

BUTTERFLY VALVE SERIES

Sn^owate

Hengshui Snowate Environmental
Technology Co., Ltd.

2025

EDITION FOR
SNOWATE CATALOG



HENGSHUI SNOWATE ENVIRONMENTAL TECHNOLOGY CO., LTD.

A TRUSTWORTHY SOURCING EXPERT ON WATER TREATMENT FACILITIES

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Transmission device



Stamping handle



Stainless steel handle



Aluminium alloy handle



Ductile iron worm gear



Aluminium alloy worm gear



Marine worm gear



Pneumatic belt triplets



Pneumatic device



Electric actuator

Product display



Handle wafer butterfly valve



Stainless steel wafer valve



Lug type butterfly valve



Anti-dew butterfly valve



Soft back butterfly valve



Stainless steel wafer valve



Anti-dew butterfly valve



Grooved butterfly valves



Marine butterfly valve



Flanged butterfly valve



Pneumatic butterfly valve

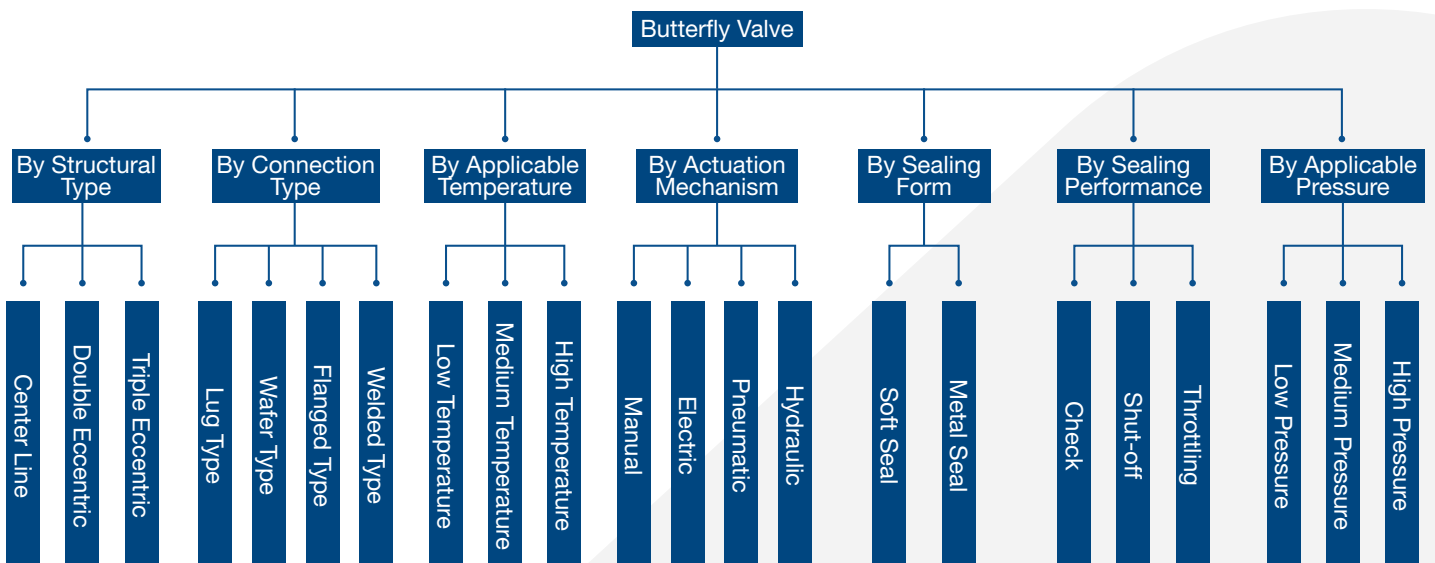


Electric butterfly valve

Soft sealing butterfly valve overview

DW	3	7	B	1	X3-	10	C	P		3
D - Butterfly	0 - Headless	4 - Flange	A - Wafer	1 - Midline	X1 - NR	6 - GB	Q - Ductile body	X - Carbon fiber	T - Aluminum bronze plate	1 - 45# shaft
DW - Without pin	3 - Worm gear	6 - Welding	B - No flanged	3 - Eccentric	X2 - Hypalon	10 - GB	P - 304 body	P - 304 plate	J - Rubber lining board	2 - 431 shaft
XD - Signal valve	6 - Pneumatic	7 - Wafer	L - Single	6 - Double disc	X3 - EPDM	16 - GB	R - 316 body	R - 316 plate	F - Teflon plate	3 - 420 shaft
DF - Prevent dewing	7 - Hydraulic	8 - Clamp	U - U valve	7 - DC	X4 - Neoprene	125Lb - API	Z - Gray iron body	D - DIN1.4529	N - Nylon plate	4 - 304 shaft
DH - Check	9 - Electric				X5 - NBR	150Lb - API	C - Carbon steel body	S - SAF2507	PFA plate	5 - 316 shaft
SD - Retractable	The handle is omitted				X6 - Wear-resistant rubber	5K - JIS	PL - 304L body	Q - Plated ball board	FEP plate	5L - 316L shaft
GD - Network					X7 - VITON	10K - JIS	RL - 316L body	C - Carbon steel plate	HALAR plate	6 - 630 shaft
					X8 - Silicone rubber	16K - JIS	T - Aluminum bronze	PL - 304L	Aksu powder board	7 - Other
					X9 - Heat-resistant rubber		L - Aluminium body	RL - 316L	SEBF - Anti-corrosion coating	8 - Monel
					Jn - All rubber lined		S - Plastic body	Ti - Titanium plate		9 - 2205 shaft
					F4 - PTFE					
					H - Metal seal					
					W - Body seat seal					

DW37B1X3-10CP3: body material: carbon steel; seat: ethylene propylene rubber; valve plate: 304; stem: 420. The PN10 non-pin worm wheel and butterfly valve.



Soft sealing butterfly valve overview

Purpose and features

Soft sealing butterfly valve is suitable for food, medicine, chemical industry, petroleum, electric power, metallurgy, urban construction, textile, paper and other water supply and drainage, for adjusting flux on the gas pipeline, and intercepting the role of the media, its main characteristic is:

1. The design is novel, reasonable, unique structure, light weight and fast.
2. low operating torque, convenient operation and convenient maintenance.
3. It can be installed in any position and convenient for maintenance.
4. The sealing parts can be replaced, the sealing performance is reliable, and the two-way seal zero leakage.
5. The sealing material is resistant to aging, corrosion resistance and long service life.
6. The structure is simple, the universal interchange is good and the price is low.
7. Stem seal is not easy to deform to avoid the usual stem leakage. The overall support is good, stable and firm.
8. The valve seat rubber consumption is low, with minimal potential impact from expansion. It is easy to control the torque values within the appropriate range. The two-piece stem connection without pins features a simple, compact structure, making maintenance and disassembly extremely convenient.
9. The butterfly board has automatic alignment function, and the butterfly plate and seat small oversize fit. Phenolic back seat has the characteristics of non-shedding, tensile, leak-proof and convenient replacement. Because seat airtight cover is integral to backrest, the seating deformation is reduced.

Adopted Standard

Design Standard: GB/T12238-2008, GB/T3036-94, ISO10631-1994, BS EN593-2004, BS5155, MSSSP-67, API609, GOST-12815, CNSI2744, MSSSP-67-2002, GB/T3036-94, AWWAC504-2000

Flange Connection: GB/T17241.6-2008, JIS B2212-B2214-1999, DIN 2501, JIS B2220-2004, JIS B2210-1984, BS 4504, BS10-E, ANSI-16.5-2009, ANSI B 16.47-2006, AS2129, ANSI 1259, ISO7005-2, BS EN1092-2002, GB9112, ISO2084, ISO2531, GOST12820-80, HG/T20623/20615/20592 (PN6, PN10, PN16, Class125, Class150, 5K, 10K, 16K)

Structural Length: GB/T12221-2005, JIS B2032-2013, ISO5752-1988, BS EN558-1

Pressure Test: GB/T13927-2008, JB/T9092-1999, ISO5028-1993, BS 5755-1-1986, API598-2004, EN12266-1, JB/T3595-93

Top Flange (Connection Plate): ISO521

Technical Data

Nominal diameter DN (mm)		50-2000		
Nominal pressure PN (MPa)		0.6	1.0	1.6
Testing pressure	Shell	0.9	1.5	2.4
	Sealing	0.66	1.1	1.76
Drive form		Manual, worm gear drive, pneumatic, electric		
Suitable mediums		Fresh water, sewage, sea water, air, steam, food, medicine, oils, acids, etc.		

Note: 1 kg = 1 bar=15 psi, for example: 300 psi = 20 kg

Soft sealing butterfly valve overview

Valve metal materials, non-metallic materials, corrosion resistant temperature recommended table

Material		Suitable temperature (°C)	Media and the applicability											Feature
			Fresh water	Sea water	Alkali	Weak base	Strong acid	Weak acid	Alcohol	Air	Steam	Oil	Food	
Seat	NBR	-23 °C to 93 °C	A	A	B	A	D	B	C	A	D	A	B	Resistant oil
	EPDM	-46 °C to 135 °C	A	A	A	A	C	A	B	A	A	C	A	Anti-aging
	NR	-20 °C to 85 °C	A	A	A	A	C	B	C	A	B	B	B	High elasticity
	CR	-29 °C to 99 °C	A	B	A	A	D	C	C	A	D	D	B	Wear-resistant, anti-aging
	SI	-55 °C to 180 °C	A	B	D	B	D	B	B	A	A	C	C	Resistant to high temperatures
	FPM	-23 °C to 200 °C	A	A	C	A	C	A	C	A	A	A	A	Anti-corrosion, anti-high temperature
	PTFE	-20 °C to 180 °C	A	A	A	A	A	A	A	A	A	A	A	Anti-corrosive all chemical media
Disc	Plating ductile iron	-30 °C to 350 °C	B	C	D	C	D	C	A	B	B	A	C	Thermal
	PA	-30 °C to 100 °C	A	A	A	A	D	A	C	A	D	A	A	Anti-corrosion, anti-alkaline
	PCR	-30 °C to 140 °C	A	A	A	A	A	A	A	A	C	A	A	Corrosion, acid-fast
	PTFE	-20 °C to 180 °C	A	A	A	A	A	A	A	A	A	A	A	Corrosion, all chemicals
	PFA	-20 °C to 180 °C	A	A	A	A	B	A	A	A	A	A	A	Anti-corrosion, anti-high temperature
	Stainless steel	-252 °C to 316 °C	A	C	C	B	C	B	A	A	A	A	A	Anti-corrosion, anti-high temperature
	Aluminum bronze	-212 °C to 232 °C	A	C	C	C	D	C	A	A	A	A	C	Heat resistance, resistance usual temperature
	Titanium	-196 °C to 550 °C	A	A	A	A	C	B	A	A	A	A	B	Anti-corrosion, anti-high temperature
Valve body	HT200 Cast iron	-15 °C to 250 °C	A	D	C	D	C	A	A	A	A	A	C	Deformation resistance
	QT450 Ductile iron	-30 °C to 350 °C	A	C	C	D	C	B	A	A	A	A	C	Corrosion resistance, Deformation resistance
	WCB Cast steel	-29 °C to 425 °C	A	D	D	D	D	D	A	A	A	A	C	Good pressure resistance
	Stainless steel	-252 °C to 316 °C	A	C	C	B	C	B	A	A	A	A	A	Anti-corrosion, anti-high temperature
	A105 Forged steel	-29 °C to 450 °C	A	D	D	D	D	D	A	A	A	A	C	High density and high pressure resistance
	WCB/ WCQ	-29 °C to 540 °C	A	D	C	D	D	D	A	A	A	A	C	High density and high pressure resistance
	C5/C12	-29 °C to 570 °C	A	B	B	B	B	B	A	A	A	A	B	High density and high pressure resistance
	Cryogenic steel	-196 °C to 345 °C	A	D	D	C	D	D	A	A	A	A	C	Low temperature resistance

Note: A - is very applicable, B - applies, C - is limited, D - does not apply, The highest operating temperature of the entire valve is determined by the component with the lowest temperature resistance.



Actuator connecting standard

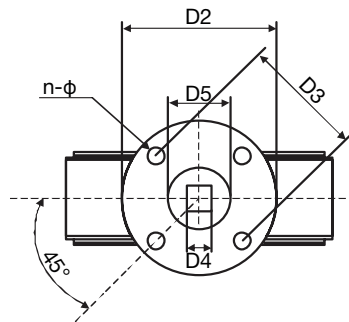


Figure 1

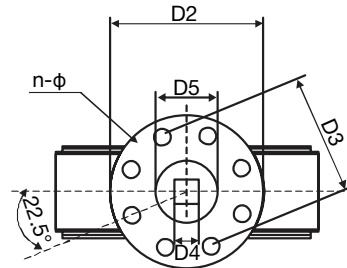


Figure 2

5211 standard - butterfly valve square axis connecting disc.... See Figure 1

DN (mm)	Flange No.	D2	D3	D4	D5	n-φ	M Bolt	h1 Groove	Shaft Height	Valve Shaft Method
–	F04	54	42	–	30+1	4-6	M5	3 + 1	–	Square Shaft
40–80	F05	65	50	9	35 + 1	4-7	M6	3 + 1	11	
100	F07	90	70	11	55 + 1	4-10	M8	3 + 1	13	
125–150	F07	90	70	14	55 + 1	4-10	M8	3 + 1	16	
200	F10	125	102	17	70 + 1	4-12	M10	3 + 1	19	
250	F10	125	102	22	70 + 1	4-12	M10	3 + 1	24	
300–350	F12	150	125	22	85 + 1	4-14	M12	3 + 1	24	
400	F14	175	140	27	100 + 1	4-18	M16	4 + 1	30	
450	F14	175	140	27	100 + 1	4-18	M16	4 + 1	30	
500	F16	210	165	32	130 + 1	4-22	M20	5 + 1	36	
600	F16	210	165	36	130 + 1	4-22	M20	5 + 1	40	

5211 standard - butterfly valve square axis connecting disc.... See Figure 2

DN (mm)	Flange No.	D2	D3	D4	D5	n-φ	M Bolt	h1 Groove	Shaft Height	Valve Shaft Method
700–800	F25	300	254	46	200 + 1	8-18	M16	5 + 1	50	Square Shaft
900	F25	300	254	–	200 + 1	8-18	M16	5 + 1		
1000	F25	300	254	–	200 + 1	8-18	M16	5 + 1		
1200	F30	350	298	–	230 + 1	8-22	M20	5 + 1		
1400–1600	F35	415	356	–	260 + 1	8-32	M30	5 + 1		
1800	F40	475	406	–	300 + 1	8-39	M36	8 + 1		

Actuator connecting standard

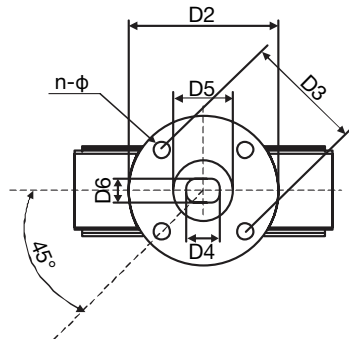


Figure 3

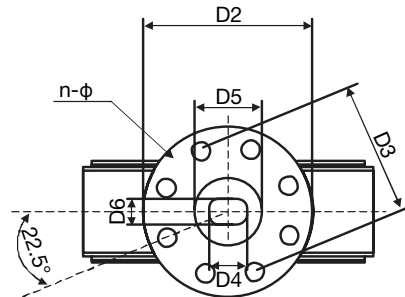


Figure 4

5211 standard - butterfly valve flat shaft connecting plate.... See Figure 3

DN (mm)	Flange No.	D2	D3	D4	D5	D6	n-φ	M Bolt	h1 Groove	Shaft Height	Valve Shaft Method
–	F04	54	42	–	30 + 1	–	4-6	M5	3 + 1	–	Flat Shaft
40–80	F05	65	50	12.6	35 + 1	10	4-7	M6	3 + 1	30	
100	F07	90	70	15.8	55 + 1	12	4-10	M8	3 + 1	30	
125–150	F07	90	70	18.9	55 + 1	14	4-10	M8	3 + 1	30	
200	F10	125	102	22.1	70 + 1	16	4-12	M10	3 + 1	45	
250	F10	125	102	28.6	70 + 1	24	4-12	M10	3 + 1	45	
300–350	F12	150	125	31.6	85 + 1	26	4-14	M12	3 + 1	45	
400	F14	175	140	33	100 + 1	27	4-18	M16	4 + 1	50	
450	F14	175	140	38	100 + 1	30	4-18	M16	4 + 1	50	
500	F16	210	165	41.15	130 + 1	36	4-22	M20	5 + 1	65	
600	F16	210	165	50.65	130 + 1	42	4-22	M20	5 + 1	70	

5211 standard - butterfly valve flat shaft connecting plate.... See Figure 4

DN (mm)	Flange No.	D2	D3	D4	D5	D6	n-φ	M Bolt	h1 Groove	Angle of Connection Holes	Shaft Height	Valve Shaft Method
700–800	F25	300	254	63.35	200 + 1	52	8-18	M16	5 + 1	22.5°	80	Flat Shaft
900	F25	300	254	75	200 + 1	–	8-18	M16	5 + 1	22.5°	120	
1000	F25	300	254	85	200 + 1	–	8-18	M16	5 + 1	22.5°	140	
1200	F30	350	298	105	230 + 1	–	8-22	M20	5 + 1	22.5°	150	
1400–1600	F35	415	356	130	260 + 1	–	8-32	M30	5 + 1	22.5°	200	
1800	F40	475	406	160	300 + 1	–	8-39	M36	8 + 1	22.5°	280	

Actuator connecting standard

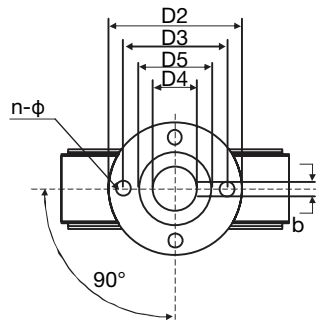


Figure 5: DN40–600 mm

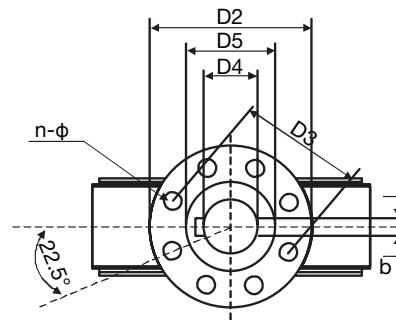


Figure 6: DN700–2200 mm

Butterfly valve round shaft connecting disc... See Figure 5

DN (mm)	D2	D3	D4	D5	n-φ	M	h1 Groove	b Quantity	Shaft Height
40	77	57	12.6	35 + 1	4-7	M6	–	3-1	30
50	77	57	12.6	35 + 1	4-7	M6	4	3-1	30
65	77	57	12.6	35 + 1	4-7	M6	4	3-1	30
80	77	57	12.6	35 + 1	4-7	M6	4	3-1	30
100	92	70	15.8	55 + 1	4-10	M8	4	5-1	30
125	92	70	18.9	55 + 1	4-10	M8	4	5-1	30
150	92	70	18.9	55 + 1	4-10	M8	4	5-1	30
200	115	89	22.1	70 + 1	4-14	M12	4	5-1	45
250	115	89	28.6	70 + 1	4-14	M12	4	8-1	45
300	140	108	31.6	85 + 1	4-14	M12	4	8-1	45
350	140	108	31.6	85 + 1	4-14	M12	4	8-1	45
400	197	159	33	100 + 1	4-21	M18	5	10-2	50
450	197	159	38	100 + 1	4-21	M18	5	10-2	50
500	197	159	41.15	130 + 1	4-21	M18	6	10-2	65
600	276	216	50.65	130 + 1	4-23	M20	6	16-2	70

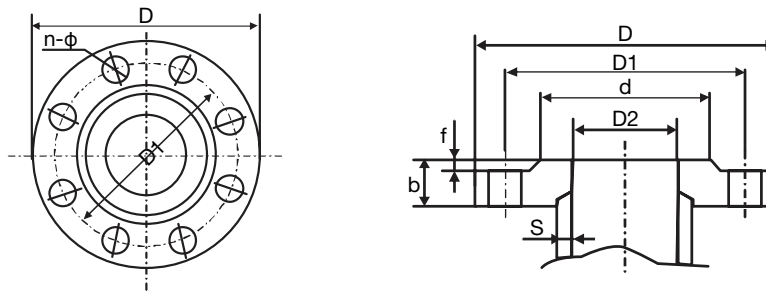
Note: DN 400 mm (above) actuators with 4 key ways.

Butterfly valve round shaft connecting disc... See Figure 6

DN (mm)	D2	D3	D4	D5	n-φ	M	h1 Groove	b Quantity	Shaft Height
700	300	254	55/63.35	200 + 1	8-18	M16	6	16-2/18	80
750	300	254	55/63.35	200 + 1	8-18	M16	6	16-2/18	80
800	300	254	55/63.35	200 + 1	8-18	M16	6	16-2/18	80
850	300	254	75	200 + 1	8-18	M16	6	20-2	120
900	300	254	75	200 + 1	8-18	M16	6	20-2	120
950	300	254	85	200 + 1	8-18	M16	6	22-2	140
1000	300	254	85	200 + 1	8-18	M16	6	22-2	140
1100	350	298	105	230 + 1	8-22	M20	6	28-2	150
1200	350	298	105	230 + 1	8-22	M20	6	28-2	150
1300	415	356	130	260 + 1	8-32	M30	6	32-2	200
1400	415	356	130	260 + 1	8-32	M30	6	32-2	200
1600	415	356	130	260 + 1	8-32	M30	6	36-2	200



Butterfly valve flange dimensions and standards



Flange type: RF convex

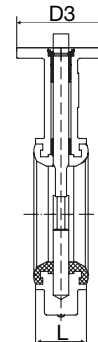
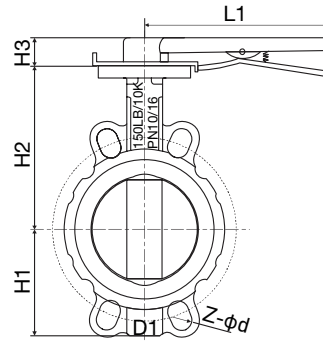
Use standard		GB/T 17241.6-2008, JIS B 2220-2004, ANSI B16.5-2009											
DN		PN10			PN16			10K			150Lb		
inch	mm	D Flange O.D.	D1 Bolt Hole Distance	n-φ Qty of Bolt Holes and Hole Diameter	D Flange O.D.	D1 Bolt Hole Distance	n-φ Qty of Bolt Holes and Hole Diameter	D Flange O.D.	D1 Bolt Hole Distance	n-φ Qty of Bolt Holes and Hole Diameter	D Flange O.D.	D1 Bolt Hole Distance	n-φ Qty of Bolt Holes and Hole Diameter
1"	25	115	85	4-14	115	85	4-14	125	90	4-19	108	79.5	4-15
1-1/4"	32	140	100	4-19	140	100	4-19	135	100	4-19	117	89	4-15
1-1/2"	40	150	110	4-19	150	110	4-19	140	105	4-19	127	98.5	4-15
2"	50	165	125	4-19	165	125	4-19	155	120	4-19	152.4	120.6	4-19
2-1/2"	65	185	145	4-19	185	145	4-19	175	140	4-19	177.8	139.7	4-19
3"	80	200	160	8-19	200	160	8-19	185	150	8-19	190.5	152.4	4-19
4"	100	220	180	8-19	220	180	8-19	210	175	8-19	228.6	190.5	8-19
5"	125	250	210	8-19	250	210	8-19	250	210	8-23	254	215.9	8-22
6"	150	285	240	8-23	285	240	8-23	280	240	8-23	279.4	241.3	8-22
8"	200	340	295	8-23	340	295	12-23	330	290	12-23	342.9	298.5	8-22
10"	250	395	350	12-23	405	355	12-28	400	355	12-25	406	362	12-25
12"	300	445	400	12-23	460	410	12-28	445	400	16-25	483	432	12-25
14"	350	505	460	16-23	520	470	16-28	490	445	16-25	533	476	12-29
16"	400	565	515	16-28	580	525	16-31	560	510	16-27	597	540	16-29
18"	450	615	565	20-28	640	585	20-31	620	565	20-27	635	578	16-32
20"	500	670	620	20-28	715	650	20-34	675	620	20-27	699	635	20-32
22"	550	—	—	—	—	—	—	—	—	—	—	—	—
24"	600	780	725	20-31	840	770	20-37	795	730	24-32	813	749.5	20-35
26"	650	—	—	—	—	—	—	—	—	—	—	—	—
28"	700	895	840	24-31	910	840	24-37	905	840	24-33	927	864	28-35
30"	750	—	—	—	—	—	—	—	—	—	—	—	—
32"	800	1015	950	24-34	1025	950	24-40	1020	950	28-33	1060	978	28-41
34"	850	—	—	—	—	—	—	—	—	—	—	—	—
36"	900	1115	1050	28-34	1125	1050	28-40	1120	1050	28-33	1168	1086	32-41
38"	950	—	—	—	—	—	—	—	—	—	—	—	—
40"	1000	1230	1160	28-37	1255	1170	28-43	1235	1160	28-39	1289	1200	36-41
42"	1050	—	—	—	—	—	—	—	—	—	—	—	—
44"	1100	—	—	—	—	—	—	—	—	—	—	—	—
48"	1200	1455	1380	32-40	1485	1390	32-49	1465	1380	32-39	1511	1422	44-41
52"	1300	—	—	—	—	—	—	—	—	—	1625	1536.7	44-48
56"	1400	1675	1590	36-43	1685	1590	36-49	—	—	—	1745	1651	48-48
60"	1500	1785	1700	36-44	—	—	—	—	—	—	—	—	—
64"	1600	1915	1820	40-49	1930	1820	40-56	—	—	—	—	—	—
72"	1800	2115	2020	44-49	2130	2020	44-56	—	—	—	—	—	—
80"	2000	2325	2230	48-49	2345	2230	48-62	—	—	—	—	—	—
86"	2200	2555	2440	52-56	—	—	—	—	—	—	—	—	—
96"	2400	2760	2650	56-56	—	—	—	—	—	—	—	—	—

Note: Standards GB9119-2000, GB9113-2010, DIN2501, BS4504, ISO2531, ISO2501, ISO2084 comply with GB/T 17241.6-2008 data.

This table reflects the latest standard numbers, For Japanese standards 5K, 16K, 20K, PN6, PN25, and non-standard data for DN1150/1250/1350/1450/1500 and d, D2, b according to HG/T20623, HG/T20592, JB81-94, API605, please contact our company. 150Lb, 10K up to DN1500.



Wafer butterfly valve



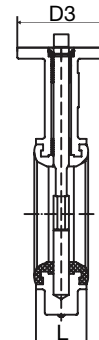
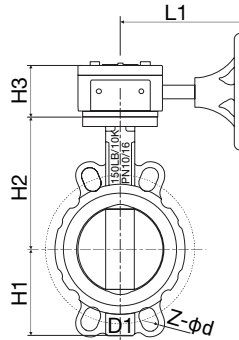
Main dimensions

DN (mm)	L	L1	D	PN1.0		PN1.6		150Lb		10K		D3 Flange No.	H1	H2	H3
				D1	Z-φd	D1	Z-φd	D1	Z-φd	D1	Z-φd				
50	42	220	52.9	125	4-23	125	4-23	120.6	4-19	120	4-19	F05	70	126	32
65	44.7	220	64.5	145	4-23	145	4-23	139.7	4-19	140	4-19	F05	77	137	32
80	45.2	255	78.8	160	8-20	160	8-20	152.4	4-19	150	8-19	F05	92	143	32
100	52.1	255	104	180	4-23	180	4-23	190.5	8-19	175	8-19	F07	105	164	32
125	54.4	290	123.3	210	4-23	210	4-23	215.9	8-22	210	8-23	F07	120	177	32
150	55.8	290	155.6	240	4-25	240	4-25	241.3	8-22	240	8-23	F07	134	198	32
200	60.6	340	202.5	295	4-25	295	4-25	298.5	8-22	290	12-23	F10	171	231	45

Note: If the user needs other sizes and materials of butterfly valves, please specify when ordering.



Wafer butterfly valve



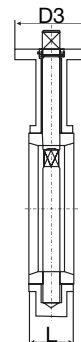
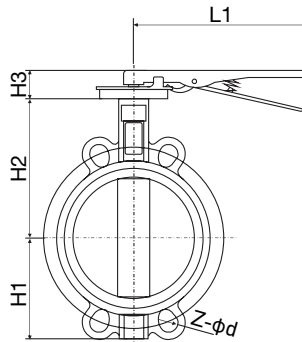
Main dimensions

DN (mm)	L	L1	D	PN1.0		PN1.6		150Lb		10K		D3 Flange No.	H1	H2	H3
				D1	Z-φd	D1	Z-φd	D1	Z-φd	D1	Z-φd				
50	42	160	52.9	125	4-19	125	4-23	120.6	4-19	120	4-19	F05	73	125	60
65	44.7	160	64.5	145	4-19	145	4-23	139.7	4-19	140	4-19	F05	82	136	60
80	45.2	160	78.8	160	8-19	160	8-20	152.4	4-19	150	8-19	F05	91	142	60
100	52.1	160	104	180	8-19	180	4-23	190.5	8-19	175	8-19	F07	104	163	60
125	54.4	160	123.3	210	8-19	210	4-23	215.9	8-22	210	8-23	F07	127	176	60
150	55.8	160	155.6	240	8-23	240	4-25	241.3	8-22	240	8-23	F07	138	197	60
200	60.6	210	202.5	295	8-23	295	4-25	298.5	8-22	290	12-23	F10	170	230	72
250	65.6	210	250.5	350	12-23	355	4-28	362	12-25	355	12-25	F10	204	261	72
300	77	210	301.6	400	12-23	410	4-28	432	12-25	400	16-25	F10/12	241	294	75
350	76.5	210	333.3	460	16-23	470	4-30	476	12-29	445	16-25	F10/12	263	335	75
400	86.5	320	389.6	515	16-28	525	4-30	540	16-29	510	16-27	F14/16	309	400	126
450	105.6	320	440.5	565	20-28	585	4-30	578	16-32	565	20-27	F14/16	328	420	126
500	132	320	491.6	620	20-28	650	4-33	635	20-32	620	20-27	F14/16	361	480	126
600	152	340	592.5	725	20-31	770	4-36	749.5	20-35	730	24-32	F16	459	560	127
700	163	380	695	840	24-31	840	24-36	864	28-35	840	24-33	F25	520	624	167
800	188	380	794.7	950	24-34	950	24-39	978	28-41	950	28-33	F25	590	680	167
900	203	400	864.7	1050	28-34	1050	28-39	1086	32-41	1050	28-33	F25	656	720	193
1000	216	400	965	1160	28-37	1170	28-42	1200	36-41	1160	28-39	F25	720	800	193
1200	276	450	1158	1380	32-40	1390	28-49	1422	44-41	1380	32-39	F30	844	941	

Note: If the user needs other sizes and materials of butterfly valves, please specify when ordering.



Stainless steel butterfly valve



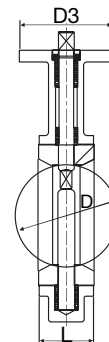
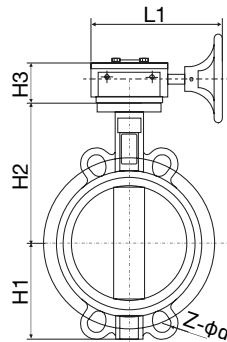
Main dimensions

DN (mm)	L	L1	D	PN1.0		PN1.6		150Lb		10K		D3 Flange No.	H1	H2	H3
				D1	Z-φd	D1	Z-φd	D1	Z-φd	D1	Z-φd				
50	42	220	52.9	125	4-23	125	4-23	120.6	4-19	120	4-19	F05	70	126	32
65	44.7	220	64.5	145	4-23	145	4-23	139.7	4-19	140	4-19	F05	77	137	32
80	45.2	255	78.8	160	8-20	160	8-20	152.4	4-19	150	8-19	F05	92	143	32
100	52.1	255	104	180	4-23	180	4-23	190.5	8-19	175	8-19	F07	105	164	32
125	54.4	290	123.3	210	4-23	210	4-23	215.9	8-22	210	8-23	F07	120	177	32
150	55.8	290	155.6	240	4-25	240	4-25	241.3	8-22	240	8-23	F07	134	198	32
200	60.6	340	202.5	295	4-25	295	4-25	298.5	8-22	290	12-23	F10	171	231	45

Note: If the user needs other sizes and materials of butterfly valves, please specify when ordering.



Stainless steel butterfly valve



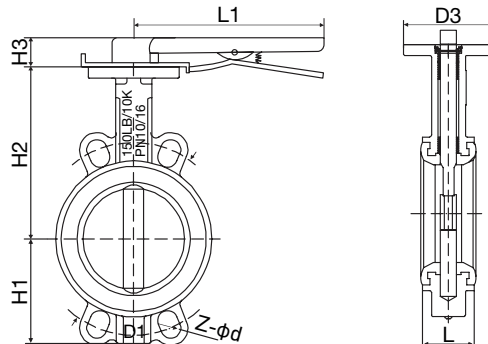
Main dimensions

DN (mm)	L	L1	D	PN1.0		PN1.6		150Lb		10K		D3 Flange No.	H1	H2	H3
				D1	Z-φd	D1	Z-φd	D1	Z-φd	D1	Z-φd				
50	42	160	52.9	125	4-19	125	4-23	120.6	4-19	120	4-19	F05	73	125	60
65	44.7	160	64.5	145	4-19	145	4-23	139.7	4-19	140	4-19	F05	82	136	60
80	45.2	160	78.8	160	8-19	160	8-20	152.4	4-19	150	8-19	F05	91	142	60
100	52.1	160	104	180	8-19	180	4-23	190.5	8-19	175	8-19	F07	104	163	60
125	54.4	160	123.3	210	8-19	210	4-23	215.9	8-22	210	8-23	F07	127	176	60
150	55.8	160	155.6	240	8-23	240	4-25	241.3	8-22	240	8-23	F07	138	197	60
200	60.6	210	202.5	295	8-23	295	4-25	298.5	8-22	290	12-23	F10	170	230	72
250	65.6	210	250.5	350	12-23	355	4-28	362	12-25	355	12-25	F10	204	261	72
300	77	210	301.6	400	12-23	410	4-28	432	12-25	400	16-25	F10/12	241	294	75
350	76.5	210	333.3	460	16-23	470	4-30	476	12-29	445	16-25	F10/12	263	335	75
400	86.5	320	389.6	515	16-28	525	4-30	540	16-29	510	16-27	F14/16	309	400	126
450	105.6	320	440.5	565	20-28	585	4-30	578	16-32	565	20-27	F14/16	328	420	126
500	132	320	491.6	620	20-28	650	4-33	635	20-32	620	20-27	F14/16	361	480	126
600	152	340	592.5	725	20-31	770	4-36	749.5	20-35	730	24-32	F16	459	560	127
700	163	380	695	840	24-31	840	24-36	864	28-35	840	24-33	F25	520	624	167
800	188	380	794.7	950	24-34	950	24-39	978	28-41	950	28-33	F25	590	680	167
900	203	400	864.7	1050	28-34	1050	28-39	1086	32-41	1050	28-33	F25	656	720	193
1000	216	400	965	1160	28-37	1170	28-42	1200	36-41	1160	28-39	F25	720	800	193
1200	276	450	1158	1380	32-40	1390	28-49	1422	44-41	1380	32-39	F30	844	941	

Note: If the user needs other sizes and materials of butterfly valves, please specify when ordering.



Soft back butterfly valve



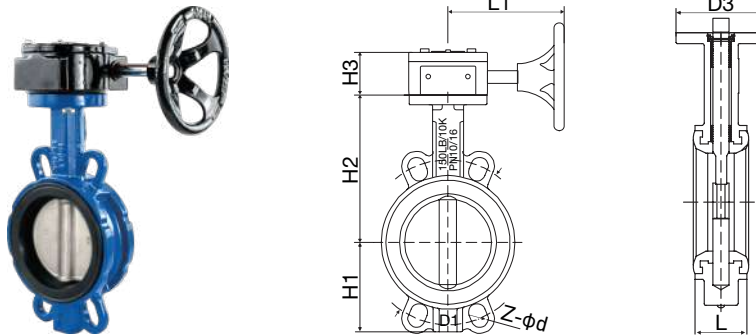
Main dimensions

DN (mm)	L	L1	D	PN1.0		PN1.6		150Lb		10K		D3 Flange No.	H1	H2	H3
				D1	Z-φd	D1	Z-φd	D1	Z-φd	D1	Z-φd				
50	42	220	52.9	125	4-23	125	4-23	120.6	4-19	120	4-19	F05	70	126	32
65	44.7	220	64.5	145	4-23	145	4-23	139.7	4-19	140	4-19	F05	77	137	32
80	45.2	255	78.8	160	8-20	160	8-20	152.4	4-19	150	8-19	F05	92	143	32
100	52.1	255	104	180	4-23	180	4-23	190.5	8-19	175	8-19	F07	105	164	32
125	54.4	290	123.3	210	4-23	210	4-23	215.9	8-22	210	8-23	F07	120	177	32
150	55.8	290	155.6	240	4-25	240	4-25	241.3	8-22	240	8-23	F07	134	198	32
200	60.6	340	202.5	295	4-25	295	4-25	298.5	8-22	290	12-23	F10	171	231	45

Note: If the user needs other sizes and materials of butterfly valves, please specify when ordering.



Soft back butterfly valve



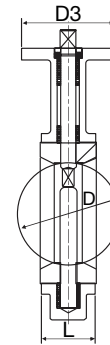
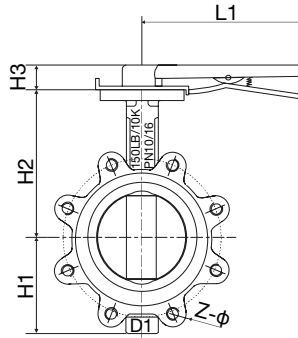
Main dimensions

DN (mm)	L	L1	D	PN1.0		PN1.6		150Lb		10K		D3 Flange No.	H1	H2	H3
				D1	Z-φd	D1	Z-φd	D1	Z-φd	D1	Z-φd				
50	42	160	52.9	125	4-19	125	4-23	120.6	4-19	120	4-19	F05	73	125	60
65	44.7	160	64.5	145	4-19	145	4-23	139.7	4-19	140	4-19	F05	82	136	60
80	45.2	160	78.8	160	8-19	160	8-20	152.4	4-19	150	8-19	F05	91	142	60
100	52.1	160	104	180	8-19	180	4-23	190.5	8-19	175	8-19	F07	104	163	60
125	54.4	160	123.3	210	8-19	210	4-23	215.9	8-22	210	8-23	F07	127	176	60
150	55.8	160	155.6	240	8-23	240	4-25	241.3	8-22	240	8-23	F07	138	197	60
200	60.6	210	202.5	295	8-23	295	4-25	298.5	8-22	290	12-23	F10	170	230	72
250	65.6	210	250.5	350	12-23	355	4-28	362	12-25	355	12-25	F10	204	261	72
300	77	210	301.6	400	12-23	410	4-28	432	12-25	400	16-25	F10/12	241	294	75
350	76.5	210	333.3	460	16-23	470	4-30	476	12-29	445	16-25	F10/12	263	335	75
400	86.5	320	389.6	515	16-28	525	4-30	540	16-29	510	16-27	F14/16	309	400	126
450	105.6	320	440.5	565	20-28	585	4-30	578	16-32	565	20-27	F14/16	328	420	126
500	132	320	491.6	620	20-28	650	4-33	635	20-32	620	20-27	F14/16	361	480	126
600	152	340	592.5	725	20-31	770	4-36	749.5	20-35	730	24-32	F16	459	560	127
700	163	380	695	840	24-31	840	24-36	864	28-35	840	24-33	F25	520	624	167
800	188	380	794.7	950	24-34	950	24-39	978	28-41	950	28-33	F25	590	680	167
900	203	400	864.7	1050	28-34	1050	28-39	1086	32-41	1050	28-33	F25	656	720	193
1000	216	400	965	1160	28-37	1170	28-42	1200	36-41	1160	28-39	F25	720	800	193
1200	276	450	1158	1380	32-40	1390	28-49	1422	44-41	1380	32-39	F30	844	941	

Note: If the user needs other sizes and materials of butterfly valves, please specify when ordering.



Lug type butterfly valve



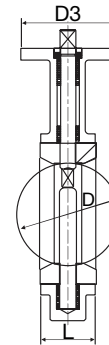
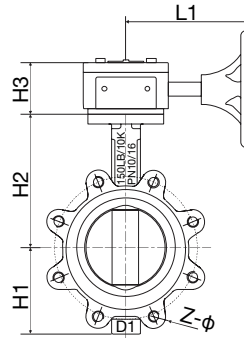
Main dimensions

DN (mm)	L	L1	D	PN1.0		PN1.6		150Lb		10K		D3 Flange No.	H1	H2	H3
				D1	Z-φ	D1	Z-φ	D1	Z-φ	D1	Z-φ				
50	42	220	52.9	125	4-M16	125	4-M16	120.6	4-5/8"	120	4-M16	F05	73	125	32
65	44.7	220	64.5	145	4-M16	145	4-M16	139.7	4-5/8"	140	4-M16	F05	82	136	32
80	45.2	255	78.8	160	8-M16	160	8-M16	152.4	4-5/8"	150	8-M16	F05	91	142	32
100	52.1	255	104	180	8-M16	180	8-M16	190.5	8-5/8"	175	8-M16	F07	104	163	32
125	54.4	290	123.3	210	8-M16	210	8-M16	215.9	8-3/4"	210	8-M20	F07	127	176	32
150	55.8	290	155.6	240	8-M20	240	8-M20	241.3	8-3/4"	240	8-M20	F07	138	197	32
200	60.6	340	202.5	295	8-M20	295	8-M20	298.5	8-3/4"	290	12-M20	F10	170	230	45

Note: If the user needs other sizes and materials of butterfly valves, please specify when ordering.



Lug type butterfly valve



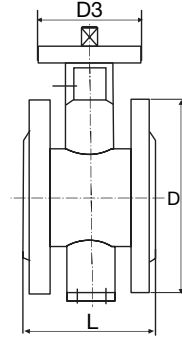
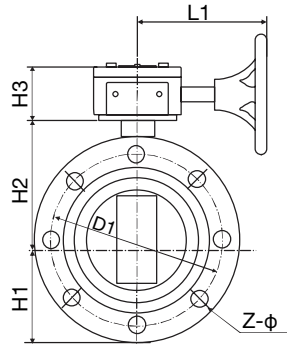
Main dimensions

DN (mm)	L	L1	D	PN1.0		PN1.6		150Lb		10K		D3 Flange No.	H1	H2	H3
				D1	Z-φ	D1	Z-φ	D1	Z-φ	D1	Z-φ				
50	42	160	52.9	125	4-M16	125	4-M16	120.6	4-5/8"	120	4-M16	F05	73	125	60
65	44.7	160	64.5	145	4-M16	145	4-M16	139.7	4-5/8"	140	4-M16	F05	82	136	60
80	45.2	160	78.8	160	8-M16	160	8-M16	152.4	4-5/8"	150	8-M16	F05	91	142	60
100	52.1	160	104	180	8-M16	180	8-M16	190.5	8-5/8"	175	8-M16	F07	104	163	60
125	54.4	160	123.3	210	8-M16	210	8-M16	215.9	8-3/4"	210	8-M20	F07	127	176	60
150	55.8	160	155.6	240	8-M20	240	8-M20	241.3	8-3/4"	240	8-M20	F07	138	197	60
200	60.6	210	202.5	295	8-M20	295	8-M20	298.5	8-3/4"	290	12-M20	F10	170	230	72
250	65.6	210	250.5	350	12-M20	355	12-M24	362	12-7/8"	355	12-M22	F10	204	261	72
300	77	210	301.6	400	12-M20	410	12-M24	432	12-7/8"	400	16-M22	F10/12	241	294	75
350	76.5	210	333.3	460	16-M20	470	16-M24	476	12-1"	445	16-M22	F10/12	263	335	75
400	86.5	320	389.6	515	16-M24	525	16-M27	540	16-1"	510	16-M24	F14/16	309	400	126
450	105.6	320	440.5	565	20-M24	585	20-M27	578	16-1-1/8"	565	20-M24	F14/16	328	420	126
500	132	320	491.6	620	20-M24	650	20-M30	635	20-1-1/8"	620	20-M24	F14/16	361	480	126
600	152	340	592.5	725	20-M27	770	20-M33	749.5	20-1-1/4"	730	24-M30	F16	459	560	127
700	163	380	695	840	24-M27	840	24-M33	864	28-1-1/4"	840	24-M30	F25	520	624	167
800	188	380	794.7	950	24-M30	950	24-M36	978	28-1-1/2"	950	28-M30	F25	590	680	167
900	203	400	864.7	1050	28-M30	1050	24-M30	1086	32-1-1/2"	1050	28-M30	F25	656	720	193
1000	216	400	965	1160	28-M33	1170	28-M36	1200	36-1-1/2"	1160	28-M36	F25	720	800	193
1200	276	450	1158	1380	32-M36	1390	28-M39	1422	44-1-1/2"	1380	32-M36	F30	844	941	

Note: If the user needs other sizes and materials of butterfly valves, please specify when ordering.



Flange butterfly valve



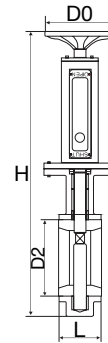
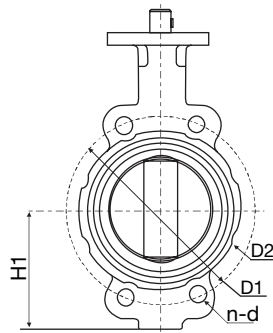
Main dimensions

DN (mm)	L	L1	PN1.0			PN1.6			150Lb			10K			D3 Flange No.	H1	H2	H3
			D	D1	Z-φd	D	D1	Z-φd	D	D1	Z-φd	D	D1	Z-φd				
50	108	160	165	125	4-19	165	125	4-23	150	120.6	4-19	155	120	4-19	F05	73	125	60
65	112	160	185	145	4-19	185	145	4-23	180	139.7	4-19	175	140	4-19	F05	82	136	60
80	114	160	200	160	8-19	200	160	8-20	190	152.4	4-19	185	150	8-19	F05	91	142	60
100	127	160	220	180	8-19	220	180	4-23	230	190.5	8-19	210	175	8-19	F07	104	163	60
125	140	160	250	210	8-19	250	210	4-23	255	215.9	8-22	250	210	8-23	F07	127	176	60
150	140	160	285	240	8-23	285	240	4-25	280	241.3	8-22	280	240	8-23	F07	138	197	60
200	152	210	340	295	8-23	340	295	4-25	345	298.5	8-22	330	290	12-23	F10	170	230	72
250	165	210	395	350	12-23	405	355	4-28	405	362	12-25	400	355	12-25	F10	204	261	72
300	178	210	445	400	12-23	460	410	4-28	485	432	12-25	445	400	16-25	F10/12	241	294	75
350	190	210	505	460	16-23	520	470	4-30	535	476	12-29	490	445	16-25	F10/12	263	335	75
400	216	320	565	515	16-28	580	525	4-30	600	540	16-29	560	510	16-27	F14/16	309	400	126
450	222	320	615	565	20-28	640	585	4-30	635	578	16-32	620	565	20-27	F14/16	328	420	126
500	229	320	670	620	20-28	715	650	4-33	700	635	20-32	675	620	20-27	F14/16	361	480	126
600	267	340	780	725	20-31	840	770	4-36	815	749.5	20-35	795	730	24-32	F16	459	560	127
700	292	380	895	840	24-31	910	840	24-36	-	864	28-35	905	840	24-33	F25	520	624	167
800	318	380	1015	950	24-34	1025	950	24-39	-	978	28-41	1020	950	28-33	F25	590	680	167
900	330	400	1115	1050	28-34	1125	1050	28-39	-	1086	32-41	1120	1050	28-33	F25	656	720	193
1000	410	400	1230	1160	28-37	1255	1170	28-42	-	1200	36-41	1235	1160	28-39	F25	720	800	193
1200	470	450	1455	1380	32-40	1485	1390	28-49	-	1422	44-41	1465	1380	32-39	F30	844	941	

Note: If the user needs other sizes and materials of butterfly valves, please specify when ordering.



Marine butterfly valve



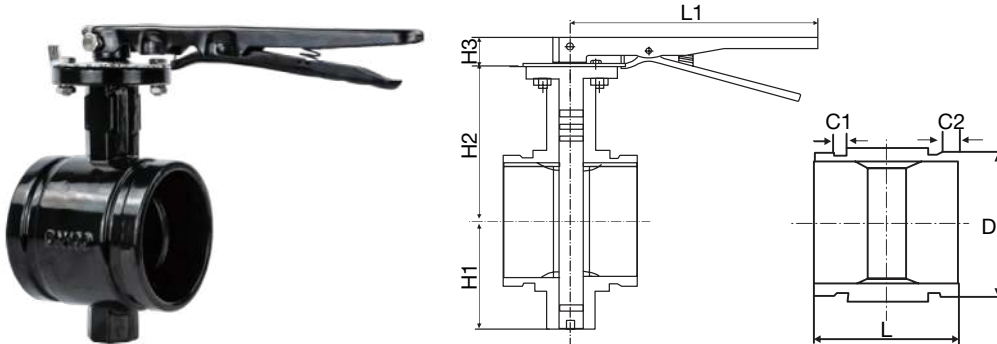
Main dimensions

DN (mm)	ISO JIS GB				ISO (GB2501-89)				JIS				GB (GB569-65)				ISO		JIS		GB	
	H	H1	D0	S	L	D	D1	D2	L	D	D1	D2	L	D	D1	D2	n	d	n	d	n	d
50	420	80	180	14	43	165	125	102	40	155	120	88	43	135	103	84	4	18	4	19	6	16
65	435	85	180	14	46	185	145	122	40	157	140	112	46	155	123	104	4	18	4	19	6	16
80	480	120	180	14	46	200	160	133	60	185	150	125	46	170	138	118	8	18	4	19	8	16
100	500	135	200	17	52	220	180	158	60	210	175	144	52	190	158	138	8	M16	8	M16	8	M14
125	570	150	200	17	56	250	210	184	60	250	210	178	56	215	183	164	8	M16	8	M20	10	M14
150	600	165	250	22	56	280	240	212	70	280	240	207	56	240	208	190	8	M20	8	M20	12	M14
200	700	190	250	22	60	340	295	268	80	330	290	260	60	310	273	250	8	M20	12	M20	12	M16
250	770	225	280	24	68	395	350	320	90	400	355	316	68	380	360	310	12	M20	12	M22	14	M20
300	860	250	280	24	78	445	400	370	90	445	400	361	78	435	391	364	12	M20	16	M22	16	M20
350	920	280	320	27	78	505	460	430	100	490	445	404	78	485	441	414	16	M20	16	M22	18	M20
400	980	310	320	27	102	565	515	482	110	560	510	462	102	545	496	466	16	M24	16	M24	18	M24

Note: If the user needs other sizes and materials of butterfly valves, please specify when ordering.



Grooved butterfly valve



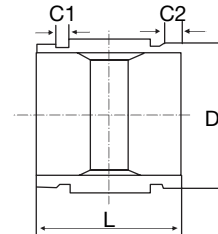
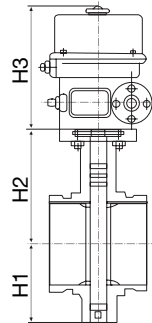
Main dimensions

DN (mm)	L	D	C1	C2	H2	H1	L1	H3	L
50	92	60	8	16	100	53	266.7	32	52
65	102	76	8	16	108	61	266.7	32	52
80	102	89	8	16	114	68	266.7	32	52
100	116	114	10	16	136	85	266.7	32	52
125	125	141	10	16	162	99	266.7	32	52
150	125	165	10	16	174	111	266.7	32	52
200	138	219	11	19	230	145	359	50	75.2

Note: If the user needs other sizes and materials of butterfly valves, please specify when ordering.



Grooved butterfly valve



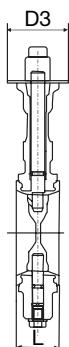
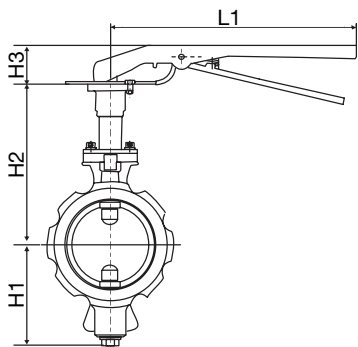
Main dimensions

DN (mm)	L	D	H2	H1	H3	C1	C2
50	92	60	100	53	150	8	16
65	105	76	106	57	150	8	16
80	106	89	122	74	150	8	16
100	121	114	138	87	150	10	16
125	129	141	148	94	150	10	16
150	154	165	154	103	150	10	16
200	191	219	206	140	150	11	19
250	191	273	230	190	150	13	19

Note: If the user needs other sizes and materials of butterfly valves, please specify when ordering.



Anti-dew butterfly valve

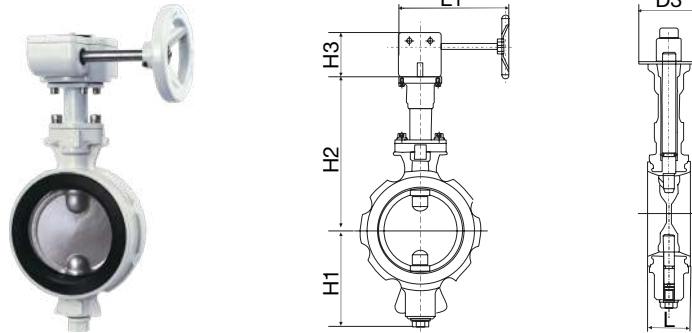


Main dimensions

DN (mm)	d	L	Z	H1	H2	H3	L1	L2	D1
25-32	33	33	70	40	95	27	30	33	113
40	44	33	81	43	100	27	30	33	113
50	52	43	101	65	130	28	49	63	180
65	67	46	121	75	140	28	49	63	180
80	81.5	46	130.7	83	153	28	49	63	180
100	103	52	156	97	168	39	53	63	228
125	125	56	185.9	119	203	39	53	63	228
150	149	59	218	134	215	39	53	63	228



Anti-dew butterfly valve

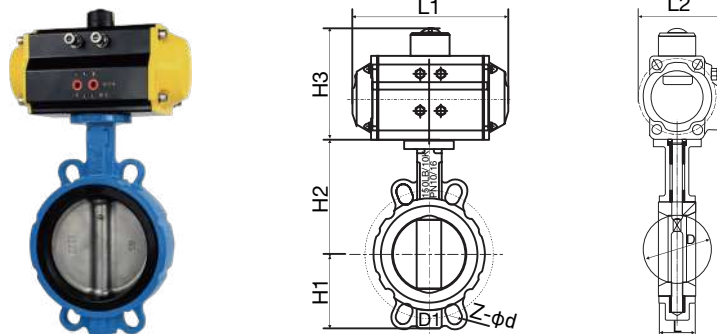


Main dimensions

DN (mm)	d	L	Z	H1	H2	H3	L1	L2	S	D1
50	52	43	101.3	65	130	157	43.5	45	136	120
65	67	46	121	75	140	167	43.5	45	136	120
80	81.5	46	130.7	83	153	180	43.5	45	136	120
100	103	52	156	97	168	196	43.5	45	136	120
125	125	56	185.9	119	203	231	43.5	45	136	120
150	149	59	218	134	215	243	43.5	45	136	120
200	199	60	267	170	246	273	52	46	127	160
250	248	68	315	214	330	370	67	81	224	250
300	298	78	364	251	358	398	67	81	224	250



Pneumatic butterfly valve



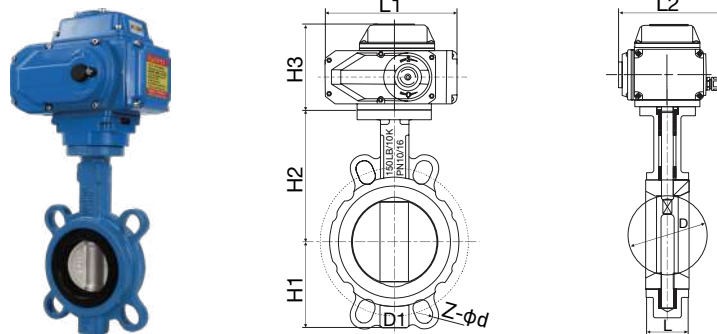
Main dimensions

DN (mm)	L	L1	L2	D	PN1.0		PN1.6		150Lb		10K		D3 Flange No.	H1	H2	H3
					D1	Z-φd	D1	Z-φd	D1	Z-φd	D1	Z-φd				
50	42	184	83	52.9	125	4-19	125	4-23	120.6	4-19	120	4-19	F05	73	125	120
65	44.7	184	83	64.5	145	4-19	145	4-23	139.7	4-19	140	4-19	F05	82	136	120
80	45.2	184	83	78.8	160	8-19	160	8-20	152.4	4-19	150	8-19	F05	91	142	120
100	52.1	204	103	104	180	8-19	180	4-23	190.5	8-19	175	8-19	F07	104	163	129
125	54.4	204	103	123.3	210	8-19	210	4-23	215.9	8-22	210	8-23	F07	127	176	129
150	55.8	244	103	155.6	240	8-23	240	4-25	241.3	8-22	240	8-23	F07	138	197	129
200	60.6	268	122	202.5	295	8-23	295	4-25	298.5	8-22	290	12-23	F10	170	230	153
250	65.6	268	122	250.5	350	12-23	355	4-28	362	12-25	355	12-25	F10	204	261	153
300	77	301	143	301.6	400	12-23	410	4-28	432	12-25	400	16-25	F10/12	241	294	175
350	76.5	301	143	333.3	460	16-23	470	4-30	476	12-29	445	16-25	F10/12	263	335	175
400	86.5	525	206	389.6	515	16-28	525	4-30	540	16-29	510	16-27	F14/16	309	400	260
450	105.6	525	206	440.5	565	20-28	585	4-30	578	16-32	565	20-27	F14/16	328	420	260
500	132	532	226	491.6	620	20-28	650	4-33	635	20-32	620	20-27	F14/16	361	480	285
600	152	602	260	592.5	725	20-31	770	4-36	749.5	20-35	730	24-32	F16	459	560	319
700	163			695	840	24-31	840	24-36	864	28-35	840	24-33	F25	520	624	
800	188			794.7	950	24-34	950	24-39	978	28-41	950	28-33	F25	590	680	
900	203			864.7	1050	28-34	1050	28-39	1086	32-41	1050	28-33	F25	656	720	
1000	216			965	1160	28-37	1170	28-42	1200	36-41	1160	28-39	F25	720	800	
1200	276			1158	1380	32-40	1390	28-49	1422	44-41	1380	32-39	F30	844	941	

Note: If the user needs other sizes and materials of butterfly valves, please specify when ordering.



Electric butterfly valve



Main dimensions

DN (mm)	L	L1	L2	D	PN1.0		PN1.6		150Lb		10K		D3 Flange No.	H1	H2	H3
					D1	Z-φd	D1	Z-φd	D1	Z-φd	D1	Z-φd				
50	42	164	136	52.9	125	4-19	125	4-23	120.6	4-19	120	4-19	F05	73	125	180
65	44.7	164	136	64.5	145	4-19	145	4-23	139.7	4-19	140	4-19	F05	82	136	180
80	45.2	164	136	78.8	160	8-19	160	8-20	152.4	4-19	150	8-19	F05	91	142	180
100	52.1	210	156	104	180	8-19	180	4-23	190.5	8-19	175	8-19	F07	104	163	190
125	54.4	210	156	123.3	210	8-19	210	4-23	215.9	8-22	210	8-23	F07	127	176	190
150	55.8	210	156	155.6	240	8-23	240	4-25	241.3	8-22	240	8-23	F07	138	197	190
200	60.6	256	179	202.5	295	8-23	295	4-25	298.5	8-22	290	12-23	F10	170	230	210
250	65.6	256	179	250.5	350	12-23	355	4-28	362	12-25	355	12-25	F10	204	261	210
300	77	256	179	301.6	400	12-23	410	4-28	432	12-25	400	16-25	F10/12	241	294	210
350	76.5	256	179	333.3	460	16-23	470	4-30	476	12-29	445	16-25	F10/12	263	335	210
400	86.5	280	179	389.6	515	16-28	525	4-30	540	16-29	510	16-27	F14/16	309	400	290
450	105.6	280	179	440.5	565	20-28	585	4-30	578	16-32	565	20-27	F14/16	328	420	290
500	132	280	179	491.6	620	20-28	650	4-33	635	20-32	620	20-27	F14/16	361	480	290
600	152	280	179	592.5	725	20-31	770	4-36	749.5	20-35	730	24-32	F16	459	560	290
700	163			695	840	24-31	840	24-36	864	28-35	840	24-33	F25	520	624	
800	188			794.7	950	24-34	950	24-39	978	28-41	950	28-33	F25	590	680	
900	203			864.7	1050	28-34	1050	28-39	1086	32-41	1050	28-33	F25	656	720	
1000	216			965	1160	28-37	1170	28-42	1200	36-41	1160	28-39	F25	720	800	
1200	276			1158	1380	32-40	1390	28-49	1422	44-41	1380	32-39	F30	844	941	

Note: If the user needs other sizes and materials of butterfly valves, please specify when ordering.

Snowate



WeChat

WhatsApp

Ms Snow Zhao

snow@snowate.com

Mobile: +86-15030811699

(WhatsApp, WeChat)