



Cat.no.:E-PS



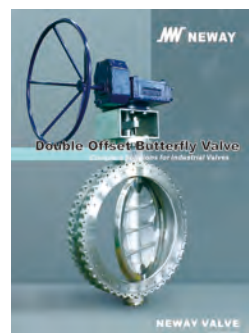
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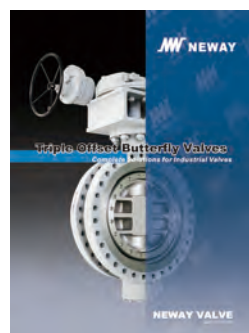
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Cat.no.:E-FBV



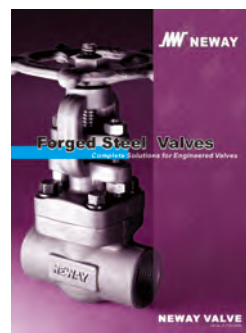
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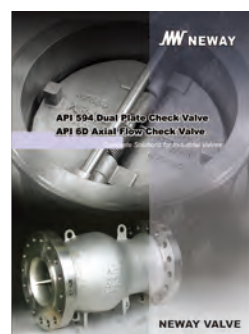
Cat.no.:E-TOV



Cat.no.:E-PLV



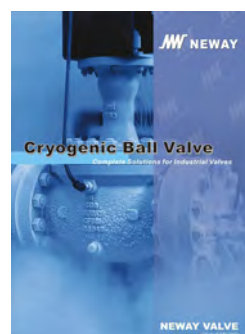
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Cat.no.:E-DAV



Cat.no.:E-CPS



Cat.no.:E-CBV

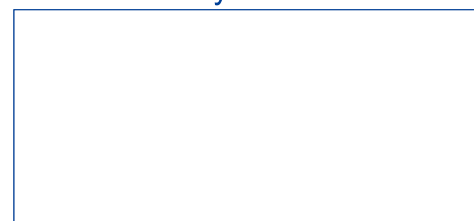


Cat.no.:E-PV

NW NEWAY
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Cat.no.:E-DOV-2020

NW NEWAY



Double Offset Butterfly Valve

Complete Solutions for Industrial Valves



NEWAY VALVE

Cat.no.:E-DOV-2020

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Complete Solutions for Industrial Valves

As a global leader of valve manufacturing, Neway (SSE:603699) is dedicated to the production, research, and development of industrial valves. Neway is committed to providing complete valve solutions to all industries through advanced engineering and innovation.

Neway's product line includes Ball, Butterfly, Gate, Globe, Check, Nuclear, Control, Subsea, Safety valves. Our high quality standards and innovative ability are recognized by many global end users and EPCs. Neway valves are utilized in a wide variety of industries and working conditions such as Refining, Chemical, Coal Chemical, Offshore(including subsea), Air Separation, LNG, Nuclear Power, Power Generation, and Pipeline Transmission applications.

Facilities & Service

Neway has developed a sophisticated multi-plant management system operating one valve assembly plant, one API6A valve plant, three foundries, and one R&D center. Our largest assembly plant was expanded in 2013, and it now covers 230,000 square meters.

Advanced software (ANSYS, FE-Safe, CF-Design, Siemens PLM and NX) is applied here at Neway for the Research & Development of products. We use SAP to control the traceability and status of all products during the manufacturing process. In order to ensure the safety, eco-friendliness, and reliability of our products, we use the most advanced fire-safe, cryogenic, high pressure, and fugitive emission test equipment.

As part of Neway's global strategy, to provide better service to our customers, we have established our overseas subsidiaries in USA, Netherlands, Italy, Singapore and Dubai along with over 80 agents and distributors worldwide.

High Quality, High Value

Neway is dedicated to the pursuit of “Zero Defect”. We maintain a quality management system that encompasses our entire operation from order entry, to final inspection. Through Neway's continuous efforts, our products have achieved industrial certificates including ISO 9001, API 6A, API 6D, CE/PED, ASME N & NPT, TA-Luft, ABS, CU-TR and Fire-Safe approvals.

API 6D



API 6A



TA Luft



AD2000

ISO 9001



CE/PED



ABS



Fire Safe Test Certificate

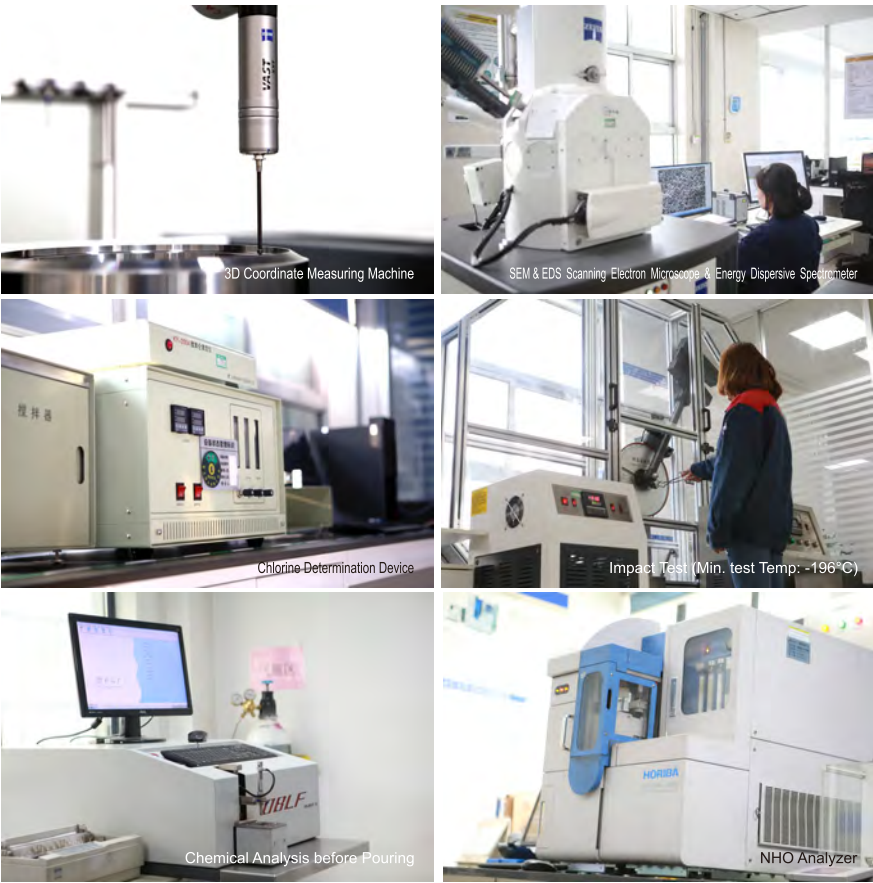
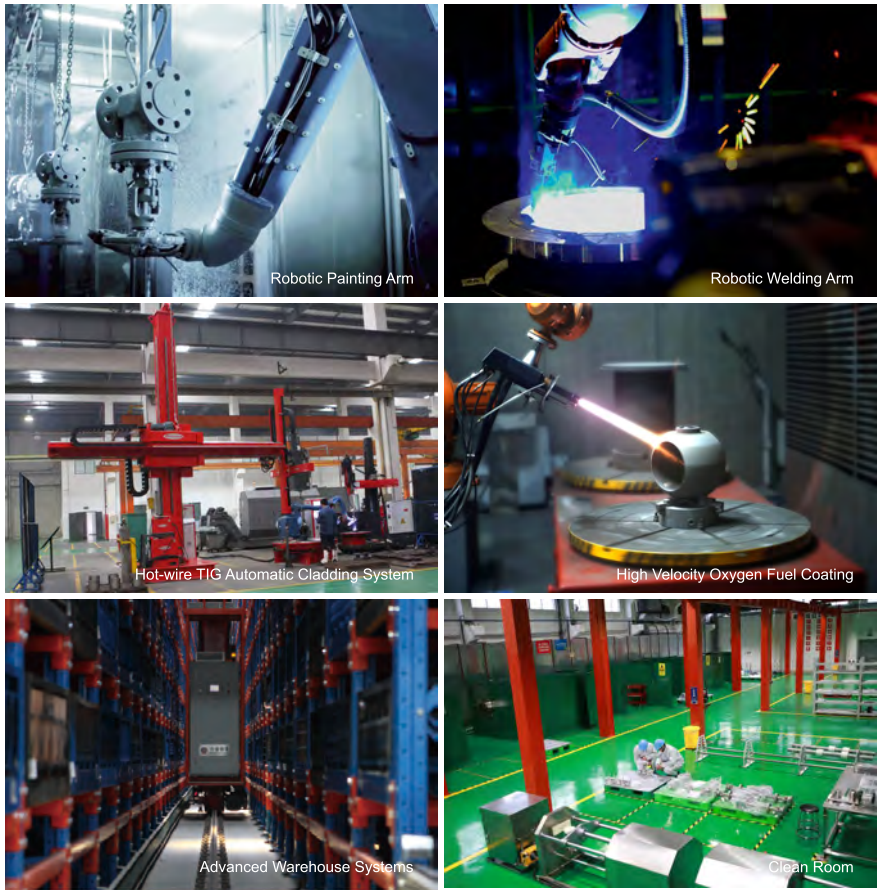
Neway recognizes the importance of valve quality for the safety and protection of personnel health and property. It is our quality commitment to focus our resources to provide our customers with first class products at a competitive price, designed, manufactured, inspected and tested in accordance with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

Current 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 environments in which they operate. Therefore we request that our customers communicate with our engineering department. Our valve optimization program continuously strives to provide valves that withstand deterioration in service, and ensure safety over the valves expected lifetime.

Advanced Manufacturing

The latest computer technology has been extensively applied in NEWAY manufacturing, which includes a large number of numeric control machines (machining center, CNC horizontal and vertical lathe and CNC drilling machine) and ERP management system. Additionally, the data through all factories have been connected and shared. These facilitate resource integration, boost productivity, evidently enhancing machining quality and tightening process control.



Quality Control

NEWAY developed comprehensive and advanced inspection and test facilities to control the quality from rough castings or forgings to final products, which enable us to perform radiographic test, liquid penetrant test, magnetic-particle test, spectrum analysis, Material Positive Identification (MPI), impact test, tensile test, hardness test, fire safe test, cryogenic test, vacuum test, low fugitive emission test, high pressure gas test, ultrasonic testing and hydrostatic test.

Figure Numbers

12

①

TBT

②

1

③

W

④

-

⑤

C00

⑥

535AB

⑦

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										
in	2	2-1/2	3	4	5	6	8	10	12	14
mm	50	65	80	100	125	150	200	250	300	350
in	16	18	20	24	28	30	32	36	40	48
mm	400	450	500	600	700	750	800	900	1000	1200

② Double Offset Butterfly Valve Type	
Symbol	Type
TB	Rubber Seat Design
TBT	PTFE Seat Design, Non Fire-Safe
TBF	PTFE+Metal Seat Design, Fire-safe

③ ANSI Class			
Code	1	3	6
Class(LB)	150	300	600

④ End Connection	
Symbol	Type
R	Double Flange
W	Wafer
L	Lug

⑤ Operator	
G	Gear operator
M	Motor actuator
P	Pneumatic actuator
H	Hydraulic actuator

⑥ Body Material	
Material	ASTM Ref.
C00	A216 Grade WCB
L20	A352 Grade LCB
L21	A352 Grade LCC
S00	A351 Grade CF8
S01	A351 Grade CF8M
S02	A351 Grade CF3
S03	A351 Grade CF3M

⑦ Trim Code							
First Number		Second Number		Thrid Number		Fourth Number	
Stem		Disc		Seat		Packing	
Code	Material	Code	Material	Code	Material	Code	Material
4	Monel K500	1	B148 C95200	1	EPDM	AA	Graphite
5	17-4PH	2	CF8	2	NBR	AB	PTFE
9	F51	C	CF3M	3	BUNA-N	-	-
D	F53	4	MONEL	4	VITON	-	-
G	F55	5	QAL9-4	5	PTFE	-	-
L	A479 431	6	WCB-Ni	6	NEOPRENE	-	-
P	F321H	7	B148 C95800	7	HYPALON	-	-
R	A638 660	D	CF3	8	316+PTFE	-	-
-	-	H	A995 5A	J	F51 + PTFE	-	-
-	-	V	A995 4A	R	RPTFE	-	-
-	-	-	-	U	316L + RPTFE	-	-

Notes: other materials upon request.

Industrial valves normally require wider temperature and pressure ranges, which conventional resilient seated butterfly valve can not comply, this have led to development of high performance butterfly valve. NEWAY Double offset series butterfly valve is double off-set design which has an advantage of light weight, compact design, cost effective and low operation torque .



Products Range:

Size:	2" ~ 120"
Rating:	ANSI Class 150 ~ Class 600
BodyMaterials:	Carbon steel,Stainless steel, Alloy Steel, Duplex steel
Seat	NBR,EPDM,VITON ,PTFE,RPTFE
End Connection:	Wafer, Lug, Double Flange



The double offset shaft and disc arrangement provides camming action to the disc which disengages from the seat at minimal rotation. This design minimizes wear points at the top and bottom of the seat typical with conventional butterfly valves.

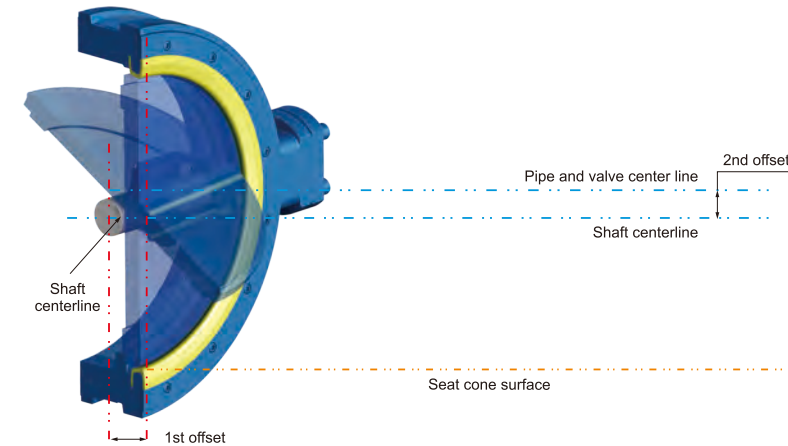
Typical Application:

- Petrochemical plant
- Refinery
- Offshore platform
- Power plant
- LNG
- Steel Mills
- Commercial
- Pulp and Paper
- Hydrocarbon Processing
- Industrial

Double Offset Frictionless Design

1st offset: Shaft is positioned downstream of the centerline of the seat.

2nd offset: Shaft is off center of the vertical axis of the seat.



Seat Structure

1. Double Offset PTFE Seat Butterfly Valve

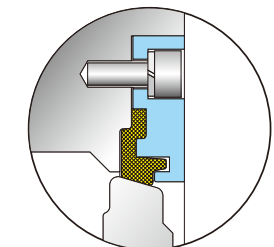
A surplus between PTFE Seat and Disc ensures the seal in low pressure. The force of medium always pushes seat contacting to sealing surface and becomes more reliable in high pressure. The disc surface is a sphere design to reduce frictional force, and the valve seat can be replaced easily.

2. Double Offset Fire Safe PTFE Butterfly Valve

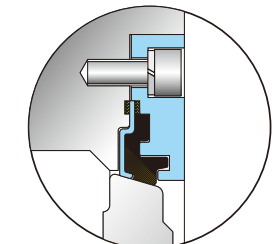
Fire Safe valve Seat with dual seal including primary PTFE seat insert and metal seat. In the event that the PTFE insert is destroyed, the secondary metal seat provides effective shut-off. The DOV fire safe certificate approved by Lloyd's Register.

3. Double offset Rubber Seat Butterfly Valve

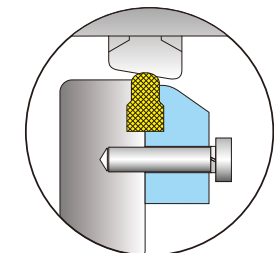
A variety of rubber seat, to meet the needs of a larger size. The disc surface is designed into sphere type to reducing contacting area and frictional force which extends the usage life. Valve seat can be replaced or recharge easily.



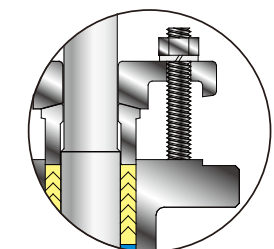
PTFE/RPTFE



PTFE FIRE



RUBBER



Externally retained

Shaft Retention

Externally retained, double blowout proof stem design as API 609.

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

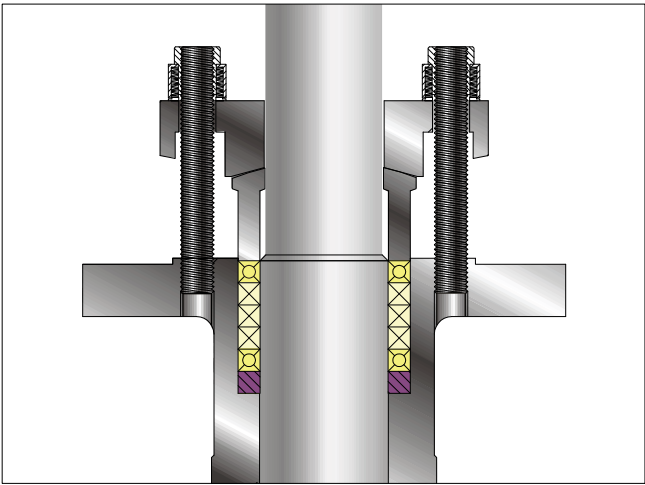
Zero Leakage

Disc-Seat sealing is 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.

Design Feature

Low Emission Shaft Seal

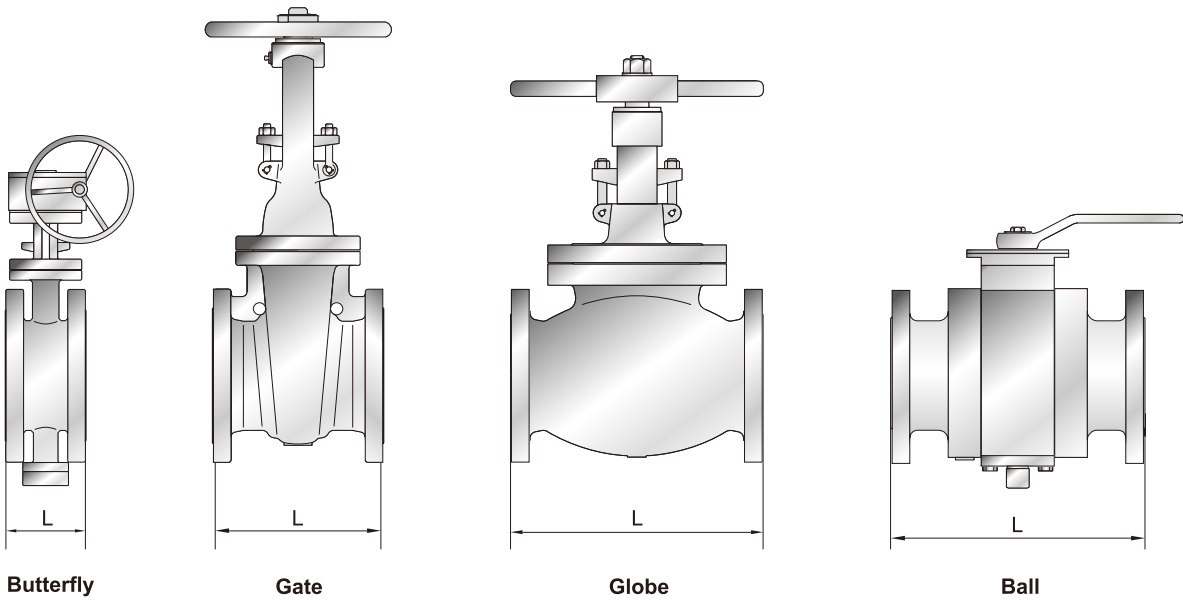
- Neway standard emission control is 20 PPM
- a.) Shaft is fully guided by shaft bearing & gland follower to avoid any side load due to line pressure thrust.
 - b.) The packing set is pre-compressed and is a combination of braided graphite rings top and bottom with die formed flexible graphite rings between.
 - c.) Controlled Ra0.4 ~ Ra0.8 finish on the shaft and Ra1.6 on the Stuffing box provides optimum packing and shaft sealing Performance.
 - d.) Optional Live Loaded gland flange is available to provide constant packing compression to reduce fugitive emission from shaft seal.
 - e.) Optional shaft seal design per Shell MESC 77/312 & TA-Luft is also available upon request.



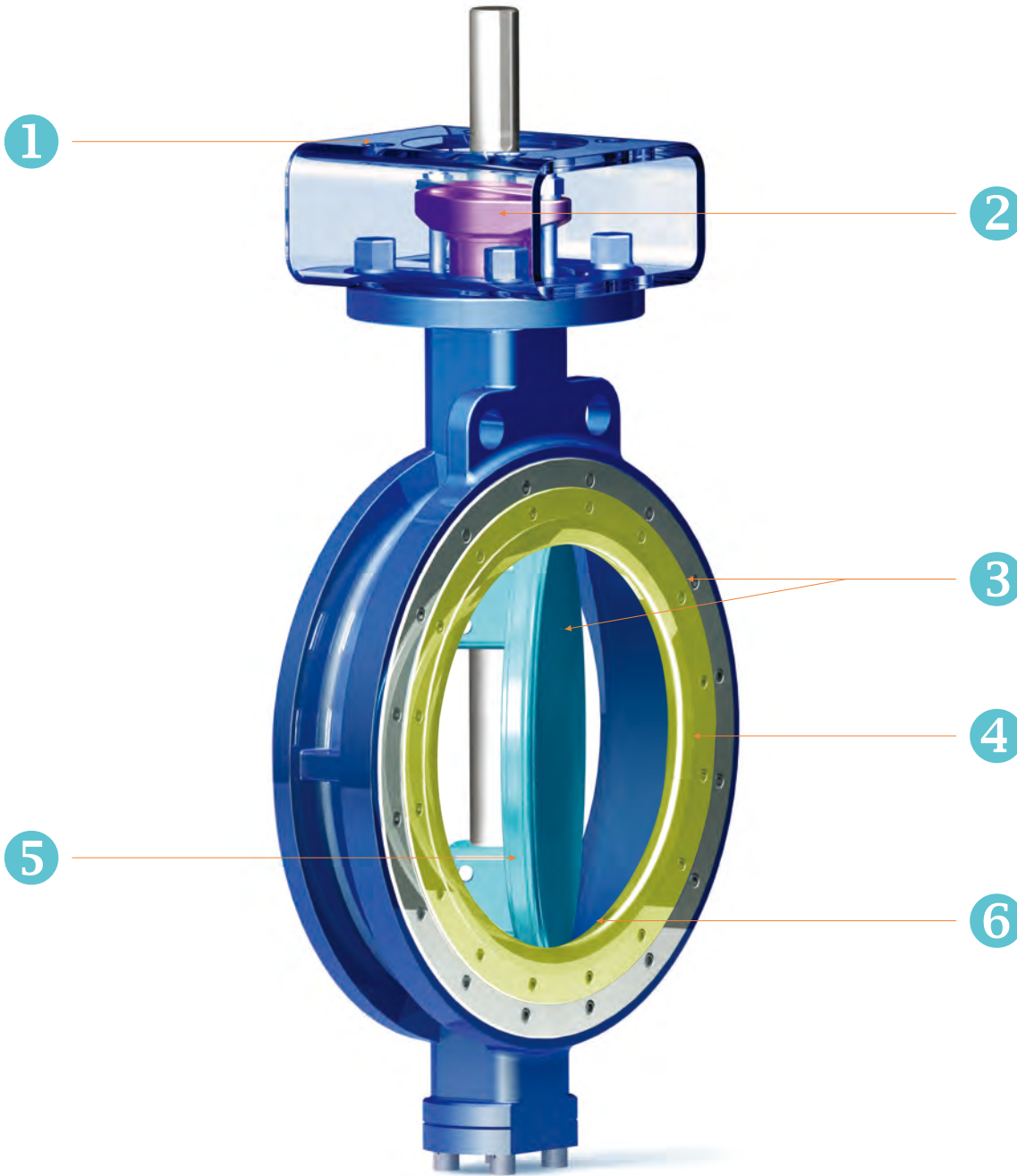
Compact & light Design

NEWAY Double offset butterfly valve is designed as API 609, due to its compact & light design, it is an economical substitute for gate, globe and ball valves. Below is a comparison table based on a NEWAY 6" valve.

Class	150				300				600			
Valve Type	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)	21	77	100	190	34	144	168	211	87	234	284	248



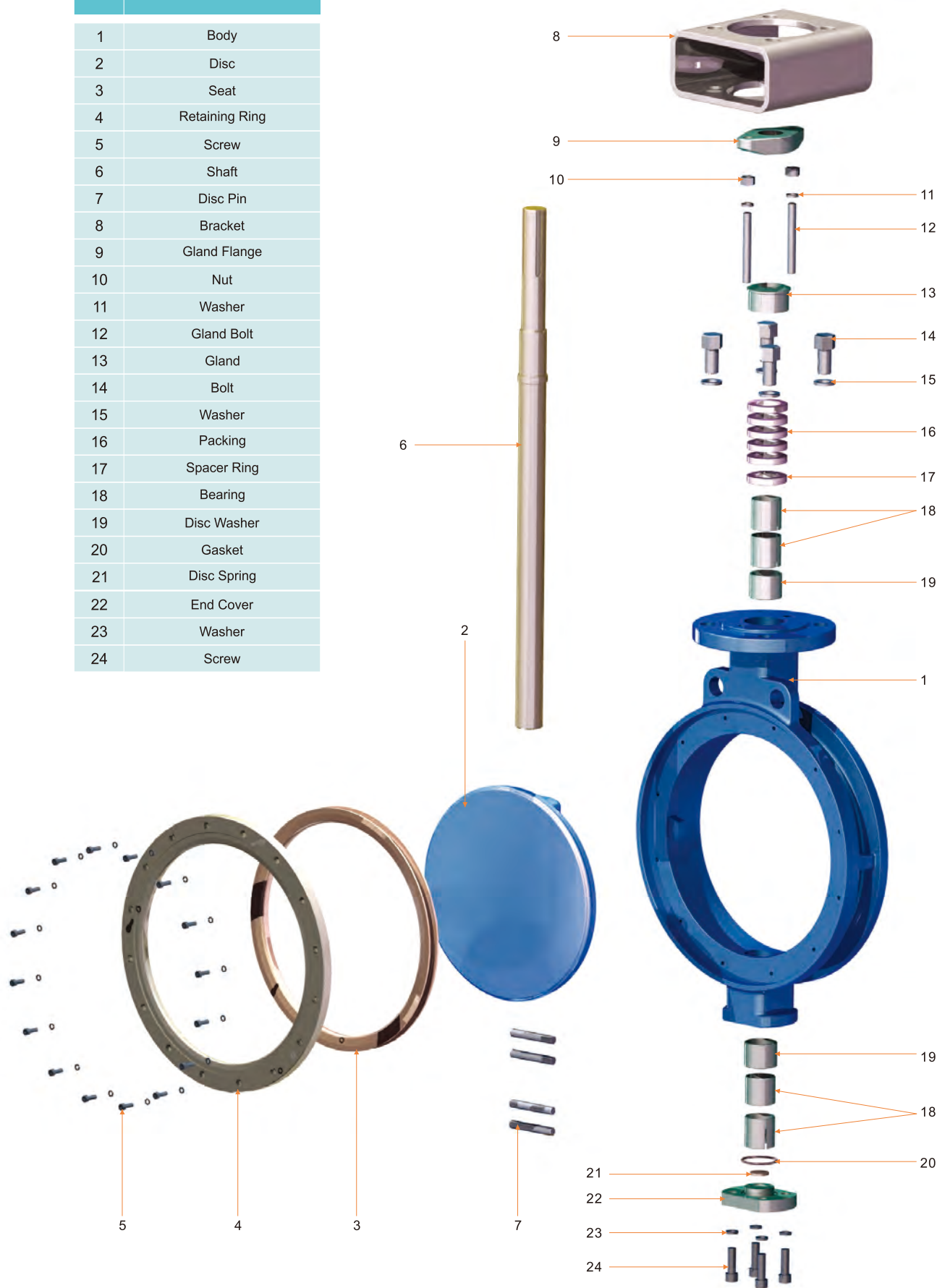
Design Feature



- 1 ISO 5211 Top Flange.
- 2 In addition to durable, standard V-ring packing, you can also choose from optional. graphite high-temperature packing or emissions control design.
- 3 Bi-Directional, Shut off performance.
- 4 Optional seat: Rubber, PTFE, RPTFE, Fire Safe PTFE.
- 5 Long life durability of double offset operating principal minimize seat wear & lower operating torques.
- 6 Positive sealing which is mechanically achieved and does not rely on line pressure assistant.

Material Specifications

No	Part
1	Body
2	Disc
3	Seat
4	Retaining Ring
5	Screw
6	Shaft
7	Disc Pin
8	Bracket
9	Gland Flange
10	Nut
11	Washer
12	Gland Bolt
13	Gland
14	Bolt
15	Washer
16	Packing
17	Spacer Ring
18	Bearing
19	Disc Washer
20	Gasket
21	Disc Spring
22	End Cover
23	Washer
24	Screw

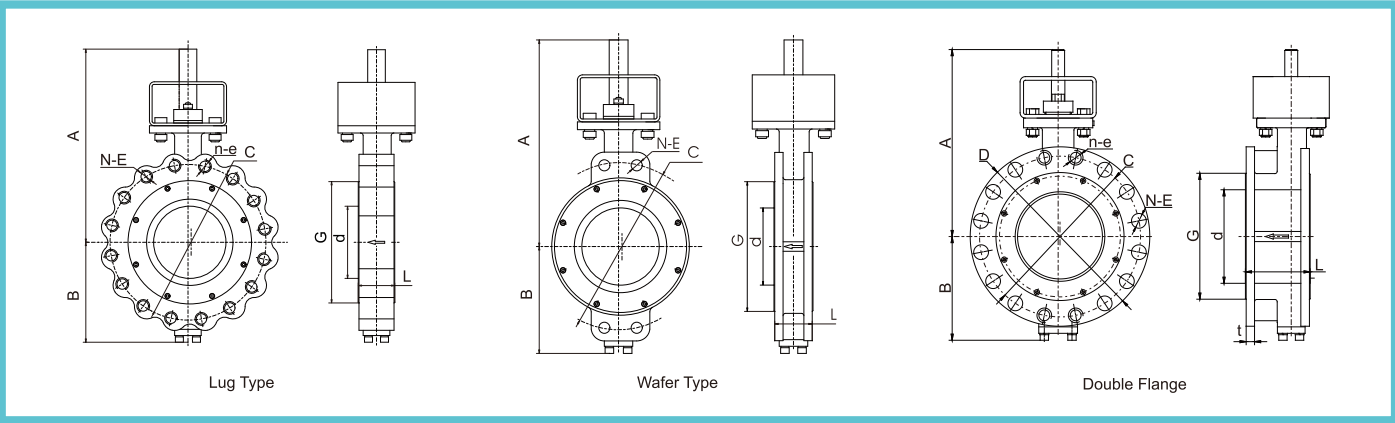


Material Specifications

No	Part	Standard	Stainless steel
1	Body	ASTM A216-WCB	ASTM A351-CF8M
2	Disc	ASTM A351-CF8M	ASTM A351-CF8M
3	Seat	PTFE / RPTFE / NBR	PTFE / RPTFE / NBR / EPDM
4	Retaining Ring	ASTM A105N	ASTM A182-F316
5	Screw	S.S.	S.S.
6	Shaft	17-4PH	F51
7	Disc Pin	17-4PH	F51
8	Bracket	Carbon Steel	Carbon Steel
9	Gland Flange	ASTM A216-WCB	ASTM A351-CF8
10	Nut	ASTM A194-2H	ASTM A194-8
11	Washer	Carbon Steel	S.S.
12	Gland Bolt	ASTM A193-B7	ASTM A193-B8
13	Gland	ASTM A182-F316	ASTM A182-F316
14	Bolt	ASTM A193-B7	ASTM A193-B8
15	Washer	Carbon Steel	S.S.
16	Packing	PTFE / Graphite / NBR	PTFE / Graphite / NBR
17	Spacer Ring	ASTM A182-F316	ASTM A182-F316
18	Bearing	ASTM A182-F316L with PTFE / Graphite	ASTM A182-F316L with PTFE / Graphite
19	Disc Washer	ASTM A182-F316	ASTM A182-F316
20	Gasket	PTFE / Graphite / NBR	PTFE / Graphite / NBR
21	Disc Spring	PTFE / 316	PTFE / 316
22	End Cover	ASTM A105N.	ASTM A182-F316
23	Washer	Carbon Steel	S.S.
24	Screw	ASTM A193-B7	ASTM A193-B8

Double offset Butterfly Valve

Dimensions & Weights



Class 150 LUG TYPE

Size		d		G		C		N	E	n	e	L		A		B		Weight	
in	mm	mm	in	mm	in	mm	in					mm	in	mm	in	mm	in	Kg	Lbs
2	50	51	2.01	92	3.62	120.7	4.75	4	5/8-11	*	*	43	1.69	194	7.64	62.50	2.46	6	12.79
3	80	86	3.39	127	5.00	152.5	6.00	4	5/8-11	*	*	48	1.89	182	7.16	80	3.15	9	19.40
4	100	110	4.33	157	6.18	190.5	7.50	8	5/8-11	*	*	54	2.13	200	7.80	100	3.94	12	26.01
5	125	131	5.16	186	7.32	216	8.50	8	3/4-10	*	*	57	2.24	252	9.92	119	4.69	16	34.83
6	150	156	6.14	216	8.50	241.5	9.51	8	3/4-10	*	*	57	2.24	280	11.02	135	5.31	14	30.86
8	200	203	7.99	270	10.63	298.5	11.75	8	3/4-10	*	*	64	2.52	310	12.20	190	7.48	32	69.44
10	250	254	10.00	324	12.76	362	14.25	12	7/8-9	*	*	71	2.80	354	13.94	250	9.84	48	104.72
12	300	305	12.01	381	15.00	432	17.01	12	7/8-9	*	*	81	3.19	373	14.68	290	11.42	70	153.22
14	350	337	13.27	413	16.26	476	18.74	12	1-8	*	*	92	3.62	525	20.67	300	11.81	102	224.87
16	400	387	15.24	470	18.50	539.5	21.24	16	1-8	*	*	102	4.02	550	21.65	340	13.39	144	317.46
18	450	438	17.24	533	20.98	578	22.76	16	1-1/8-8	*	*	114	4.49	637	25.08	380	14.96	188	414.46
20	500	489	19.25	584	22.99	635	25.00	16	1-1/8-8	4	1-1/8-8	127	5.00	720	28.35	390	15.35	244	537.92
24	600	591	23.27	692	27.24	749.5	29.51	16	1-1/4-8	4	1-1/4-8	154	6.06	797	31.38	470	18.50	378	833.33
28	700	692	27.24	762	30.00	795	31.30	36	3/4-10	4	3/4-10	165	6.50	875	34.45	470	18.50	486	1071.43
30	750	743	29.25	813	32.01	846	33.31	37	3/4-10	7	3/4-10	190	7.48	945	37.20	517	20.35	655	1444.00
32	800	781	30.75	864	37.95	900	35.43	41	3/4-10	7	3/4-10	190	7.48	1000	39.37	537	21.14	755	1664.46
36	900	876	34.49	972	38.27	1010	39.76	39	7/8-9	5	7/8-9	203	7.99	1051	41.38	610	24.02	820	1807.76
40	1000	976	38.42	1080	42.52	1120.5	44.11	40	1-8	4	1-8	216	8.50	1074	42.28	684	26.93	1054	2324.07
48	1200	1168	45.98	1289	50.74	1335	52.56	39	1-1/8-8	5	1-1/8-8	254	10.00	1247	49.09	800	31.50	1849	4077.05

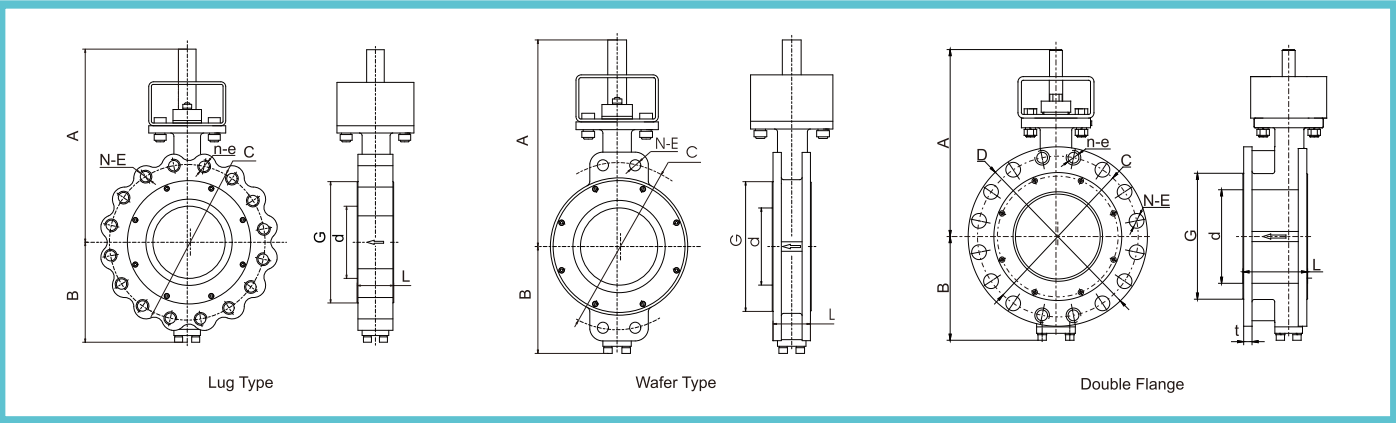
Class 150 WAFER TYPE

Size		d		G		C		N	E	L		A		B		Weight	
in	mm	mm	in	mm	in	mm	in			mm	in	mm	in	mm	in	Kg	Lbs
2	50	51	2.01	92	3.62	120.7	4.75	2	ϕ19	43	1.69	160	6.30	80	3.15	4	8.38
3	80	86	3.39	127	5.00	152.5	6.00	2	ϕ19	48	1.89	180	7.09	80	3.15	7	14.99
4	100	110	4.33	157	6.18	190.5	7.50	2	ϕ19	54	2.13	200	7.87	100	3.94	10	21.60
5	125	131	5.16	186	7.32	216	8.50	2	ϕ22	57	2.24	235	9.25	119	4.69	14	30.42
6	150	156	6.14	216	8.50	241.5	9.51	2	ϕ22	57	2.24	252	9.92	135	5.31	11	24.25
8	200	203	7.99	270	10.63	298.5	11.75	2	ϕ22	64	2.52	293	11.54	190	7.48	25	54.01
10	250	254	10.00	324	12.76	362	14.25	2	ϕ25	71	2.80	337	13.27	250	9.84	39	84.88
12	300	305	12.01	381	15.00	432	17.01	2	ϕ25	81	3.19	373	14.69	290	11.42	51	111.33
14	350	337	13.27	413	16.26	476	18.74	2	ϕ29	92	3.62	521	20.51	300	11.81	80	176.37
16	400	387	15.24	470	18.50	539.5	21.24	4	ϕ29	102	4.02	555	21.85	340	13.39	104	229.28
18	450	438	17.24	533	20.98	578	22.76	4	ϕ32	114	4.49	620	24.41	380	14.96	153	337.30
20	500	489	19.25	584	22.99	635	25.00	4	1-1/8	127	5.00	673	26.50	390	15.35	192	423.28
24	600	591	23.27	692	27.24	749.5	29.51	4	1-1/4-8	154	6.06	772	30.39	470	18.50	288	634.92
28	700	692	27.24	762	30.00	795	31.30	4	ϕ22	165	6.50	935	36.81	485	19.09	340	749.56
								4	3/4-10								
30	750	743	29.25	813	32.01	846	33.31	2	ϕ22	190	7.48	993	39.09	517	20.35	510	1124.34
								6	3/4-10								
32	800	781	30.75	964	37.95	900	35.43	1	ϕ22	190	7.48	1000	39.37	537	21.14	595	1311.73
								7	3/4-10								
36	900	876	34.49	972	38.27	1010	39.76	8	7/8-9	203	7.99	1113	43.80	610	24.02	680	1499.12
								4	ϕ29								
40	1000	976	38.42	1080	42.52	1120.5	44.11	4	1-8	216	8.50	1220	48.03	684	26.93	1054	1973.48
								4	1-8								
48	1200	1168	45.98	1289	50.74	1335	52.56	3	ϕ32	254	10.00	1370	53.94	800	31.50	1849	3397.91
								5	1-1/8-8								

Note: 1. Flange Dimensions of 26" and large size are according to ASME B16.47 B Series.

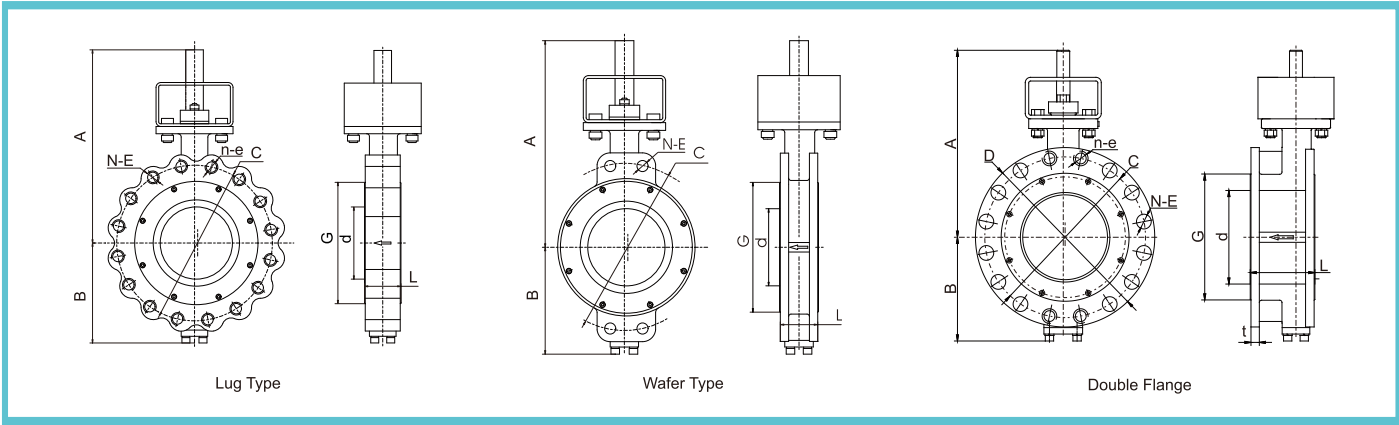
Dimensions & Weights

Double offset Butterfly Valve



Class 150 DOUBLE FLANGE

Size	d		D		G		C		N	E	n	e	L		t		A		B		Weight		
in	mm	mm	in	mm	in	mm	in						mm	in	mm	in	mm	in	mm	in	Kg	Lbs	
2	50	51	2.01	150	5.91	92	3.62	120.7	4.75	4	ϕ 19	*	*	108	4.25	19	0.75	194	7.64	62.50	2.46	8	17.20
3	80	86	3.39	190	7.48	127	5.00	152.5	6.00	4	ϕ 19	*	*	114	4.49	24	0.94	182	7.16	80	3.15	12	26.01
4	100	110	4.33	230	9.06	157	6.18	190.5	7.50	4	ϕ 19	4	5-8/11	127	5.00	24	0.94	200	7.80	100	3.94	16	34.61
5	125	131	5.16	255	10.04	186	7.32	216	8.50	4	ϕ 22	4	3-4/10	140	5.51	24	0.94	252	9.92	119	4.69	21	46.08
6	150	156	6.14	280	11.02	216	8.50	241.5	9.51	4	ϕ 22	4	3-4/10	140	5.51	25.4	1.00	280	11.02	135	5.31	21	46.30
8	200	203	7.99	345	13.58	270	10.63	298.5	11.75	4	ϕ 22	4	3-4/10	152	5.98	28.6	1.13	310	12.20	190	7.48	54	117.95
10	250	254	10.00	405	15.94	324	12.76	362	14.25	8	ϕ 25	4	7/8-9	165	6.50	30	1.18	354	13.94	250	9.84	82	181.00
12	300	305	12.01	485	19.09	381	15.00	432	17.01	8	ϕ 25	4	7/8-9	178	7.01	32	1.26	373	14.68	290	11.42	136	298.94
14	350	337	13.27	535	21.06	413	16.26	476	18.74	8	ϕ 29	4	1-8	190	7.48	35	1.38	525	20.67	300	11.81	151	332.23
16	400	387	15.24	595	23.43	470	18.50	539.5	21.24	12	ϕ 29	4	1-8	216	8.50	36.6	1.44	550	21.65	340	13.39	213	469.80
18	450	438	17.24	635	25.00	533	20.98	578	22.76	12	ϕ 32	4	1-1/8-8	222	8.74	39.7	1.56	637	25.08	380	14.96	313	690.04
20	500	489	19.25	700	27.56	584	22.99	635	25.00	16	ϕ 32	4	1-1/8-8	229	9.02	43	1.69	720	28.35	390	15.35	386	850.97
24	600	591	23.27	815	32.09	692	27.24	749.5	29.51	16	ϕ 35	4	1-1/4-8	267	10.51	47.7	1.88	797	31.38	470	18.50	552	1216.93
28	700	692	27.24	837	32.95	762	30.00	795	31.30	34	ϕ 22	6	1/4	292	11.50	44.5	1.75	875	34.45	470	18.50	578	1274.25
30	750	743	29.25	887	34.92	813	32.01	846	33.31	37	ϕ 22	7	3/4-10	318	12.52	44.5	1.75	945	37.20	517	20.35	798	1759.26
32	800	781	30.75	941	37.05	864	37.95	900	35.43	40	ϕ 22	8	3/4-10	318	12.52	46	1.81	1000	39.37	537	21.14	929	2048.06
36	900	876	34.49	1057	41.61	972	38.27	1010	39.76	39	ϕ 25	5	7/8-9	330	12.99	52	2.05	1051	41.38	610	24.02	1015	2237.65
40	1000	976	38.42	1175	46.25	1080	42.52	1120.5	44.11	37	ϕ 29	7	1-8	410	16.14	55.6	2.19	1074	42.28	684	26.93	1441	3177.41
48	1200	1168	45.98	1392	54.81	1289	50.74	1335	52.56	40	ϕ 32	4	1-1/8-8	470	18.50	65	2.56	1247	49.09	800	31.50	2502	5516.91



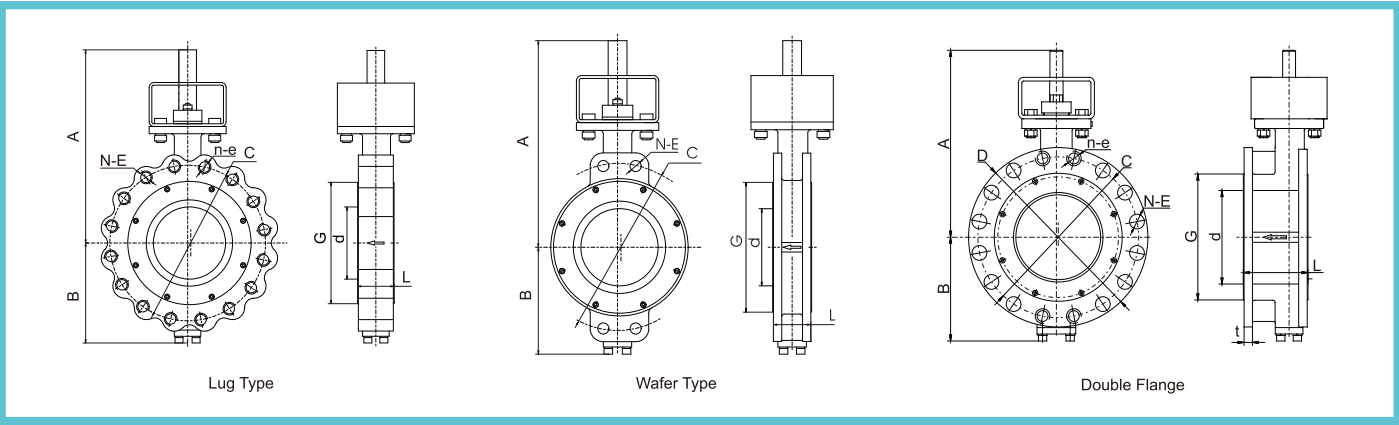
Class 300 WAFER TYPE

Size		d		G		C		N	E	L		A		B		Weight	
in	mm	mm	in	mm	in	mm	in			mm	in	mm	in	mm	in	Kg	Lbs
2	50	44	1.73	92	3.62	127	5.00	2	ø19	43	1.69	151	5.94	80	3.15	6	12.79
3	80	86	3.39	127	5.00	168.5	6.63	2	ø22	48	1.89		7.44	88	3.86	9	20.17
4	100	110	4.33	157	6.18	200	7.87	2	ø22	54	2.13		8.19	110	4.33	11	25.24
5	125	127	5.00	186	7.32	235	9.25	2	ø22	59	2.32	233	9.17	128	5.04	14	29.76
6	150	152	5.98	216	8.50	269.9	9.51	2	ø22	59	2.32		9.92	149	5.87	18	38.58
8	200	203	7.99	270	10.63	330	12.99	4	ø25	73	2.87	321	12.64	235	9.25	33	71.65
10	250	254	10.00	324	12.76	387	15.24	4	1-8	83	3.27	393	15.47	290	11.42	26	57.32
12	300	305	12.01	381	15.00	451	17.76	4	1-1/8-8	92	3.62	433	17.04	305	12.01	40	88.18
14	350	337	13.27	413	16.26	514.5	20.26	4	1-1/8-8	117	4.61	622	24.49	348	13.70	125	275.57
16	400	388	15.28	470	18.50	571.5	22.50	4	1-1/4-8	133	5.24	718	28.27	365	14.37	139	306.44
18	450	432	17.01	533	20.98	628.5	24.74	4	1-1/4-8	149	5.87	745	29.33	415	16.34	252	555.56
20	500	483	19.02	584	22.99	686	27.01	4	1-1/4-8	159	6.26	864	34.02	430	16.93	284	626.10
24	600	584	22.99	692	27.24	813	32.01	4	1-1/2-8	181	7.13	929	36.58	501	19.72	509	1122.13

Class 300 DOUBLE FLANGE

Size		d		D		G		C		N	E	n	e	L		t		A		B		Weight	
in	mm	mm	in	mm	in	mm	in	mm	in					mm	in	mm	in	mm	in	mm	in	Kg	Lbs
2	50	44	1.73	165	6.50	92	3.62	127		4	ø19	4	5/8-11	108	4.25	22.3	0.88	151	5.94	80	3.15	13	28.22
3	80	86	3.39	210	8.27	127	5.00	168.5	6.63	4	ø22	4	3/4-10	114	4.49	28.5	1.12		7.44	88	3.86	17	37.48
4	100	110	4.33	255	10.04	157	6.18	200	7.87	4	ø22	4	3/4-10	127	5.00	31.8	1.25		8.19	110	4.33	21	46.08
5	125	127	5.00	280	11.02	186	7.32	235	9.25	4	ø22	4	3/4-10	140	5.51	35	1.38	233	9.17	128	5.04	28	60.63
6	150	152	5.98	320	12.60	216	8.50	269.9	9.51	8	ø22	4	3/4-10	140	5.51	36.6	1.44		9.92	149	5.87	34	74.96
8	200	203	7.99	380	14.96	270	10.63	330	12.99	8	ø25	4	7/8-9	152	5.98	41.2	1.62	321	12.64	235	9.25	63	138.45
10	250	254	10.00	445	17.52	324	12.76	387	15.24	12	ø29	4	1-8	165	6.50	47.8	1.88	393	15.47	290	11.42	73	160.27
12	300	305	12.01	520	20.47	381	15.00	451	17.76	12	ø32	4	1-1/8-8	178	7.01	50.8	2.00	433	17.04	305	12.01	108	237.21
14	350	337	13.27	584	22.99	413	16.26	514.5	20.26	16	ø32	4	1-1/8-8	190	7.48	53.9	2.12	622	24.49	348	13.70	264	581.13
16	400	388	15.28	648	25.51	470	18.50	571.5	22.50	16	ø35	4	1-1/4-8	216	8.50	57.2	2.25	718	28.27	365	14.37	335	739.20
18	450	432	17.01	711	27.99	533	20.98	628.5	24.74	20	ø35	4	1-1/4-8	222	8.74	60.5	2.38	745	29.33	415	16.34	533	1173.94
20	500	483	19.02	775	30.51	584	22.99	686	27.01	20	ø35	4	1-1/4-8	229	9.02	63.5	2.50	864	34.02	430	16.93	674	1485.01
24	600	584	22.99	914	35.98	692	27.24	813	32.01	20	ø41	4	1-1/2-8	267	10.51	69.9	2.75	929	36.58	501	19.72	1121	2471.34

Note: 1. Flange Dimensions of 26" and large size are according to ASME B16.47 B Series.



Class 600 LUG TYPE

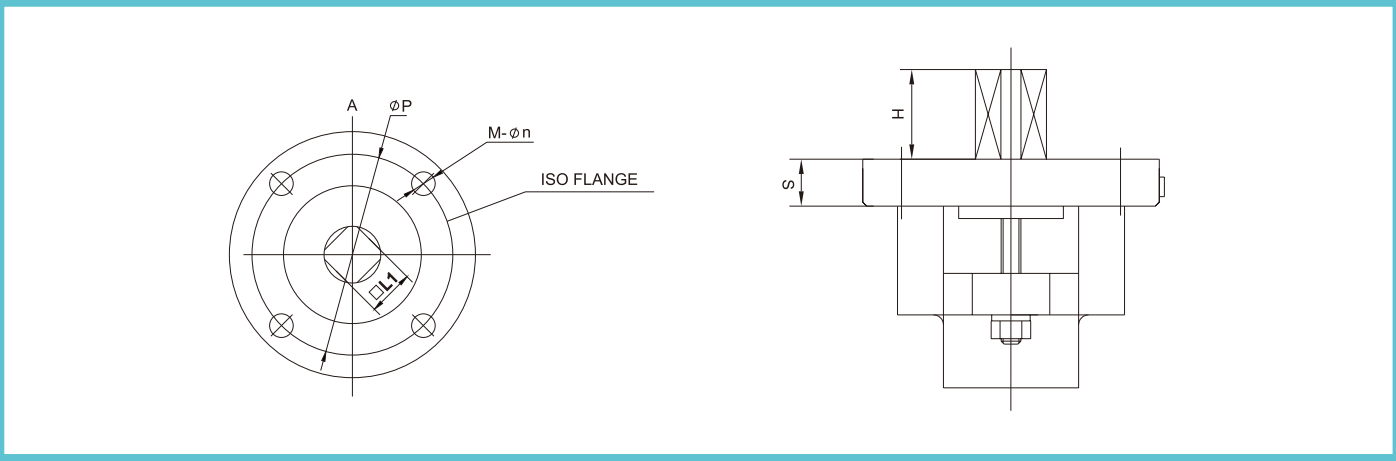
Size		d		G		C		N	E	n	e	L		A		B		Weight	
in	mm	mm	in	mm	in	mm	in					mm	in	mm	in	mm	in	Kg	Lbs
3	80	88	3.46	127	5.00	168	6.61	8	3/4-10	*	*	54	2.05	231	9.09	102	4.02	14	30.87
4	100	114	4.49	157	6.18	216	8.50	8	7/8-9	*	*	64	2.52	269	10.59	124	4.88	35	77.18
6	150	164	6.46	216	8.50	292	11.50	10	1-8	2	1-8	78	3.07	394	15.51	166	6.54	70	154.35
8	200	200	7.87	270	10.63	349	13.74	8	1-1/8-8	4	1-1/8-8	102	4.02	529	20.83	256	10.08	90	198.45
10	250	248	9.76	324	12.76	432	17.01	12	1-1/4-8	4	1-1/4-8	117	4.61	611	24.06	309	12.17	162	357.21
12	300	298.5	11.75	381	15.00	489	19.25	16	1-1/4-8	4	1-1/4-8	140	5.51	675	26.57	348	13.70	218	480.69

Class 600 WAFER TYPE

Size		d		G		C		N	E	L		A		B		Weight	
in	mm	mm	in	mm	in	mm	in			mm	in	mm	in	mm	in	Kg	Lbs
3	80	88	3.46	127	5.00	168	6.61	4	3/4-10	54	2.05	231	9.09	102	4.02	11	24.26
4	100	114	4.49	157	6.18	216	8.50	4	7/8-9	64	2.52	269	10.59	124	4.88	20	44.10
6	150	164	6.46	216	8.50	292	11.50	4	1-8	78	3.07	394	15.51	166	6.54	50	110.25
8	200	200	7.87	270	10.63	349	13.74	4	1-1/8-8	102	4.02	529	20.83	256	10.08	70	154.35
10	250	248	9.76	324	12.76	432	17.01	4	1-1/4-8	117	4.61	611	24.06	308	12.13	112	246.96
12	300	298.5	11.75	381	15.00	489	19.25	4	1-1/4-8	140	5.51	675	26.57	348	13.70	163	359.42

Class 600 DOUBLE FLANGE

Size		d		D		G		C		N	E	n	e	L		t		A		B		Weight	
in	mm	mm	in	mm	in	mm	in	mm	in					mm	in	mm	in	mm	in	mm	in	Kg	Lbs
3	80	88	3.46	210	8.27	127	5.00	168	6.61	4	ø22	4	3/4-10	180	7.09	38.2	1.50	231	9.09	102	4.02	24	52.92
4	100	114	4.49	273	10.75	157	6.18	216	8.50	8	ø25	*	*	190	7.48	44.5	1.75	269	10.59	124	4.88	49	108.05
6	150	164	6.46	356	14.02	216	8.50	292	11.50	10	ø29	2	1-8	210	8.27	54.1	2.13	394	15.51	166	6.54	100	220.50
8	200	200	7.87	419	16.50	270	10.63	349	13.74	8	ø32	4	1-1/8-8	230	9.06	62	2.44	529	20.83	256	10.08	126	277.83
10	250	248	9.76	508	20.00	324	12.76	432	17.01	12	ø35	4	1-1/4-8	250	9.84	69.9	2.75	611	24.06	309	12.17	220	485.10
12	300	298.5	11.75	559	22.01	381	15.00	489	19.25	16	ø35	4	1-1/4-8	270	10.63	73.1	2.88	675	26.57	348	13.70	305	672.53

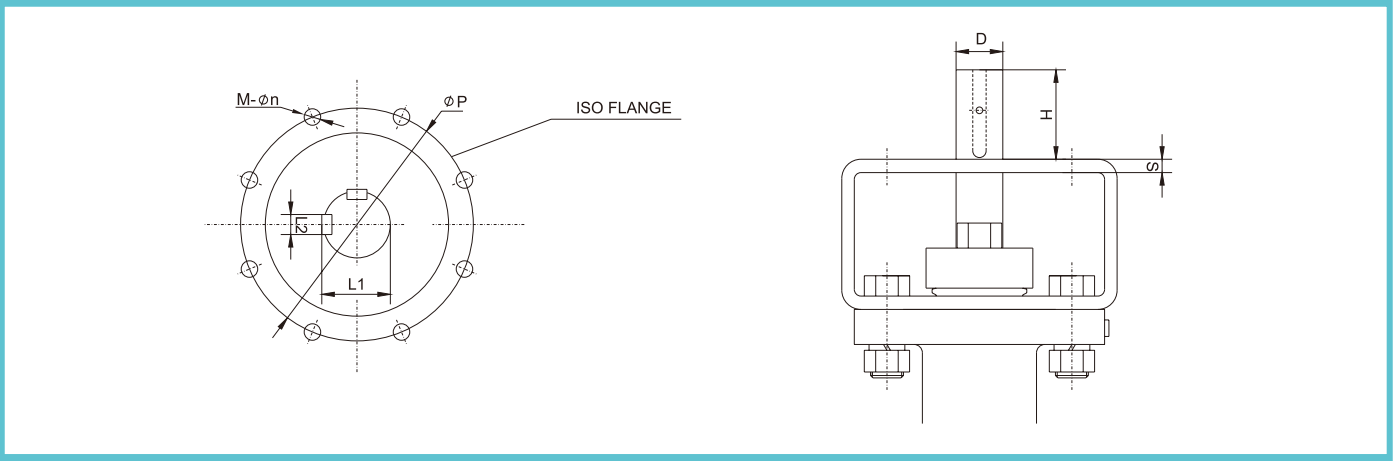


Class 150

Size		H		S		ISO	L1		P		M-n
in	mm	mm	in	mm	in		mm	in	mm	in	
2	50	19	0.74	11	0.43	F07	11	0.43	70	2.76	4-9.5
3	80	19	0.74	13	0.51	F10	14	0.55	102	4.02	4-11
4	100		0.75	13	0.51	F10	17	0.67	102	4.02	4-11
5	125	21	0.83	13	0.51	F10	19	0.75	102	4.02	4-11
6	150	21	0.83	13	0.51	F10	19	0.75	102	4.02	4-11
8	200	24	0.94	15	0.59	F12	22	0.87	125	4.92	4-14
10	250	29	1.14	15	0.59	F12	27	1.06	125	4.92	4-14
12	300	29	1.14	20	0.79	F14	27	1.06	140	5.51	4-18

Class 300

Size		H		S		ISO	L1		P		M-n
in	mm	mm	in	mm	in		mm	in	mm	in	
3	80	16	0.63	13	0.51	F10	14	0.55	102	4.02	4-11
4	100	20	0.79	13	0.51	F10	17	0.67	102	4.02	4-11
5	125	25	0.98	13	0.51	F10	19	0.75	102	4.02	4-11
6	150	25	0.98	13	0.51	F10	19	0.75	102	4.02	4-11
8	200	35	1.38	15	0.59	F12	27	1.06	125	4.92	4-14
10	250	35	1.38	25	0.98	F16	32	1.26	165	6.50	4-22
12	300	40	1.57	25	0.98	F16	36	1.42	165	6.50	4-22



Class 150

Size		D		H		S		L1		L2		ISO	P		M-n
in	mm	mm	in	mm	in	mm	in	mm	in	mm	in		mm	in	
14	350	35	1.38	99	3.90	10	0.39	38	1.50	10	0.39	F16	165	6.50	4-22
16	400	40	1.57	99	3.90	10	0.39	43	1.69	12	0.47	F16	165	6.50	4-22
18	450	46	1.81	99	3.90	10	0.39	49.5	1.95	14	0.55	F25	254	10.00	8-18
20	500	50	1.97	115	4.53	12	0.47	53.5	2.11	14	0.55	F25	254	10.00	8-18
24	600	60	2.36	130	5.12	12	0.47	64	2.52	18	0.71	F25	254	10.00	8-18
28	700	75	2.95	185	7.28	12	0.47	79.5	3.13	20	0.79	F30	298	11.73	8-22
30	750	80	3.15	185	7.28	12	0.47	85	3.35	22	0.87	F30	298	11.73	8-22
32	800	85	3.35	185	7.28	12	0.47	90	3.54	22	0.87	F30	298	11.73	8-22
36	900	90	3.54	190	7.48	40	1.57	95	3.74	25	0.98	F35	356	14.02	8-33
40	1000	100	3.94	210	8.27	40	1.57	106	4.17	28	1.10	F35	356	14.02	8-33
48	1200	120	4.72	235	9.25	50	1.97	127	5.00	32	1.26	F40	406	15.98	8-39

Class 300

Size		D		H		S		L1		L2		ISO	P		M-n
in	mm	mm	in	mm	in	mm	in	mm	in	mm	in		mm	in	
14	350	50	1.97	84	3.31	12	0.47	53.5	2.11	14	0.55	F25	254	10.00	8-18
16	400	55	2.17	118	4.65	12	0.47	59	2.32	16	0.63	F25	254	10.00	8-18
18	450	60	2.36	125	4.92	12	0.47	64	2.52	18	0.71	F25	254	10.00	8-18
20	500	70	2.76	160	6.30	12	0.47	74.5	2.93	20	0.79	F30	298	11.73	8-22
24	600	80	3.15	185	7.28	12	0.47	85	3.35	22	0.87	F30	298	11.73	8-22

Class 600

Size		D		H		S		L1		L2		ISO	P		M-n
in	mm	mm	in	mm	in	mm	in	mm	in	mm	in		mm	in	
3	80	25	0.98	30	1.18	8	0.31	28	1.10	8	0.31	F10	102	4.02	4-11
4	100	28	1.10	40	1.57	8	0.31	31	1.22	8	0.31	F10	102	4.02	4-11
6	150	35	1.38	60	2.36	10	0.39	38	1.50	10	0.39	F12	125	4.92	4-14
8	200	40	1.57	95	3.74	10	0.39	43	1.69	12	0.47	F16	165	6.50	4-22
10	250	50	1.97	105	4.13	12	0.47	53.5	2.11	14	0.55	F16	165	6.50	4-22
12	300	60	2.36	125	4.92	12	0.47	64	2.52	18	0.71	F25	254	10.00	8-18

Class 150

Valve Size		Disc Opening Angle								
inch	mm	10°	20°	30°	40°	50°	60°	70°	80°	90°
3	80	3	13	21	30	47	68	96	137	182
4	100	7	30	49	69	110	159	225	319	425
6	150	17	75	124	176	278	402	571	809	1078
8	200	33	144	237	336	531	768	1092	1545	2060
10	250	62	272	446	632	1001	1447	2056	2910	3880
12	300	89	388	637	903	1429	2066	2936	4155	5540
14	350	113	496	814	1154	1827	2641	3752	5310	7080
16	400	136	595	978	1386	2193	3171	4505	6375	8500
18	450	183	799	1313	1861	2946	4260	6053	8565	11420
20	500	253	1106	1817	2575	4076	5893	8374	11850	15800
24	600	355	1554	2553	3619	5728	8281	11766	16650	22200
28	700	472	2065	3393	4809	7611	11004	15635	22125	29500
30	750	621	2717	4464	6328	10016	14480	20575	29115	38820
32	800	691	3024	4968	7042	11146	16114	22896	32400	43200
36	900	845	3696	6072	8606	13622	19694	27984	39600	52800
40	1000	1098	4802	7889	11182	17699	25588	36358	51450	68600
42	1050	1408	6160	10120	14344	22704	32824	46640	66000	88000
48	1200	1728	7560	12420	17604	27864	40284	57240	81000	108000

Class 300

Valve Size		Disc Opening Angle								
inch	mm	10°	20°	30°	40°	50°	60°	70°	80°	90°
3	80	6	16	24	36	52	76	113	146	162
4	100	15	37	55	80	117	172	256	329	365
6	150	39	98	147	215	313	460	685	880	978
8	200	65	163	245	359	522	766	1141	1467	1630
10	250	124	310	465	682	992	1457	2170	2790	3100
12	300	182	456	684	1003	1459	2143	3192	4104	4560
14	350	205	512	768	1126	1638	2406	3584	4608	5120
16	400	269	672	1008	1478	2150	3158	4704	6048	6720
18	450	352	880	1320	1936	2816	4136	6160	7920	8800
20	500	460	1150	1725	2530	3680	5405	8050	10350	11500
24	600	647	1618	2427	3560	5178	7605	11326	14562	16180
26	650	936	2340	3510	5148	7488	10998	16380	21060	23400
28	700	1172	2930	4395	6446	9376	13771	20510	26370	29300
30	750	1564	3910	5865	8602	12512	18377	27370	35190	39100
32	800	1852	4630	6945	10186	14816	21761	32410	41670	46300
36	900	1852	4630	6945	10186	14816	21761	32410	41670	46300
40	1000	2064	5160	7740	11352	16512	24252	36120	46440	51600
42	1050	2616	6540	9810	14388	20928	30738	45780	58860	65400
48	1200	3344	8360	12540	18392	26752	39292	58520	75240	83600

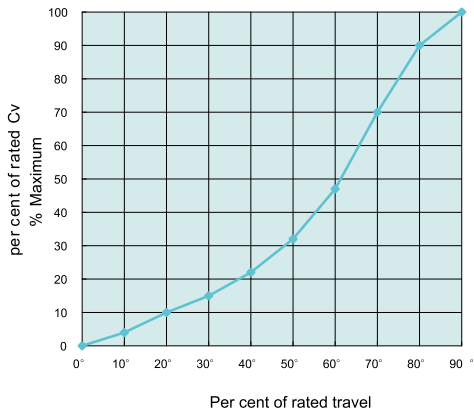
Class 600

Valve Size		Disc Opening Angle								
inch	mm	10°	20°	30°	40°	50°	60°	70°	80°	90°
3	80	6	16	23	34	50	73	109	140	156
4	100	10	26	39	57	82	121	180	231	257
6	150	29	72	108	159	231	340	506	651	723
8	200	53	132	199	291	424	622	927	1192	1324
10	250	81	201	302	443	644	946	1409	1812	2013
12	300	112	279	418	614	892	1311	1952	2510	2789
14	350	159	399	598	877	1276	1873	2790	3587	3986
16	400	201	502	753	1105	1607	2361	3516	4521	5023
18	450	225	562	843	1237	1799	2642	3935	5059	5621
20	500	317	793	1190	1745	2538	3727	5551	7137	7930
24	600	461	1152	1728	2534	3686	5414	8064	10368	11520

Notes:

- 1) Definition:
Cv: The volume of water in gpm at 15℃ that will pass through a valve with differential pressure of 1 PSI.
Kv: The volume of water in m³/hr at 15℃ that will pass through a valve with differential pressure of 1 bar.
- 2) Cv = 1.155 Kv

Cv curve



Torque for series TBT with PTFE seat and shaft down stream at specified pressure.

Class 150 (Shaft Downstream)

Size		100psi (0.7Mpa)		150psi (1.0Mpa)		200psi (1.4Mpa)		285psi (1.97Mpa)	
NPS	DN	N.M	Ft - lbs	N.M	Ft - lbs	N.M	Ft - lbs	N.M	Ft - lbs
2	50	8	6	9	7	11	8	13	10
2-1/2	65	14	10	16	11	18	13	21	16
3	80	21	16	25	19	31	23	40	29
4	100	36	26	44	32	55	41	71	53
5	125	52	38	62	45	74	55	93	69
6	150	68	50	82	60	100	74	128	94
8	200	163	121	206	152	263	194	349	258
10	250	296	219	378	279	487	359	650	480
12	300	442	326	565	417	730	539	976	721
14	350	569	420	725	535	932	688	1243	917
16	400	633	467	775	572	964	712	1248	921
18	450	1005	742	1255	926	1588	1172	2088	1541
20	500	1196	883	1451	1071	1791	1322	2302	1699
22	550	1543	1139	1870	1380	2305	1701	2958	2183
24	600	2474	1826	3104	2291	3945	2911	5205	3842
26	650	2612	1928	3155	2329	3880	2864	4967	3666
28	700	3188	2353	3826	2824	4677	3452	5953	4393
30	750	3913	2888	4724	3486	5805	4284	7427	5481
32	800	4706	3473	5643	4165	6892	5087	8765	6469
34	850	5595	4129	6701	4946	8175	6034	10387	7667
36	900	6157	4544	7391	5455	9036	6669	11504	8490
40	1000	7973	5885	9556	7053	11667	8611	14834	10948
42	1050	8830	6517	10622	7840	13012	9603	16596	12249
48	1200	13473	9944	16152	11921	19724	14557	25081	18512

Class 300 (Shaft Downstream)

Size		220psi (1.5Mpa)		290psi (2.0Mpa)		435psi (3.0Mpa)		580psi (4.0Mpa)		740psi (5.1Mpa)	
NPS	DN	N.M	Ft - lbs	N.M	Ft - lbs	N.M	Ft - lbs	N.M	Ft - lbs	N.M	Ft - lbs
2	50	11	8	13	10	17	13	21	15	25	19
2-1/2	65	18	14	21	16	27	20	32	24	39	29
3	80	33	24	40	29	54	40	69	51	85	63
4	100	58	43	71	53	99	73	126	93	157	116
5	125	71	53	87	64	119	88	151	111	186	138
6	150	104	77	127	94	173	129	219	162	269	200
8	200	299	220	373	275	521	387	669	494	832	618
10	250	584	431	730	539	1020	758	1311	968	1631	1212
12	300	639	471	774	571	1045	776	1315	971	1613	1198
14	350	905	668	1088	803	1454	1080	1820	1343	2222	1651
16	400	1285	948	1553	1147	2091	1554	2629	1941	3221	2393
18	450	1733	1279	2099	1549	2830	2103	3562	2629	4366	3244
20	500	2424	1789	2923	2158	3921	2913	4919	3630	6016	4470
22	550	3093	2282	3733	2755	5014	3725	6295	4646	7704	5724
24	600	3884	2867	4694	3464	6312	4690	7930	5853	9710	7214

Class 600 (Shaft Downstream)

Size		580psi (4.0Mpa)		725psi (5.0Mpa)		870psi (6.0Mpa)		1160psi (8.0Mpa)		1508psi (10.0Mpa)	
NPS	DN	N.M	Ft - lbs	N.M	Ft - lbs	N.M	Ft - lbs	N.M	Ft - lbs	N.M	Ft - lbs
3	80	56	42	65	48	75	55	93	69	112	82
4	100	98	72	116	85	133	98	168	124	204	150
5	125	225	166	261	193	297	219	369	272	441	325
6	150	278	205	326	241	375	277	472	348	569	420
8	200	589	435	691	510	794	586	1000	738	1205	889
10	250	1194	881	1391	1027	1589	1173	1983	1464	2378	1755
12	300	1959	1446	2294	1693	2628	1940	3297	2433	3965	2927
14	350	2541	1876	2987	2205	3433	2534	4325	3192	5216	3850
16	400	3272	2415	3841	2835	4410	3255	5547	4094	6685	4934
18	450	4689	3461	5506	4064	6323	4667	7957	5873	9591	7078
20	500	5976	4411	7068	5217	8160	6023	10344	7635	12528	9247
24	600	9684	7148	11501	8489	13318	9830	16952	12512	20586	15194

Note: 1.The above datas are calculated in normal temperature,it need a save modulus 1.3~1.5 to select driver.

Torque for series TBF with PTFE fire safe seat and shaft down stream at specified pressure.

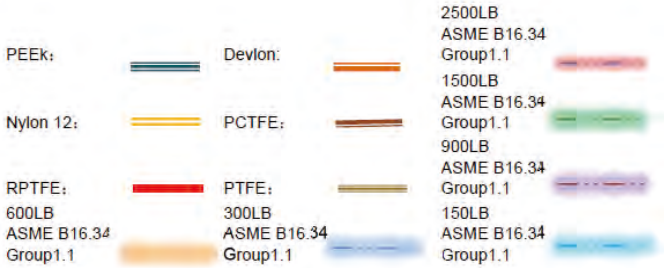
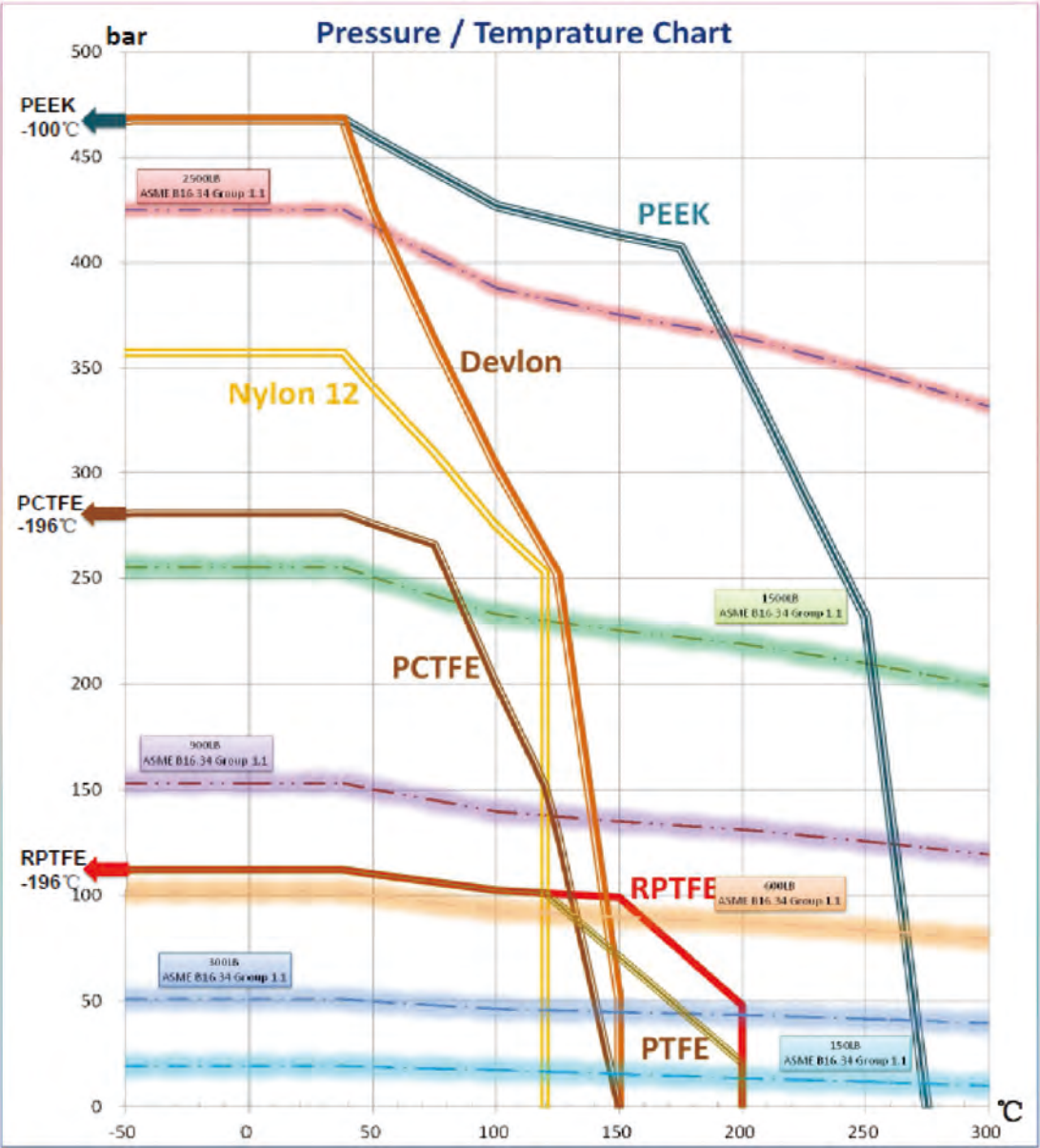
Class 150 (Shaft Downstream)

Size		100psi (0.7Mpa)		150psi (1.0Mpa)		200psi (1.4Mpa)		285psi (1.97Mpa)	
NPS	DN	N.M	Ft - lbs	N.M	Ft - lbs	N.M	Ft - lbs	N.M	Ft - lbs
2	50	11	8	12	9	14	10	16	12
2-1/2	65	20	15	22	16	24	18	27	20
3	80	27	20	31	23	37	27	46	34
4	100	43	32	51	38	62	46	79	58
5	125	65	48	75	55	87	64	106	78
6	150	80	59	94	69	112	83	140	103
8	200	183	135	226	167	283	209	369	272
10	250	326	240	407	301	516	381	680	502
12	300	477	352	600	443	765	565	1012	747
14	350	612	452	768	567	975	720	1286	949
16	400	689	509	831	614	1021	753	1305	963
18	450	1079	797	1329	981	1662	1227	2162	1596
20	500	1309	966	1564	1155	1905	1406	2415	1782
22	550	1680	1240	2007	1481	2442	1802	3095	2284
24	600	2636	1946	3267	2411	4107	3032	5368	3962
26	650	2858	2110	3402	2511	4126	3046	5213	3848
28	700	3472	2563	4110	3034	4961	3662	6237	4603
30	750	4236	3126	5047	3725	6128	4523	7750	5720
32	800	5199	3837	6136	4529	7385	5451	9259	6833
34	850	6148	4537	7254	5354	8728	6442	10940	8075
36	900	6710	4952	7944	5863	9589	7077	12057	8898
40	1000	8644	6380	10227	7549	12339	9107	15505	11444
42	1050	9397	6936	11189	8258	13579	10022	17163	12667
48	1200	14278	10538	16957	12515	20528	15151	25886	19106

Class 300 (Shaft Downstream)

Size		220psi (1.5Mpa)		290psi (2.0Mpa)		435psi (3.0Mpa)		580psi (4.0Mpa)		740psi (5.1Mpa)	
NPS	DN	N.M	Ft - lbs	N.M	Ft - lbs	N.M	Ft - lbs	N.M	Ft - lbs	N.M	Ft - lbs
2	50	14	10	16	12	20	15	24	18	28	21
2-1/2	65	24	18	27	20	33	24	38	28	45	33
3	80	39	29	46	34	60	44	75	55	91	67
4	100	65	48	79	58	106	78	134	99	164	121
5	125	79	58	95	70	127	94	159	117	194	143
6	150	116	86	139	103	185	137	231	171	282	208
8	200	324	239	398	294	546	403	695	513	857	633
10	250	633	467	778	574	1069	789	1360	1003	1679	1239
12	300	710	524	845	624	1116	823	1386	1023	1684	1243
14	350	1018	751	1201	886	1567	1156	1933	1426	2335	1723
16	400	1421	1049	1690	1247	2228	1644	2766	2042	3358	2478
18	450	1896	1399	2262	1669	2993	2209	3724	2749	4529	3342
20	500	2671	1971	3170	2340	4168	3076	5165	3812	6263	4622
22	550	3375	2491	4016	2964	5297	3909	6578	4855	7987	5895
24	600	4208	3106	5017	3703	6635	4897	8253	6091	10033	7405

Note: 1.The above datas are calculated in normal temperature,it need a save modulus 1.3~1.5 to select driver.



Note: Other materials are available upon request.
If the operating condition is beyond the range above, please contact NEWAY's technical team.
NEWAY reserves the right to update without notice.



NEWAY Head Office **Founded in 2014**

Total area: 2,295sqm
Office area: 6,885sqm



NEWAY Manufacturing Base Founded in 2006 and expanded in 2013

Main products: Ball Valve, Butterfly Valve, Gate Valve,
Globe Valve, Check Valve, Control Valve

Building area: 230,000 sqm
Work shop: 140,061 sqm



NEWAY Foundry (Suzhou) Founded in 2008 and expanded in 2015

Main products: Sand Casting
Building area: 112,500 sqm
Work shop: 98000 sqm



NEWAY Foundry (Dafeng) Founded in 2004

Main products: Lost wax investment casting
 Building area: 46,000 sqm
 Work shop: 12,000 sqm



NEWAY Foundry (Dafeng)	Founded in 2008
Main products: Lost wax investment casting	
Building area: 40,000 sqm	
Work shop: 20,000 sqm	



NEWAY Forging (Liyang) Founded in 2017
 Main products: Hammer forging, annular forging
 Office area: 3,000 sqm
 Work shop: 30,000 sqm

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 or 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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