Butterfly Valve CBF01-TA(L)01

Introduction of the valve

The valve body shall be one-piece wafer or lug design with extended neck to allow for 2”~24” of piping insulation, have flange hole drilling per internat ional flange standards and be provided with a non-corrosive bushing and self-adjusting stem seal. Flange locating holes shall be pro vided on wafer and lug bodies to allow for quick and precise alignment during valve installation. The valve disc edge and hub on metal discs shall be spherically machined and hand polished for minimum torque and maxi mum sealing capability. The valve stem shall be one-piece design and be mechanically retained in the body neck and no part of the stem shall be exposed to the line media. The seat shall totally encapsulate the body isolating the body from the line media and no flange gaskets shall be required. The wafer and lug valve shall be rated for bubble-tight shut-off for bidirectional service to 16 Bar on sizes 2”-12” (50mm-300mm) and to 10Bar on sizes 14”-24” (350mm-600mm). The valve shall be tested for tight shut-off to 110% of the rated pressure. The Valve shall have the following approvals and certifications: CE/PED Certification, ANSI 61- 2008 (Potable Water) Certification, SIL, ABS, Bureau Veritas, DNV, ISO9001,API,

BONNY VALVE COMPANY

Butterfly Valve CBF01-TA(L)01

Max working pressure

DN50-DN300 16Bar

Flange PN10 PN16 150LB JIS10K AS"D""E"

DN350-DN600 10Bar

Flange PN10 PN16 150LB JIS10K AS"D""E"

Design

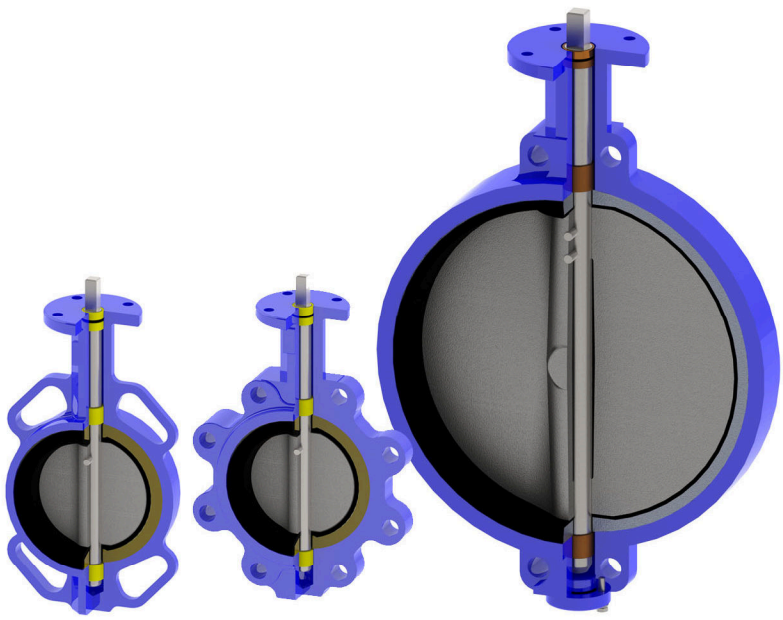
EN593 API 609 BS5155 EN1092 ISO5211

Face to Face

DIN558-1 API609 DIN3202 ISO5752 BS5155

Testing

EN 12266-1 ISO5208 API598



Body

Material	Referencesstandard	Coating
Cast iron	GG20 GG25 A126	Epoxy Ral 5005
Ductile iron	GGG40 GGG45 GGG50 A536 A395	Epoxy Ral 5005
Carbon steel	WCB WCC LCC LCB	Epoxy Ral 7011
Stainless steel	CF8 CF8M CF3 CF3M SAF2507 SAF2205	
Aluminuim-bronze	C9540 C95500 C95800	

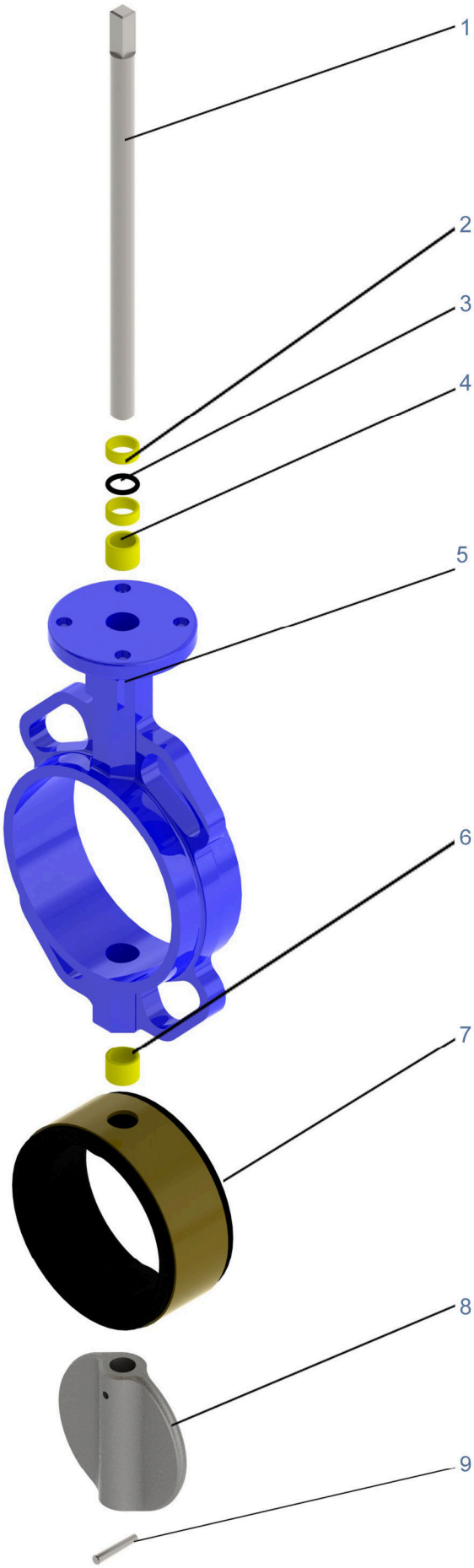
Disc

Material	References	Standard coating
Ductile iron	GGG40 GGG45 GGG50 A536	Nickel Brass-Nikle
Carbon steel	WCB WCC LCC LCB	Nickel Brass-Nikle
Stainless steel	CF8 CF8M CF3 CF3M SAF2507 SAF2205	
Aluminuim-bronze	C95400 C95500 C95800	

Body Rubber Seat

References	Desigation	Trade Name	Working temp	Applications
NBR	Nitrile Rubber	BUNA-N	-25/+100	Oils ,Hydrocarbons ,Gas, Air ,Water
EPDM	Copolymer	EPDM	-35/+130	Water ,Sea Water,Steam,Diluted Acids
FKM	Fluoroelastomer	VITON	-20/+200	Oils, Hydrocarbons, Acids
CR	Polychloroprene	NEOPRENE	-20/+100	Alkail, Bases,Water
NR	Natural Rubber	NR	-40/+80	Glycols,Abrasive media
MVQ	Sillicon Rubber	SR	-60/+190	Water,food,Drinks
CSM	Chlorosulfonate Polychloroprene	HYPALON	-20/+125	Acids,mineral bases,Alcohols,Hydrocarbons
PTFE	PolyTetraFluoroEthyl -ene	TEFLON	-180/+260	Acidity Alkaline

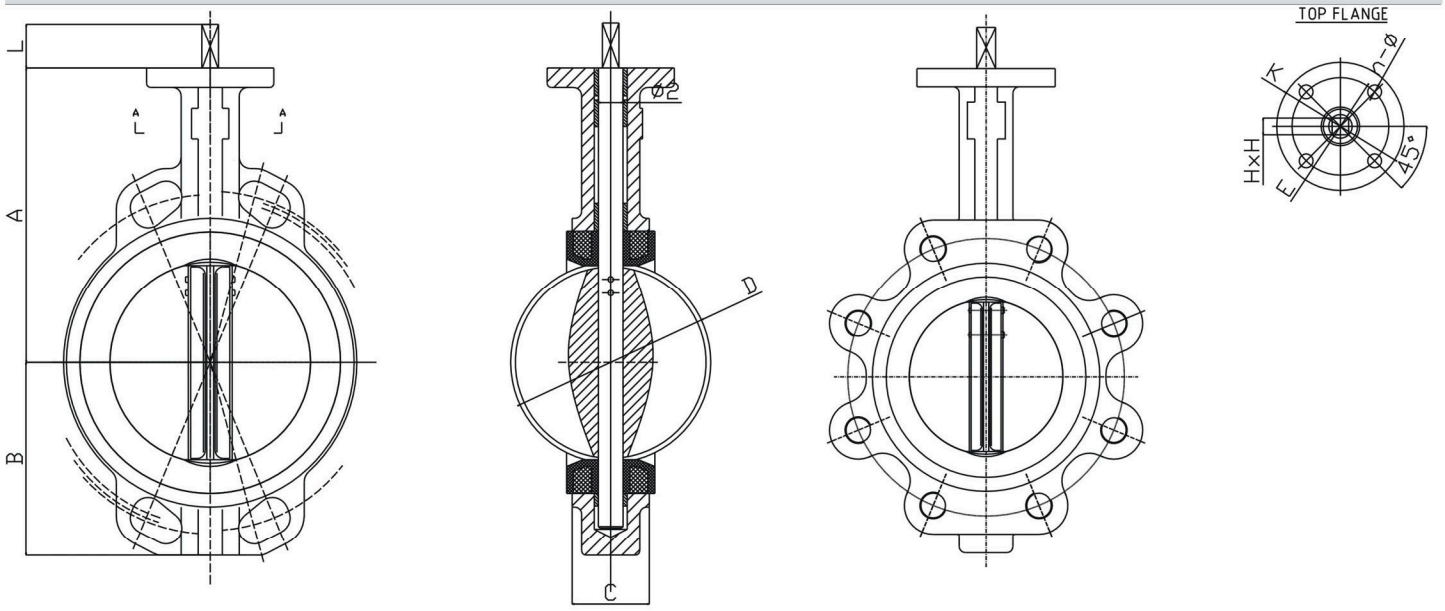
Main Spare Part Material Quality（DN50-DN300）



1	Shaft	SS410 SS304 SS431 SS316 MONEL K500 17-4PH C63000 C92200 2507 2205
2	Short Bushing	PTFE
3	"O"Ring	NBR VITON
4	long Bushing	PTFE
5	Body	GG20 GG25 GG40 GGG45 GGG50 WCB WCC LCC LCB CF8 CF8M CF3 CF3M C95800 C95400
6	Short Bushing	PTFE
7	Body seat	NBR(BUNA-N) EPDM HEPDM FKM(VITON) Polychloroprene Natural Rubber Sillicon Rubber
8	Disc	GGG40 GGG45 GGG50 WCB WCC LCC LCB CF8 CF8M CF3 CF3M C95800
9	Pin	SS410 SS304 SS431 SS316 Monel

Butterfly Valve CBF01-TA(L)01

Drawing(50-300)



Outline Dimensions &Weight

Size(mm)	A	B	C	D	Φ2	ISO5211	K	E	n-Φ	L	H*H	A (Kg)	LT (Kg)
50	140	80	42	52.9	12.6	F07	90	70	4-Φ10	28	11*11	2.2	3.8
65	150	89	44.7	64.5	12.6	F07	90	70	4-Φ10	28	11*11	2.5	4.2
80	158	95	45.2	78.8	12.6	F07	90	70	4-Φ10	28	11*11	2.9	4.7
100	176	114	52.1	104	15.77	F07	90	70	4-Φ10	28	11*11	4.3	9
125	190	127	54.4	123.3	18.92	F07	90	70	4-Φ10	28	14*14	6.1	10.9
150	212	139	55.8	155.6	18.92	F07	90	70	4-Φ10	28	14*14	7.8	14.2
200	235	175	60.6	202.5	22.1	F10	125	102	4-Φ12	40	17*17	12.2	18.2
250	265	203	65.6	250.5	28.45	F10	125	102	4-Φ12	40	22*22	18.8	26.8
300	305	242	76.9	301.6	31.6	F10	125	102	4-Φ12	40	22*22	28.7	40

Connection Dimensis

	Outer Diameter of flange				Diameter of center Circle				Number and Diameter of bolt Holes			
DN	150LB	PN10	PN16	JIS10K	150LB	PN10	PN16	JIS10K	150LB	PN10	PN16	JIS10K
50	150	165	165	155	120.7	125	125	120	4-19	4-18	4-18	4-19
65	180	185	185	175	139.7	145	145	140	4-19	4-18	4-18	4-19
80	190	200	200	185	152.4	160	160	150	4-19	8-18	8-18	8-19
100	230	220	220	210	190.5	180	180	175	8-19	8-18	8-18	8-19
125	255	250	250	250	215.9	210	210	210	8-22	8-18	8-18	8-23
150	280	285	285	280	241.3	240	240	240	8-22	8-23	8-23	8-23
200	345	340	340	330	298.5	295	295	290	8-22	8-23	12-23	12-23
250	405	395	405	400	362	350	355	355	12-26	12-23	12-26	12-25
300	485	445	460	445	431.8	400	410	400	12-26	12-23	12-26	16-25