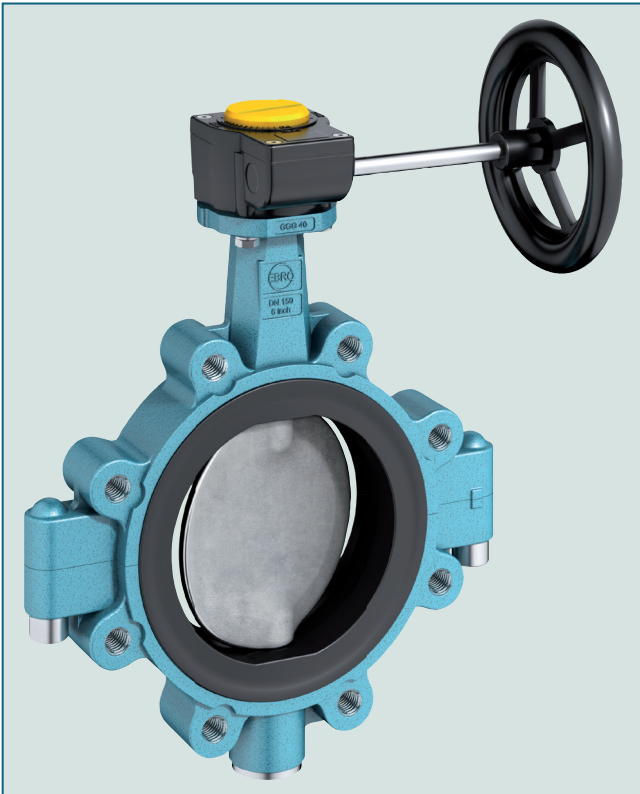


# LUG TYPE BUTTERFLY VALVE Z 614-A



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

## TECHNICAL DATA

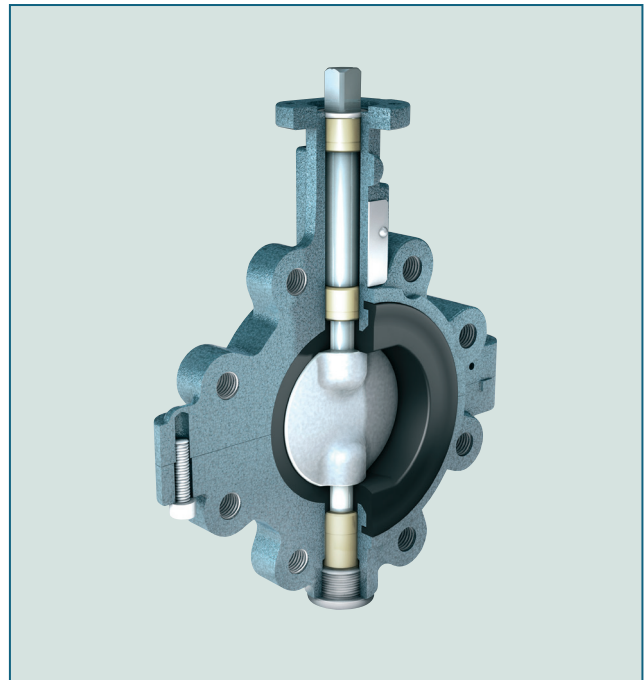
Nominal diameter:	DN 50 - DN 300
Face-to-face:	EN 558 Series 20 ISO 5752 Series 20 API 609 Table 1
Flange accommodation:	EN 1092 PN 10/16 ASME Class 150
Flange Surface Design:	EN 1092 Form A/B ASME RF, FF
Top flange:	EN ISO 5211
Marking:	EN 19
Tightness check:	EN 12266 (Leakage rate A) ISO 5208, Category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

## FEATURES

- One piece disc/shaft
- Split body with stainless steel screws
- Insulation height as per plant regulations
- Optional: Special design RWTÜV certified to TA-Air/ VDI 2440
- Triple shaft bearing
- Disc's sealing surface mirror polished
- Materials complying with FDA standards available
- Can be disassembled, material-specific recycling possible
- For paint and laquers, a silicone-free version is available

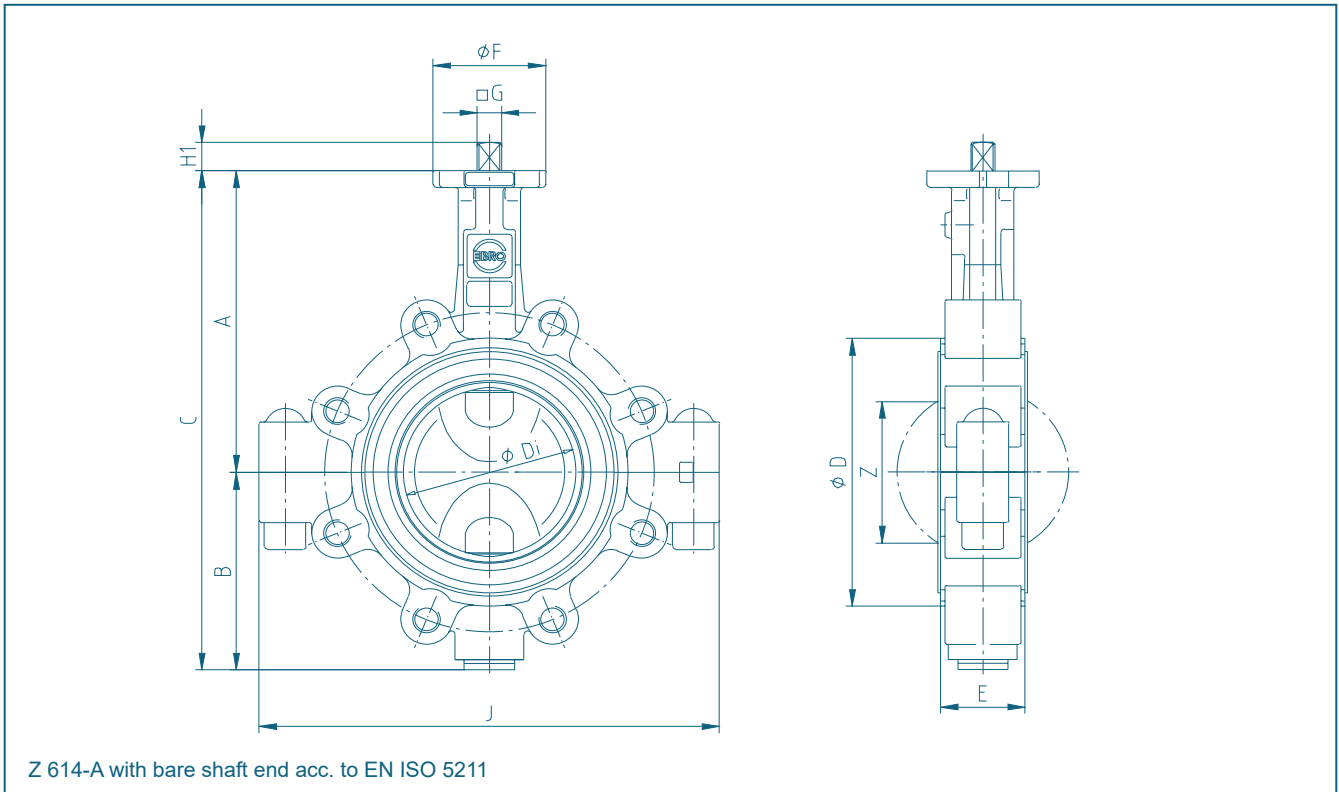
## GENERAL APPLICATIONS

- Food and beverage industry
- Purifications plants
- Pharmaceutical industry
- Chemical and petrochemical industry
- Water and waste water industry
- Pneumatic materials handling technology
- Shipbuilding
- Power plants
- Civil engineering



The split body design allows quick and easy maintenance.

# LUG TYPE BUTTERFLY VALVE Z 614-A

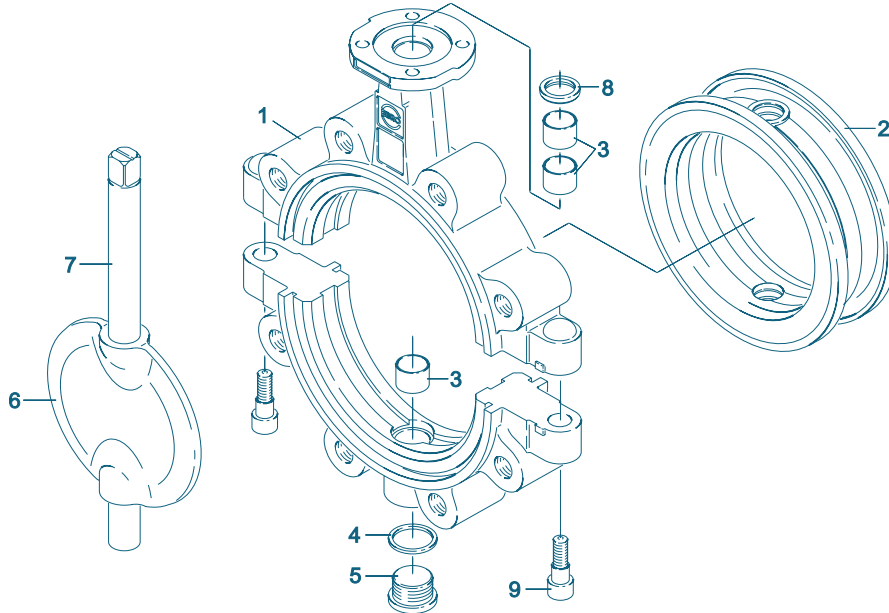


DN [mm]	Size [in]	Dimensions [mm]												Weight [kg]
		A	B	C	D	Di	E	F	Flange	G	H1	J	Z	
50	2	126	84	210	112	49	43	54	F04	11	13,5	167	25	4,9
65	2½	134	93	227	120	64	46	54	F04	11	13,5	181	45	5,6
80	3	157	104	261	138	79	46	65	F05	14	17	227	64	8,7
100	4	167	115	282	160	99	52	65	F05	14	17	266	84	10,0
125	5	180	127	307	190	124	56	65	F05	14	17	300	110	10,2
150	6	203	150	353	215	149	56	88	F07	17	20	322	138	13,2
200	8	228	176	404	269	199	60	88	F07	17	20	390	189	19,0
250	10	266	212	478	324	249	68	125	F10	22	23,5	481	239	29,7
300	12	291	237	528	374	297	78	125	F10	22	23,5	558	286	37,2

Subject to change without notice

# LUG TYPE BUTTERFLY VALVE Z 614-A

## MATERIAL SPECIFICATION AND PARTS LIST



Pt.	Description	Material	Material No.	ASTM	Pt.	Description	Material	Material No.	ASTM
1	<b>Body</b>				5	<b>Plug screw DIN 908</b>			
	Nodular cast iron	EN-JS 1030	GGG 40	60-40-18		Stainless Steel	G-X5CrNiMo19-11-2	1.4408	CF8M
2	<b>Seat</b>				6/7	<b>Shaft/Disc one piece</b>			
	NBR	Nitrile butadiene rubber				Stainless Steel	G-X2CrNiMoN26-7-4	1.4469	A 995
	EPDM	Ethylene propylene diene monomer rubber			8	<b>Wiper ring</b>			
	CSM	Chlorosulfonated polyethylene rubber				PTFE	Polytetrafluorethylene	PTFE	PTFE
	FPM	Fluorocarbon rubber			9	<b>Screw</b>			
	VSI	Silicone rubber				Stainless Steel	A4-70	1.4401	B8M
	SBR-green	Styrene butadiene rubber							
3	<b>Bearing bush</b>								
	Brass	MS 58	2.0401	B 45					
4	<b>Seal DIN 7603</b>								
	Copper	Cu		Copper					

Above-mentioned materials of the basic version, other materials upon request

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# LUG TYPE BUTTERFLY VALVE Z 614-A

## TORQUE

- The values listed in the table are initial breakaway torques, taken with liquids and lubricant media.

- Please regard these as approximate values, as the objective value depends on different factors like pressure, medium, rubber, quality, temperature ... etc.

- Our engineers look forward to help you with exact values for your application.

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

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

DN [mm]	50	65	80	100	125	150	200	250	300
Size [in]	2	2½	3	4	5	6	8	10	12
MD [Nm]	9	18	18	28	45	78	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	3,84	10,1	20,7	34,4	49,7	65,2	79,5	91,2
65	2½	9,5	16,6	39,1	72,6	113	157	199	235
80	3	15,6	20,6	51,4	102	165	234	304	368
100	4	24,9	39,8	96,5	183	288	398	503	589
125	5	51,8	67,2	135	256	428	652	926	1250
150	6	76,5	97,3	197	375	629	957	1360	1830
200	8	137	187	373	697	1160	1760	2510	3400
250	10	227	271	563	1090	1850	2830	4010	5390
300	12	287	409	820	1550	2610	4050	5880	8120

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