WNEWAY



- Series Tsoft seal concentric design
- Series TC metal seal triple offset design



Cat no 'F-BEV-2004

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Completed Solution for Industrial Valves

NEWAY, being the largest valve manufacturer in China, has fulfilled all the qualifications to manufacture a wide range of industrial valves for the most severe and demanding services of the Oil, Gas, Refinery, Chemical, Marine, Power and Pipeline Industries.

NEWAY's products include: Gate, Globe, Check, Butterfly and Ball Valves. Size range from 1/2 " ~52 "; class rating from 150lb~2500lb; materials range from conventional cast or forged steel to special alloy material like Monel, Inconel, Hastelloy or Duplex steel. Neway are able to produce valves for working temperature -196 °C ~ 650 °C, all available to fully comply with ASTM, ANSI, API, BS and DIN standards.

NEWAY Facilities

NEWAY's facilities include 3 Valve Factory, 1 Foundry and the new established Technical Research Center. NEWAY employed a large number of CNC machine for most of valves fabrication and we are among the few manufacturers who are able to perform in-house Fire Safe test, Cryogenic test, High Pressure Gas test, High Temperature test and Low Fugitive Emission Test.

Quality Assurance

NEWAY's Quality Assurance is dedicated to the pursuit of a zero defect valve, and this has resulted in the company having more quality qualifications than most of our competitors. NEWAY is certified by ISO 9001, API 6D, CE/PED and NEWAY's Marine Valves are type approved by ABS. NEWAY full series of gate, globe and check valves low fugitive emission test was type approved per TA Luft and NEWAY soft seated ball & butterfly valves were fire safe tested & certified by Lloyd's Register.

Quality Commitment

ISO 9001



A Sticken Hills

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CERTIFICATION COMPONENTY

And Re. State Section 19.18

Secti

API 591



CERTIFICATE OF

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Manufacturing Assessment

ABS

eway recognizes the importance of valve quality for the safety and protection of personnel health and property. It is our quality commitment to focus our resources to provide our customer's with first class products at a competitive price, that are designed, manufactured, inspected and tested in accordance with our customer's specifications and that comply with all international standards.

industrial standards do not always take into consideration the likelihood and consequences of possible deterioration in service, related to specific service fluids or the external environment in which they operate. Our customers are requested to keep an open line of communication with our engineering department to identify and implement standards, that will provide valves with the possibility of deterioration in service, so as to ensure safety over the valves expected lifetime.

With respect to the facts that the current

How to Order

Figure Numbers













338

Neway figure numbers are designed to cover essential features. When ordering, please show figure number to avoid misunderstanding of your requirements. However a detailed description must accompany with any special orders.

① Valve Size

02 = 2"	(DN50)	12 = 12"	(DN300)
2.5 = 2-1/2"	(DN65)	14 = 14"	(DN350)
03 = 3"	(DN80)	16 = 16"	(DN400)
04 = 4"	(DN100)	18 = 18"	(DN450)
05 = 5"	(DN125)	20 = 20"	(DN500)
06 = 6"	(DN150)	24 = 24"	(DN600)
08 = 8"	(DN200)	30 = 30"	(DN750)
10 = 10"	(DN250)	36 = 36"	(DN900)

⑤ Operator

	Lever handle
G	Gear operator
M	Electric actuator
Р	Pneumatic actuator

② Butterfly Valve Type

End Connection

Symbol	Туре
Т	Soft Seated Concentric Butterfly Valve
TC	Metal Seated Triple offset Butterfly Valve

Shell Material

Meterial	ASTM Ref.
C.I. (Cast Iron)	A126-B
D.I. (Ductile Iron)	A339-80-45-10
WCB	A216 Grade WCB
LCB	A352 Grade LCB
LCC	A352 Grade LCC
CF8M	A351 Grade CF8M
CF8	A351 Grade CF8
CF3M	A351 Grade CF3M
CF3	A351 Grade CF3
CN7M (Alloy 20)	A351 Grade CN7M

③ ANSI Class

Code	0	1	3	6	9	15
Class(LB)	125	150	300	600	900	1500

Type

Raise face flanged end

Butt-welding End Wafer

Lug

⑦ Trim Code

Symbol

R

В

W

	First Number		Second Numb	er	Third Number					
	Stem		Disc (T series)	Seat (TC series)		Seat (T series)	Disc Seal (TC series)			
Code	Material	Code	Material	Material	Code	Material	Material			
1	416ss	1	A339-80-45-10		1	EPDM				
2	F304	2	CF8	F304	2	NBR				
3	F316	3	CF8M	F316	3					
4	MONEL K500	4	MONEL	B127-61	4	VITON				
5	17-4PH	5	B148 C95200	B148 C95200	5	PTFE	Stainless+PTFE			
6	F6a	6	WCB		6	NEOPRENE				
7	B148 C95200	7	CA15	F6a	7	HYPALON				
8	F316L	8			8		Stainless+Graphite			
		9		EDCoCr-A						

Series T Butterfly Valve

Soft seated butterfly valves are widely used in various industries for both On-off and regulating service. Compare with traditional globe & ball valve, butterfly valve is less weighted and cost effective. Followed by the rapid development on various elastomer material, resilient seated butterfly valves are now used not only for water system but also for some of process industry.



Typical application:

- Potable water
- Waste water
- Power plants
- Shipbuilding industry
- Chemical and petrochemical
- Paper mill



Products Range:

Size:	2" ~ 24"
Rating:	PN10, PN16, Class 125lb &150lb
Temperature Range:	-20 °C ~ +200 °C
Body Materials:	Cast Iron, Ductile Iron, Cast steel,
	Stainless steel
Elastomer Material:	EPDM, NBR, PTFE & Viton
End Connection:	Wafer, Lug & Double Flange



NEWAYT series butterfly featured with concentric design, is a reliable, maintenance free and cost effective valve. With various optional elastomer material, it can ensure gas tight seal, leakage free and corrosion resistant in various applications. Seat is designed with back up ring prevents the seat from collapsing or dislodging and is easily replaceable in the field. Upon client request, this series valves can also be designed for Dead End service at maximum pressure rating.

Series T Butterfly Valve

Indicate plate

Provide 10 opening angle setting from 0° ~90°, easily identify the disc position.

Nameplate

Nameplate is permanently attached to body and providing full material, pressure, temperature reference.

PTFE Bushing with O-ring

reduce valve operation torque and tight shut off the line pressure.

Back-up ring supported seat

Enable replaceable seat & prevent seat leakage. Resilient seat also extended above body ends eliminates the needs for gaskets.

Mounting pad

Designed per ISO 5211, easily installation of hand levers, gear box, pneumatic or electric actuators.

Anti-Blowout spring pin

Prevent stem blowout by line pressure.

Double shaft (2"~12")

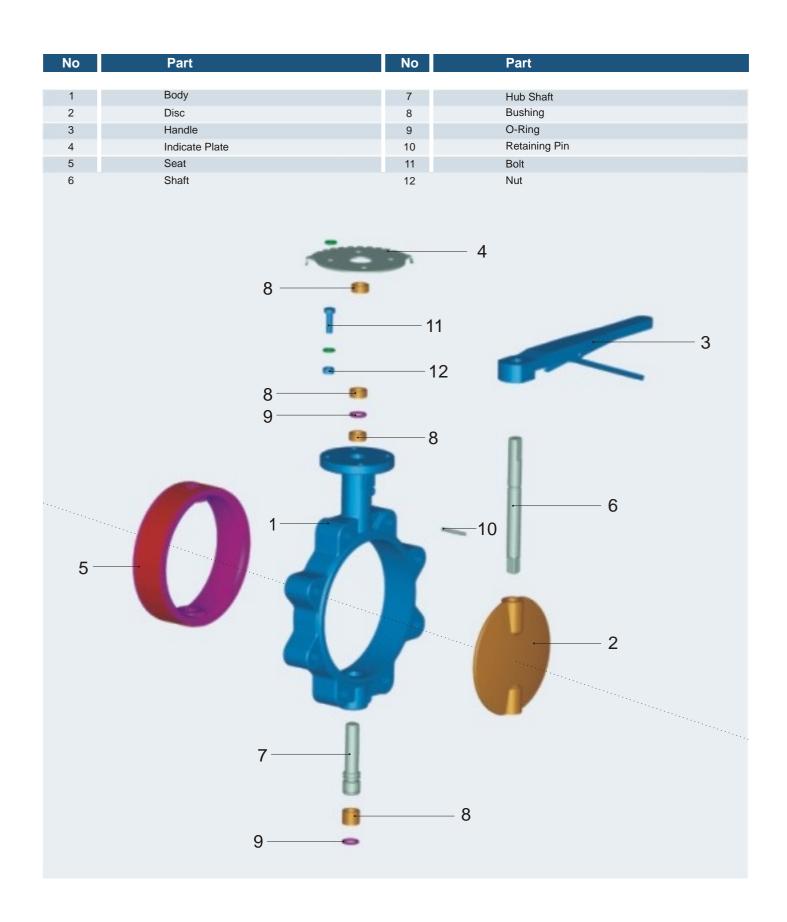
Reduce the valve operation torque also reduce the flow resistance force.

One Shaft Design

Cast iron & Ductile Iron 14" and above Cast steel, S.S. 2" and above

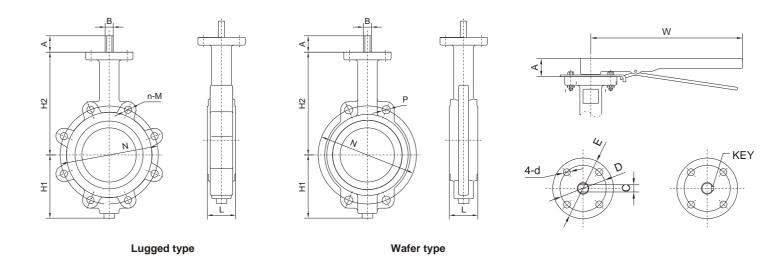
Polished disc edge

Semicircular edge shape reduces the valve operation torque and maximum seat life.



Series T Butterfly Valve Material Specifications

No	Part		Material S	Series	
NO	rait	Cast Iron	Ductile Iron	Cast Steel	Stainless Steel
1	Body	ASTM A126-B	ASTM A339-80-45-10	ASTM A216-WCB	ASTM A351-CF8M ASTM A351-CF8
2	Disc	ASTM A339-80-45-10 ASTM A351-CF8 ASTM A351-CF8M ASTM B148	ASTM A339-80-45-10 ASTM A351-CF8 ASTM A351-CF8M ASTM B148	ASTM A351-CF8 ASTM A351-CF8M ASTM B148 MONEL	ASTM A351-CF3 ASTM A351-CF3M ASTM B148 MONEL
3 4	Handle Indicate Plate	MONEL ASTM A126-B CARBON STEEL	MONEL ASTM A126-B CARBON STEEL	ASTM A126-B CARBON STEEL	ASTM A126-B S.S.
5	Seat	EPDM NBR VITON NEOPRENE HYPALON PTFE	EPDM NBR VITON NEOPRENE HYPALON PTFE	EPDM NBR VITON NEOPRENE HYPALON PTFE	EPDM NBR VITON NEOPRENE HYPALON PTFE
6	Shaft	ASTM A182-F6a ASTM A182-F304 ASTM A182-F316 MONEL K500 17-4PH	ASTM A182-F6a ASTM A182-F304 ASTM A182-F316 MONEL K500 17-4PH	ASTM A182-F6a ASTM A182-F304 ASTM A182-F316 MONEL K500 17-4PH	ASTM A182-F6a ASTM A182-F304 ASTM A182-F316 MONEL K500 17-4PH
7	Hub Shaft	ASTM A182-F6a ASTM A182-F304 ASTM A182-F316 MONEL K500 17-4PH	ASTM A182-F6a ASTM A182-F304 ASTM A182-F316 MONEL K500 17-4PH	ASTM A182-F6a ASTM A182-F304 ASTM A182-F316 MONEL K500 17-4PH	ASTM A182-F6a ASTM A182-F304 ASTM A182-F316 MONEL K500 17-4PH
8	Bushing	PTFE	PTFE	PTFE	PTFE
9	O-Ring	EPDM NBR VITON	EPDM NBR VITON	EPDM NBR VITON	EPDM NBR VITON
10 11	Retaining Pin Bolt	S.S. CARBON STEEL	S.S. CARBON STEEL	S.S. CARBON STEEL	S.S. S.S.
12	Nut	CARBON STEEL	CARBON STEEL	CARBON STEEL	S.S.



Dimensions (mm)

Valv	es Size		H1	H2	Α	В	С	D	E	d	N	P	n	М	w	Key	Gear Box
inch	mm			П2	^		Ŭ		_	u	N			IVI	vv	Rey	Type
2	50	43	89	162	32	12.6	10	70	92	9.5	120.5	19	4	5/8-11	267	5*5	
2-1/2	65	46	98	175	32	12.6	10	70	92	9.5	139.5	19	4	5/8-11	267	5*5	
3	80	46	104	181	32	12.6	10	70	92	9.5	152.5	19	4	5/8-11	267	5*5	SD30
4	100	52	123	200	32	15.8	12	70	92	9.5	190.5	19	8	5/8-11	267	5*5	
5	125	56	136	213	32	18.9	14	70	92	9.5	216	22	8	3/4-10	267	6*6	
6	150	56	148	256	32	18.9	14	70	92	9.5	241.5	22	8	3/4-10	267	6*6	
8	200	60	184	261	45	22.1	17	102	125	11.5	298.5	22	8	3/4-10	356	8*7	0075
10	250	68	212	292	45	28.5	22	102	125	11.5	362	25	12	7/8-9	356	8*7	SD75
12	300	78	255	337	45	31.6	24	102	125	11.5	432	25	12	7/8-9	356	10*8	CD400
14	350	78	267	368	45	31.6	24	102	125	11.5	476	29	12	1-8		10*8	SD120
16	400	102	322	400	51	33.2	27	165	210	22	539.5	29	16	1-8		10*8	CDOEO
18	450	114	339	422	51	38.0	27	165	210	22	578	32	16	11/8-7		10*8	SD250
20	500	127	371	480	63	41.1	32	165	210	22	635	32	20	11/8-7		12*8	SD300
24	600	154	461	562	70	50.6	36	165	210	22	749.5	35	28	11/4-7		16*10	SD400

Weights (kg)

End Connection	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
W (0.7	0.0	4.5	.	0.0	0.4	445	40.4	04.7	40.4	50 4	740	1017	400.0
Wafer	2.7	3.2	4.5	5.9	8.2	9.1	14.5	19.1	31.7	43.1	53.1	74.8	124.7	199.6
Lug	3.1	3.6	6.4	11.8	12.7	14.1	22.2	32.7	47.6	70.4	88.5	104.3	179.6	276.7

Series TC Butterfly Valve

Industrial valves normally require wider temperature and pressure ranges, which conventional resilient seated butterfly valve can not comply, this have led to development of metal seated butterfly valve. NEWAYTC series butterfly valve is triple off-set design which has a advantage of light weight, compact design and cost effective and low operation torque and can replace traditional gate, globe & ball valve in most of industries application.



Typical application:

- Petrochemical plant
- Refinery
- Offshore platform
- Power plant
- LNG
- Steel Mills



Products Range:

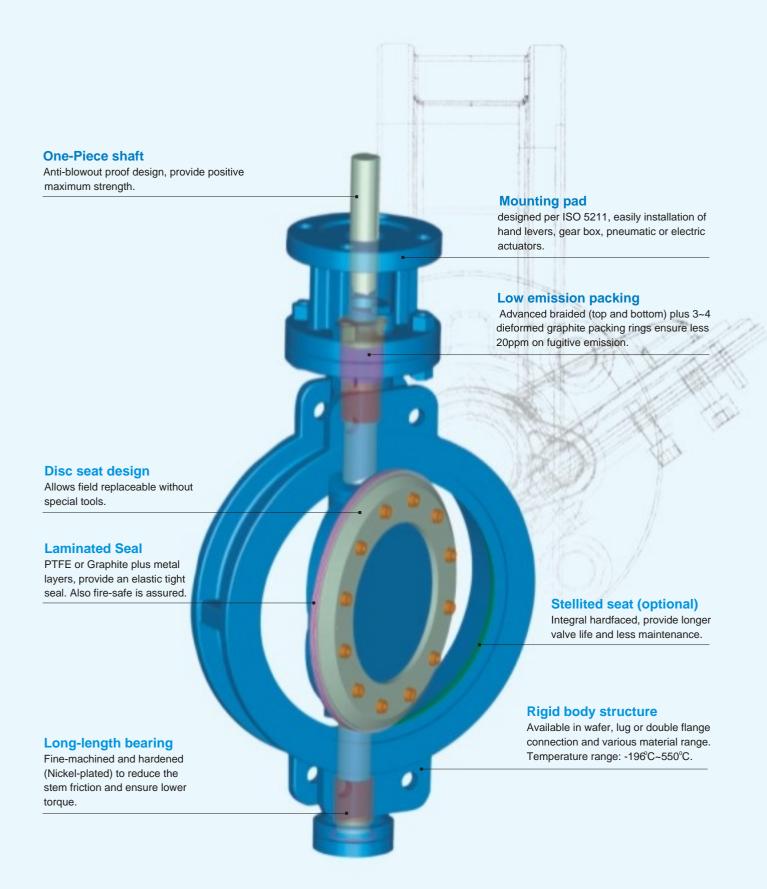
Size:	3" ~ 48"
Rating:	ANSI 150lb ~ 600lb
Temperature Range:	-196°C ~ +550°C
Body Materials:	Cast steel, Stainless steel, Alloy steel
	Duplex steel.
Disc Sealing:	PTFE, Graphite laminated
End Connection:	Wafer, Lug, Double Flange



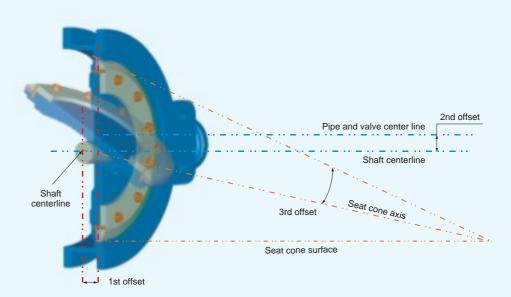


NEWAY TC series butterfly valve is true metal to metal seated design, featured with quarter turn, bi-directional & zero leakage. Because of no Teflon, Viton or other soft seal material used, it is inherently fire safe and can completely eliminate the traditional elastomeric seating butterfly valve leakage problem due to seat aging or deformation, consequently wear. Wide range of available body material selection make this series of valve not only good for isolation service but also ideal for most of process and control application.

Series TC Butterfly Valve



Series TC Butterfly Valve Design Feature

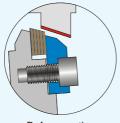


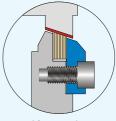
Triple Offset Frictionless Design

1st offset: Shaft rotation center is offset from the centerline of valve seat, provide a completed sealing contact between discand seat.

2nd offset: Shaft rotation center is offset from centerline of valve body, greatly reduce the friction between disc and seat during valve closing and opening.

3rd offset: Seat cone center is offset from the valve centerline, completely eliminate the mechanical friction between disc and seat. It is a torque seated, process pressureaided frictionless seal valve, ideally suitable for metal seated valves on high temperature, high pressure and firesafe application.





Before seating

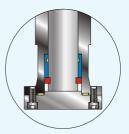
After seating

Laminated Disc Seal

Laminated sealing is mounted in the disc, easily for maintenance and replacement. It consists of 3~5 flexible graphite or PTFE layers self adhere with fine machined stainless seal ring, no need traditional phenol resin adhere joint, There is a reasonable clearance between disc seal and disc, provide a floating resilient seal and self centering tight seal both in low & high temperature application. Conical angle & streamline profile of this laminated disc is optimized by computer finite element analysis to eliminate any potential jamming as well as give a greater Cv.

Zero Leakage

Disc-Seat sealing was achieved by torque force evenly loaded on disc laminated seal edge, which has resilient function to assure Zero Leakage in both hydrostatic or air test per API 598.



Internally retained



Externally retained

Anti-blowout shaft.

Internally & Externally retained, double times blowout proof stem design per API 609.

Internal: Lower end shaft is grooved with Hemicycle Ring, prevent stem blowout.

External: Shaft is designed with an integral collar and was blowout prevented by gland follower.

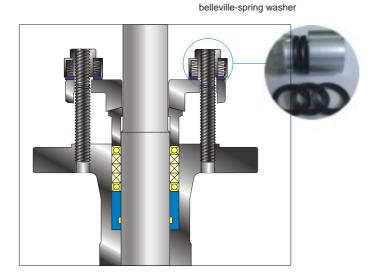
Inherent Fire Safe

Neway triple offset butterfly valves are all metal construction and sealing, it is inherently fire safe design. Fire safe tests to API 607 were successfully performed in Neway Research & Development laboratory.

Low Emission Shaft Seal

Neway standard emission control is 20 PPM

- a.) Shaft is fully guided by shaft bearing & gland follower to avoid any side jiggle due to line pressure thrust.
- b.) The packing set is pre-compressed and is a combination of braided graphite rings top and bottom with die formed flexible graphite rings between.
- c.) Controlled shaft & stuffing box finish with Ra0.4~Ra0.8 on shaft and Ra3.2 on stuffing box which allow a better holding of packing ring and results in a better shaft sealing performance.
- d.) Optional Live Loaded gland flange is available for providing constant packing compresion to reduce fugitive emission from shaft seal.
- e.) Optional shaft seal design per Shell MESC 77/312 & TA-Luft is also available upon request.



Weather proof

Compact & light Design

NEWAY series TC butterfly valve was designed per API 609, due to its compact & light design. It is an economical replacement for gate, globe and ball valves. Below is a comparison table based on a NEWAY design 6" valve.

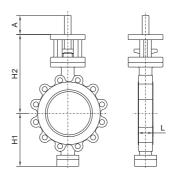
		150	LB			300	LB			600L	_B	
	Butterfly	Gate	Globe	Ball	Butterfly	Gate	Globe	Ball	Butterfly	Gate	Globe	Ball
Face to Face (mm)	140	267	406	394	140	403	445	403	210	559	559	559
Weight (kg)	68	77	100	190	118	144	168	211	201	234	284	248
Butterfly		L				L				L		

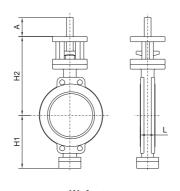
Series TC Butterfly Valve Material Specifications

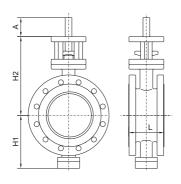
No	Part	No	Part
1	Body	12	Yoke
2	Disc	13	Bearing
3	Disc Retaining Ring	14	Hemicycle Ring
4	Steel Seal Ring	15	Packing
5	Seal Ring	16	Screw
6	Gland Flange	17	Gland bolt
7	Shaft	18	Disc Screw
8	Gland	19	Disc Pin
9	Spacer Ring	20	Body Stud
10	Gasket	21	Body Nut
11	End Cover		
3	19	4	6 ————————————————————————————————————

No	Part	Standard	Stainless steel
1	Body	ASTM A216-WCB/316 overlay	ASTM A351-CF8M
2	Disc	ASTM A216-WCB	ASTM A351-CF8M
3	Disc Retaining Ring	ASTM A182-F316	ASTM A182-F316
4	Steel Seal Ring	ASTM A182-F316	ASTM A182-F316
5	Seal Ring	Graphite/PTFE	Graphite/PTFE
6	Gland Flange	ASTM A216-WCB	ASTM A351-CF8
7	Shaft	ASTM A182-F316	ASTM A182-F316
8	Gland	ASTM A182-F316	ASTM A182-F316
9	Spacer Ring	ASTM A182-F316	ASTM A182-F316
10	Gasket	316SS+Graphite	316SS+Graphite
11	End Cover	ASTM A105	ASTM A182-F316
12	Yoke	ASTM A216-WCB	ASTM A351-CF8M
13	Bearing	ASTM A182-F316/Cr plated	ASTM A182-F316/Cr plated
14	Hemicycle Ring	ASTM A182-F316	ASTM A182-F316
15	Packing	Graphite/PTFE	Graphite/PTFE
16	Screw	ASTM A193-B7	ASTM A193-B8
17	Gland bolt	ASTM A193-B7	ASTM A193-B8
18	Disc Screw	S.S.	S.S.
19	Disc Pin	S.S.	S.S.
20	Body Stud	ASTM A193-B7	ASTM A193-B8
21	Body Nut	ASTM A194-2H	ASTM A194-8

Series TC Butterfly Valve Dimensions & Weights





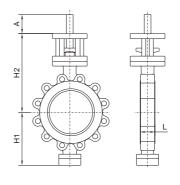


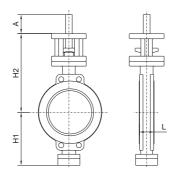
Double Flanged Type

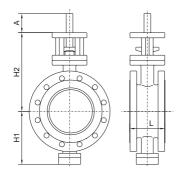
Lugged type Wafer type

Class 150LB Dimensions (mm)

Valv	es Size					L			Weight (kg)	
inch	mm	H1	H2	Α	Lug	Wafer	Flanged	Lug	Wafer	Flanged
3"	80	157	239	45	48	48	114	27	26	41
4"	100	179	280	45	54	54	127	29	27	50
6"	150	194	310	45	57	57	140	37	32	68
8"	200	230	330	75	64	64	152	63	60	112
10"	250	280	380	80	71	71	165	85	78	148
12"	300	310	450	100	81	81	178	137	123	221
14"	350	340	500	110	92	92	190	200	174	297
16"	400	365	510	110	102	102	216	276	229	370
18"	450	436	640	135	114	114	222	329	288	435
20"	500	450	660	150	127	127	229	480	410	589
24"	600	530	820	170	154	154	267	673	585	827
28"	700	600	903	170	165	165	292	1212	1098	1476
30"	750	630	930	170	190	190	318	1496	1364	1634
32"	800	696	967	175	190	190	318	1806	1640	2005
36"	900	760	1105	175	203	203	330	2116	1917	2506
40"	1000	830	1175	175	216	216	410	2681	2425	3347
42"	1050	860	1210	175	229	229	410	2811	2573	3620
48"	1200	960	1320	200	254	254	470	3940	3484	5077







Lugged type

Wafer type

Double Flanged Type

Class 300LB

Dimensions (mm)

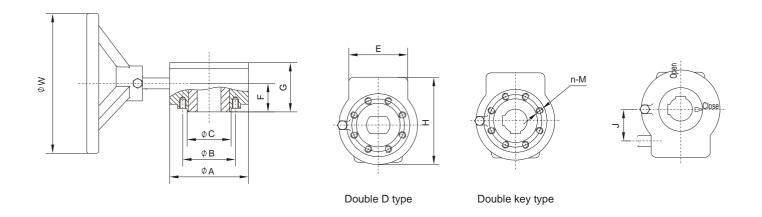
Valv	es Size				L			W	eight (kg)	
inch	mm	H1	H2	Α	Lug	Wafer	Flanged	Lug	Wafer	Flanged
3"	80	157	239	45	48	48	114	31	26	50
4"	100	179	280	45	54	54	127	35	27	67
6"	150	220	356	60	59	59	140	65	50	118
8"	200	260	420	80	73	73	152	90	81	156
10"	250	310	430	90	83	83	165	141	133	207
12"	300	345	480	100	92	92	178	206	187	337
14"	350	370	450	110	117	117	190	395	279	495
16"	400	390	550	120	133	133	216	469	368	604
18"	450	490	705	130	149	149	222	718	494	864
20"	500	520	750	140	159	159	229	825	607	971
24"	600	590	910	150	181	181	267	1271	901	1455

Class 600LB

Dimensions (mm)

Valve	es Size					L		Weight (kg)
inch	mm	H1	H2	Α	Lug	Wafer	Flanged	Flanged
3"	80	184	280	65	54	54	180	57
4"	100	205	300	80	64	64	190	108
6"	150	260	415	120	78	78	210	201
8"	200	290	450	130	102	102	230	300
10"	250	360	500	140	117	117	250	463
12"	300	390	570	150	140	140	270	601
14"	350	410	590	160	155	155	290	673
16"	400	470	650	170	178	178	310	1055
18"	450	560	800	180	200	200	330	1196
20"	500	600	830	190	216	216	350	1542
24"	600	650	1050	250	232	232	390	2310

Engineering Data Gear Operators



Main Parts Material:

Name of Part	End Cover	Housing	Worm	Worm gear	Cover	Indicator
Material	ASTM A126-A	ASTM A126-A	AISI 1045	ASTM A339-80-45-10	ASTM A126-A	ASTM A126-B
Optional Material	ASTM A216-WCB	ASTM A216-WCB			ASTM A216-WCB	1Cr18Ni9Ti

Dimensions (mm) & Weights

Gear Box Type	Ratio	Output Torque (N.M)	A	В	С	E	F	G	н	J	n-M	w	Weight (Kg)
		, ,											
SD30	24:1	300	90	70	55	54	38	70	127	45	4-M8	150	4.5
SD75	30:1	750	125	102	70	57	45	82	176	66	4- M10	300	12
SD120	50:1	1200	150	125	85	85	50	88	198	78	4-M12	300	14
SD250	120:1	2500	210	165	130	90	66	118	290	120	4-M20	300	35
SD300	290:1	3000	210	165	130		75	162	313	120	4-M20	300	50
SD700	320:1	7000	300	254	200		75	165	405	154	8-M16	500	65
SD900	350:1	9000	350	298	230		82	172	453	180	8-M20	600	150
SD1500	450:1	15000	350	298	230		89	195	545	225	8-M20	750	206
SD2100	618:1	21000	415	356	260		105	248	730	250	8-M30	750	280
SD2900	910:1	29000	415	356	260		116	273	860	315	8-M30	750	420
SD4000	846:1	40000	475	406	300		125	296	930	345	8-M36	750	560
SD6000	918:1	60000	475	406	300		145	326	990	390	8-M36	750	700

T Series Butterfly Valve

Valve	Size			Shut Off	f Pressure (psi)		
inch	mm	0	50	100	150	200	285
2"	50	37	38	40	41	42	44
2-1/2"	65	45	46	47	49	50	52
3"	80	54	56	59	61	63	66
4"	100	81	85	88	92	95	99
5"	125	110	116	121	127	133	140
6"	150	152	164	175	186	198	212
8"	200	254	277	299	322	345	370
10"	250	390	424	458	492	525	551
12"	300	525	582	638	695	751	810
14"	350	729	819	910	1000	1090	1200
16"	400	932	1068	1203	1339	1475	1620
18"	450	1170	1373	1576	1780	1977	2295
20"	500	1441	1723	2006	2288	2570	2870
24"	600	1814	2189	2564	2939	3320	3700

TC Series Butterfly Valve

Valve	e Size	Class	150lb	Class	300lb	Class	600lb
inch	mm	Opening	Closing	Opening	Closing	Opening	Closing
3"	80	90	80	152	135	272	188
4"	100	126	109	218	179	545	354
6"	150	193	164	462	354	1294	715
8"	200	387	258	1007	613	2451	1491
10"	250	675	488	1612	1035	4339	2538
12"	300	1041	738	2594	1486	6189	3308
14"	350	1465	1009	3502	1778	8262	4364
16"	400	2050	1439	5767	2958	11822	5992
18"	450	2842	1636	7703	3685	20304	9047
20"	500	3531	1945	9884	4335	25892	11778
24"	600	5996	2701	15961	6412	39902	15788
28"	700	15104	5979	24202	8046		
30"	750	21896	6939	46447	15660		
32"	800	23153	7878	51616	15078		
36"	900	31912	12206	72961	21194		
40"	1000	40362	15544	85865	28619		
42"	1050	47524	17365				
48"	1200	65334	25709				

Notes:

- 1) Torques shown are based on normal temperature with flow direction from shaft side.
- 2) Torque shown in this table is to be used as a guide for actuator selection. A safety factor of 1.2~1.4 is recommended for actuator sizing.
- 3) Torque may be changed according to different medium and trim material.
- 4) The relationship between values are liner, therefore it can be interpolated between nominated values.

Engineering Data Flow Coefficient (Cv value)

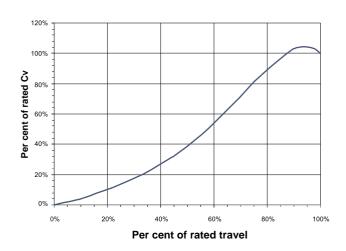
T Series Butterfly Valve

Valve	Size	Disc Opening Angle									
inch	mm	10°	20°	30°	40°	50°	60°	70°	80°	90°	
2"	50	2	8	18	30	50	80	130	200	220	
2-1/2"	65	3	11	25	44	70	110	180	290	320	
3"	80	4	16	38	66	110	170	280	430	500	
4"	100	6	28	63	110	180	280	460	720	820	
5"	125	10	44	100	180	280	450	740	1100	1300	
6"	150	17	60	140	250	400	640	1100	1600	1900	
8"	200	24	110	250	440	690	1100	1800	2800	3300	
10"	250	39	180	400	710	1100	1800	3000	4600	5400	
12"	300	57	260	590	1000	1700	2700	4400	6800	8000	
14"	350	75	340	770	1400	2200	3400	5600	9000	10000	
16"	400	100	440	1000	1800	2800	4500	7400	11000	13000	
18"	450	130	570	1300	2300	3600	5800	9600	15000	18000	
20"	500	150	710	1600	2900	4600	7200	12000	18000	22000	
24"	600	220	1000	2300	4000	6400	10000	17000	26000	30000	

TC Series Butterfly Valve

16 26	eries	Butter	riy vaiv	e e			
Valve	Size	150	Olb	30	0lb	600	lb
		0	IZ: ·	0	17	_	14
mm	inch	Cv	Kv	Cv	Kv	Cv	Kv
80	3	165	143	165	143	150	130
100	4	290	251	290	251	250	216
150	6	790	684	725	628	600	519
200	8	1460	1264	1330	1152	1080	935
250	10	2200	1905	2110	1827	1700	1472
300	12	3780	3273	3500	3030	2520	2182
350	14	5140	4450	4620	4000	4068	3522
400	16	6940	6009	6280	5437	5380	4658
450	18	9500	8225	8590	7437	7470	6468
500	20	13000	11255	11500	9957	9820	8502
600	24	18800	16277	16180	14009	14940	12935
700	28	27200	23550	23400	20260		
750	30	30700	26580	29000	25108		
800	32	35000	30303	32600	28225		
900	36	43000	37229	41500	35931		
1000	40	56900	49264	49900	43203		
1050	42	61700	53419	57100	49437		
1200	48	81000	70130	74000	64069		

Cv curve



Notes:

- 1) Definition:

 - Kv: The volume of water in m³/hr at 15℃ that will pass through a valve with differential pressure of 1 bar.
- 2) Flow direction from shaft side
- 3) Cv = 1.155 Kv

Metal Body Material

Meterial	ASTM Ref.		mended ure Limits	Application
		C	°F	
Cast Iron	A126-B	-15 to 200	5 to 390	Steam, water oil, oil vapour, gas and general service
Ductile Iron	A339-80-45-10	-30 to 350	-22 to 650	Steam, water oil, oil vapour, gas and general service
WCB	A216 Grade WCB	-29 to 425	-20 to 800	Steam, water oil, oil vapour, gas and general service
LCB	A352 Grade LCB	-46 to 350	-50 to 650	Low temperature
LCC	A352 Grade LCC	-46 to 350	-50 to 650	Low temperature
CF8M	A351 Grade CF8M	-196 to 537	-320 to 1000	
CF8	A351 Grade CF8	-196 to 537	-320 to 1000	High and low temperature corrosion resistance
CF3M	A351 Grade CF3M	-196 to 537	-320 to 1000	Cryogenic service is also available upon request
CF3	A351 Grade CF3	-196 to 537	-320 to 1000	
CN7M Alloy 20	A351 Grade CN7M	-196 to 425	-320 to 800	Corrosion resistance

Soft Sealing Material

Recommended Temperature Limits		Application
${\mathbb C}$	°F	
-35 to 135	-30 to 275	General water, oil low pressure applications but not suitable for hydrocarbon and high pressure services
-12 to 82	+10 to 180	Food, beverage and sanitary service
-12 to 200	+10 to 400	Wide range of watter, oil, chemicals except Amine service
-196 to 218	-320 to 425	Various chemical and cryogenic services
-7 to 93	+20 to 200	Various chemicals, intermediate oil and solvent.
-18 to 135	0 to 275	Wide range of aggressive chemicals, intermediate oil and solvent
	-35 to 135 -12 to 82 -12 to 200 -196 to 218 -7 to 93	Temperature Limits °C °F -35 to 135 -30 to 275 -12 to 82 +10 to 180 -12 to 200 +10 to 400 -196 to 218 -320 to 425 -7 to 93 +20 to 200

NEWAY Manufacturing Plants

NEWAY Valve Factory

Conventional Gate, Globe and Check Valve Shop: 12,000 sqm Office: 2,500 sqm



Established in 1996

NEWAY Foundry

Valve Sand Casting

Shop: 9,500 sqm Office: 700 sqm



Established in 2002

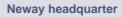
NEWAY Valve Factory

Quarter Turn Valve

Shop: 2,500 sqm Office: 600 sqm



Established in 2003

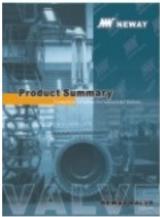




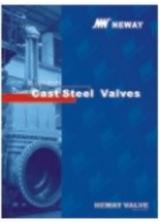
Established in 2004

Product Warranty

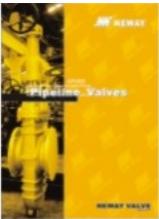
Seller will replace without charge or refund the purchase price of products provided by Seller which prove to be defective in material or workmanship, provided in each case that the product is properly installed and is used in the service for which Seller recommends it and that written claim, specifying the alleged defect, is presented to the Seller within 18 months from the date of shipment or 12 months after installation, whichever occurs first. Seller shall in no event bear any labor, equipment, engineering or other costs incurred in connection with repair of replacement. The warranty stated in this paragraph is in lieu of all other warranties, either expressed or implied. With respect to warranties, this paragraph states Buyer's exclusive remedy and seller's exclusive liability.



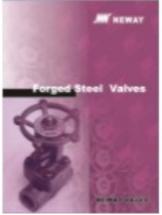
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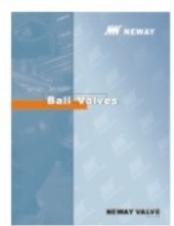
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Cat.no.:E-PLV



Cat.no.:E-FSV



Cat.no.:E-BV



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