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Distributed by:



Butterfly Valves

Complete Solutions for Water Industry



NEWAY VALVE

Cat.no.: E-BV-2025

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“T” Concentric Butterfly Valve

Size: DN50-1800

Product description

Lining butterfly valves used for water treatment, water distribution, in dams, power plants and in industry

Design standards

- EN 1074 part 1 & 2, EN593, AWWA C504, API 609, UL1091

Pressure rating

- PN16
- PN10/25(option available)

Face-to-face dimension

- EN 558, AWWA C504, API 609

Flange drilling

- EN1092-2 PN10/16/PN25, ASME B 16.1/16.42 CL125/CL150, AWWA C207, ASME B16.5, ASME B16.47
- End type: Lug, Wafer, Double Flange

Test

- EN 12266, API 598
- Seat: 1.1 x PN (in bar), Body: 1.5 x PN (in bar)

Approvals

- WRAS
- UL

Features

- Replaceable seat
- Centric disk, mounted in three maintenance-free bearing bushes
- Triple shaft bearing
- Anti-blow-out shaft design with an anti blow-out plate at the top
- With double-stem and no pin to resist to leak
- Vacuum tight up to 0.1 bar absolute
- Tight in both flow directions
- Fusion bonded epoxy coating inside and outside

Accessories

- Extension spindle

Operator Options

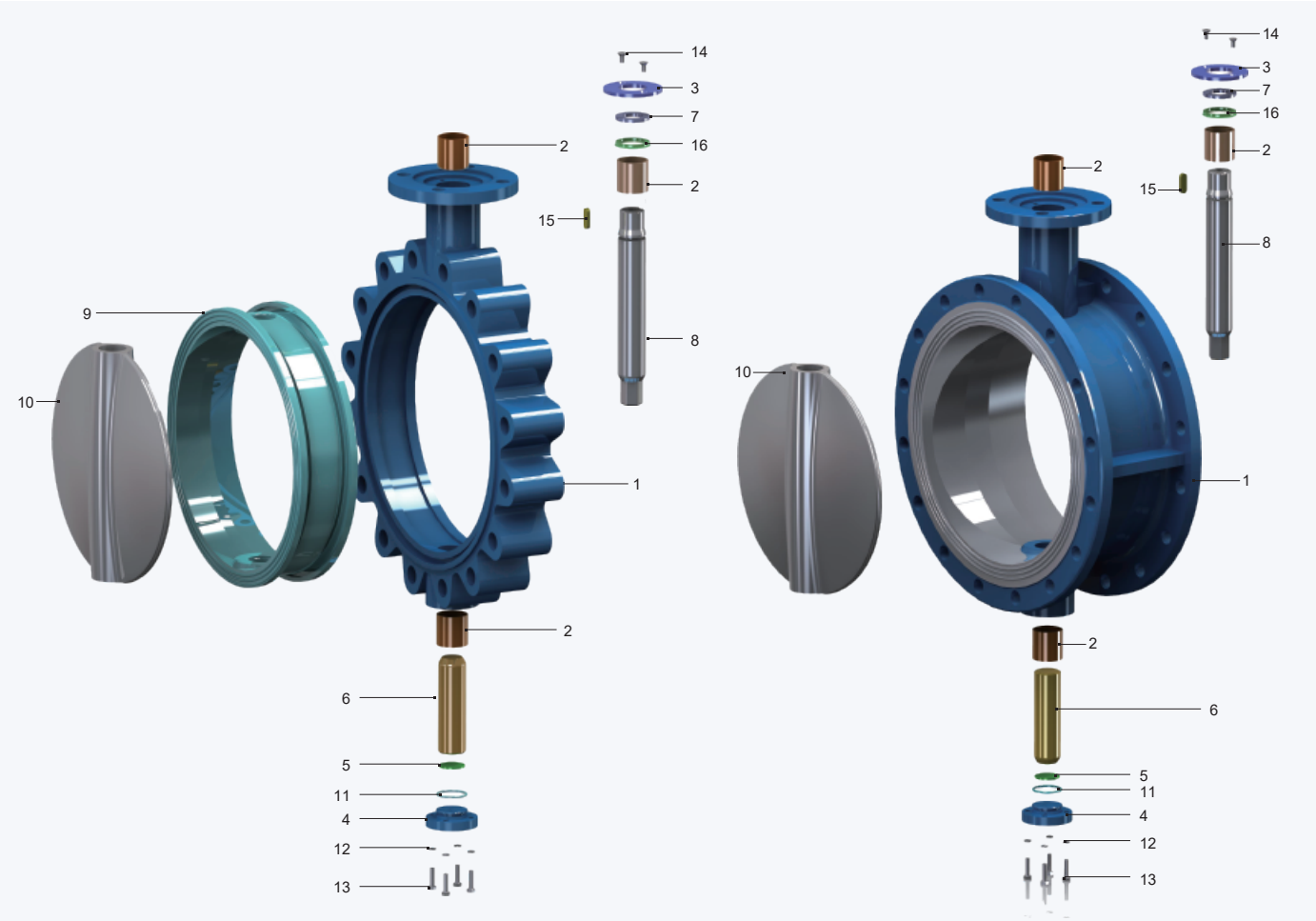
- Gear box
- Pneumatic actuator
- Electric actuator
- Hydraulic actuator

Main application

- Water supply systems
- Desalination & wastewater treatment plants
- Installation in plants
- Underground installation



“T” Concentric Butterfly Valve

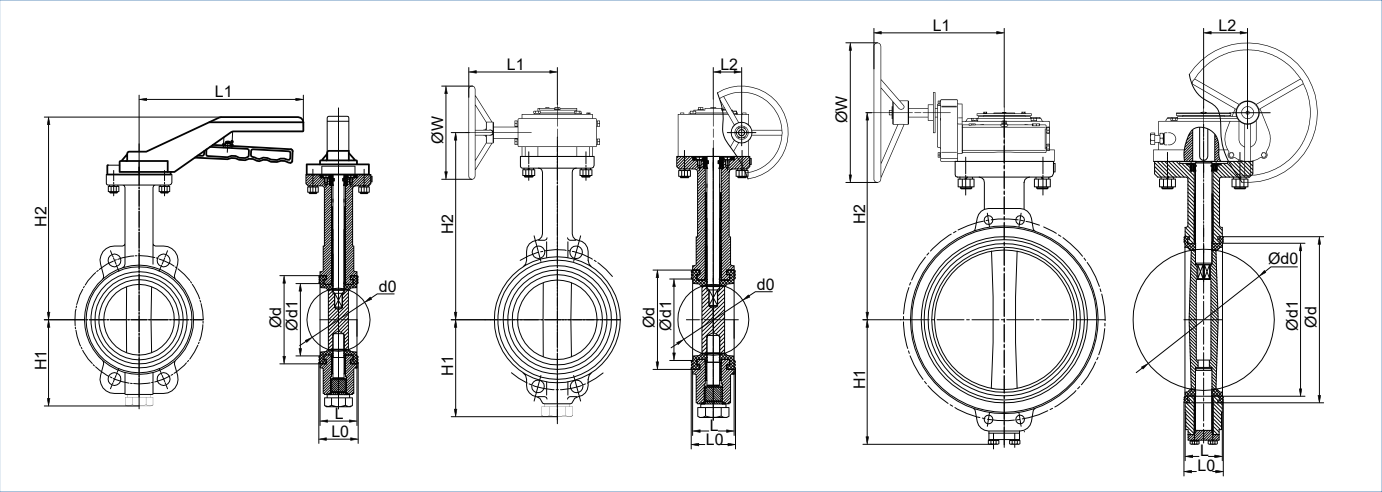


Part List						
Item	Part Name	Material-1	Material-2	Material-3	Material-4	Material-5
1	Body	DUCTILE IRON	CARBON STEEL	STAINLESS STEEL	SUPER DUPLEX STEEL	AL BRONZE
2	Bearing	PPS+Glass Fiber	PPS+Glass Fiber	PPS+Glass Fiber	PPS+Glass Fiber	BRASS
3	Limit Plate	ASTM A283 GRD	ASTM A283 GRD	316SS	316SS	316SS
4	Down Flange*	DUCTILE IRON	CARBON STEEL	STAINLESS STEEL	316SS	AL BRONZE
5	Thrust Washer	304SS	304SS	316SS	316SS	316SS
6	Hub Shaft	ASTM A276 420	ASTM A479 431	ASTM A479 431	SUPER DUPLEX STEEL	MNL K500
7	Retainer Ring	ASTM A276 420	ASTM A276 420	ASTM A276 420	316SS	316SS
8	Stem	ASTM A276 420	ASTM A479 431	ASTM A479 431	SUPER DUPLEX STEEL	316SS
9	Seat	EPDM/NBR/VITON PTFE	EPDM/NBR/VITON PTFE	EPDM/NBR/VITON PTFE	EPDM/NBR/VITON PTFE	EPDM/NBR/VITON PTFE
10	Disc	DUCTILE IRON STAINLESS STEEL SUPER DUPLEX STEEL AL BRONZE	STAINLESS STEEL SUPER DUPLEX STEEL AL BRONZE	STAINLESS STEEL SUPER DUPLEX STEEL AL BRONZE	SUPER DUPLEX STEEL	AL BRONZE
11	O Ring	NBR	NBR	NBR	NBR	NBR
12	Washers	304SS	304SS	316SS	316SS	316SS
13	Bolts	ISO 3506 A2-70	ISO 3506 A2-70	316SS	316SS	316SS
14	Screw	ISO 3506 A2-70	ISO 3506 A2-70	316SS	316SS	316SS
15	Key	AISI 1045	AISI 1045	ASTM A705 630	ASTM A705 630	ASTM A705 630
16	O Ring	NBR	NBR	NBR	NBR	NBR

NOTE:* can be different depend on the specific design

“T” Concentric Butterfly Valve

Wafer Type

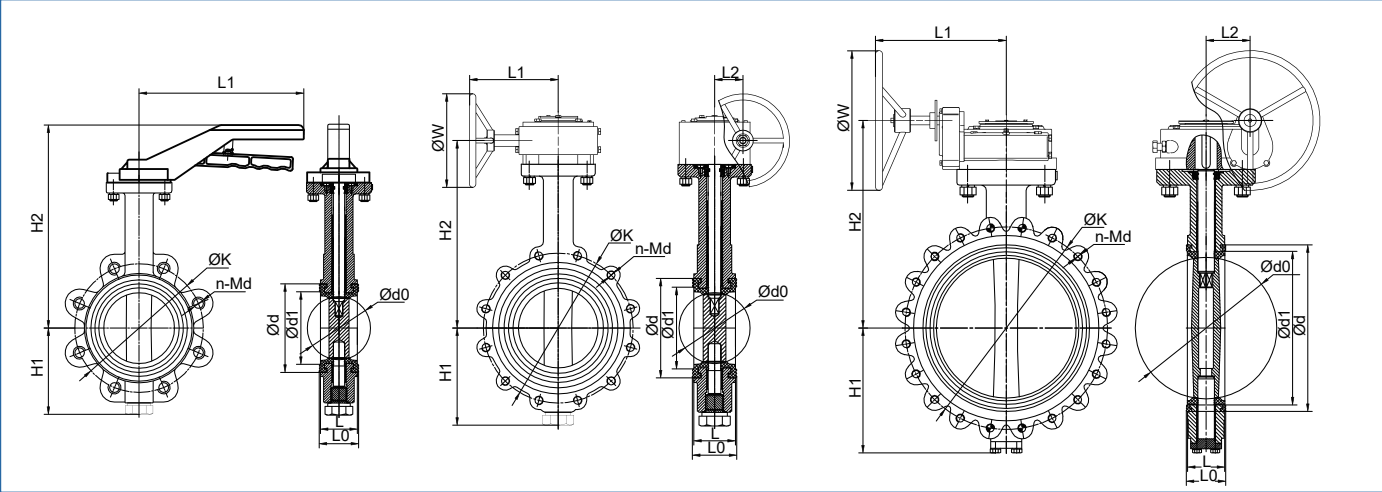


DN	L	L0	d	d0	d1	H2 (gear/lever)	H1	L1 (gear/lever)	L2	W
50	43	46	81	53	69	172/193	61	160/210	45	145
65	46	49	93	64.7	81	184/205	72	160/210	45	145
80	46	50	111	79.1	98	192/213	93	160/210	45	145
100	52	56	140	104.1	128	210/231	106	160/210	45	145
125	56	59	165	123.3	152	224/245	123	160/210	45	145
150	56	60	186	155.5	173	235/256	137	160/210	45	145
200	60	64	246	201.7	233	287	174	245	63	300
250	68	72	301	250.5	277	320	209	245	63	300
300	78	83	352	301.6	332	364	244	245	78	300
350	78	85	388	333.6	374	408	260	245	78	300
400	102	109	450	389.6	431	510	315	245	160	300
450	114	124	506	440.5	489	535	340	245	160	300
500	127	138	561	491.7	541	595	379	245	160	300
600	154	162	650	592.6	600	693	440	260	154	400
700	165	170	770	695	708	595	510	340	235	400
800	190	198	875	795.4	815	662	580	340	235	400
900	203	206.5	948.5	864.7	908.5	723	653	350	260	400
1000	216	220	1056.5	965	1010	798	723	350	260	400
1200	258	276	1288	1159	1175	1220	891	650	246.4	700
1400	279	289	1500	1383	1414	1303	941	650	246.4	700
1500	318	328	1580	1434.9	1466	1372	1080	705	279	800
1600	318	328	1755	1529.9	1583	1338	1046	714	154	800
1800	457	467	1915	1760.5	1800	1320	1210	837	380	800

NOTE:* Values are for reference only

“T” Concentric Butterfly Valve

Lug Type



DN	FLANGE STANDARD-EN1092-2-PN10											
	L	L0	d	d0	d1	K	n-Md	H1	H2 (gear/lever)	L1 (gear/lever)	L2	W
50	43	46	81	53	69	125	4-M16	62	172/193	160/210	45	145
65	46	49	93	64.7	81	145	4-M16	72	184/205	160/210	45	145
80	46	50	111	79.1	98	160	8-M16	95	192/213	160/210	45	145
100	52	56	140	104.1	128	180	8-M16	106	209/230	160/210	45	145
125	56	59	165	123.3	152	210	8-M16	123	224/245	160/210	45	145
150	56	60	186	155.5	173	240	8-M20	138	235/256	160/210	45	145
200	60	64	246	201.7	233	295	8-M20	173	287	245	63	300
250	68	72	301	250.5	277	350	12-M20	207	320	245	63	300
300	78	83	352	301.6	332	400	12-M20	235	364	245	78	300
350	78	85	388	333.6	374	460	16-M20	267	408	245	78	300
400	102	109	450	389.6	431	515	16-M24	312	510	245	160	300
450	114	124	506	440.5	489	565	20-M24	330	535	245	160	300
500	127	138	561	491.7	541	620	20-M24	363	595	245	160	300
600	154	162	650	592.6	600	725	20-M27	440	693	260	154	400
700	165	170	770	695	708	840	24-M27	510	560	340	235	400
800	190	198	875	795.4	815	950	24-M30	585	635	340	235	400
900	203	206.5	948.5	864.7	908.5	1050	28-M30	635	720	350	260	400
1000	216	220	1056.5	965	1010	1160	28-M33	705	820	350	260	400
1200	258	276	1288	1159	1175	1380	32-M36	891	1220	650	246.4	700
1400	279	289	1500	1383	1414	1590	36-M39	941	1303	650	246.4	700
1500	318	328	1580	1434.9	1466	1700	36-M39	1080	1372	705	279	800
1600	318	328	1755	1529.9	1583	1820	40-M45	1046	1338	714	154	800
1800	457	467	1915	1760.5	1800	2020	44-M45	1210	1320	837	380	800
NOTE:* Values are for reference only												

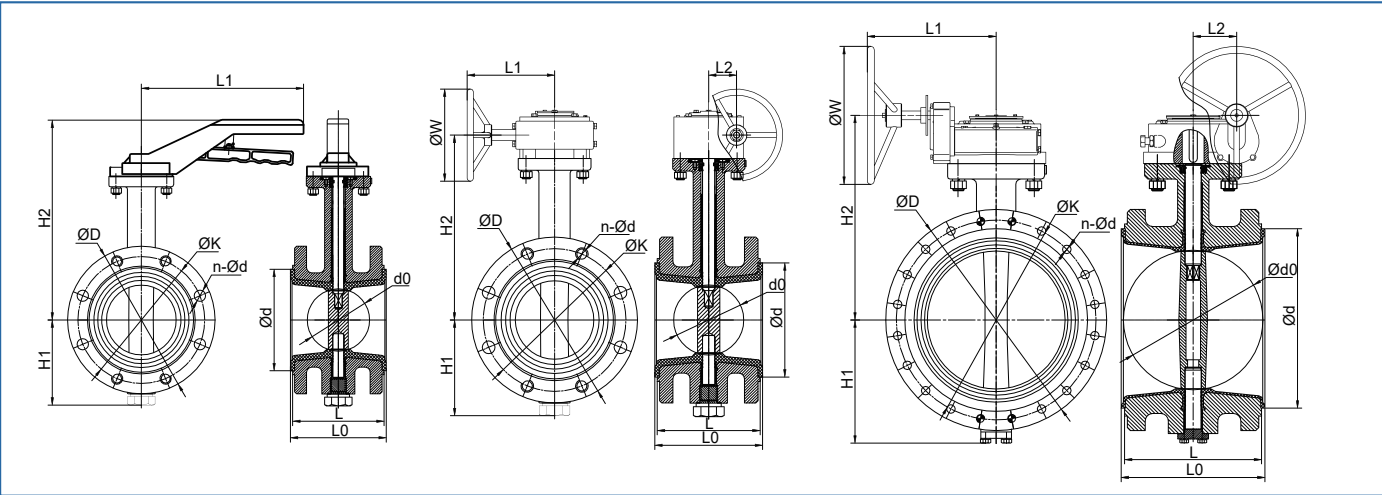
“T” Concentric Butterfly Valve

DN	FLANGE STANDARD-EN1092-2-PN16											
	L	L0	d	d0	d1	K	n-Md	H1	H2 (gear/lever)	L1 (gear/lever)	L2	W
50	43	46	81	53	69	125	4-M16	62	172/193	160/210	45	145
65	46	49	93	64.7	81	145	4-M16	72	184/205	160/210	45	145
80	46	50	111	79.1	98	160	8-M16	95	192/213	160/210	45	145
100	52	56	140	104.1	128	180	8-M16	106	209/230	160/210	45	145
125	56	59	165	123.3	152	210	8-M16	123	224/245	160/210	45	145
150	56	60	186	155.5	173	240	8-M20	138	235/256	160/210	45	145
200	60	64	246	201.7	233	295	12-M20	173	287	245	63	300
250	68	72	301	250.5	277	355	12-M24	207	320	245	63	300
300	78	83	352	301.6	332	410	12-M24	235	364	245	78	300
350	78	85	388	333.6	374	470	16-M24	267	408	245	78	300
400	102	109	450	389.6	431	525	16-M27	312	510	245	160	300
450	114	124	506	440.5	489	585	20-M27	330	535	245	160	300
500	127	138	561	491.7	541	650	20-M30	363	595	245	160	300
600	154	162	650	592.6	600	770	20-M33	440	693	260	154	400
700	165	170	770	695	708	840	24-M33	510	560	340	235	400
800	190	198	875	795.4	815	950	24-M36	585	635	340	235	400
900	203	206.5	948.5	864.7	908.5	1050	28-M36	635	720	350	260	400
1000	216	220	1056.5	965	1010	1170	28-M39	705	820	350	260	400
1200	258	276	1288	1159	1175	1390	32-M45	891	1220	650	246.4	700
1400	279	289	1500	1383	1414	1590	36-M45	941	1303	650	246.4	700
1500	318	328	1580	1434.9	1466	1710	36-M52	1080	1372	705	279	800
1600	318	328	1755	1529.9	1583	1820	40-M52	1046	1338	714	154	800
1800	457	467	1915	1760.5	1800	2020	44-M52	1210	1320	837	380	800

DN	FLANGE STANDARD-EN1092-2-PN25											
	L	L0	d	d0	d1	K	n-Md	H1	H2 (gear/lever)	L1 (gear/lever)	L2	W
50	43	46	81	53	69	125	4-M16	62	172/193	160/210	45	145
65	46	49	93	64.7	81	145	8-M16	72	184/205	160/210	45	145
80	46	50	111	79.1	98	160	8-M16	95	192/213	160/210	45	145
100	52	56	140	104.1	128	190	8-M20	106	209/230	160/210	45	145
125	56	59	165	123.3	152	220	8-M24	123	224/245	160/210	45	145
150	56	60	186	155.5	173	250	8-M24	138	235/256	160/210	45	145
200	60	64	246	201.7	233	310	12-M24	173	287	245	63	300
250	68	72	301	250.5	277	370	12-M27	207	320	245	63	300
300	78	83	352	301.6	332	430	16-M27	235	364	245	78	300
350	78	85	388	333.6	374	490	16-M30	267	408	245	78	300
400	102	109	450	389.6	431	550	16-M33	312	510	245	160	300
450	114	124	506	440.5	489	600	20-M33	330	535	245	160	300
500	127	138	561	491.7	541	660	20-M33	363	595	245	160	300
600	154	162	650	592.6	600	770	20-M36	440	693	260	154	400
700	165	170	770	695	708	875	24-M39	510	560	340	235	400
800	190	198	875	795.4	815	990	24-M45	585	635	340	235	400
900	203	206.5	948.5	864.7	908.5	1090	28-M45	635	720	350	260	400
1000	216	220	1056.5	965	1010	1210	28-M52	705	820	350	260	400
1200	258	276	1288	1159	1175	1420	32-M52	891	1220	650	246.4	700
1400	279	289	1500	1383	1414	1640	36-M56	941	1303	650	246.4	700
1500	318	328	1580	1434.9	1466	1750	36-M56	1080	1372	705	279	800
1600	318	328	1755	1529.9	1583	1860	40-M56	1046	1338	714	154	800
1800	457	467	1915	1760.5	1800	2070	44-M64	1210	1320	837	380	800

DN	FLANGE STANDARD-ASME B16.1 CL125/B16.47 CL150/B16.5 CL150											
	L	L0	d	d0	d1	K	n-Md	H1	H2 (gear/lever)	L1 (gear/lever)	L2	W
50	43	46	81	53	69	120.7	4-5/8	62	172/193	160/210	45	145
65	46	49	93	64.7	81	139.7	4-5/8	72	184/205	160/210	45	145
80	46	50	111	79.1	98	152.4	4-5/8	95	192/213	160/210	45	145
100	52	56	140	104.1	128	190.5	8-5/8	106	209/230	160/210	45	145
125	56	59	165	123.3	152	215.9	8-3/4	123	224/245	160/210	45	145
150	56	60	186	155.5	173	241.3	8-3/4	138	235/256	160/210	45	145
200	60	64	246	201.7	233	298.4	8-3/4	173	287	245	63	300
250	68	72	301	250.5	277	362	12-7/8	207	320	245	63	300
300	78	83	352	301.6	332	431.8	12-7/8	235	364	245	78	300
350	78	85	388	333.6	374	476.2	12-1	267	408	245	78	300
400	102	109	450	389.6	431	539.8	16-1	312	510	245	160	300
450	114	124	506	440.5	489	577.8	16-1 1/8	330	535	245	160	300
500	127	138	561	491.7	541	635	20-1 1/8	363	595	245	160	300
600	154	162	650	592.6	600	749.3	20-1 1/4	440	693	260	154	400
700	165	170	770	695	708	863.6	28-1 1/4	510	560	340	235	400
800	190	198	875	795.4	815	977.9	28-1 1/2	585	635	340	235	400
900	203	206.5	948.5	864.7	908.5	1085.8	32-1 1/2	635	720	350	260	400
1000	216	220	1056.5	965	1010	1200.2	36-1 1/2	705	820	350	260	400
1200	258	276	1288	1159	1175	1422.4	44-1 1/2	891	1220	650	246.4	700
1400	279	289	1500	1383	1414	1651	48-1 3/4	941	1303	650	246.4	700
1500	318	328	1580	1434.9	1466	1759	52-1 3/4	1080	1372	705	279	800
NOTE:* Values are for reference only												

Double Flange Type



DN	FLANGE STANDARD-EN1092-2-PN10											
	L	L0	d	d0	D	K	n-ød	H1	H2 (gear/lever)	L1 (gear/lever)	L2	W
50	108	113	94	52.6	165	125	4-ø19	82	151/172	160/210	45	145
65	112	120	104	64.3	185	145	4-ø19	93	161/182	160/210	45	145
80	114	121	130	78.8	200	160	8-ø19	100	176/197	160/210	45	145
100	127	133	151	104	220	180	8-ø19	113	186/207	160/210	45	145
125	140	144	187	123.3	250	210	8-ø19	126	200/221	160/210	45	145
150	140	144	208	155.7	285	240	8-ø23	145	220/241	160/210	45	145
200	152	158	258	202.4	340	295	8-ø23	171	245	245	63	300
250	165	170	315	250.4	395	350	12-ø23	197	277	245	63	300
300	178	183	368	301.5	445	400	12-ø23	220	320	245	78	300
350	190	198	422	333.3	505	460	16-ø23	253	365	245	78	300
400	216	224	468	389.6	565	515	16-ø28	290	468	245	160	300
450	222	228	508	440.5	615	565	20-ø28	325	502	245	160	300
500	229	235	580	491.6	670	620	20-ø28	360	555	245	160	300
600	267	273	675	592.5	780	725	20-ø31	428	653	260	154	400
700	292	300	777	695	895	840	24-ø31	455	577	340	235	400
800	318	326	881	795.4	1015	950	24-ø34	553	623	340	235	400
900	330	338	982	864.7	1115	1050	28-ø34	630	680	350	260	400
1000	410	418	1090	965	1230	1160	28-ø37	680	735	350	260	400
1200	470	478	1280	1160.6	1455	1380	32-ø41	810	915	370	320	400
1400	530	540	1500	1383	1675	1590	36-ø44	941	1303	650	246.4	700
1500	600	610	1580	1434.9	1785	1700	36-ø44	1080	1372	705	279	800
1600	600	610	1755	1529.9	1915	1820	40-ø50	1046	1338	714	154	800
1800	457	467	1915	1760.5	2115	2020	44-ø50	1210	1320	837	380	800
NOTE:* Values are for reference only												

DN	FLANGE STANDARD-EN1092-2-PN16											
	L	L0	d	d0	D	K	n-ød	H1	H2 (gear/lever)	L1 (gear/lever)	L2	W
50	108	113	94	52.6	165	125	4-ø19	82	151/172	160/210	45	145
65	112	120	104	64.3	185	145	4-ø19	93	161/182	160/210	45	145
80	114	121	130	78.8	200	160	8-ø19	100	176/197	160/210	45	145
100	127	133	151	104	220	180	8-ø19	113	186/207	160/210	45	145
125	140	144	187	123.3	250	210	8-ø19	126	200/221	160/210	45	145
150	140	144	208	155.7	285	240	8-ø23	145	220/241	160/210	45	145
200	152	158	258	202.4	340	295	12-ø23	171	245	245	63	300
250	165	170	315	250.4	405	355	12-ø28	197	277	245	63	300
300	178	183	368	301.5	460	410	12-ø28	220	320	245	78	300
350	190	198	422	333.3	520	470	16-ø28	253	365	245	78	300
400	216	224	468	389.6	580	525	16-ø31	290	468	245	160	300
450	222	228	508	440.5	640	585	20-ø31	325	502	245	160	300
500	229	235	580	491.6	715	650	20-ø34	360	555	245	160	300
600	267	273	675	592.5	840	770	20-ø37	428	653	260	154	400
700	292	300	777	695	910	840	24-ø37	455	577	340	235	400
800	318	326	881	795.4	1025	950	24-ø41	553	623	340	235	400
900	330	338	982	864.7	1125	1050	28-ø41	630	680	350	260	400
1000	410	418	1090	965	1255	1170	28-ø44	680	735	350	260	400
1200	470	478	1280	1160.6	1485	1390	32-ø50	810	915	370	320	400
1400	530	540	1500	1383	1685	1590	36-ø50	941	1303	650	246.4	700
1500	600	610	1580	1434.9	1820	1710	36-ø57	1080	1372	705	279	800
1600	600	610	1755	1529.9	1930	1820	40-ø57	1046	1338	714	154	800
1800	457	467	1915	1760.5	2130	2020	44-ø57	1210	1320	837	380	800

DN	FLANGE STANDARD-EN1092-2-PN25											
	L	L0	d	d0	D	K	n-ød	H1	H2 (gear/lever)	L1 (gear/lever)	L2	W
50	108	113	94	52.6	165	125	4-ø19	82	151/172	160/210	45	145
65	112	120	104	64.3	185	145	8-ø19	93	161/182	160/210	45	145
80	114	121	130	78.8	200	160	8-ø19	100	176/197	160/210	45	145
100	127	133	151	104	230	190	8-ø23	113	186/207	160/210	45	145
125	140	144	187	123.3	270	220	8-ø28	126	200/221	160/210	45	145
150	140	144	208	155.7	300	250	8-ø28	145	220/241	160/210	45	145
200	152	158	258	202.4	360	310	12-ø28	171	245	245	63	300
250	165	170	315	250.4	425	370	12-ø31	197	277	245	63	300
300	178	183	368	301.5	485	430	16-ø31	220	320	245	78	300
350	190	198	422	333.3	555	490	16-ø34	253	365	245	78	300
400	216	224	468	389.6	620	550	16-ø37	290	468	245	160	300
450	222	228	508	440.5	670	600	20-ø37	325	502	245	160	300
500	229	235	580	491.6	730	660	20-ø37	360	555	245	160	300
600	267	273	675	592.5	845	770	20-ø41	428	653	260	154	400
700	292	300	777	695	960	875	24-ø44	455	577	340	235	400
800	318	326	881	795.4	1085	990	24-ø50	553	623	340	235	400
900	330	338	982	864.7	1185	1090	28-ø50	630	680	350	260	400
1000	410	418	1090	965	1320	1210	28-ø57	680	735	350	260	400
1200	470	478	1280	1160.6	1530	1420	32-ø57	810	915	370	320	400
1400	530	540	1500	1383	1755	1640	36-ø62	941	1303	650	246.4	700
1500	600	610	1580	1434.9	1865	1750	36-ø62	1080	1372	705	279	800
1600	600	610	1755	1529.9	1975	1860	40-ø62	1046	1338	714	154	800
1800	457	467	1915	1760.5	2195	2070	44-ø70	1210	1320	837	380	800

DN	FLANGE STANDARD-ASME B16.1 CL125/B16.47 CL150/B16.5 CL150											
	L	L0	d	d0	D	K	n-ød	H1	H2 (gear/lever)	L1 (gear/lever)	L2	W
50	108	113	94	52.6	152	120.7	4-ø19	82	151/172	160/210	45	145
65	112	120	104	64.3	178	139.7	4-ø19	93	161/182	160/210	45	145
80	114	121	130	78.8	191	152.4	4-ø19	100	176/197	160/210	45	145
100	127	133	151	104	229	190.5	8-ø19	113	186/207	160/210	45	145
125	140	144	187	123.3	254	215.9	8-ø22	126	200/221	160/210	45	145
150	140	144	208	155.7	279	241.3	8-ø22	145	220/241	160/210	45	145
200	152	158	258	202.4	343	298.4	8-ø22	171	245	245	63	300
250	165	170	315	250.4	406	362	12-ø25	197	277	245	63	300
300	178	183	368	301.5	483	431.8	12-ø25	220	320	245	78	300
350	190	198	422	333.3	533	476.2	12-ø29	253	365	245	78	300
400	216	224	468	389.6	597	539.8	16-ø29	290	468	245	160	300
450	222	228	508	440.5	635	577.8	16-ø32	325	502	245	160	300
500	229	235	580	491.6	698	635	20-ø32	360	555	245	160	300
600	267	273	675	592.5	813	749.3	20-ø35	428	653	260	154	400
700	292	300	777	695	927	863.6	28-ø35	455	577	340	235	400
800	318	326	881	795.4	1060	977.9	28-ø41	553	623	340	235	400
900	330	338	982	864.7	1168	1085.8	32-ø41	630	680	350	260	400
1000	410	418	1090	965	1289	1200.2	36-ø41	680	735	350	260	400
1200	470	478	1280	1160.6	1511	1422.4	44-ø41	810	915	370	320	400
1400	530	540	1500	1383	1745	1651	48-ø47	941	1303	650	246.4	700
1500	600	610	1580	1434.9	1855	1759	52-ø47	1080	1372	705	279	800

NOTE:* Values are for reference only

“TB” Double Eccentric Butterfly Valve

Size: DN50-4000

Product description

Rubber seat eccentric butterfly valves used for water treatment, water distribution, in dams, power plants and in industry.

Design standards

- EN 593, AWWA C504/C516

Pressure rating

- PN16
- PN10/25/40(option available)

Face-to-face dimension

- EN 558, AWWA

Flange drilling

- EN1092-2 PN10/16/25/40, ASME B 16.1/16.42 CL125/CL150, AWWA C207, ASME B16.5, ASME B16.47

Test

- EN 12266, API 598
- Seat: 1.1 x PN (in bar), Body: 1.5 x PN (in bar)

Approvals

- WRAS

Features

- Double eccentric design ensure the low operating torque
- Tight closure in both flow directions
- Possible to replace rubber seat without disassembling the disk
- Dry shaft design
- Disc firmly fixed to the shaft to prevent fluttering
- Automatic sealing system with enclosed and pressure-supported profile sealing ring
- Low flow resistance due to special disc design
- Fusion bonded epoxy coating inside and outside

Accessories

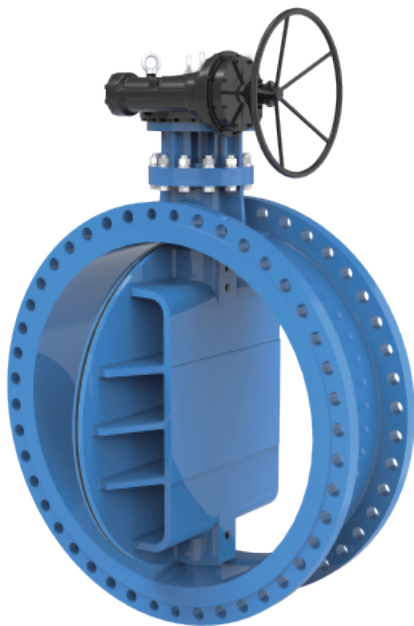
- Extension spindle
- Locking device
- Street cover
- Flange adaptor and combi-flange
- Limit switch

Operator Options

- Gear box
- Pneumatic actuator
- Electric actuator
- Hydraulic actuator

Main application

- Water supply systems
- Desalination & wastewater treatment plants
- Installation in plants
- Underground installation



Typical Structure



▲ Sealing Ring On The Disc



▲ Sealing Ring On The Body

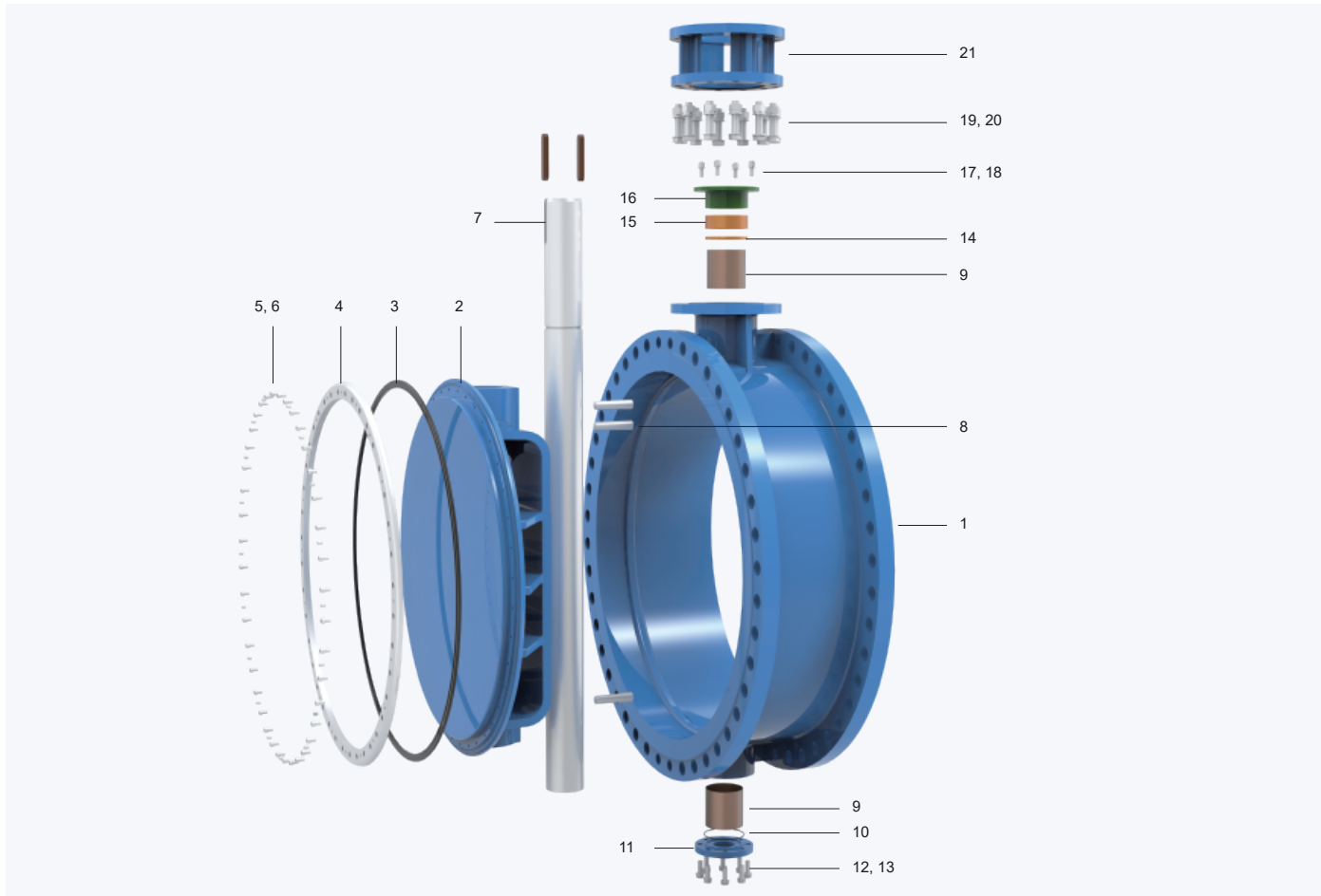


▲ Body Lining Or Disc Lining



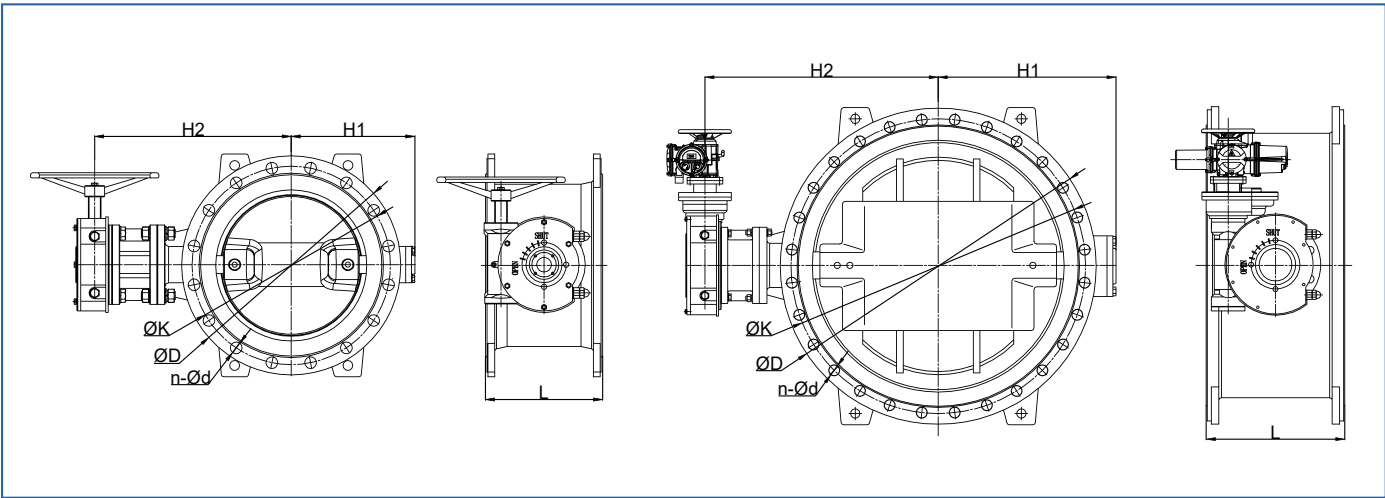
▲ Hydraulic actuator with weight

“TB” Double Eccentric Butterfly Valve



Part List						
Item	Part Name	Material-1	Material-2	Material-3	Material-4	Material-5
1	Body	DUCTILE IRON	CARBON STEEL	STAINLESS STEEL	SUPER DUPLEX STEEL	AL BRONZE
2	DISC	DUCTILE IRON	CARBON STEEL STAINLESS STEEL SUPER DUPLEX STEEL AL BRONZE	STAINLESS STEEL SUPER DUPLEX STEEL AL BRONZE	SUPER DUPLEX STEEL	AL BRONZE
3	Seat	EPDM/NBR/VITON	EPDM/NBR/VITON	EPDM/NBR/VITON	EPDM/NBR/VITON	EPDM/NBR/VITON
4	Disc Retainer Ring	ASTM A182 F316	ASTM A182 F316	ASTM A182 F316	SUPER DUPLEX STEEL	AL BRONZE
5	Screw	ISO 3506 A2-70	ISO 3506 A2-70	ISO 3506 A2-70	SUPER DUPLEX STEEL	MNL K500
6	Washers	304SS	304SS	304SS	SUPER DUPLEX STEEL	MNL K500
7	Stem	ASTM A276 420	ASTM A479 431	ASTM A479 431	SUPER DUPLEX STEEL	MNL K500
8	Pin	ASTM A276 420	ASTM A479 431	ASTM A479 431	SUPER DUPLEX STEEL	MNL K500
9	Bushing	BRASS	BRASS	BRASS	BRASS	BRASS
10	O Ring	NBR	NBR	NBR	NBR	NBR
11	Down Flange	DUCTILE IRON	CARBON STEEL	STAINLESS STEEL	SUPER DUPLEX STEEL	AL BRONZE
12	Bolts	ISO 3506 A2-70	ISO 3506 A2-70	ISO 3506 A2-70	316SS	316SS
13	Washers	304SS	304SS	304SS	316SS	316SS
14	Clipping Ring	304SS	304SS	304SS	316SS	316SS
15	Packing	PTFE+NBR	PTFE+NBR	PTFE+NBR	PTFE+NBR	PTFE+NBR
16	Gland Flange	DUCTILE IRON	CARBON STEEL	STAINLESS STEEL	SUPER DUPLEX STEEL	AL BRONZE
17	Bolts	ISO 3506 A2-70	ISO 3506 A2-70	ISO 3506 A2-70	316SS	316SS
18	Washers	304SS	304SS	304SS	316SS	316SS
19	Bolts	ISO 3506 A2-70	ISO 3506 A2-70	ISO 3506 A2-70	316SS	316SS
20	Washers	304SS	304SS	304SS	316SS	316SS
21	York	DUCTILE IRON	CARBON STEEL	CARBON STEEL	CARBON STEEL	CARBON STEEL

“TB” Double Eccentric Butterfly Valve



DN	FLANGE STANDARD-EN1092-2-PN10						
	D	K	n-ød	L		H1	H2
				Series 13	Series 14		
50	165	125	4-ø19	108	150	83	223
65	185	145	4-ø19	112	170	93	228
80	200	160	8-ø19	114	180	100	246
100	220	180	8-ø19	127	190	110	277
125	250	210	8-ø19	140	200	125	286
150	285	240	8-ø23	140	210	143	304
200	340	295	8-ø23	152	230	170	437
250	395	350	12-ø23	165	250	193	495
300	445	400	12-ø23	178	270	223	519
350	505	460	16-ø23	190	290	253	544
400	565	515	16-ø28	216	310	283	647
450	615	565	20-ø28	222	330	308	667
500	670	620	20-ø28	229	350	335	730
600	780	725	20-ø31	267	390	390	835
700	895	840	24-ø31	292	430	448	895
800	1015	950	24-ø34	318	470	508	955
900	1115	1050	28-ø34	330	510	558	1058
1000	1230	1160	28-ø37	410	550	615	1096
1200	1455	1380	32-ø41	470	630	728	1243
1400	1675	1590	36-ø44	530	710	838	1380
1600	1915	1820	40-ø50	600	790	958	1620
1800	2115	2020	44-ø50	670	870	1058	1631
2000	2325	2230	48-ø50	760	950	1163	1859
2200	2550	2440	52-ø57	800	1000	1385	1920
2400	2760	2650	56-ø57	850	1100	1500	2200
2600	2960	2850	60-ø57	900	1200	1600	2300
2800	3180	3070	64-ø57	950	1300	1750	2450
3000	3405	3290	68-ø62	1000	1400	1900	2600
NOTE:* Values are for reference only							

DN	FLANGE STANDARD-EN1092-2-PN16						
	D	K	n-ød	L		H1	H2
				Series 13	Series 14		
50	165	125	4-ø19	108	150	83	223
65	185	145	4-ø19	112	170	93	228
80	200	160	8-ø19	114	180	100	246
100	220	180	8-ø19	127	190	110	277
125	250	210	8-ø19	140	200	125	286
150	285	240	8-ø23	140	210	143	304
200	340	295	12-ø23	152	230	170	437
250	405	355	12-ø28	165	250	193	495
300	460	410	12-ø28	178	270	223	519
350	520	470	16-ø28	190	290	253	544
400	580	525	16-ø31	216	310	283	647
450	640	585	20-ø31	222	330	308	667
500	715	650	20-ø34	229	350	335	730
600	840	770	20-ø37	267	390	390	835
700	910	840	24-ø37	292	430	448	895
800	1025	950	24-ø41	318	470	508	955
900	1125	1050	28-ø41	330	510	558	1058
1000	1255	1170	28-ø44	410	550	615	1096
1200	1485	1390	32-ø50	470	630	728	1243
1400	1685	1590	36-ø50	530	710	838	1380
1600	1930	1820	40-ø57	600	790	958	1620
1800	2130	2020	44-ø57	670	870	1058	1631
2000	2345	2230	48-ø62	760	950	1163	1859
2200	2555	2440	52-ø62	800	1000	1385	1920
2400	2765	2650	56-ø62	850	1100	1500	2200
2600	3048	2908	72-ø62	900	1200	1600	2300
2800	3240	3100	68-ø70	950	1300	1750	2450
3000	3350	3240	64-ø62	1000	1400	1900	2600
NOTE:* Values are for reference only							

“TB” Double Eccentric Butterfly Valve

DN	FLANGE STANDARD-EN1092-2-PN25						
	D	K	n-ød	L		H1	H2
				Series 13	Series 14		
50	165	125	4-ø19	108	150	83	223
65	185	145	8-ø19	112	170	93	228
80	200	160	8-ø19	114	180	100	246
100	230	190	8-ø23	127	190	110	277
125	270	220	8-ø28	140	200	125	286
150	300	250	8-ø28	140	210	143	304
200	360	310	12-ø28	152	230	170	437
250	425	370	12-ø31	165	250	193	495
300	485	430	16-ø31	178	270	223	519
350	555	490	16-ø34	190	290	253	544
400	620	550	16-ø37	216	310	283	647
450	670	600	20-ø37	222	330	308	667
500	730	660	20-ø37	229	350	335	730
600	845	770	20-ø41	267	390	390	835
700	960	875	24-ø44	292	430	448	895
800	1085	990	24-ø50	318	470	508	955
900	1185	1090	28-ø50	330	510	558	1058
1000	1320	1210	28-ø57	410	550	615	1096
1200	1530	1420	32-ø57	470	630	728	1243
1400	1755	1640	36-ø62	530	710	838	1380
1600	1975	1860	40-ø62	600	790	958	1620
1800	2195	2070	44-ø70	670	870	1058	1631
2000	2425	2300	48-ø70	760	950	1163	1859
NOTE:* Values are for reference only							

DN	FLANGE STANDARD-EN1092-2-PN40						
	D	K	n-ød	L		H1	H2
				Series 13	Series 14		
50	165	125	4-ø19	108	150	83	223
65	185	145	8-ø19	112	170	93	228
80	200	160	8-ø19	114	180	100	246
100	235	190	8-ø23	127	190	110	277
125	270	220	8-ø28	140	200	125	286
150	300	250	8-ø28	140	210	143	304
200	375	320	12-ø31	152	230	170	437
250	450	385	12-ø34	165	250	193	495
300	515	450	16-ø34	178	270	223	519
350	580	510	16-ø37	190	290	253	544
400	660	585	16-ø41	216	310	283	647
450	685	610	20-ø41	222	330	308	667
500	755	670	20-ø44	229	350	335	730
600	890	795	20-ø50	267	390	390	835
700	995	900	24-ø50	292	430	448	895
800	1140	1030	24-ø58	318	470	508	955
900	1250	1140	28-ø58	330	510	558	1058
1000	1360	1250	28-ø58	410	550	615	1096
1200	1575	1460	32-ø63	470	630	728	1243
1400	1795	1680	36-ø63	530	710	838	1380
1600	2025	1900	40-ø71	600	790	958	1620
1800	2270	2120	48-ø71	670	870	1058	1631
NOTE:* Values are for reference only							

“TB” Double Eccentric Butterfly Valve

DN	FLANGE STANDARD-ASME B16.1 CL125/B16.47 CL150/B16.5 CL150						
	D	K	n-ød	L		H1	H2
				Series 13	Series 14		
50	152	120.7	4-ø19	108	150	83	223
65	178	139.7	4-ø19	112	170	93	228
80	191	152.4	4-ø19	114	180	100	246
100	229	190.5	8-ø19	127	190	110	277
125	254	215.9	8-ø22	140	200	125	286
150	279	241.3	8-ø22	140	210	143	304
200	343	298.4	8-ø22	152	230	170	437
250	406	362	12-ø25	165	250	193	495
300	483	431.8	12-ø25	178	270	223	519
350	533	476.2	12-ø29	190	290	253	544
400	597	539.8	16-ø29	216	310	283	647
450	635	577.8	16-ø32	222	330	308	667
500	698	635	20-ø32	229	350	335	730
600	813	749.3	20-ø35	267	390	390	835
700	927	863.6	28-ø35	292	430	448	895
800	1060	977.9	28-ø41	318	470	508	955
900	1168	1085.8	32-ø41	330	510	558	1058
1000	1289	1200.2	36-ø41	410	550	615	1096
1200	1511	1422.4	44-ø41	470	630	728	1243
1400	1745	1651	48-ø47	530	710	838	1380
NOTE:* Values are for reference only							