JFS

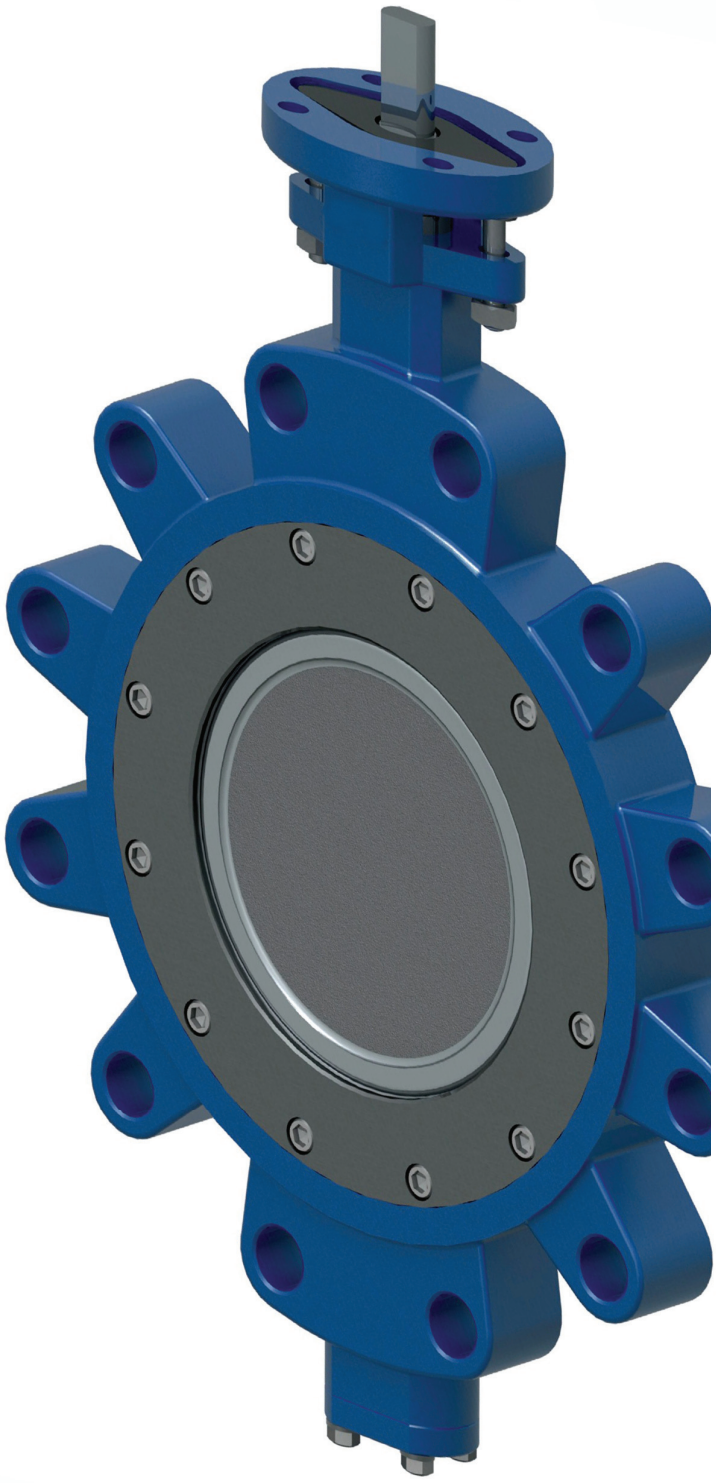
BEIJING JOINT FLOW SYSTEM CO.

BUTTERFLY VALVE

HIGH PERFORMANCE BUTTERFLY VALVE

The High Performance Butterfly Valve brings low cost and light weight to high pressure water, oil, steam, gas and slurry applications in heating, ventilating and air conditioning, power generation, hydrocarbon processing, water and waste water treatment, and marine and commercial shipbuilding industries.

All valves shall be capable of bi-directional, drip tight service to rated pressure, conforming to the design standards of API 609/ASME B16.34.



BODY

High quality, one piece casting provides consistent uniformity. The valve body shall be constructed of carbon steel, stainless steel or alloy steel, available in Wafer, Lug and Flange style.

DISC

Be made of Stainless Steel and engineered to allow for quick release from the seat.

STEM

Be manufactured of high strength Stainless Steel to provide maximum strength and stability for high torque applications, specially with blow out proof design.

SEAT

An advanced seat design that provides a bidirectional interference and pressure assisted seal, available with Soft Seat (PTFE/RPTFE), Metal Seat (Laminated/Integral solid metal) and Fire Safe Seat (primary Soft Seat with secondary Metal Seat).

RETAINING RING

Retains seat in valve, protects seat from abrasion and erosion.

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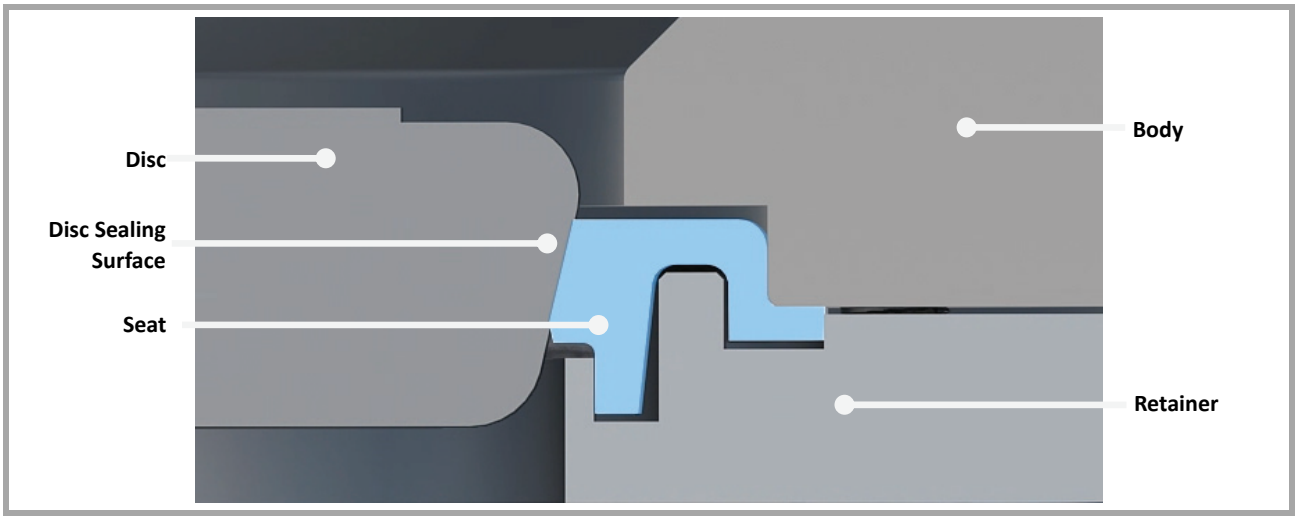
STANDARD FEATURE

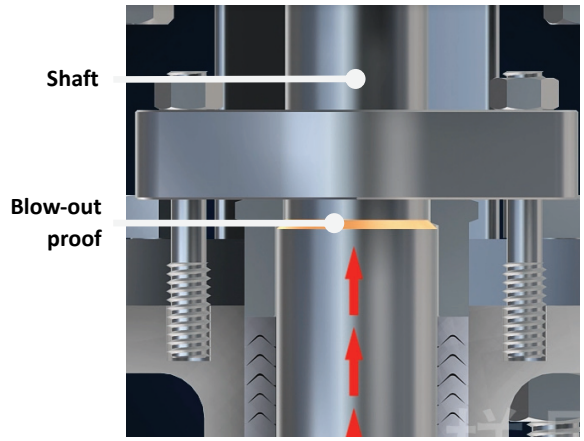


Spherical or Tapered Disc Sealing Surface

- Spherical or Tapered sealing surface on Disc provides better sealing capability.
- Lowers the operate torque because of less friction between the seat and disc.

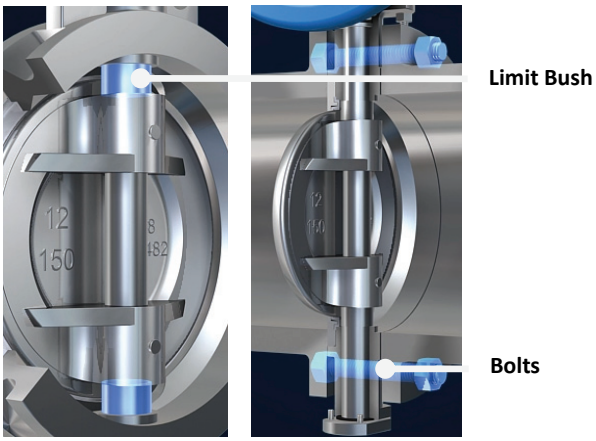
Blow-Out Proof Seat

- The butterfly valves have a unique seat and seat retainer design to minimize the seat movement.
- The seat retainer is bolted to the body, the retainer plate holds the seat in the seat pocket and hence a seat blow-out is avoided.



Blow-Out Proof Shaft

Protect the stem from blowout in case of stem breakage.



Static Proof

Static-proof Limit Bush on the shaft and Static-proof Bolts on the body can eliminate static accumulation.

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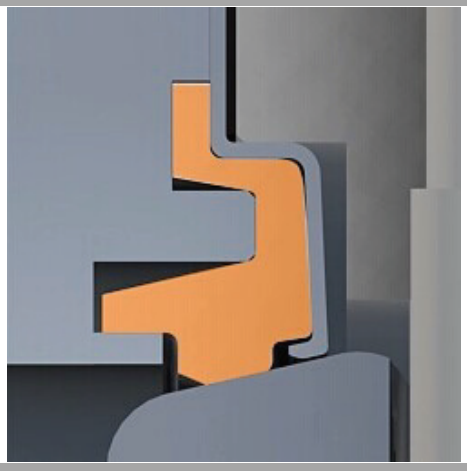
SEAT TYPES

SOFT SEAT

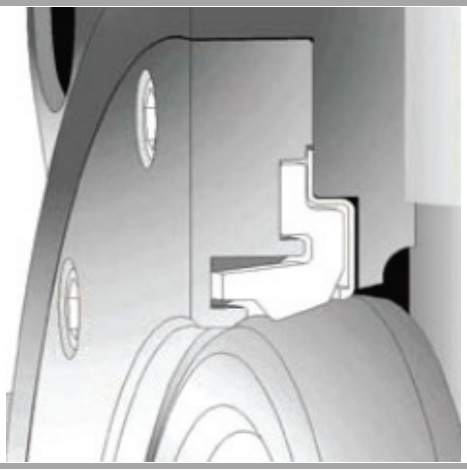
- Advanced trim structure enables bi-direction sealing.
- Anti-blowout seat and seat retainer allow full differential pressure at any disc position.
- Available in PTFE or RPTFE.

FIRE SAFE SEAT



- Double seated design with primary soft seat backed up by the secondary metal seat and functions in both directions.
- Metal seat functions as primary seat in case of fire providing a bi-direction sealing.
- Extended range of applications due to a wide variety of seat materials for primary and secondary seals.
- Fully fire tested according to API-607 and API-6FA.

METAL SEAT



- Available in Laminated Sealing Ring or Integral Solid Sealing Ring to enhance the strength of the sealing edge of the disc.
- Designed to reduced seat movement and retain elasticity of the metal seat to prevent loss of sealing capacity in high temperature and high pressure applications.
- Fully fire tested according to API-6FA.

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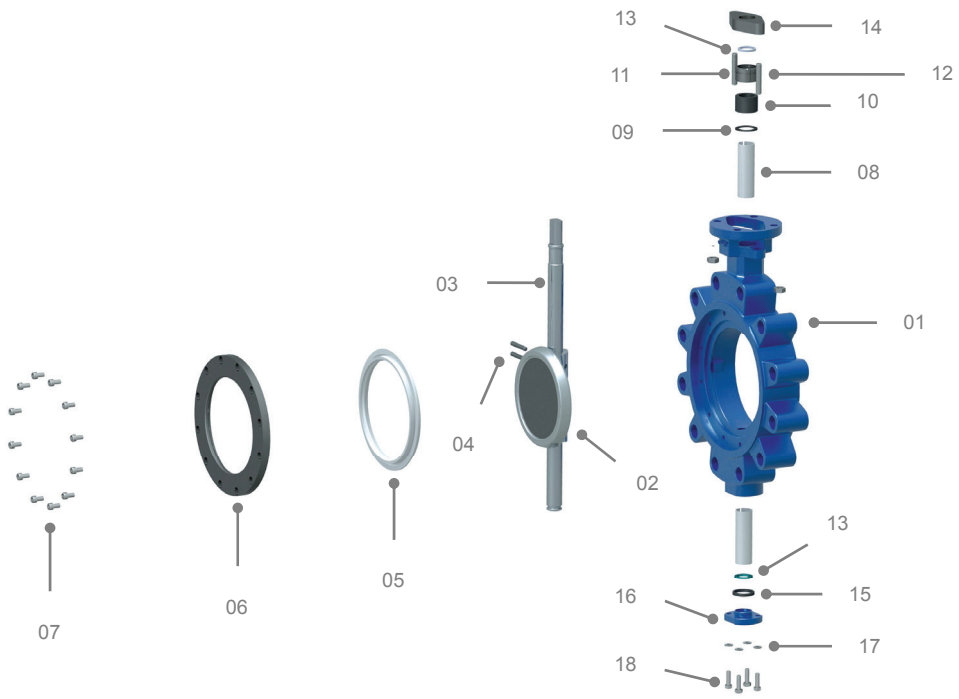
PARTS LIST AND MATERIAL

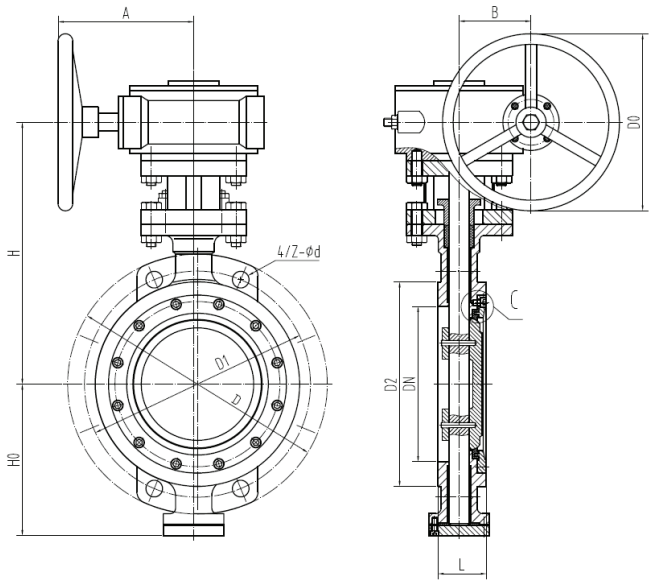


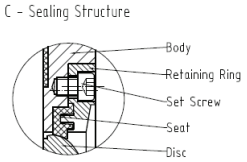
No.	Parts Name	Material
1	Body	Carbon Steel/Stainless Steel/Alloy Steel
2	Disc	Stainless Steel
3	Shaft	Stainless Steel
4	Taper Pin	Stainless Steel
5.1	Seat (Soft)	PTFE/RPTFE
5.2	Seat (Metal)	Laminated Sealing Ring/Integral Solid Sealing Ring
5.3	Seat (Fire Safe)	PTFE/RPTFE + Metal Seat
6	Retaining Ring	Carbon Steel/Stainless Steel/Alloy Steel
7	Screw	Carbon Steel/Stainless Steel/Alloy Steel
8	Bearing	Bronze/Stainless Steel
9	Washer	Carbon Steel/Stainless Steel/Alloy Steel
10	Packing	NBR/EPDM/PTFE/VITON/Graphite
11	Packing Gland	Carbon Steel/Stainless Steel/Alloy Steel
12	Gland Bolt	Carbon Steel/Stainless Steel/Alloy Steel
13	Stem Retainer	Carbon Steel/Stainless Steel/Alloy Steel
14	Gland Flange	Carbon Steel/Stainless Steel/Alloy Steel
15	Cap Packing	NBR/EPDM/PTFE/VITON/Graphite
16	Cap	Carbon Steel/Stainless Steel/Alloy Steel
17	Washer	Carbon Steel/Stainless Steel/Alloy Steel
18	Screw	Carbon Steel/Stainless Steel/Alloy Steel

*More material specifications are available on request.

HIGH PERFORMANCE BUTTERFLY VALVE

DIMENSION (Wafer type)





DN (mm)	NPS (inch)	L (150lb)	L (300lb)	L (600lb)	H_0	H	A	B	D_0	Est. Weight (kg)
50	2	43	43		65	180	180	50	150	8
80	3	48	48	54	85	205	180	50	150	14
100	4	54	54	64	95	235	180	50	150	17
150	6	57	59	78	125	275	185	63	305	26
200	8	64	73	102	145	305	185	63	305	35
250	10	71	83	117	200	350	215	80	305	42
300	12	81	92	140	215	400	215	80	406	68
350	14	92	117	155	255	460	215	80	406	121
400	16	102	133	178	315	475	245	125	300	136
450	18	114	149	200	381	550	245	125	300	198
500	20	127	159	216	420	600	245	125	300	216
600	24	154	181	232	489	680	390	242	400	467
700	28	165			502	815	390	242	5000	650
800	32	190			975	920	420	262	400	950
900	36	203			1075	1020	420	262	400	1239
1000	40	216			1175	1120	550	325	500	1785
1200	48	254			1405	1340	550	325	500	1956

*Face to face dimensions (L) herein are according to API 609/ASME B16.10.

*Flange dimensions (D, D_1, D_2, Z-d) refer to Catalogue of Accessory: Series 8 – Flange.

*More dimension specifications are available on request.

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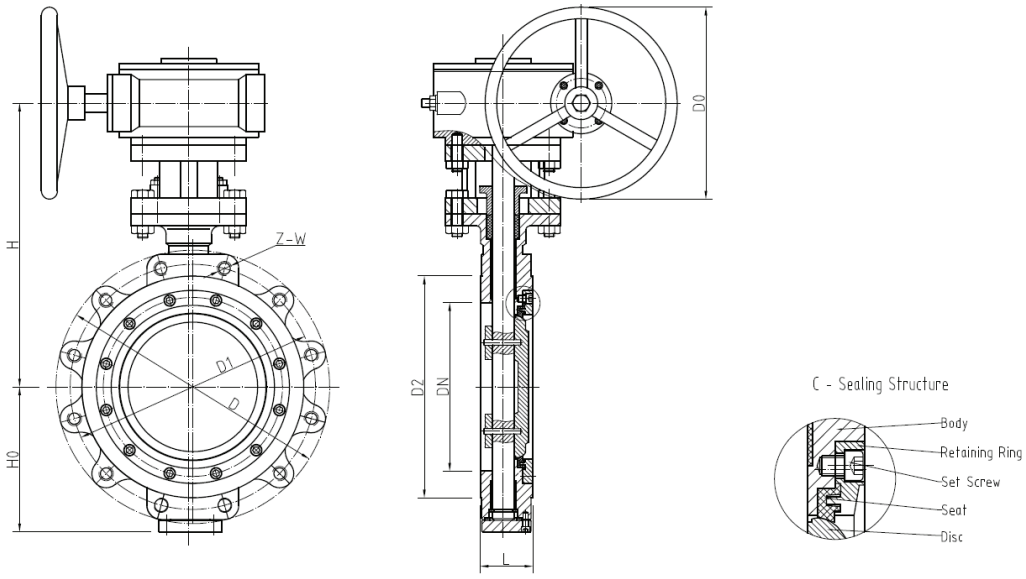
DIMENSION (Lug type)



DN (mm)	NPS (inch)	L (150lb)	L (300lb)	L (600lb)	H_0	H	A	B	D_0	Est. Weight (kg)
50	2	43	43		65	180	180	50	150	20
80	3	48	48	54	85	205	180	50	150	30
100	4	54	54	64	95	235	180	50	150	38
150	6	57	59	78	125	275	185	63	305	48
200	8	64	73	102	145	305	185	63	305	90
250	10	71	83	117	200	350	215	80	305	114
300	12	81	92	140	215	400	215	80	406	148
350	14	92	117	155	255	460	215	80	406	183
400	16	102	133	178	315	475	245	125	300	215
450	18	114	149	200	381	550	245	125	300	266
500	20	127	159	216	420	600	245	125	300	337
600	24	154	181	232	489	680	390	242	400	511
700	28	165			502	815	390	242	5000	905
800	32	190			975	920	420	262	400	1221
900	36	203			1075	1020	420	262	400	1576
1000	40	216			1175	1120	550	325	500	2090
1200	48	254			1405	1340	550	325	500	2227

*Face to face dimensions (L) herein are according to API 609/ASME B16.10.

*Flange dimensions (D, D_1, D_2, Z-d) refer to Catalogue of Accessory: Series 8 – Flange.

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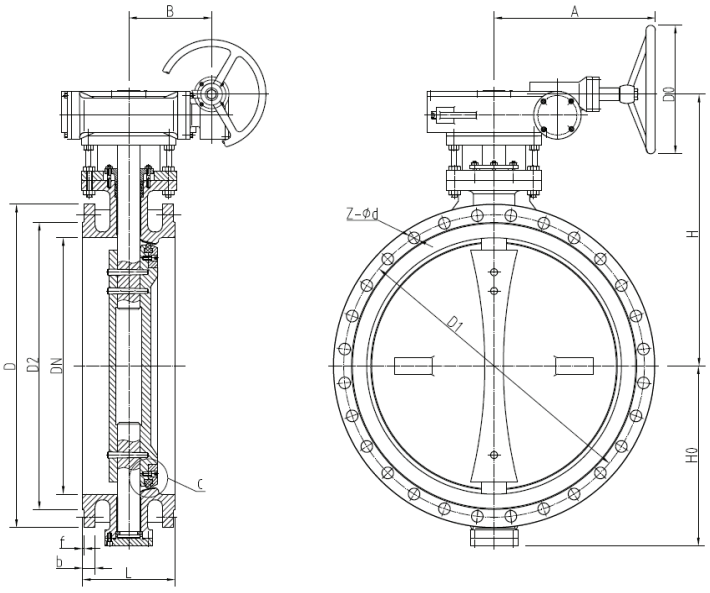
DIMENSION (Flange Type)



DN (mm)	NPS (inch)	L	H_0	H	A	B	D_0	Est. Weight (kg)
100	4	127	120	230	180	50	150	45
150	6	140	180	275	185	63	305	80
200	8	152	200	313	185	63	305	100
250	10	165	260	313	215	80	305	121
300	12	178	290	420	215	80	406	159
350	14	190	320	450	215	80	406	222
400	16	216	352	480	245	125	300	237
450	18	222	390	543	245	125	300	271
500	20	229	425	585	245	125	300	300
600	24	267	485	643	390	202	400	381
700	28	292	540	737	390	202	500	651
800	32	318	605	885	427	262	400	792
900	36	330	665	975	427	262	400	1034
1000	40	410	705	1130	550	325	500	1334
1200	48	470	850	1150	550	325	500	1953

*Face to face dimensions (L) herein are according to API 609/ASME B16.10.

*Flange dimensions (D, D_1, D_2, Z-d, b, f) refer to Catalogue of Accessory: Series 8 – Flange.

*More dimension specifications are available on request.