

# WAFER TYPE BUTTERFLY VALVE Z 611-K



Resilient seated wafer type butterfly valve in split - body design for semi-corrosive media.

## TECHNICAL DATA

Nominal diameter:	DN 50 - DN 300
Face-to-face:	EN 558 Series 20 ISO 5752 Series 20 API 609 Table 1
Flange accommodation:	EN 1092 PN 6/10/16 ASME Class 150 AS 4087 PN16/21
Flange Surface Design:	EN 1092 Form A/B ASME RF, FF
Top flange:	EN ISO 5211
Marking:	EN 19
Tightness check:	EN 12266 (Leakage rate A) ISO 5208, Category 3
Temperature range:	-40°C bis +200°C (depending on seat material)
Operating pressure:	max. 10 bar

## FEATURES

- One piece disc/shaft, centric bearing
- Split body with stainless steel screws
- Insulation height as per plant regulations
- Can be installed in any desired position
- Triple shaft bearing
- Disc's sealing surface mirror polished
- Materials complying with FDA standards available
- Can be disassembled, material-specific recycling possible

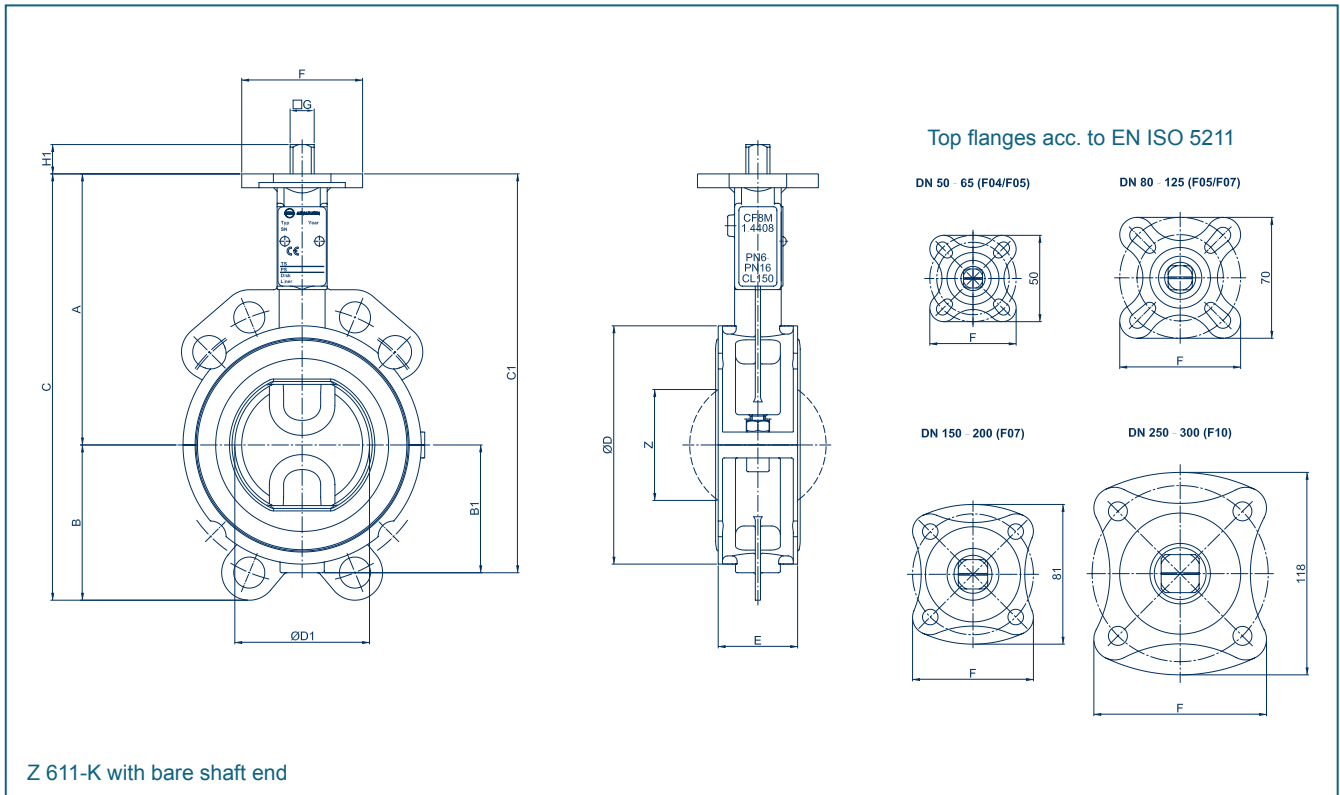
## GENERAL APPLICATIONS

- Food and beverage industry



The split body design allows quick and easy maintenance. Illustration with EHEDG certified flanges.

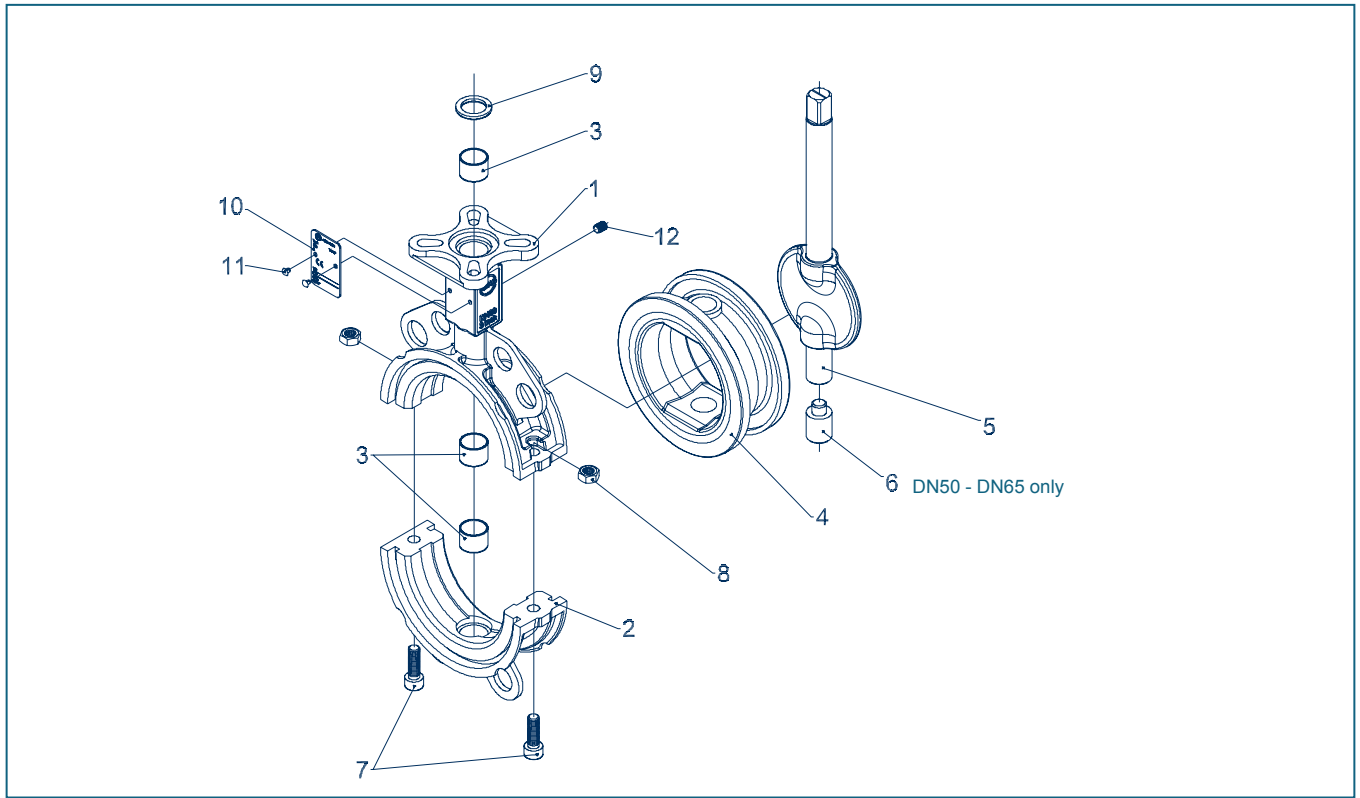
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DN [mm]	Size [in]	Dimensions [mm]												Weight [kg]
		A	B	B1	C	C1	ØD	ØD1	E	F	□G	H1	Z	
50	2	126	-	68	-	194	106	49	43	50	11	13,5	25	1,8
65	2½	134	83	77	217	211	120	64	46	50	11	13,5	45	2,2
80	3	157	90	74	247	231	138	79	46	70	14	17,0	64	2,9
100	4	167	104	84	271	251	160	99	52	70	14	17,0	84	3,6
125	5	180	118	98	298	278	190	124	56	70	14	17,0	110	4,8
150	6	203	130	132	333	335	215	149	56	70	17	20,0	138	6,3
200	8	228	161	157	389	385	269	199	60	70	17	20,0	189	10,3
250	10	266	195	195	461	461	324	249	68	100	22	23,5	239	18,5
300	12	291	229	220	520	511	380	297	78	100	22	23,5	286	25,0

Subject to change without notice

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Pos.	Description	Material	Material-Nr.	ASTM	Pos.	Description	Material	Material-Nr.	ASTM
1	Upper body				6	Lower shaft stub			
		Stainless Steel	1.4408	CF8M			Stainless Steel	1.4469	
2	Lower body				7	Screw			
		Stainless Steel	1.4408	CF8M			Stainless Steel	A4-70	B8M
3	Bearing bush				8	Hex- nut			
		Steel / PTFE					Stainless Steel	A4	
4	Seat				9	Wiper ring			
	NBR	Acrylonitrile butadiene rubber					PTFE		
	EPDM	Ethylene propylene caoutchouc			10	Type plate			
	CSM	Chlorsulphonated polyethylene					Stainless Steel	1.4301	
	FPM	Fluorocarbon caoutchouc			11	Round head grooved pin			
	VSI	Silicon rubber					Stainless Steel	A2	
	SBR-green	Polyurethane elastomer			12	Screw			
5	Disc/ Shaft						Stainless Steel	A4	
		Stainless Steel	1.4469						

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## TORQUE

- The torque values specified (Md) are based on liquid and lubricant media and EPDM liner

- Powdery (non-lubricant) media Md x 1,3

- Dry gases/high viscous media Md x 1,2

- The values specified are based on the initial breakaway torque

- Dynamic torque specification available upon request

Regarding the dimensioning of actuators, please contact our engineers.

DN [mm]	50	65	80	100	125	150	200	250	300
Size [in]	2	2½	3	4	5	6	8	10	12
MD [Nm]	7	15	18	28	45	110	140	200	280

All values in Nm

## K<sub>V</sub>-VALUES

- The K<sub>V</sub>-value [m<sup>3</sup> per hour] is the flow of water at a temperature of 5°C to 30°C (41°F to 86°F) at Δp of 1 bar

- The K<sub>V</sub>-values specified are based on tests carried out by the Delfter Hydraulics Laboratories, the Netherlands

- Permissible velocity of flow  
V<sub>max</sub> 4,5 m/s for liquids,  
V<sub>max</sub> 70 m/s for gases

- The throttle function is linear at an angle 30° to 70°

- Avoid cavitation

For further values, please contact our engineers.

DN [mm]	Size [in]	Opening angle α°							
		20°	30°	40°	50°	60°	70°	80°	90°
50	2	1,2	8	13	22	38	50	65	85
65	2½	2	9	22	42	77	115	170	215
80	3	8	24	50	95	150	240	330	420
100	4	13	28	65	130	180	340	550	800
125	5	26	65	130	230	350	530	870	1010
150	6	35	90	200	360	640	900	1350	2100
200	8	43	180	350	580	1000	1600	3000	4000
250	10	125	360	660	1100	1800	3100	5300	6400
300	12	200	550	1000	1600	2600	5000	7500	8500

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