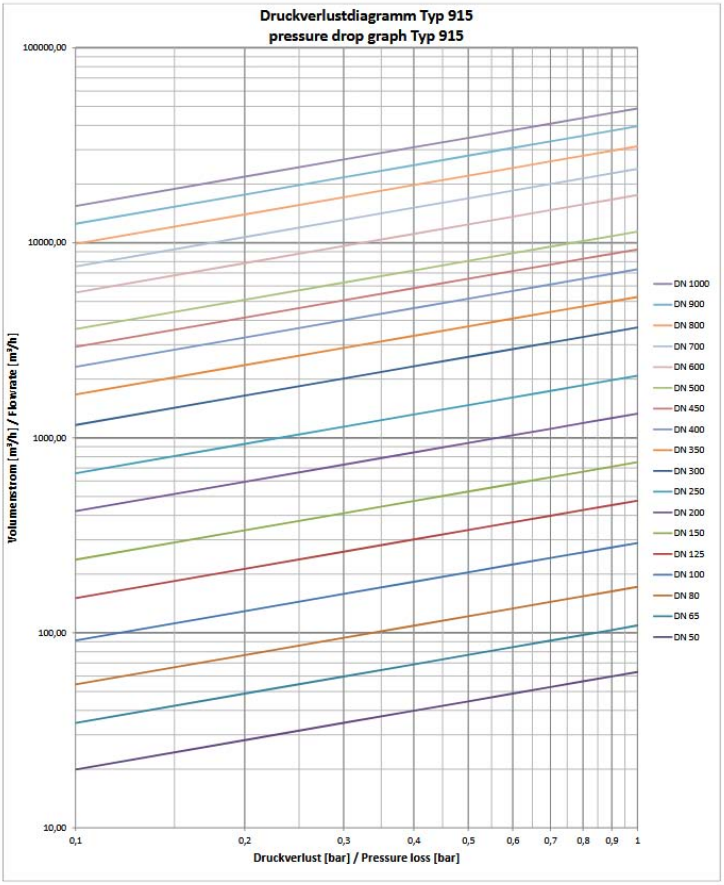
Pressure drop diagram for water at 20° C
open valve and horizontal flow.
To determine the pressure drops for others
Media please calculate with the equivalent
as for water volume flow

$$\dot{V}w = \dot{v}\sqrt{\frac{\rho}{1000}}$$

$\dot{V}w$ = equivalent water volume flow in m³/h

ρ = Density of the medium in kg/m³ (operating condition)

$\dot{v}$ = Volume flow of the medium in m³/h (operating condition)



650-GGG/VA 2021_ENG, Rev. 0

BSA-Armaturen GmbH
Einstein Ring 20
D-48599 Gronau

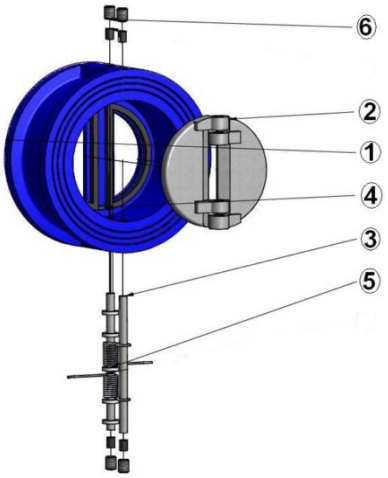
Tel.: +49 (0) 2562/70107-0
Fax: +49 (0) 2562/70107-11

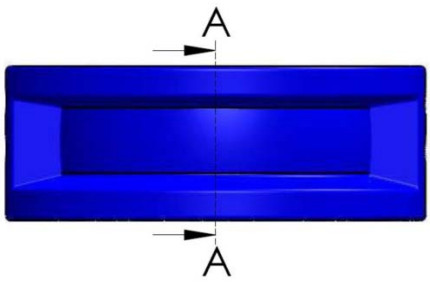
E-mail : info@bsa-armaturen.de
Internet: www.bsa-armaturen.de

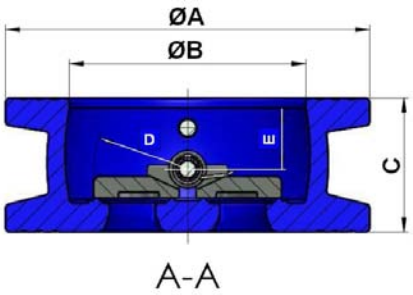
Dual plate swing check valve, article 650-GGG/VA

Diameter 2“ (DN 50) up to 12“ (DN 300)

Pos.	Description	Material
1	Body	Nodular cast iron EN-JS 1030 (GGG40) epoxyd coated, blue RAL 5010
2	Dual disc	Stainless steel A351 CF8M
3	Shaft	Stainless steel A182 F316
4	Sealing	NBR, EPDM, FPM
5	Springs	Stainless steel AISI 316 Ti
6	Screws	Stainless steel







Diameter	Article-No.:	ØA (mm)		ØB (mm)	C (mm)	D (mm)	E (mm)	Opening pressure at flow direction (mbar)			Design pressure		KV-value	Weight
		PN 10	PN 16					↔	↑	↓	PN	bar	(m³/h)	(kg)
DN 50	235.2703.6.21	107	107	70,5	43	28,8	19	~ 15	~ 20	~ 10	10 / 16	0 - 16	63	1,5
DN 65	235.2703.6.24	127	127	80,0	46	36,1	20	~ 15	~ 20	~ 10	10 / 16	0 - 16	109	2,4
DN 80	235.2703.6.25	142	142	94,0	64	43,4	28	~ 15	~ 20	~ 10	10 / 16	0 - 16	172	3,6
DN 100	235.2703.6.27	162	162	117,0	64	52,8	27	~ 15	~ 20	~ 10	10 / 16	0 - 16	289	5,7
DN 125	235.2703.6.28	192	192	145,0	70	65,7	30	~ 15	~ 20	~ 10	10 / 16	0 - 16	476	7,3
DN 150	235.2703.6.29	218	218	170,0	76	78,6	31	~ 15	~ 20	~ 10	10 / 16	0 - 16	750	9,0
DN 200	235.2703.6.31	273	273	221,0	89	104,4	33	~ 15	~ 20	~ 10	10 / 16	0 - 16	1550	17,0
DN 250	235.2703.6.33	328	328	275,5	114	127,0	50	~ 15	~ 20	-	10 / 16	0 - 16	2880	26,0
DN 300	235.2702.6.34	378	383	325,5	114	148,3	43	~ 15	~ 20	-	10	0 - 10	4100	42,0
DN 350	235.2702.6.35	438	444	360,0	127	172,4	45	~ 15	~ 20	-	10	0 - 10	5274	55,0
DN 400	235.2702.6.36	489	495	410,0	140	197,4	52	~ 15	~ 30	-	10	0 - 10	8250	75,0

please add behind the article no. the code for the required sealing quality **-E = EPDM -N = NBR -V = FPM**

BSA-Armaturen GmbH
Einstein Ring 20
D-48599 Gronau
Tel.: +49 (0) 2562/70107-0
Fax: +49 (0) 2562/70107-11
E-mail : info@bsa-armaturen.de
Internet: www.bsa-armaturen.de