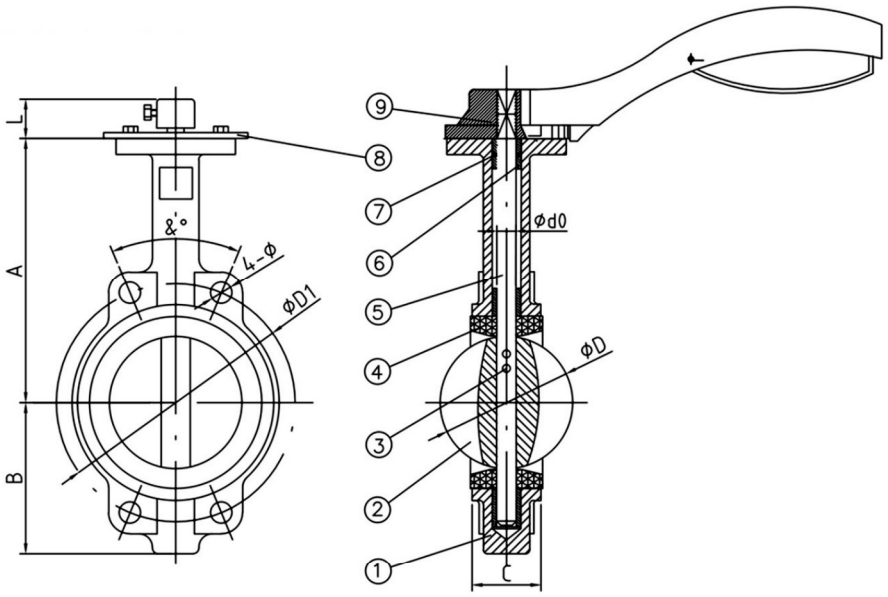
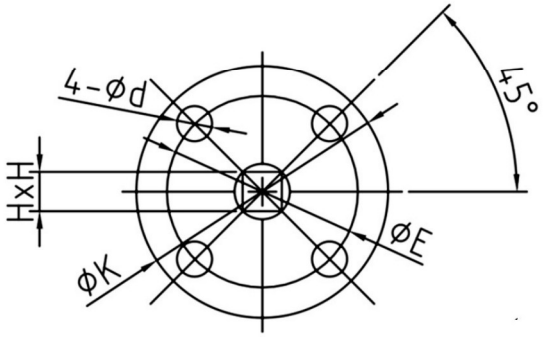
Lever Wafer Butterfly valve (BFL100)



TOP FLANGE



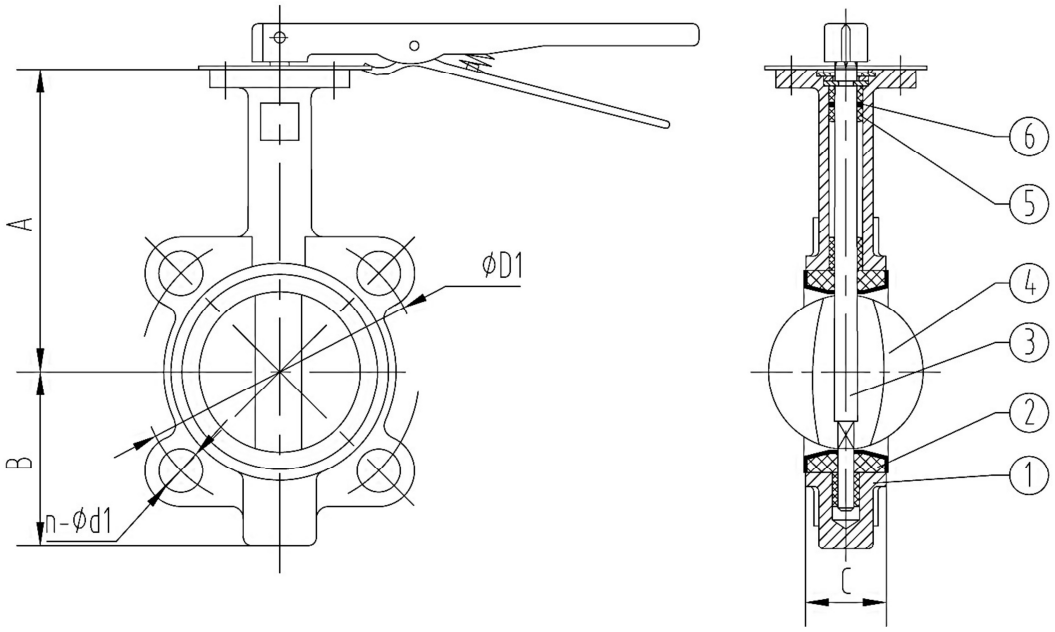
NO	PART NAME	MATERIAL
1	BODY	GGG5O
2	DISC	SS304
3	PIN	SS304
4	SEAT	EPDM
5	STEM	SS410
6	BUSHING	P.T.F.E
7	O-RING	EPDM
8	INDICATOR	CARBON STEEL ALUMINUM
9	LEVER	HANDLE

TEST PRESSURE	-	SHELL
	HYDROSTATIC	24 KG/CM^2
	AIR	-
STANDARD	DESIGN CODE	BS5154
	INSPECTION & TEST	DIN 3202
	END STANDARD	DIN PN16
	FACE TO FACE	DIN 3202

SIZE	A	B	C	D	LO	do	ISO5211	L	K E	4-Ød	4-Ø	D1	&	HXH
3″	181	95	46	78.8	266	12.6	F05	30	68 50	4-7	4-19	160	45	11X11
4″	200	114	52	104	266	15.77	F07	30	90 70	4-10	4-19	180	45	11X11
6″	226	139	56	155.1	266	18.92	F07	30	90 70	4-10	4-23	240	45	14X14
8″	260	175	60	202.5	355	22.1	F10	40	125 102	4-12	4-23	350	30	22X22
10″	292	203	68	250.5	505	28.45	F10	40	125 102	4-12	4-23	350	30	22X22
12″	337	242	78	301.6	505	31.6	F10	40	125 102	4-12	4-23	400	30	22X22

DI+EPDM Disc Concentric Butterfly valve (BFL101)

WAFER TYPE



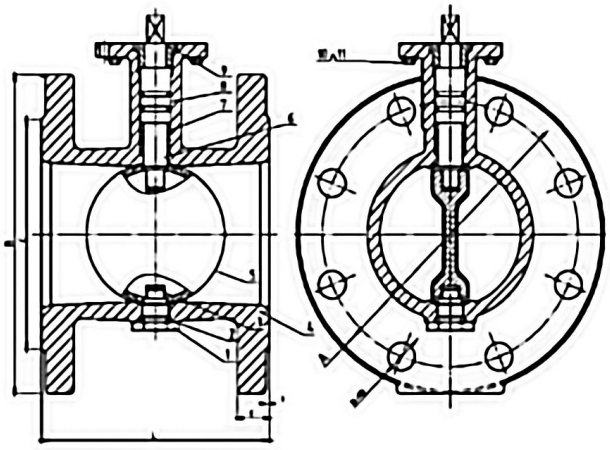
STANDARD MATERIALS OF MAIN PARTS		
Item	**Part**	**Material**
1	Body	DI
2	Seat	EPDM
3	Shaft	Stainless Steel 416
4	Disc	DI+EPDM
5	Bushing	PTFE
6	O-ring	NBR

DIMENSION AND WEIGHTS						
SIZE		**A**	**B**	**C**	**DIN PN10**	
IN	**DN**				**D1**	**n-d1**
3	80	156	95	45.2	160	8-19
4	100	167	114	52.1	180	8-19
6	150	202	139	55.8	240	8-23
8	200	227	175	60.6	295	8-23
10	250	280	203	65.6	350	12-23
12	300	312	242	76.9	400	12-23

NOTE: Working pressure with 1.6 MPa

Flange Center Line Butterfly Valve (BFVCL 100)

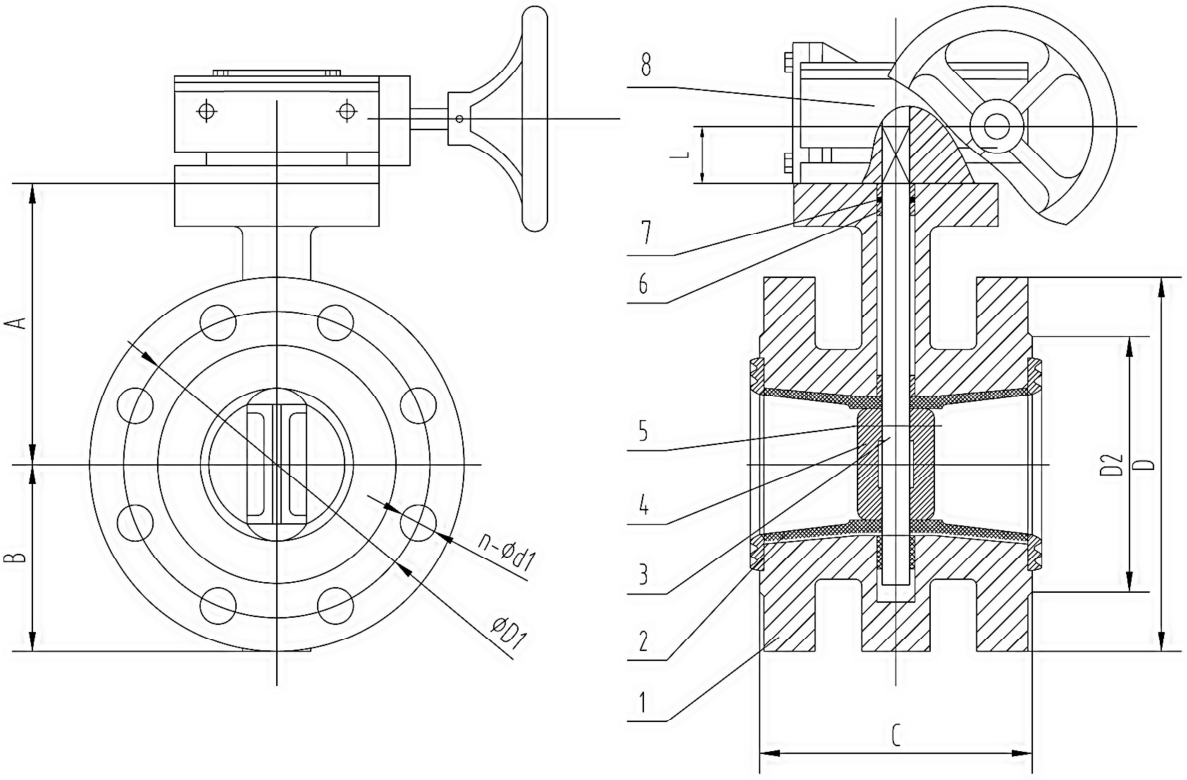
Valve pressure rating PN16/PN10:
Max temperature rating 180°F
Designed to meet AWWA C504 & BS 5155
Flanged design to meet BS EN 1092-2
Testing standard to meet ISO5208



DN	PN	L	n-Ød	B	A	d	C	t
65	10	112	4-Ø19	185	145	118	19	3
	16							
80	10	114	8-Ø19	200	160	132	19	3
	16							
100	10	127	8-Ø19	220	180	156	19	3
	16							
150	10	140	8-Ø23	285	240	211	19	3
	16							
200	10	152	8-Ø23	340	295	266	20	3
	16		12-Ø23					
250	10	250	12-Ø23	405	350	319	22	3
	16		12-Ø28		355			
300	10	270	12-Ø23	455	400	370	24.5	4
	16		12-Ø28		410			

Index	Name	Quan	Material
1	CAP and GUIDE PIN	1	SS420
2	O-ring	1	EPDM
3	PIN BUSHING	1	C83600
4	Body	1	ASTM A536 65-45-12
5	Disc	1	ASTM A536 65-45-12 + EPDM
6	Stem	1	SS420
7	STEM BUSHING	1	C83600
8	O-ring	2	EPDM
9	BUSHING	1	C83600
10	Spring Washer	4	Steel
11	Bolts	4	ASTM A307
12	Valve Actuator/Spanner	-	-

Flanged End Concentric Butterfly Valve (BFC104)

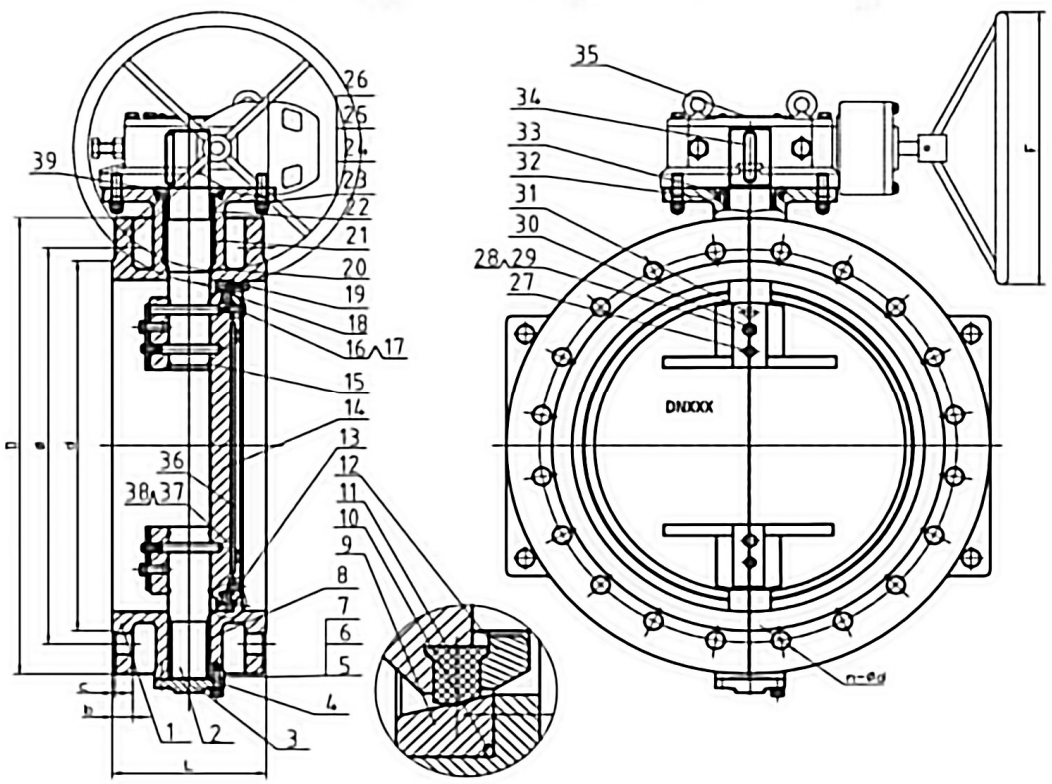


STANDARD MATERIALS OF MAIN PARTS		
Item	**Part Name**	**Material**
1	Body	DI
2	Seat	EPDM
3	Shaft	Stainless Steel 416
4	Disc	Ductil Iron + Ni
5	Pin	SS
6	Bushing	PTFE
7	O-ring	NBR

DIMENSIONS AND WEIGHTS								
SIZE		**A**	**B**	**C**	**DIN PN10**			
IN	**DN**				**D**	**D1**	**n-d1**	**D2**
3	80	145	100	114	200	160	8-19	132
4	100	155	114	127	220	180	8-19	156
6	150	190	143	140	285	240	8-23	211
8	200	208	176	152	340	295	8-23	266
10	250	238	204	165	400	350	12-23	319
12	300	280	223	178	455	400	12-23	370

NOTES: Fact to face C is in accordance with DIN 3202 F16 and equal to ISO 5752 13 series.
WORKING PRESSURE: PN16

GD/GB type double softheaderted sealing Butterfly Valve (BFVECC 101)

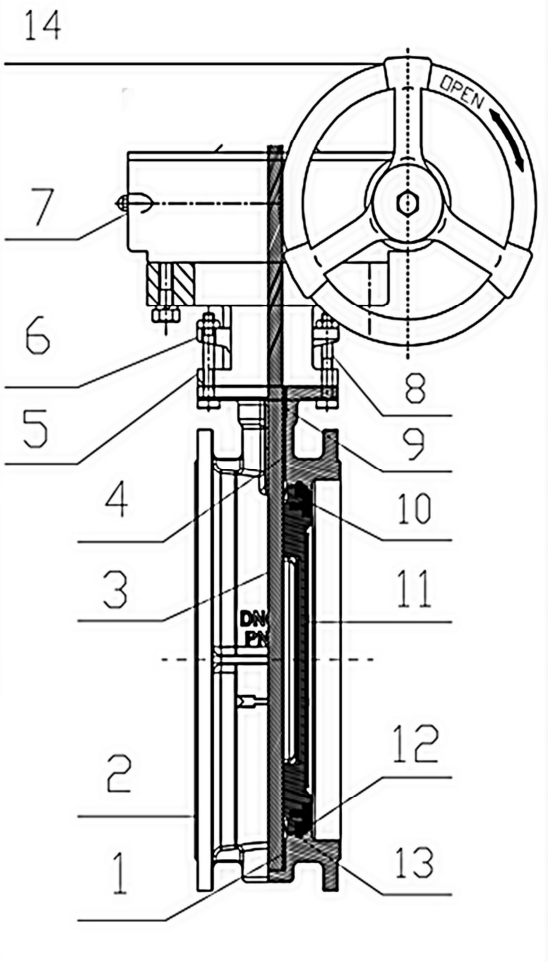


Valve pressure rating PN16/PN10:
Max temperature rating 180ºF
Designed to meet AWWA C504 & BS 5155
Flanged design to meet BS EN 1092-2
Testing standard to meet ISO5208

DN	PN	L	D	Ø	n-Ød	b	d	c	ISO5210
300	10	178	455	400	12-Ø23	24.5	370	4	F14
	16			410	12-Ø28				
400	10	216	580	515	12-Ø28	28	480	4	F14
	16			525	12-Ø31				
500	10	229	715	620	12-Ø28	31.5	582	4	F16
	16			650	12-Ø34		609		
600	10	267	840	725	20-Ø31	36	682	5	F25
	16			770	20-Ø37		720		
800	10	318	1025	950	24-Ø34	43	901	5	F25
	16				24-Ø41				
1000	10	410	1255	1160	28-Ø37	50	1112	5	F30
	16			1170	28-Ø44				
1200	10	470	1485	1380	32-Ø41	57	1328	5	F35
	16			1390	32-Ø50				

NO	Drawing No	Name	Material
1	YC-D43X / D43W-16Q-XXX-01	BODY	Ductile Iron GGG 50/40
2	YC-D43X-16Q-XXX-02	LOWER STEM	SS316
3	YC-D43X-16Q-XXX-12	GLAND	Ductile Iron GGG 50/40
4	GB/T3452.1	O-RING	EPDM
5	GB/T5783	BOLT	8.8
6	GB97.1	GLAND	-
7	YC-D43X-16Q-XXX-07	LOWER STEM SLEEVE	ZCuAL8Fe3
8	YC-D43X-16Q-XXX-03	VALVE SEAT	0Cr18Ni19
9	GB/T3452.1	O-RING	EPDM
10	YC-D43X-16Q-XXX-04	SEAL RING	EPDM
11	YC-D43X-16Q-XXX-05	CLAMPING RING	Q235
12	GB/T77	SCREW	SS316
13	GB/T6170	NUT	SS316
14	GB/T3452.1	O-RING	EPDM
15	YC-D43X-16Q-XXX-06	VALVE PLATE	Ductile Iron GGG 50/40
16	-	O-RING	EPDM
17	GB/T5783	BOLT	SS316
18	YC-D43X-16Q-XXX-08	UP STEM	SS316
19	GB/T70.1	SCREW	SS316
20	YC-D43X-16Q-XXX-09	BODY SLEEVE	ZCuAL8Fe3
21	YC-D43X-16Q-XXX-14	BUSH	-
22	GB/T898-1988 A	STUD	8.8
23	GB/T6170	NUT	8
24	GB/T93	SPING WASHER	65Mn
25	GB/T5783-86	BOLT	SS316
26	YC-D43X-16Q-XXX-13	PLATE	Q235
27	YC-D43X-16Q-XXX-15	GASKET SEAL	EPDM
28	GB/T5783-86	BOLT	SS316
29	GB/T120.1	PIN	SS316
30	GB/T3452.1	O-RING	EPDM
31	GB/T3452.1	O-RING	EPDM
32	GB/T1096	KEY	-
33	GB/T3452.1	O-RING	EPDM
34	GB/T3452.1	O-RING	EPDM

Butterfly Valve Double Eccentric (BFVECC 102)



BUTTERFLY VALVE PN16 DN 80~2000
(Double flange with resilient-seated with wormgear actuator butterfly valve)

NO	Name	Material
1	Down shaft bearing	Stainless steel with PTEF lining
2	BODY	Ductile Iron GGG50
3	Shaft	Stainless steel AISI420
4	Up shaft bearing	Stainless steel with PTEF lining
5	Packing gland	Ductile Iron GGG50
6	Yoke	Ductile Iron GGG50
7	Gear box	Ductile Iron GGG50
8	Bolts / Nuts	Stainless steel AISI304-A2
9	Shaft O-ring	Rubber +NBR 70 or EPDM
10	Taper Pin	Stainless steel AISI304-A2
11	Disc	Ductile Iron GGG50
12	Disc seat ring cover	Ductile Iron GGG50
13	Disc seat ring	Ductile Iron GGG50
14	Handwheel	Ductile Iron GGG50

PN	Nominal size	Face-to-face (DIN3202)		Table 9-Dimensions of ISO flanges									
		L (F4)	L (F16)	ØD	ØD0	ØD1	n-Ød	t	f	H	B	h	s
16	DN80	180	114	200	160	138	8-19	19	3	270	160	110	8.5
	DN100	190	127	220	180	158	8-19	19	3	300	190	120	9
	DN125	200	140	250	210	188	8-19	19	3	315	230	135	9.5
	DN150	210	140	285	240	212	8-23	19	3	270	160	145	10
	DN200	230	152	340	295	268	12-23	20	3	300	190	175	11
	DN250	250	165	405	355	320	12-28	22	3	315	230	205	12
	DN300	270	178	460	410	378	12-28	24.5	4	350	240	235	13
	DN350	290	190	520	470	438	16-28	26.5	4	370	260	265	14
	DN400	310	216	580	525	490	16-31	28	4	400	270	295	14
	DN450	330	222	640	585	550	20-31	30	4	470	380	320	15
	DN500	350	229	715	650	610	20-34	31.5	4	535	420	345	16
	DN600	390	267	840	770	725	20-37	36	5	590	480	400	17
	DN700	430	292	910	840	793	24-37	37	5	590	480	400	19
	DN800	470	318	1025	950	900	24-40	40	5	730	530	520	21
	DN900	510	330	1125	1050	1000	28-40	40	5	1120	1000	850	23
	DN1000	550	410	1230	1170	1116	28-43	43	5	590	480	400	24
	DN1200	630	470	1485	1390	1330	32-49	49	5	730	530	520	28
	DN1400	710	530	1685	1590	1535	36-49	49	5	1120	1000	850	31
	DN1600	790	600	1930	1820	1760	40-56	49	5	1120	1150	-	-
	DN1800	870	670	2130	2020	1960	44-56	52	5	1330	1220	650	34
	DN2000	950	760	2345	2230	2170	48-62	55	5	1450	1370	720	38