

WAFER TYPE BUTTERFLY VALVE Z 611-A



Resilient seated wafer type butterfly valve for semi-corrosive media.

TECHNICAL DATA

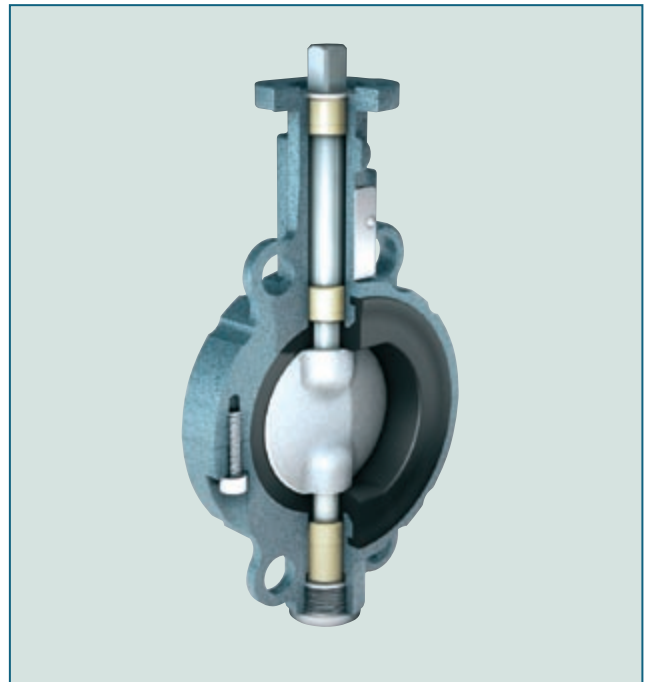
Nominal diameter:	DN 50 - DN 300
Face-to-face:	EN 558 Series 20 (DIN 3202 T3 K1) ISO 5752 Series 20 API 609 Table 1 BS 5155 Series 4
Flange accommodation:	DIN EN 1092 PN 10/16 ANSI B 16.5, Class 150
Flange surface design:	DIN 2526, Form A-E DIN 2642 ASME B 16.5 RF, FF
Top flange:	EN ISO 5211
Marking:	DIN EN 19
Tightness check:	DIN EN 12266 (Leakage Rate A) ISO 5208, Category 3 API 598 Table 5 ASME B 16-104, Class VI
Temperature range:	-20°C to +160°C (depending on pressure, medium and material)
Operating pressure:	max. 16 bar
Differential pressure:	max. Δp 10 bar
Vacuum:	0,2 bar absolute (depending on medium and temperature)

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

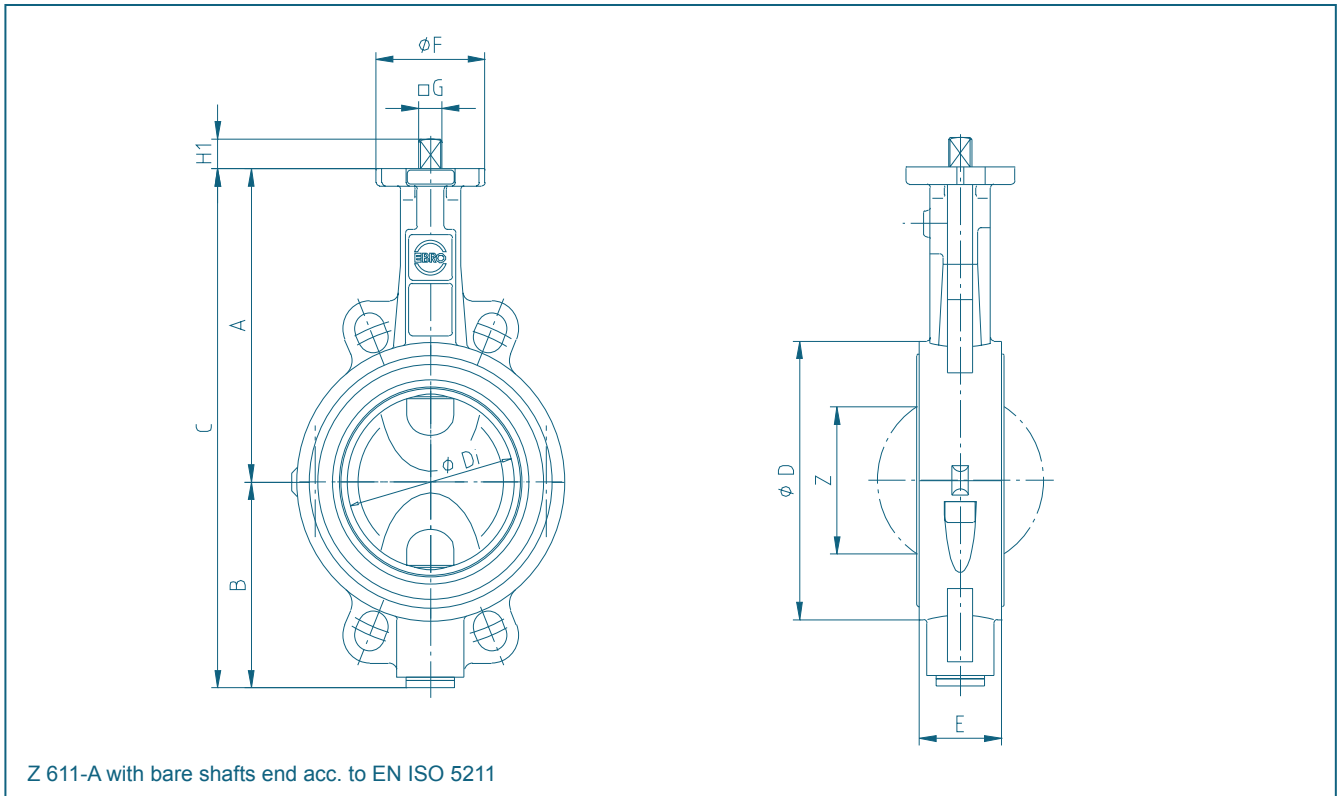
GENERAL APPLICATIONS

- Food and beverage industry
- Purification plants
- Pharmaceutical industry
- Chemical and petrochemical industry
- Water and waste water industry
- Pneumatic materials handling technology
- Shipbuilding
- Power plants
- Civil engineering
- For paint and lacquers a silicone-free version is available



The splitted body design allows quick and easy maintenance.

WAFER TYPE BUTTERFLY VALVE Z 611-A

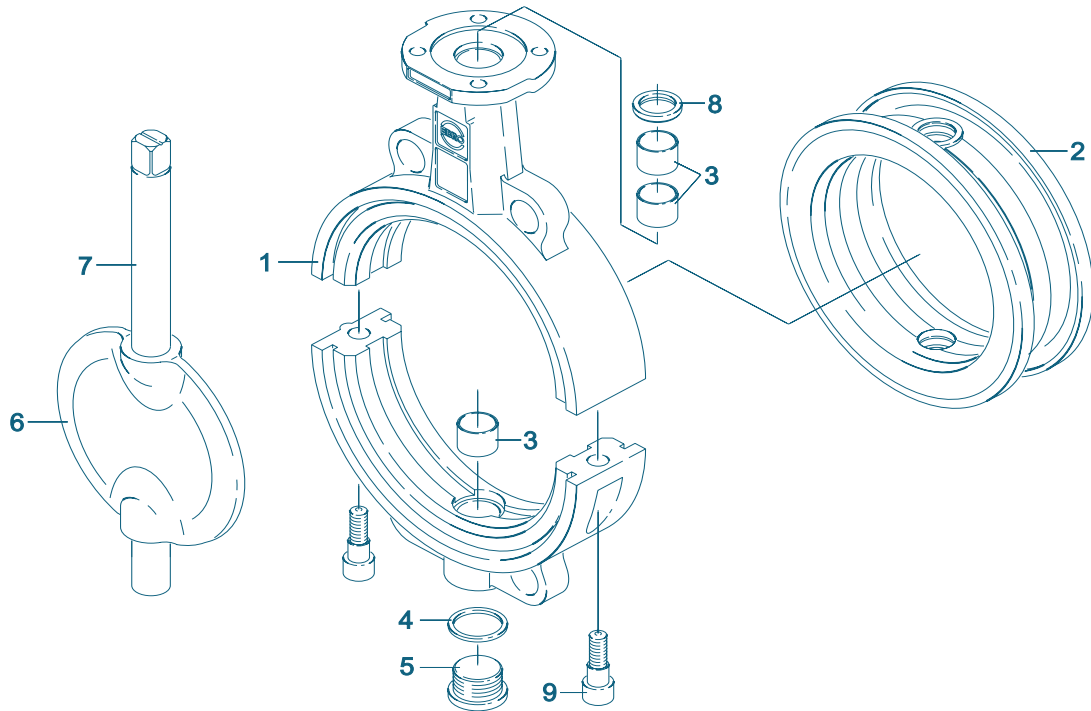


DN [mm]	Size [in]	Dimensions [mm]											Weight [kg]	
		A	B	C	D	Di	E	F	Flange	G	H1	H2		Z
50	2	126	84	210	112	49	43	54	F04	11	13,5	19	25	2,2
65	2½	134	93	227	120	64	46	54	F04	11	13,5	19	45	2,9
80	3	157	104	261	138	79	46	65	F05	14	17	25	64	4,0
100	4	167	115	282	160	99	52	65	F05	14	17	25	84	5,2
125	5	180	127	307	190	124	56	65	F05	14	17	25	110	6,9
150	6	203	150	353	215	149	56	88	F07	17	20	30	138	9,5
200	8	228	176	404	269	199	60	88	F07	17	20	30	189	13,2
250	10	266	212	478	324	249	68	125	F10	22	23,5	39	239	22,5
300	12	291	237	528	374	297	78	125	F10	22	23,5	39	286	31,5

Subject to change without notice

WAFER TYPE BUTTERFLY VALVE Z 611-A

MATERIAL SPECIFICATION AND PARTS LIST



Pt.	Description	Material	Material No.	ASTM	Pt.	Description	Material	Material No.	ASTM	
1	Body					Shaft/Disc one piece				
	Nodular cast iron	GGG - 40	0.7040	60-40-18	6	Disc				
							Stainless Steel	G-X5CrNiMo19-11-2	1.4408	CF8M
2	Seat							G-X2CrNiMoN26-7-4	1.4469	A 995
	NBR	Acrylonitrile butadiene rubber					Coating	Halar		
	EPDM	Ethylene propylene caoutchouc					Surface quality	electropolished,mirror finished		
	CSM	Chlorsulphonated polyethylene			7	Shaft				
	FPM	Fluorocarbon caoutchouc					Stainless Steel	G-X5CrNiMo19-11-2	1.4408	CF8M
	VSI	Silicone rubber						X2CrNiMoN22-5-3	1.4462	F 51
	AU	Polyurethane elastomer						X5CrNiMo17-12-2	1.4401	316
3	Bearing bush				8	Wiper ring				
	Brass	MS 58	2.0401	B 45			PTFE	Polytetrafluorethylene	PTFE	PTFE
4	Seal DIN 7603				9	Screw				
	Copper	Cu		Copper			Stainless Steel	A4-70	1.4401	B8M
5	Plug screw DIN 908									
	Stainless Steel	G-X5CrNiMo19-11-2	1.4408	CF8M						Other materials upon request

Subject to change without notice

WAFER TYPE BUTTERFLY VALVE Z 611-A

TORQUE

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

- 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

K_V-VALUES

- The K_V-value [m³ 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_V-values specified are based on tests carried out by the Delfter Hydraulics Laboratories, the Netherlands

- Permissible velocity of flow
V_{max} 4,5 m/s for liquids,
V_{max} 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

Subject to change without notice