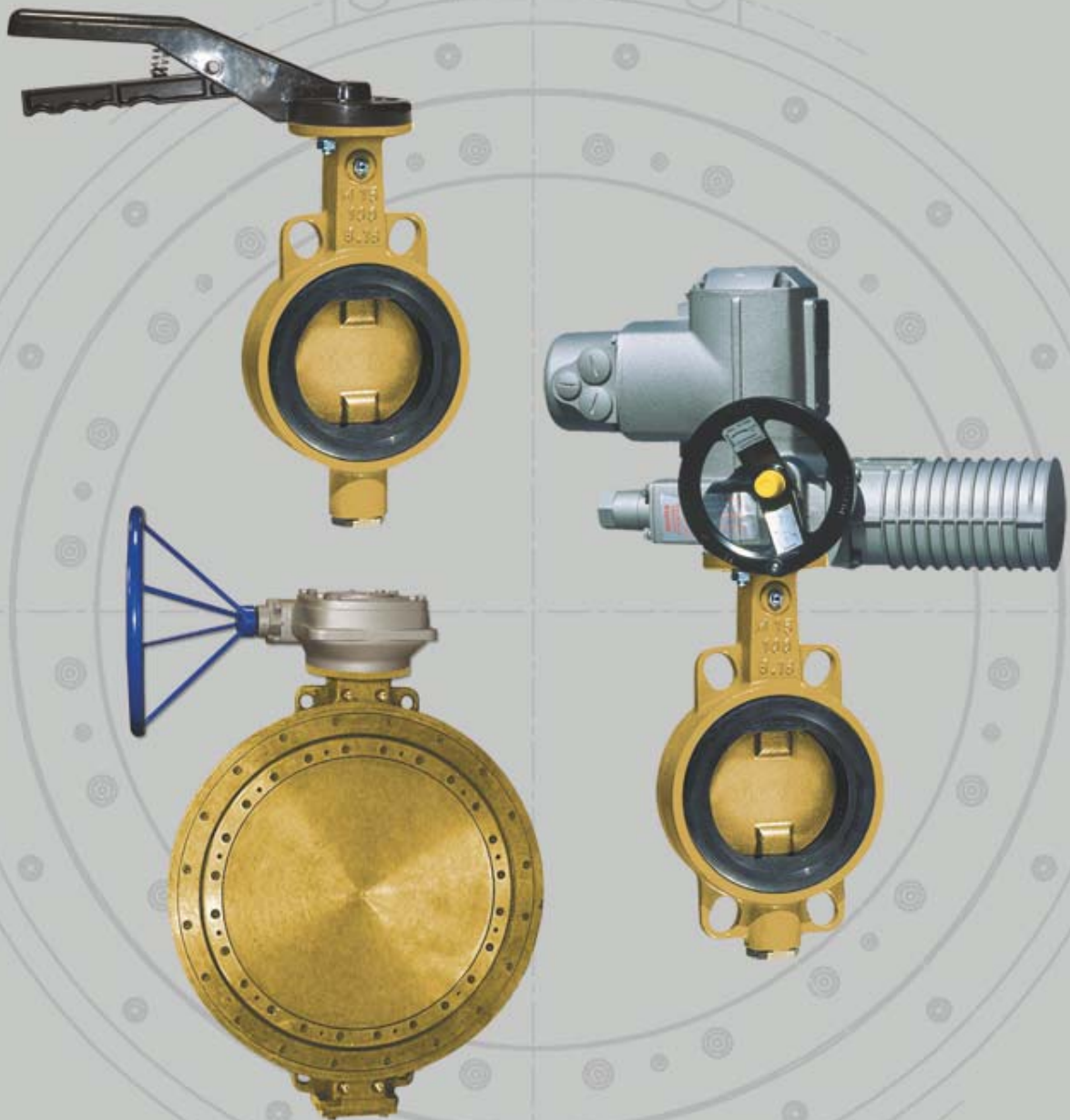




AB VALVES GmbH
Manufacturer of Industrial Valves
and Relevant Equipments

Butterfly Valves Wafer Type for Sea Water (BVS)





Butterfly Valve Wafer Type for Sea Water (BVS)

Size: DN 50-1200 mm
Pressure: PN 6-16 bar

Face to face: DIN EN558-1 series20/ISO5752-20 (DIN3202-P3-K1)
Flange accommodation: DIN EN 1092 (DIN2501) & ASME Ansi B16.5 - Class 150

Product Features:
Sea water is very corrosive and our solution is choosing a special alloy, which is resisted against corrosion of sea water. This alloy is Ni-Al-Bz (ASTM-B148) best option.
As costumer request, disk can be produced by Stainless steel alloys.

These valves can be produced with Lever, Gearbox, Electrical actuator, pneumatic actuator and extension spindle. These valves are wafer or LUG Types. Also, dimensions of flanges in our valves can be according to ANSI Class 150, DIN or BSI standards.

Ni-Al-Bz (ASTM-B148) Specifications: The layer (Al2O3) has a great resistance against abrasion. Also, this alloy has good resistance ability against corrosive because of copper properties. We use this alloy for disk and body of our butterfly valves.

Ni-Cu (ASTM E76) Specifications: Same as shafts, MONEL (Ni-Cu) is using especially for wetted parts those have erosion and corrosion risk, at the same time.

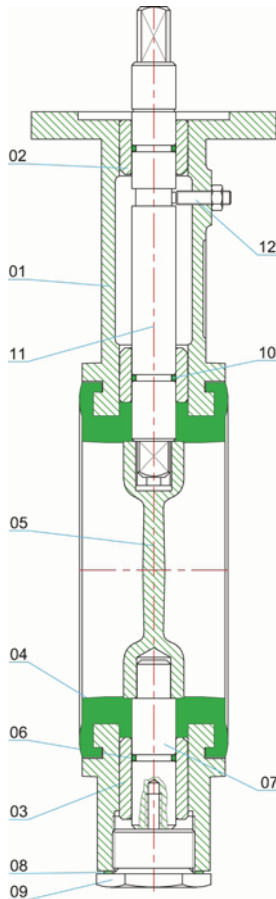
Application:
These valves are suitable to use in exploration industries, oil and gas fields, offshore and ship industries and all other industries those are related with sea water. Specially, these types of valves are suitable for sea water application and processes.

Hydrostatic test Pressure (bar) according to DIN EN 12266-1	
Nominal Pressure PN (bar)	Test Pressure, with water, (bar)
	Seat
6	6.6
10	11
16	17.6



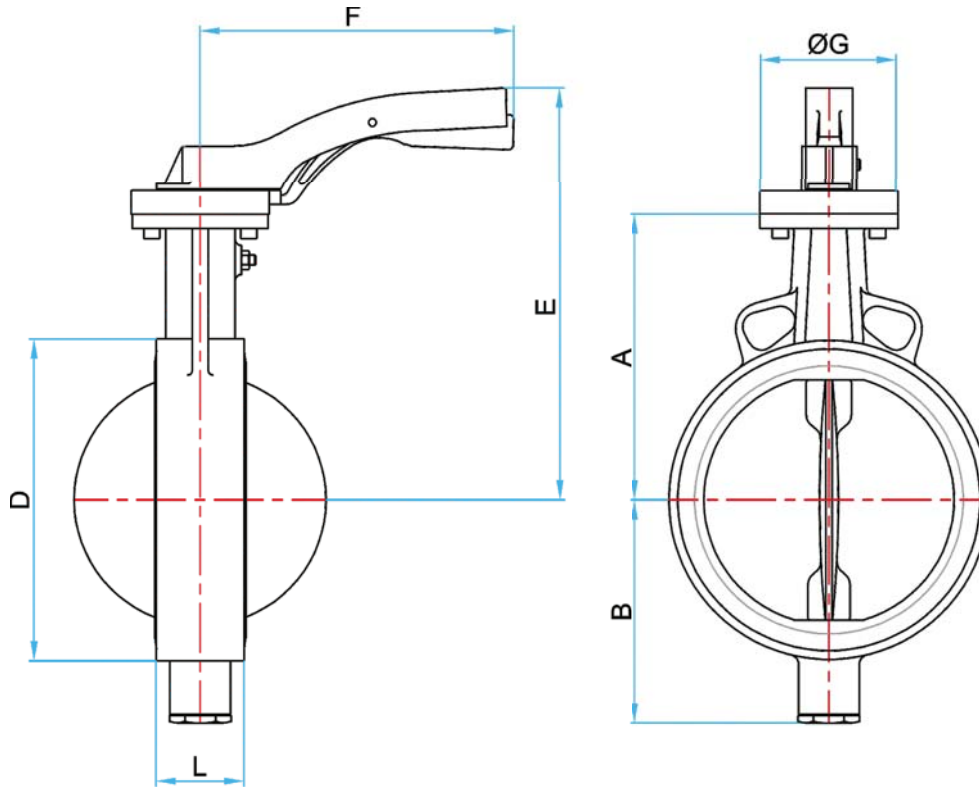


Centric wafer type butterfly valve (BVS3)
(DN 50 up to DN600):



Part	Description	Material	Spare parts
1	Body	Ni-Al-Bz (C95800)	
2	Upper Bush	Ni-Al-Bz (C95800)	
3	Lower bush	Ni-Al-Bz (C95800)	
4	Liner	EPDM	●
5	Disc	Ni-Al-Bz (C95800)	
6	Shaft seal (O-Ring)	EPDM	●
7	Short shaft	Ni-Cu (Monel k-500)	
8	Cap washer	CU	
9	Body cap	Ni-Al-Bz (C95800)	
10	Shaft seal (O-Ring)	EPDM	●
11	Long shaft	Ni-Cu (Monel k-500)	
12	Set screw & Nut	Ni-Cu (Monel k-500)	●

Wafer type valve with handle lever actuator (BVS3-----HL):

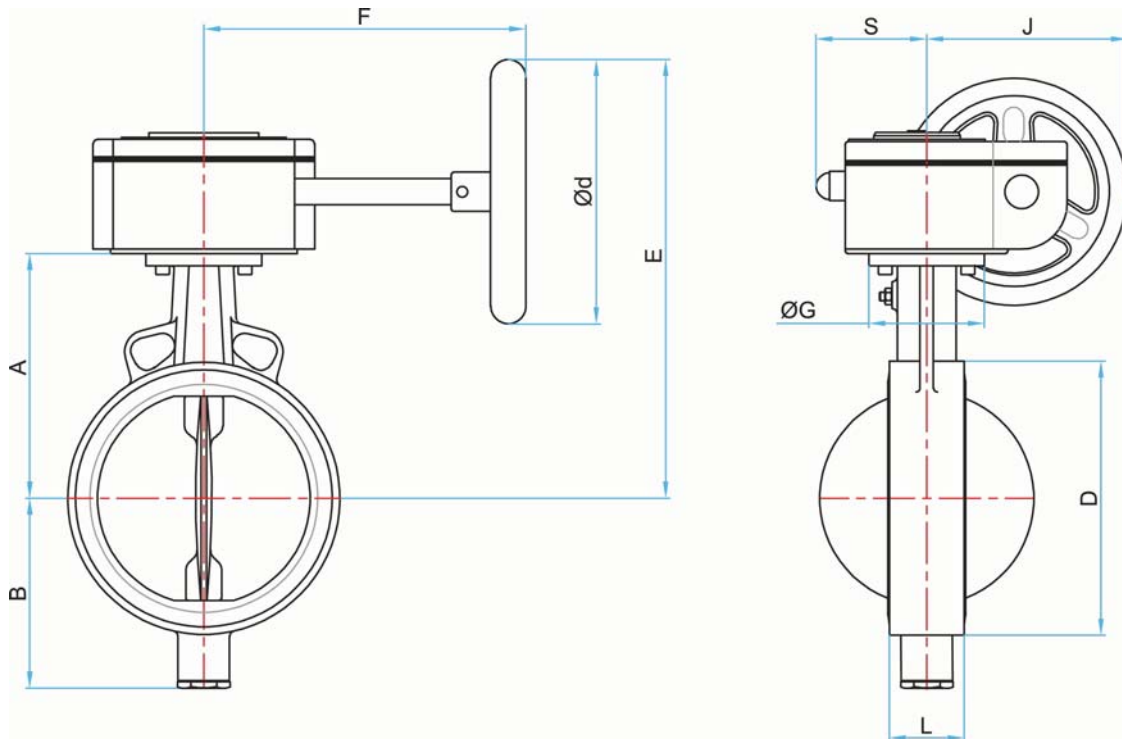


DN mm	L (1) mm	A mm	B mm	D mm	E mm	F mm	ØG (2) mm	Flange	Wgt. Kg
50	43	126	82	95	200	175	65	F05	3
65	46	136	92	116	210	175	65	F05	3.8
80	46	159	104	130	249	198	90	F07	5
100	52	167	113	151	248	198	90	F07	6.1
125	56	181	127	181	272	198	90	F07	8
150	56	203	152	205	309	281	90	F07	10
200	60	228	176	250	332	281	90	F07	13.3

(1) L = valve length according to ISO 5752 series 20 or EN 558 series 20 standard.

(2) G = flange dimensions according to ISO 5211 standard.

Wafer type with gearbox and hand wheel (BVS3-----HW.MB)

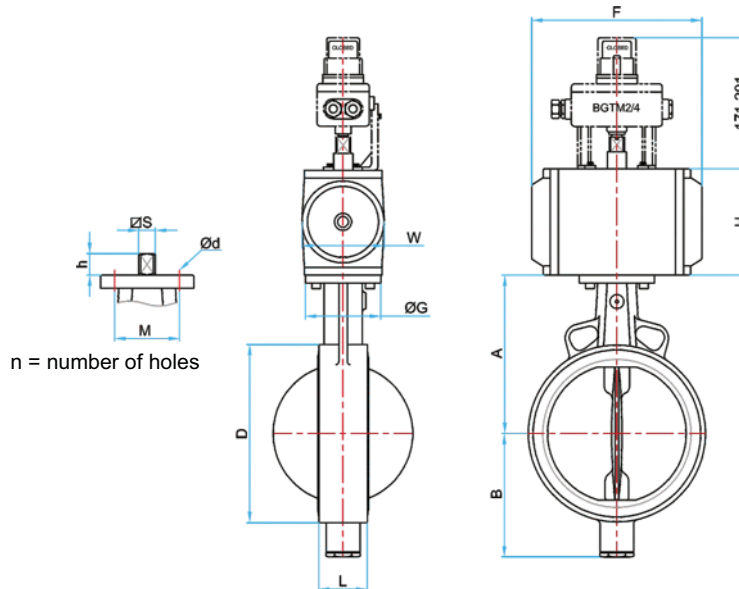


DN mm	PN bar	L (1) mm	A mm	B mm	D mm	E mm	F mm	ØG (2) mm	J mm	Ød mm	S mm	Wgt. Kg
50	6-10-16	43	126	82	95	202	114	65	93	100	45	3.9
65	6-10-16	46	136	92	116	212	114	65	93	100	45	4.6
80	6-10-16	46	159	104	130	235	114	90	93	100	45	5.8
100	6-10-16	52	167	113	151	243	114	90	113	125	55	8
125	6-10-16	56	181	127	181	257	114	90	113	125	55	10
150	6-10-16	56	203	152	205	341	155	90	160	200	80	13.5
200	6-10-16	60	228	176	250	366	155	90	160	200	80	16.8
250	6-10-16	68	266	214	318	406	212	125	180	200	91	33
300	6-10-16	78	293	239	358	433	212	125	180	200	91	35.5
350	6-10-16	78	332	273	409	487	251	150	170	200	94	137
400	6-10-16	102	364	318	472	565	219	180	205	250	107	182
500	6-10	127	437	377	574	723	346	216	265	360	125	260
500	16	127	437	405	574	723	396	216	290	360	214	281
600	6-10-16	154	498	440	675	784	396	216	290	360	198	316

(1) L = valve length according to ISO 5752 series 20 or EN 558 series 20 standard.

(2) G = flange dimensions according to ISO 5211 standard.

Wafer type with pneumatic actuator (BVS3-----PN)



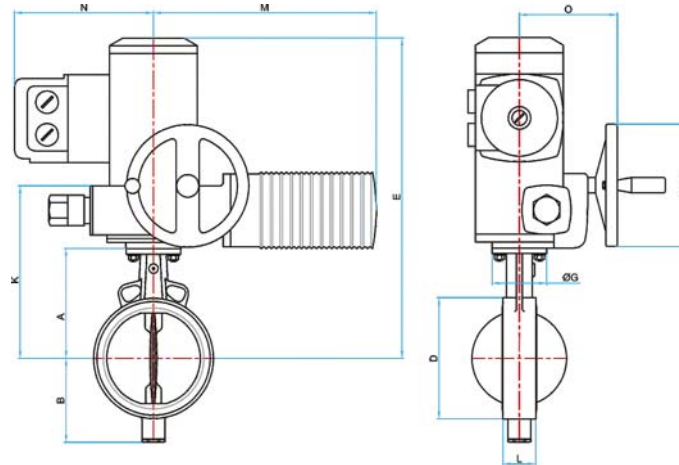
	DN	L (1)	A	B	Ød×n	D	F	ØG (2)	h	H	M	S	W	Wgt.(Kg)	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	without actuator	with actuator
PN 06	50	43	126	82	7×4	95	132	65	15	74	50	14	68.5	2.9	3.8
	65	46	136	92	7×4	116	132	65	16	74	50	14	68.5	3.6	4.6
	80	46	159	104	7×4	130	132	65	27	74	50	14	68.5	4.6	5.6
	100	52	167	113	7×4	151	132	65	14	74	50	14	68.5	5.8	6.8
	125	56	181	127	7×4	181	137	65	14	88	50	14	70	7.6	9.1
	150	56	203	152	9×4	205	161	90	17	100	70	17	83	9.5	11.8
	200	60	228	176	9×4	250	209	90	17	117	70	17	100	12.9	16.4
	250	68	266	213	9×4	318	292	90	22	140	70	17	120	25.3	33
	300	78	293	338	11×4	358	298	125	22	160	102	22	137	28.1	37.5
	350	78	332	274	13×4	409	420	150	23	255	125	27	224	48.2	63.6
	400	102	364	318	17×4	472	462	180	35	255	140	36	274	75.5	105
	500	127	473	405	17×4	574	603	180	35	302	140	36	272	115.0	149
PN 10	600	154	498	469	21×4	675	683	216	58	360	165	46	360	183.4	242
	50	43	126	82	7×4	95	132	65	15	74	50	14	59	2.9	3.8
	65	46	136	92	7×4	116	132	65	16	74	50	14	59	3.6	4.6
	80	46	159	104	7×4	130	132	65	14	74	50	14	59	4.6	5.6
	100	52	167	113	9×4	151	161	90	17	100	70	17	83	5.8	8.0
	125	56	181	127	9×4	181	161	90	17	100	70	17	83	7.6	9.8
	150	56	203	152	9×4	205	222	90	21	140	70	17	120	9.5	13.1
	200	60	228	176	9×4	250	292	90	21	140	70	17	120	12.9	20.5
	250	68	266	213	11×4	318	292	90	21	140	70	17	120	25.3	35
	300	78	293	338	11×4	358	298	125	21	160	102	22	137	28.1	37.6
	350	78	332	274	21×4	409	420	180	35	255	140	36	224	48.2	78
	400	102	364	318	21×4	472	462	180	35	302	140	36	272	75.5	106
PN 16	500	127	473	405	21×4	574	603	216	41	360	165	46	360	115.0	188
	600	154	498	469	21×4	675	683	216	58	360	165	55	360	183.4	280
	50	43	126	82	7×4	95	132	65	14	74	50	14	59	2.9	3.8
	65	46	136	92	7×4	116	132	65	14	74	50	14	59	3.6	4.6
	80	46	159	104	7×4	130	137	65	14	88	50	14	70	4.6	6.1
	100	52	167	113	9×4	151	161	90	17	100	70	17	83	5.8	8.1
	125	56	181	127	9×4	181	180	90	17	108	70	17	91	7.6	10.3
	150	56	203	152	9×4	205	222	90	21	140	70	17	120	9.5	15.1
	200	60	228	176	9×4	250	292	90	21	140	70	147	120	12.9	20.5
	250	68	266	213	11×4	318	298	125	21	160	102	22	137	25.3	35
	300	78	293	338	11×4	358	337	125	23	198	102	27	172	28.1	43
	350	78	332	274	21×4	409	462	180	35	255	140	36	224	48.2	84
	400	102	364	318	21×4	472	603	180	35	302	140	36	272	75.5	120
	500	127	473	405	21×4	574	683	216	58	360	165	55	360	115.0	212

(1) L = valve length according to ISO 5752 series 20 or EN 558 series 20 standard.

(2) G = flange dimensions according to ISO 5211 standard.

Note: a) above mentioned dimensions are for pressure of 6 bar. For more information refer to the catalogue on pneumatic actuators.

b) For size DN 600 with PN 16 bar, the actuator would be offered with air pressure amplifier.

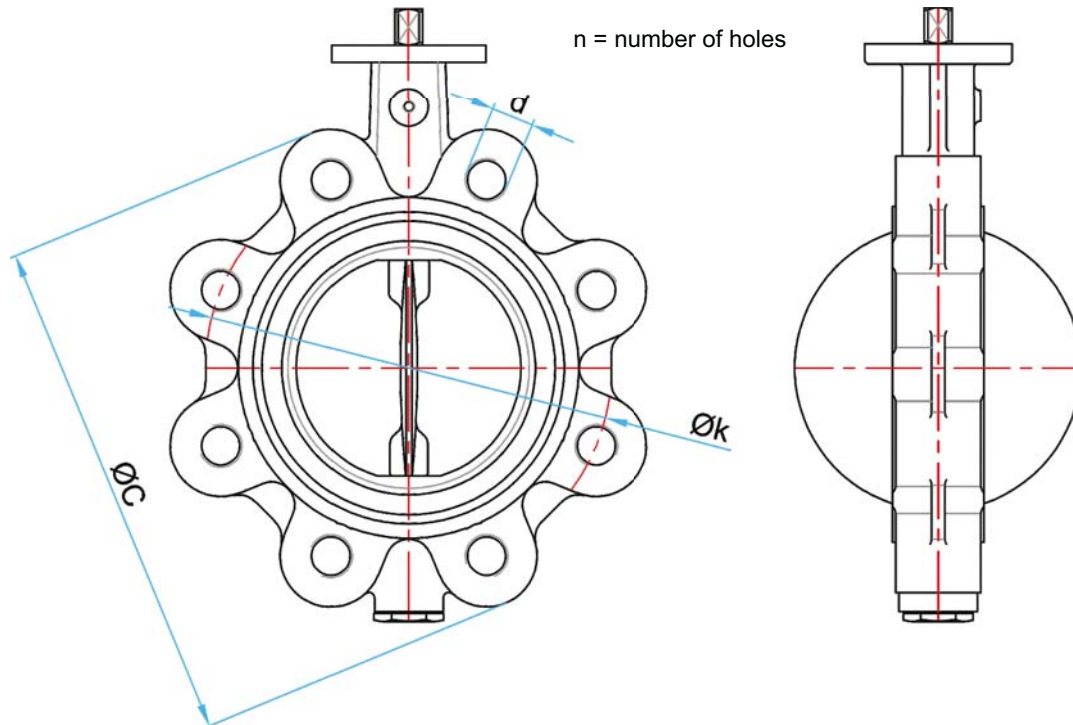
Wafer type with electric actuator (BVS3-----EL)


	DN mm	L (1) mm	A mm	B mm	D mm	ØG (2) mm	E mm	K mm	M mm	N mm	O mm	Type actuator	Wgt. Kg
PN 10	50	43	126	82	95	65	333	195	215	195	119	SG	11.7
	65	46	136	92	116	65	343	205	215	195	119	SG	12.4
	80	46	159	104	130	65	364	228	215	195	119	SG	13.5
	100	52	167	113	151	90	374	236	215	195	119	SG	14.7
	125	56	181	127	181	90	388	250	215	195	119	SG	16.5
	150	56	203	152	205	90	478	285	291	195	119	SG	19
	200	60	228	176	250	90	503	310	291	195	128	SG	23.5
	250	68	266	214	318	90	559	354	300	205	128	SG	25
	300	78	293	239	358	125	584	381	300	205	153	SG	54
	350	78	332	274	409	180	645	434	300	205	170	SG	79
	400	102	364	318	472	180	664	566	300	205	170	SG	106
	500	127	437	405	574	216	★	★	★	★	★	SA	★
	600	154	498	469	675	216	★	★	★	★	★	SA	★
PN 16	50	43	126	82	95	65	333	195	215	195	119	SG	11.7
	65	46	136	92	116	65	343	205	215	195	119	SG	12.4
	80	46	159	104	130	65	364	226	215	195	119	SG	13.5
	100	52	167	113	151	90	374	236	215	195	119	SG	14.7
	125	56	181	127	181	90	388	250	215	195	128	SG	16.5
	150	56	203	152	205	90	478	285	291	195	128	SG	19
	200	60	228	176	250	90	503	310	291	195	128	SG	23.5
	250	68	266	213	318	125	559	354	300	205	153	SG	26
	300	78	293	239	358	125	584	381	300	205	153	SG	55
	350	78	332	274	409	180	623	434	300	205	170	SG	80
	400	102	364	318	472	180	676	566	300	205	170	SG	108
	500	127	437	405	574	216	★	★	★	★	★	SA	★
	600	154	498	469	675	216	★	★	★	★	★	SA	★

(1) L = valve length according to ISO 5752 series 20 or EN 558 series 20 standard.

(2) G = flange dimensions according to ISO 5211 standard.

Lug type butterfly valve - end of the line (BVSL-....)

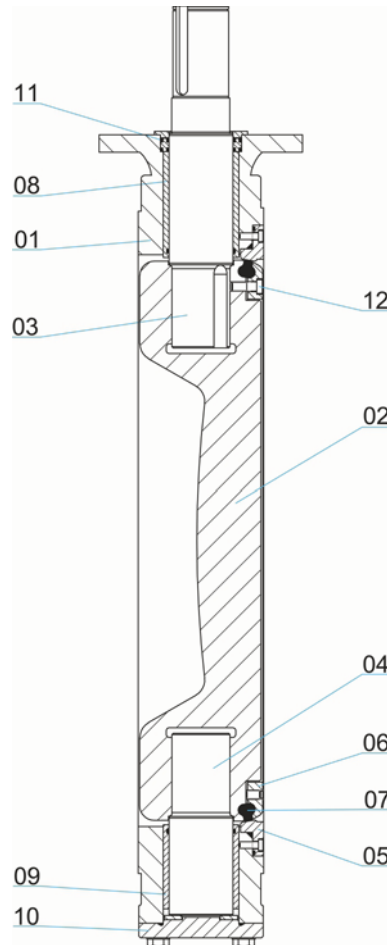


DN		PN 06			PN 10			PN 16			Wgt.
mm	$\varnothing C$	$\varnothing k$	d	n	$\varnothing k$	d	n	$\varnothing k$	d	n	Kg
50	165	110	M12	4	125	M16	4	125	M16	4	5
65	185	130	M12	4	145	M16	4	145	M16	4	6
80	200	150	M16	4	160	M16	8	160	M16	8	9.7
100	225	170	M16	4	180	M16	8	180	M16	8	10.5
125	250	200	M16	8	210	M16	8	210	M16	8	11
150	285	225	M16	8	240	M20	8	240	M20	8	14
200	340	280	M16	8	295	M20	12	295	M20	12	20
250	400	335	M16	12	350	M20	12	355	M24	12	35
300	455	395	M20	12	400	M20	12	410	M24	12	43
350	520	445	M20	12	460	M20	16	470	M24	16	64
400	580	495	M20	16	515	M24	16	525	M27	16	93
500	715	600	M20	20	620	M24	20	650	M30	20	151
600	840	705	M24	20	725	M27	20	770	M33	20	285

Note: 1- Flange dimensions are according to DIN EN 1092-1 standard.
2- All other dimensions are the same as those of wafer type valves.
3- Different types of actuators are possible.

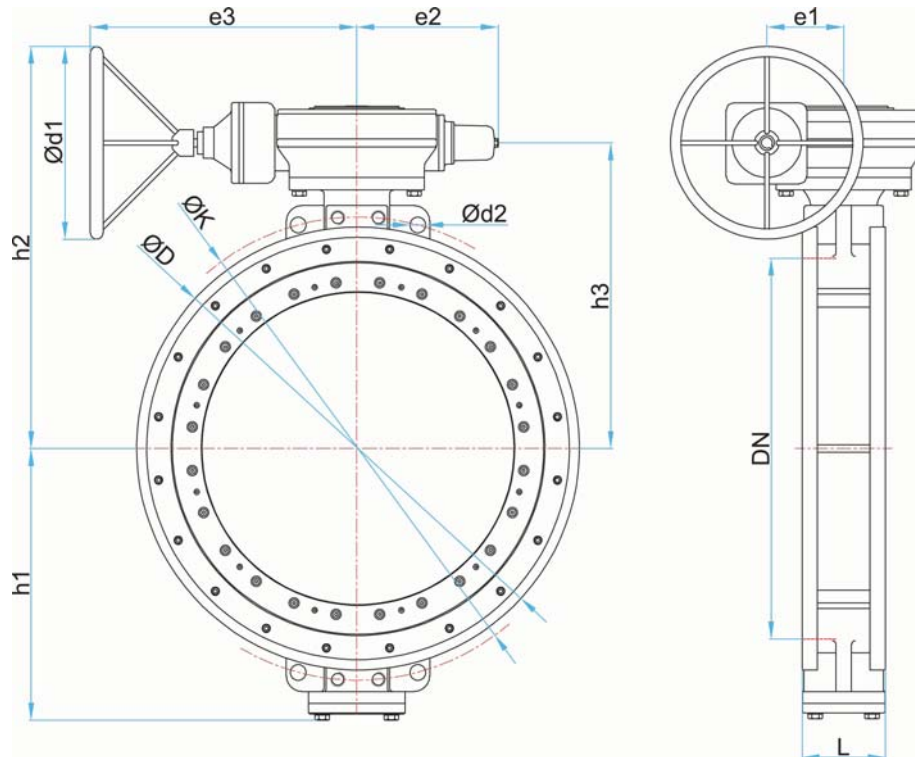


Eccentric wafer type butterfly valve- DN 500 up to Dn1200 (BVSE):



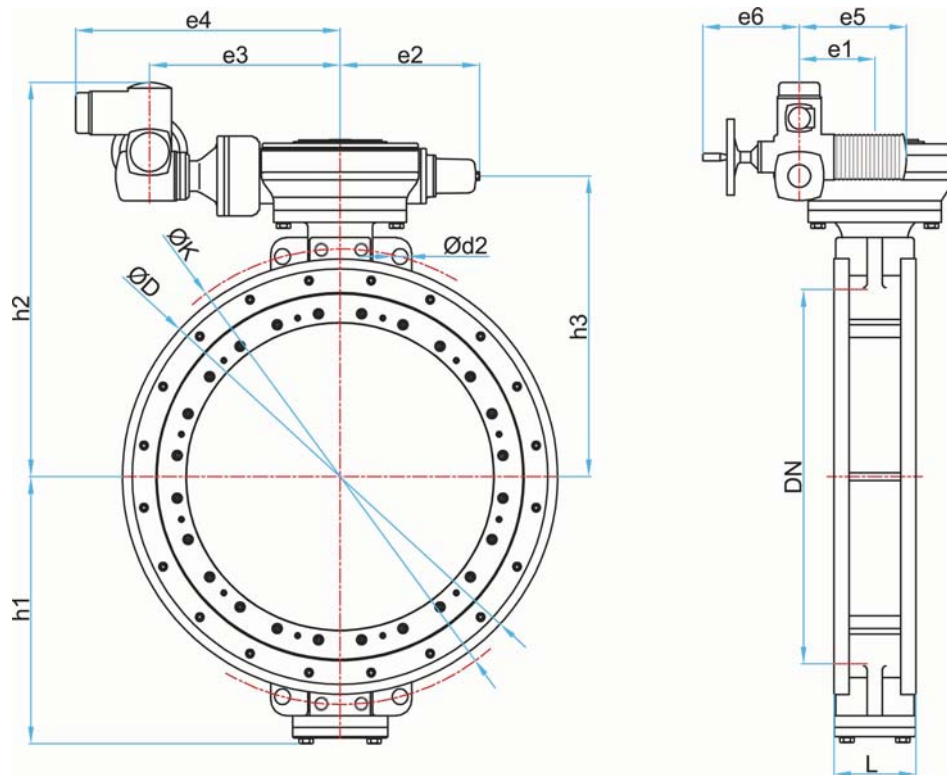
Part	Description	Material	Spare parts
1	Body	Ni-Al-Bz (C95800)	
2	Disk	Ni-Al-Bz (C95800)	
3	Long shaft	Ni-Cu (Monel k-500)	
4	Short shaft	Ni-Cu (Monel k-500)	
5	Seal Ring	Ni-Al-Bz (C95800)	
6	Disk Clamp	Ni-Al-Bz (C95800)	
7	Seat	NBR	●
8	Upper Bush	Al.Bz	
9	Lower bush	Al.Bz	
10	Body plug	Ni-Al-Bz (C95800)	
11	O-Ring	NBR	●
12	bolt	Ni-Cu (Monel k-500)	

Eccentric wafer type with hand wheel and Auma Gearbox (BVSE-----HW.AU):



	DN	ØL	ØD	ØK	Ød2	e1	e2	e3	e4	e5	e6	h1	h2	h3
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
PN 6	500	127	603	600	23	100	187	337	532	265	249	420	772	535
	600	154	714	705	28	100	187	337	532	265	249	503	825	588
	700	165	824	810	28	125	192	344	539	282	254	557	953	706
	800	190	938	920	31	125	192	344	539	282	254	670	991	744
	900	203	1043	1020	31	160	290	420	615	282	254	687	1018	771
	1000	216	1148	1120	31	160	290	418	613	265	249	700	1012	775
	1200	254	1350	1340	34	200	370	505	700	282	254	900	1322	1085
PN 10	500	127	603	620	28	100	187	337	532	265	249	420	772	535
	600	154	714	725	31	100	187	337	532	265	249	503	825	588
	700	165	824	840	31	125	192	344	539	282	254	557	953	706
	800	190	938	950	34	125	192	344	539	282	254	670	991	744
	900	203	1043	1050	34	160	290	420	615	282	254	687	1018	771
	1000	216	1148	1160	37	200	370	505	700	282	254	700	1037	790
	1200	254	1350	1380	41	200	370	550	745	282	254	900	1332	1085
PN 16	500	127	603	650	34	100	187	337	532	265	249	420	772	535
	600	154	714	770	37	125	192	344	539	282	254	503	835	588
	700	165	824	840	37	125	192	420	615	282	254	557	953	706
	800	190	938	950	41	160	290	420	615	282	254	670	991	744
	900	203	1043	1050	41	200	370	550	745	282	254	687	1108	856
	1000	216	1148	1170	44	200	370	550	745	282	254	700	1037	790
	1200	254	1350	1390	50	250	402	635	840	384	329	900	1529	1244

Eccentric wafer type with Electric actuator and Auma Gearbox (BVSE-----EL.AU):



	DN	ØL	ØD	ØK	Ød2	Ød1	e1	e2	e3	h1	h2	h3
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
PN 6	500	127	603	600	23	500	100	187	465	420	885	535
	600	154	714	705	28	500	100	187	465	503	838	588
	700	165	824	810	28	400	125	192	470	557	906	706
	800	190	938	920	31	400	125	192	470	670	944	744
	900	203	1043	1020	31	400	160	290	580	687	971	771
	1000	216	1148	1120	31	400	160	290	580	700	975	775
	1200	254	1350	1340	34	400	200	370	676	900	1285	1085
PN 10	500	127	603	620	28	500	100	187	465	420	785	535
	600	154	714	725	31	500	100	187	465	503	838	588
	700	165	824	840	31	400	125	192	470	557	906	706
	800	190	938	950	34	400	125	192	470	670	944	744
	900	203	1043	1050	34	400	160	290	580	687	971	771
	1000	216	1148	1160	37	500	200	370	725	700	1040	790
	1200	254	1350	1380	41	400	200	370	676	900	1285	1085
PN 16	500	127	603	650	34	500	100	187	465	420	785	535
	600	154	714	770	37	400	125	192	470	503	788	588
	700	165	824	840	37	500	125	192	519	557	956	706
	800	190	938	950	41	400	160	290	546	670	944	744
	900	203	1043	1050	41	400	200	370	676	687	1056	856
	1000	216	1148	1170	44	500	200	370	725	700	1040	790
	1200	254	1350	1390	50	500	250	402	755	900	1494	1244

AB VALVES' PRODUCTS

Butterfly Valves Flange Type (BVF)
Butterfly Valves Wafer Type (BVW)
Butterfly Valves Wafer Type for Sea Water (BVS)
Gate Valves (GV)
Valves for Special Applications
Air Valves (AV)
Hydrants (HT)
Automatic Control Valves (RV)
Non-Return Valves (NV)
Strainers (STR)
Accessories
Actuators



AB VALVES GmbH

Borsigallee 16
D-60388 Frankfurt am Main
Germany

Tel: +49(0)69-941 758-0
Fax: +49(0)69-941 758-33
info@ab-valves.com
www.ab-valves.com