FLOWTEC

Empowering Progress & Innovation

BUTTERFLY VALVE

FLOWTEC ENGINEERING (UK) LIMITED

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Corporate Office: 71-75 Shelton Street, Covent Garden, London- WC2H9JQ

COMPANY PROFILE

At **Flowtec Engineering (UK)** Limited, we have been leading the way in the fluid management industry since 1986. What began as a modest family-run business founded by Mr. Seth has since grown from strength to strength. Now, with the third generation actively involved in the company, we continue to expand our global footprint and deliver exceptional products and services to a diverse range of industries.

Specializing in the design, manufacture, and supply of pumps, valves, mechanical seals, pipes, and pipe fittings, we proudly serve sectors including marine, oil & gas, industrial, and domestic applications.

Our headquarters are based in London, United Kingdom, and we operate state-of-the-art manufacturing facilities in India, China, and South Korea. Ensure we meet the needs of our customers worldwide, we have strategically located sales offices, enabling us to offer comprehensive support and service on a global scale.

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PRODUCTION EQUIPMENT

At **Flowtec (UK),** we believe that **quality is the lifeblood** of our business. Internally, we foster a strong corporate culture that values excellence, while continuously implementing a robust quality assurance system. Externally, we communicate our corporate ethos and set up a solid brand identity, ensuring that our values are reflected in everything we do.

Guaranteeing the highest standards of product quality, we are equipped with innovative production and testing facilities. Quality is seamlessly integrated into every side of our operations, driving tangible results and enhancing performance across the board.

The journey towards quality is one we take step by step, steadily advancing and ultimately benefiting customers around the world. We are committed to becoming a trusted and respected brand in the valve industry, known for our reliability and dedication to excellence.

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TECHNOLOGY CREATES PERFECTION, QUALITY CREATES BRILLIANCE

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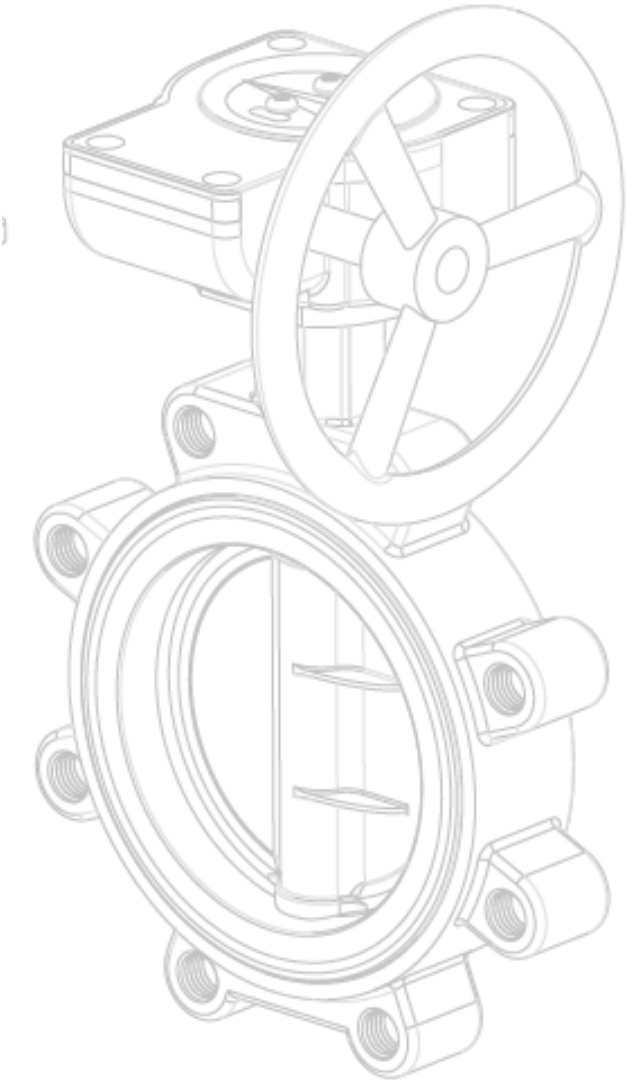

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Handle/Worm Gear Series

Product characteristics

The handle supplied by Flowtec (UK) is designed for both switching and pressure regulation. Simply grip the handle firmly, and you'll be able to rotate it through 90 degrees. It is equipped with a spring-locking mechanism and a valve plate position indicator for enhanced control and accuracy.
The tooth plate is securely fixed, and a limit switch device is incorporated to prevent the valve from exceeding its designated operating range, always ensuring smooth and safe operation.

Product characteristics

Turning the handwheel clockwise will close the valve, while turning it counterclockwise will open it. The valve features a self-locking worm gear that allows for precise adjustment to the desired position. It is equipped with a handwheel, a valve position indicator, and a mechanical travel limit device, enabling on-site adjustment to a specific rotation angle.

Note: Other devices can be configured according to customer requirements

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Pneumatic/Electric Actuator Series

Product characteristics

Our company is proud to introduce a new pneumatic actuator, the result of extensive optimisation and innovation. By incorporating the latest materials and manufacturing processes, we have enhanced both the quality and performance of our products, ensuring greater reliability.
Each product in this series is meticulously manufactured in accordance with stringent technical standards, fully meeting the requirements of your applications.

Product characteristics

The **electric actuator** boasts a unique design and an extended operational life. Our latest innovation, **the bracket-free coupling type,** enhances the compactness, lightweight nature, and stability of the electric device, while also improving its precision.

Note: Other devices can be configured according to customer requirements

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Wafer Butterfly Valve

Product Overview

The **wafer butterfly valve** features a valve plate installed in the diameter direction of the pipeline. Within the cylindrical channel of the valve body, the disc-shaped valve plate rotates around a central axis, with a rotation range from 0° to 90°. When the valve reaches 90°, it is fully open. Typically, this valve is installed horizontally.

This type of valve is ideal for regulating flow and controlling the interception of media in water supply and gas pipelines. It finds application across a broad range of industries, including food and beverage, pharmaceuticals, chemicals, petroleum, power generation, metallurgy, urban infrastructure, textiles, papermaking, and more.

At FLOWTEC (UK), we offer wafer butterfly valves designed to provide reliable performance and efficient flow control for a diverse array of industrial applications.

Product Features

1. Compact and lightweight, making it easy to disassemble and maintain, with the flexibility to be installed in any orientation.
2. Simple and compact design, enabling rapid opening and closing with just a 90° rotation.
3. Low operating torque, ensuring ease of use and reducing physical effort.
4. Capable of withstanding up to ten thousand cycles of opening and closing, offering an extended service life.
5. Linear flow characteristics, delivering excellent regulation performance.
6. Achieves complete sealing with zero gas leakage during testing.
7. By selecting different materials for components, the valve can be tailored to handle a wide range of media.

Executive Standard

- Design standard: GB/T 12238
- Structural length: GB/T 12221
- Flange connection size: HG/T 20592
- Test standard: GB/T 26480

Technical Features

A(Mpa)Nominal pressure		0.6	1.0	1.6
Test pressure	Shell Test	0.9	1.5	2.4
	Low Pressure Test	/	/	/
	High Pressure Test	0.66	1.1	1.76
Applicable temperature		≤ 120°C		
Applicable medium		Water, Steam, oil and other non-corrosive		
Drive Device		Manual, worm gear drive, pneumatic drive, electric drive		

Main Materials

Part Name	Body	Stem	Disc	Seat
Available Materials	QT450, WCB 304	45#, 2Cr13 304	QT450, 304, 316, 316L, 2507,1.4529, Nylon board, Rubber lined board, copper plate	EPDM, PTFE

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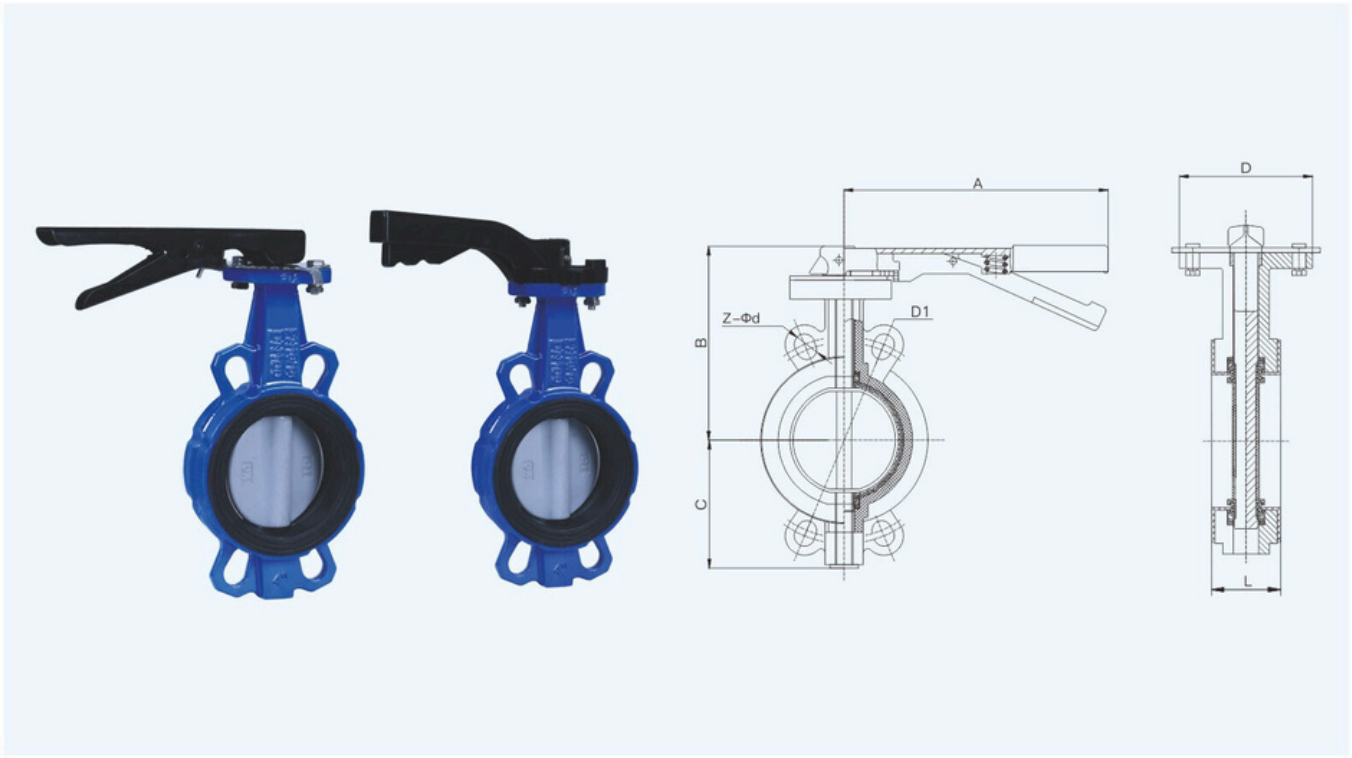
Worm Gear Water Butterfly Valve



Main Overall Dimensions

mm

DN (mm)	A	B	C	D	L	1.0MPa		1.6MPa	
						D1	Z-Φd	D1	Z-Φd
40	218	170	72	76	42	110	4-Φ18	110	4-Φ18
50	218	170	72	76	42	125	4-Φ18	125	4-Φ18
65	218	180	90	76	45	145	4-Φ18	145	4-Φ18
80	218	199	99	76	45	160	8-Φ18	160	8-Φ18
100	254	204	111	90	52	180	8-Φ18	180	8-Φ18
125	254	218	127	90	56	210	8-Φ18	210	8-Φ18
150	254	233	137	90	56	240	8-Φ22	240	8-Φ22
200	368	269	176	115	60	295	8-Φ22	295	12-Φ22
250	370	315	208	115	68	350	12-Φ22	355	12-Φ26
300	370	351	242	140	78	400	12-Φ22	410	12-Φ26

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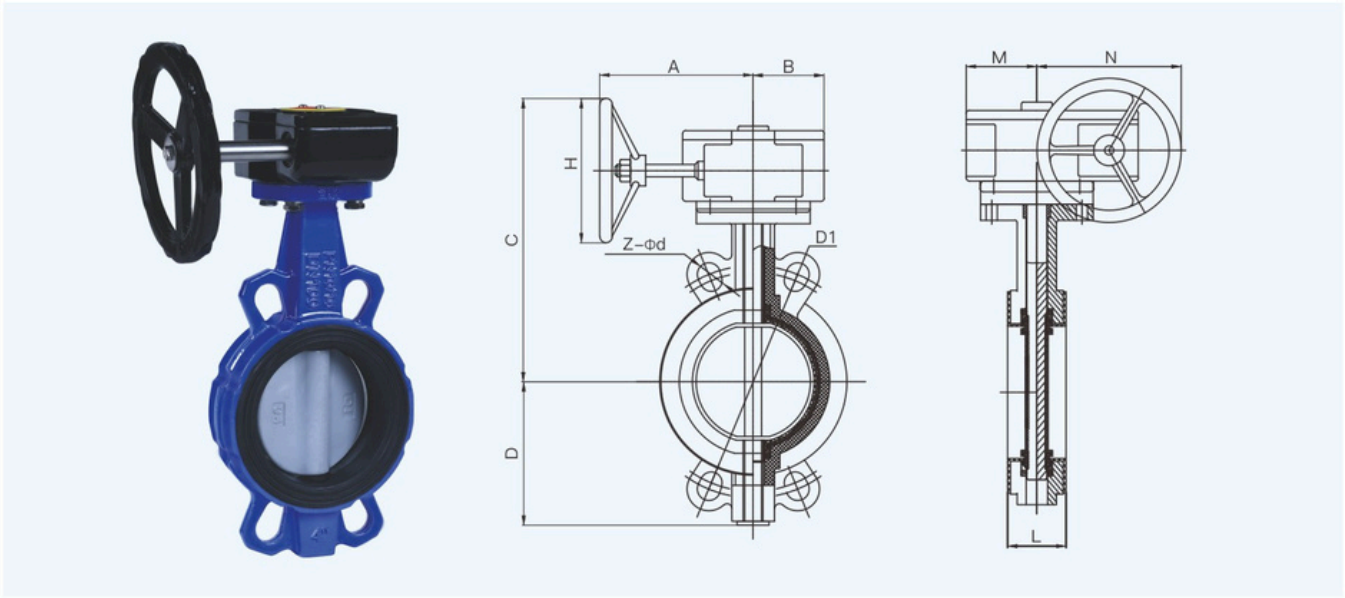
Worm Gear Water Butterfly Valve



Main Overall Dimensions

mm

DN (mm)	A	B	C	D	M	N	L	H	1.0MPa		1.6MPa	
									D1	Z-Φd	D1	Z-Φd
40	114	47	244	72	57	125	42	159	110	4-Φ18	110	4-Φ18
50	114	47	244	72	57	125	42	159	125	4-Φ18	125	4-Φ18
65	114	47	254	90	57	125	45	159	145	4-Φ18	145	4-Φ18
80	114	47	269	99	57	125	45	159	160	8-Φ18	160	8-Φ18
100	116	49	199	111	57	125	52	159	180	8-Φ18	180	8-Φ18
125	116	52	293	127	57	125	56	159	210	8-Φ18	210	8-Φ18
150	116	52	307	137	57	125	56	159	240	8-Φ22	240	8-Φ22
200	175	65	406	176	77	194	60	274	295	8-Φ22	295	12-Φ22
250	175	73	452	208	80	206	68	274	350	12-Φ22	355	12-Φ26
300	169	77	488	242	86	217	78	274	400	12-Φ22	410	12-Φ26
350	169	77	536	263	86	217	78	274	460	16-Φ22	470	16-Φ26
400	220	160	640	320	120	280	86	280	515	16-Φ26	525	16-Φ30
450	230	160	639	346	120	280	114	280	565	20-Φ26	585	20-Φ30
500	230	160	688	365	120	280	127	280	620	20-Φ26	650	20-Φ33
600	250	160	862	428	135	385	154	380	725	20-Φ30	770	20-Φ36
700	310	160	961	429	160	430	165	390	840	24-Φ30	840	24-Φ36
800	310	160	1030	580	160	435	197	390	950	24-Φ34	950	24-Φ40
900	330	190	1092	650	175	450	211	390	1050	28-Φ34	1050	28-Φ40
1000	350	210	1180	705	190	450	227	390	1160	28-Φ37	1170	28-Φ43
1200	450	210	1325	810	250	540	248	440	1380	32-Φ41	1390	32-Φ45

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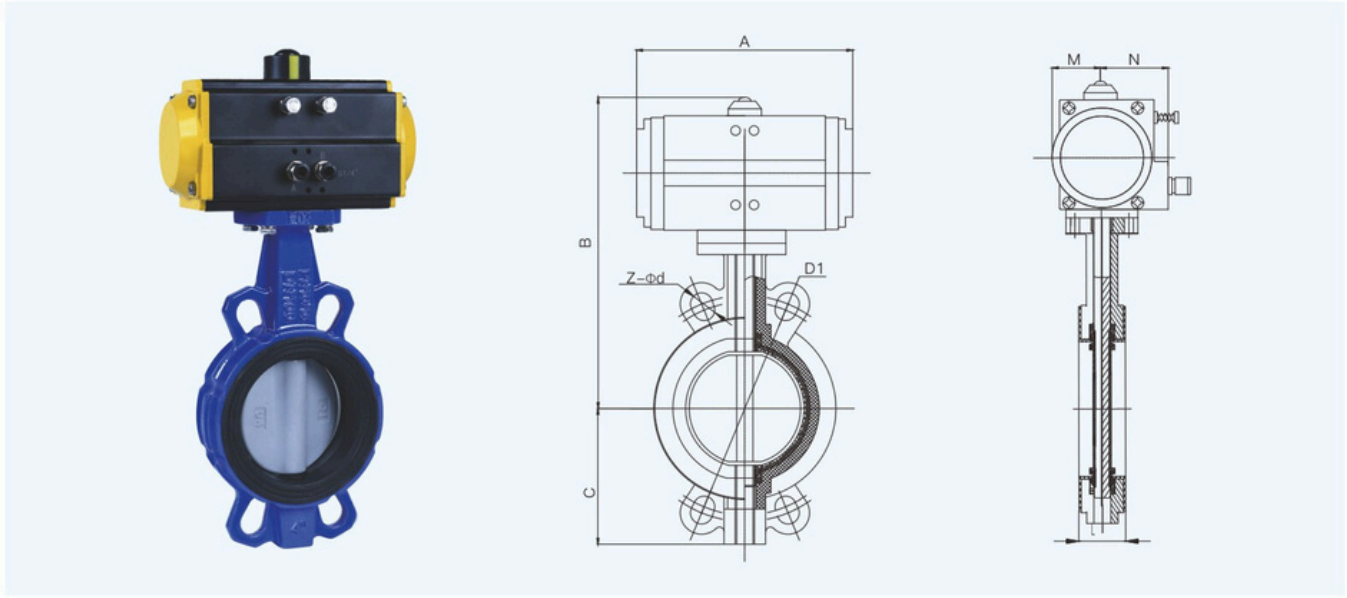
Pneumatic Wafer Butterfly Valve



Technical Features

A(Mpa)Nominal pressure		0.6	1.0	1.6
Test pressure	Shell Test	0.9	1.5	2.4
	Low Pressure Test	/	/	/
	High Pressure Test	0.66	1.1	1.76
Applicable temperature		≤ 120°C		
Applicable medium		Water, Steam, oil and other non-corrosive gases or liquids		
Drive Device		Pneumatic drive		

Main Overall Dimensions

mm

DN (mm)	A	B	C	M	N	L	1.0MPa		1.6MPa	
							D1	Z-Φd	D1	Z-Φd
40	147	232	72	30	42	42	110	4-Φ18	110	4-Φ18
50	147	232	72	30	42	42	125	4-Φ18	125	4-Φ18
65	168	257	90	36	47	45	145	4-Φ18	145	4-Φ18
80	184	278	99	42	53	45	160	8-Φ18	160	8-Φ18
100	210	303	111	46	57	52	180	8-Φ18	180	8-Φ18
125	262	325	127	50	59	56	210	8-Φ18	210	8-Φ18
150	273	356	137	58	64	56	240	8-Φ22	240	8-Φ22
200	301	404	176	68	74	60	295	8-Φ22	295	12-Φ22
250	400	468	208	75	77	68	350	12-Φ22	355	12-Φ26
300	458	529	242	87	89	78	400	12-Φ22	410	12-Φ26
350	525	619	263	103	103	78	460	16-Φ22	470	16-Φ26
400	535	680	320	113	113	86	515	16-Φ26	525	16-Φ30
450	595	714	346	130	130	114	565	20-Φ26	585	20-Φ30
500	722	799	365	147	147	127	620	20-Φ26	650	20-Φ33

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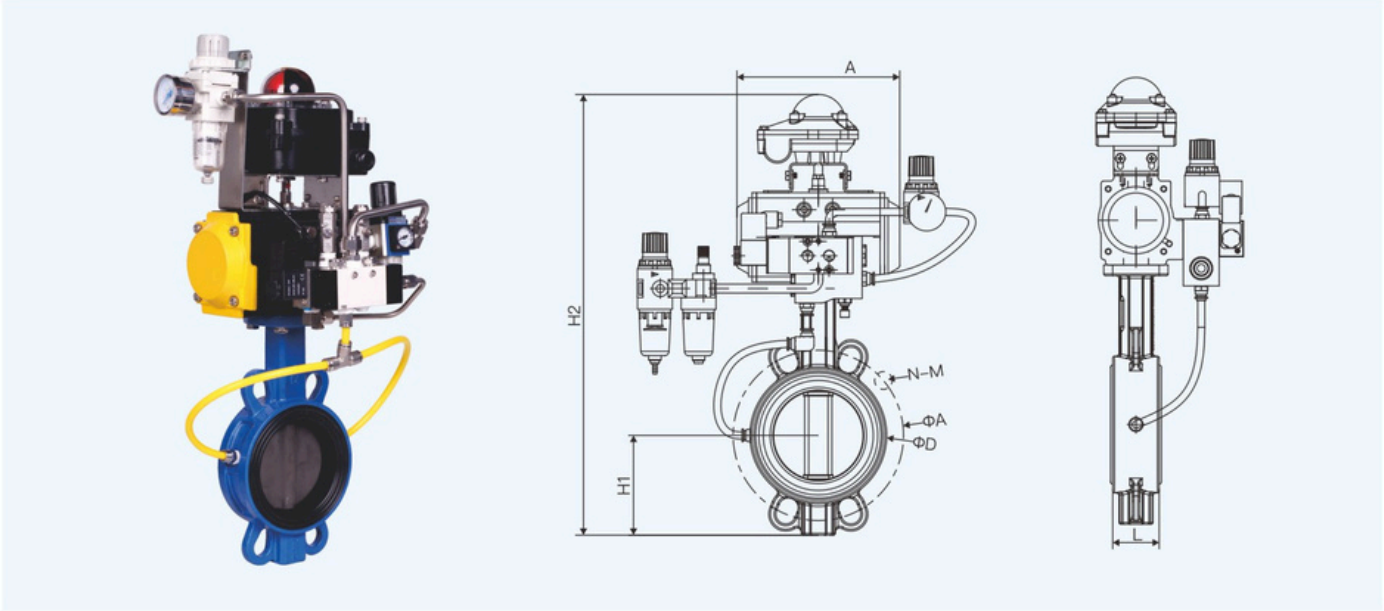
Pneumatic Expansion Butterfly Valve



Main Overall Dimensions

mm

DN (mm)	L	ΦA(PN10/16)	H1	N–M(PN10/16)	H2	ΦD	A
50	42	125	55	4–16	389	95	155
65	44	145	64	4–16	411	114	155
80	44	160	73	8–16	426	126	155
100	50	180	88	8–16	492	154	219
125	56	210	102	8–16	519	180	219
150	56	240	115	8–20	558	206	249
200	60	295	149	8–20/12–20	642	264	274
250	68	350/355	184	12–20/12–24	722	320	315
300	78	400/410	207	12–20/12–24	819	370	417
350	78	460/470	247	16–20/16–24	931	430	452
400	102	515/525	275	16–24/16–27	971	480	540
450	114	565/585	307	20–24/20–27	1091	550	585
500	127	650/656	330	20–24/20–30	1184	590	685
600	151	725/770	400	20–27/20–33	1375	695	743

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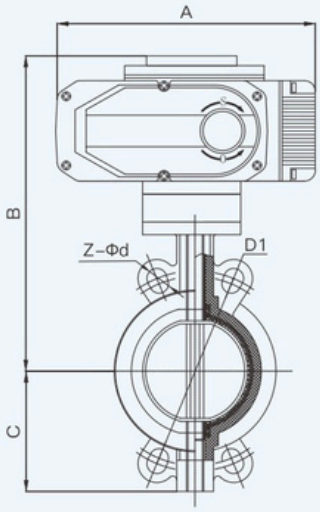
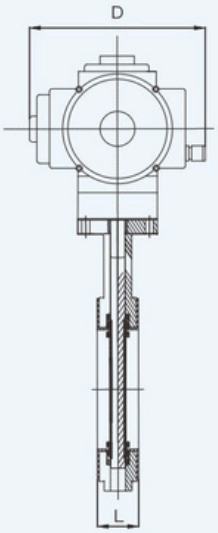
Electric Wafer Butterfly Valve





Technical Features

A(Mpa)Nominal pressure		0.6	1.0	1.6
Test pressure	Shell Test	0.9	1.5	2.4
	Low Pressure Test	/	/	/
	High Pressure Test	0.66	1.1	1.76
Applicable temperature		≤ 120˚C		
Applicable medium		Water, Steam, oil and other non-corrosive gases or liquids		
Drive Device		Electric drive		

Main Overall Dimensions

mm

DN (mm)	A	B	C	D	L	1.0MPa		1.6MPa	
						D1	Z-Φd	D1	Z-Φd
40	187	314	72	137	42	110	4-Φ18	110	4-Φ18
50	187	314	72	137	42	125	4-Φ18	125	4-Φ18
65	187	324	90	137	45	145	4-Φ18	145	4-Φ18
80	187	334	99	137	45	160	8-Φ18	160	8-Φ18
100	230	375	111	154	52	180	8-Φ18	180	8-Φ18
125	230	389	127	154	56	210	8-Φ18	210	8-Φ18
150	230	403	137	176	56	240	8-Φ22	240	8-Φ22
200	273	452	176	176	60	295	8-Φ22	295	12-Φ22
250	273	497	208	179	68	350	12-Φ22	355	12-Φ26
300	297	565	242	179	78	400	12-Φ22	410	12-Φ26
350	297	613	263	179	78	460	16-Φ22	470	16-Φ26
400	297	674	320	179	86	515	16-Φ26	525	16-Φ30
450	297	674	346	179	114	565	20-Φ26	585	20-Φ30

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Flanged Butterfly Valve

Product Overview

The flanged butterfly valve is installed within the pipeline, oriented in the direction of the diameter. Inside the cylindrical body of the valve, the disc-shaped butterfly plate rotates around a central axis, with a rotation range from 0° to 90°. When the valve is rotated to 90°, it reaches the fully open position. Typically, this valve is installed horizontally.

This valve is ideally suited for regulating and controlling the flow of media across a wide variety of industries, including food and beverage, pharmaceuticals, chemicals, petroleum, power generation, water treatment, construction, textiles, papermaking, shipbuilding, water supply and drainage, gas pipelines, and more.

At FLOWTEC (UK), we provide flanged butterfly valves designed for robust performance, offering precise flow control and reliable operation across diverse industrial applications

Product Features

1.Compact and Lightweight: The valve is small, lightweight, and easy to disassemble and maintain, offering the flexibility to be installed in any orientation.

2. Simple and Efficient Design: Featuring a straightforward and compact structure, the valve provides rapid opening and closing with a 90° rotation.

3. Low Operating Torque: Designed for ease of operation, the valve requires minimal effort to operate, making it both labour-saving and lightweight.

4. Long Lifespan: With up to ten thousand cycles of opening and closing, the valve boasts an extended service life and exceptional durability.

5. Linear Flow Characteristics: The valve delivers excellent regulation performance, with flow characteristics that are nearly linear.

6. Complete Sealing: The valve achieves a perfect seal, ensuring zero gas leakage during testing.

7. Versatile Material Options: By selecting different materials for the components, the valve can be adapted to handle a wide range of media.

Executive Standard

- Design standard: GB/T 12238
- Structural length: GB/T 12221
- Flange connection size: HG/T 20592
- Test standard: GB/T 26480

Technical Features

A(Mpa)Nominal pressure		0.6	1.0	1.6
Test pressure	Shell Test	0.9	1.5	2.4
	Low Pressure Test	/	/	/
	High Pressure Test	0.66	1.1	1.76
Applicable temperature		≤ 120°C		
Applicable medium		Water, Steam, oil and other non-corrosive gases or liquids		
Drive Device		Manual, worm gear drive, pneumatic drive, electric drive		

Main Materials

Part Name	Body	Stem	Disc	Seat
Available Materials	QT450, 304	45#, 2Cr13 304	QT450, 304, 316, 316L, 2507,1.4529, Nylon board, Rubber lined board, copper plate	EPDM, PTFE

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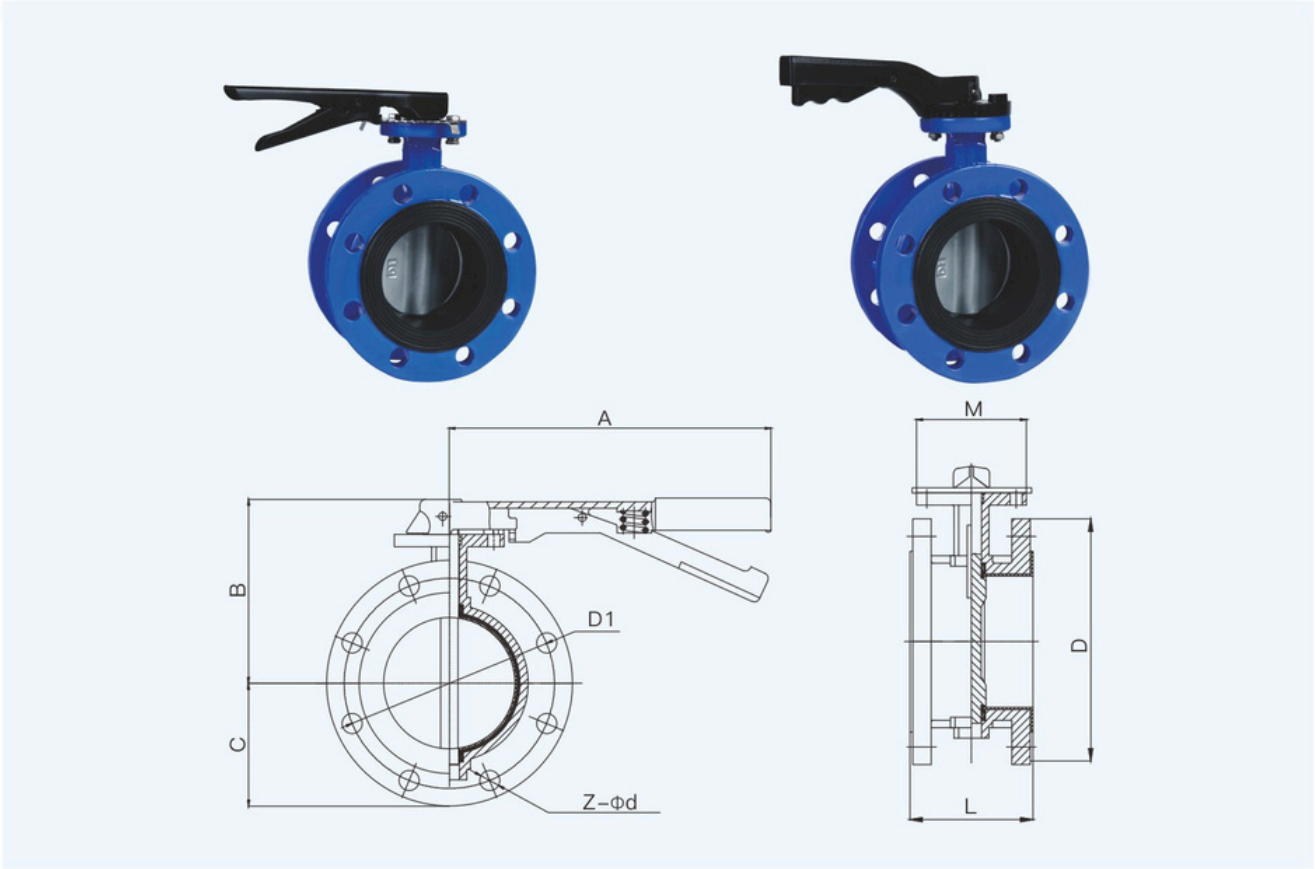
Handle Flange Butterfly Valve



Main Overall Dimensions

mm

DN (mm)	A	B	C	M	L	1.0MPa			1.6MPa		
						D1	D	Z-Φd	D1	D	Z-Φd
40	218	158	76	76	108	110	150	4-Φ18	110	150	4-Φ18
50	218	158	76	76	108	125	165	4-Φ18	125	165	4-Φ18
65	218	168	92	76	112	145	185	4-Φ18	145	185	4-Φ18
80	218	175	100	76	114	160	200	8-Φ18	160	200	8-Φ18
100	254	183	109	90	127	180	220	8-Φ18	180	220	8-Φ18
125	254	198	123	90	140	210	250	8-Φ18	210	250	8-Φ18
150	254	226	143	90	140	240	285	8-Φ22	240	285	8-Φ22
200	368	266	168	115	152	295	340	8-Φ22	295	340	12-Φ22
250	370	313	203	115	165	350	395	12-Φ22	355	405	12-Φ26
300	370	352	233	140	178	400	445	12-Φ22	410	460	12-Φ26

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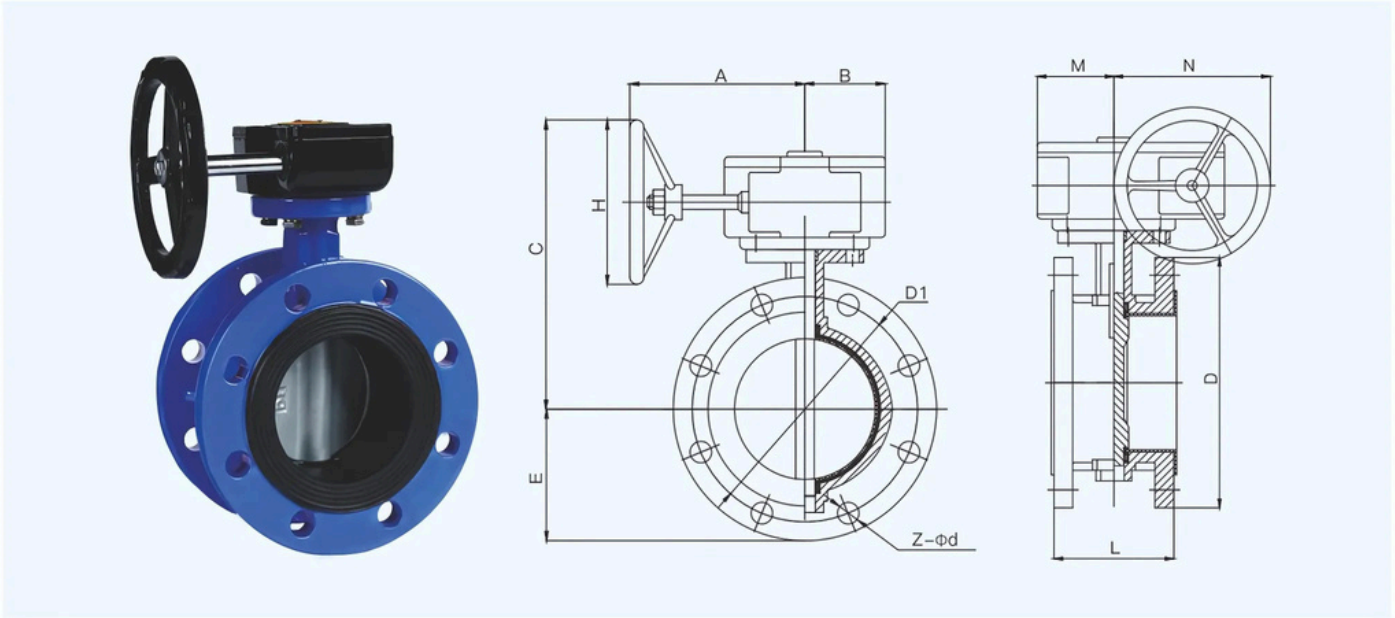
Worm Gear Flanged Butterfly Valve



Main Overall Dimensions

mm

DN	A	B	C	E	M	N	H	L	1.0MPa			1.6MPa		
									D1	D	Z-Φd	D1	D	Z-Φd
40	114	47	233	76	57	125	159	108	110	150	4-Φ18	110	150	4-Φ18
50	114	47	233	76	57	125	159	108	125	165	4-Φ18	125	165	4-Φ18
65	114	47	243	92	57	125	159	112	145	185	4-Φ18	145	185	4-Φ18
80	114	47	250	100	57	125	159	114	160	200	8-Φ18	160	200	8-Φ18
100	116	49	258	109	57	125	159	127	180	220	8-Φ18	180	220	8-Φ18
125	116	52	273	123	57	125	159	140	210	250	8-Φ18	210	250	8-Φ18
150	116	52	301	143	57	125	159	140	240	285	8-Φ22	240	285	8-Φ22
200	175	65	403	168	77	194	274	152	295	340	8-Φ22	295	340	12-Φ22
250	175	73	450	203	80	206	274	165	350	395	12-Φ22	355	405	12-Φ26
300	169	77	489	233	86	217	274	178	400	445	12-Φ22	410	460	12-Φ26
350	169	77	522	260	86	217	274	190	460	505	16-Φ22	470	520	16-Φ26
400	220	160	613	288	120	280	280	216	515	565	16-Φ26	525	580	16-Φ30
450	230	160	640	305	120	280	280	222	565	615	20-Φ26	585	640	20-Φ30
500	230	160	678	339	120	280	280	229	620	670	20-Φ26	650	715	20-Φ33
600	250	160	826	393	135	385	380	267	725	780	20-Φ30	770	840	20-Φ36
700	310	160	920	460	160	430	390	292	840	895	24-Φ30	840	910	24-Φ36
800	310	160	977	508	160	435	390	318	950	1015	24-Φ33	950	1025	24-Φ39
900	330	190	1043	561	175	450	390	330	1050	1115	28-Φ33	1050	1125	28-Φ39
1000	350	210	1093	615	190	450	390	410	1160	1230	28-Φ36	1170	1255	28-Φ42
1200	450	210	918	793	250	540	440	470	1380	1455	32-Φ39	1390	1485	32-Φ48

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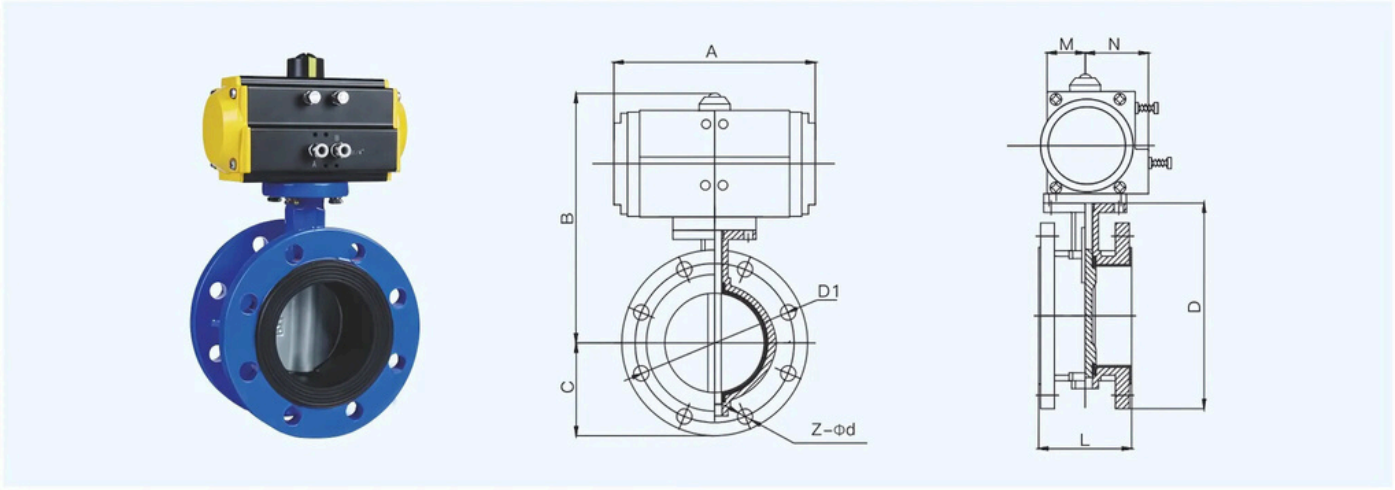
Pneumatic Flanged Butterfly Valve



Technical Features

A(Mpa)Nominal pressure		0.6	1.0	1.6
Test pressure	Shell Test	0.9	1.5	2.4
	Low Pressure Test	/	/	/
	High Pressure Test	0.66	1.1	1.76
Applicable temperature		≤ 120°C		
Applicable medium		Water, steam, oil and other non-corrosive gases or liquids		
Drive Device		Pneumatic drive		

Main Overall Dimensions

mm

DN(mm)	A	B	C	M	N	L	1.0MPa			1.6MPa		
							D1	D	Z-Φd	D1	D	Z-Φd
40	147	220	76	30	42	108	110	150	4-Φ18	110	150	4-Φ18
50	147	220	76	30	42	108	125	165	4-Φ18	125	165	4-Φ18
65	168	245	92	36	47	112	145	185	4-Φ18	145	185	4-Φ18
80	184	264	100	42	53	114	160	200	8-Φ18	160	200	8-Φ18
100	210	282	109	46	57	127	180	220	8-Φ18	180	220	8-Φ18
125	262	305	123	50	59	140	210	250	8-Φ18	210	250	8-Φ18
150	273	349	143	58	64	140	240	285	8-Φ22	240	285	8-Φ22
200	301	400	168	68	74	152	295	340	8-Φ22	295	340	12-Φ22
250	400	466	203	75	77	165	350	395	12-Φ22	355	405	12-Φ26
300	458	530	233	87	89	178	400	445	12-Φ22	410	460	12-Φ26
350	525	605	260	103	103	190	460	505	16-Φ22	470	520	16-Φ26
400	535	653	613	113	113	216	515	565	16-Φ26	525	580	16-Φ30
450	595	714	640	130	130	222	565	615	20-Φ26	585	640	20-Φ30
500	722	784	678	147	147	229	620	670	20-Φ25	650	715	20-Φ33

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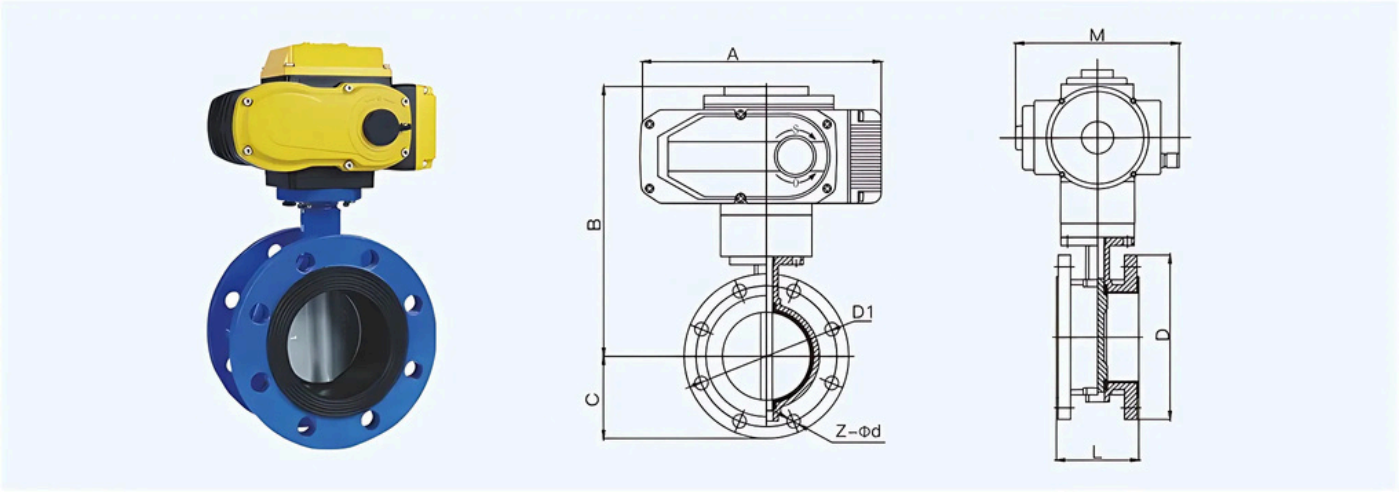
Electric Flanged Butterfly Valve



Technical Features

A(Mpa)Nominal pressure		0.6	1.0	1.6
Test pressure	Shell Test	0.9	1.5	2.4
	Low Pressure Test	/	/	/
	High Pressure Test	0.66	1.1	1.76
Applicable temperature		≤ 120˚C		
Applicable medium		Water, steam, oil and other non-corrosive gases or liquids		
Drive Device		Electric Drive		

Main Overall Dimensions

mm

DN(mm)	A	B	C	M	L	1.0MPa			1.6MPa		
						D1	D	Z-Φd	D1	D	Z-Φd
40	187	310	76	137	108	110	150	4-Φ18	110	150	4-Φ18
50	187	310	76	137	108	125	165	4-Φ18	125	165	4-Φ18
65	187	320	92	137	112	145	185	4-Φ18	145	185	4-Φ18
80	187	327	100	137	114	160	200	8-Φ18	160	200	8-Φ18
100	230	354	109	154	127	180	220	8-Φ18	180	220	8-Φ18
125	230	389	123	154	140	210	250	8-Φ18	210	250	8-Φ18
150	230	397	143	154	140	240	285	8-Φ22	240	285	8-Φ22
200	273	449	168	176	152	295	340	8-Φ22	295	340	12-Φ22
250	273	496	203	176	165	350	395	12-Φ22	355	405	12-Φ26
300	297	567	233	179	178	400	445	12-Φ22	410	460	12-Φ26
350	297	600	260	179	190	460	505	16-Φ22	470	520	16-Φ26
400	297	648	288	179	216	515	565	16-Φ26	525	580	16-Φ30
450	297	675	305	179	222	565	615	20-Φ26	585	640	20-Φ30

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Water PTEE Butterfly Valve

Product Overview

The **wafer PTFE butterfly valve** features a valve seat that is seamlessly integrated with the lining of the valve body. Only the all-plastic valve seat and the plastic-lined valve plate encounter the medium, ensuring excellent resistance to corrosion from all substances, with the exception of molten alkali metals and elemental fluorine.

This valve offers exceptional corrosion resistance, coupled with strong resistance to acids, alkalis, and elevated temperatures. Its robust sealing capabilities and adaptability to various working conditions make it an ideal solution for applications requiring chemical corrosion protection and reliable sealing.

The wafer PTFE butterfly valve is perfectly suited for managing a wide range of highly corrosive media, including strong acids and alkalis, sewage, petroleum, chemical liquids, and other aggressive substances.

Executive Standard

- GB/T 12238
- GB/T 12221
- HG/T 20592
- GB/T 26480

- Design standard: GB/T 12238
- Structural length: GB/T 12221
- Flange connection size: HG/T 20592
- Test standard: GB/T 26480

Technical Features

A(Mpa)Nominal pressure		0.6	1.0	1.6
Test pressure	Shell Test	0.9	1.5	2.4
	Low Pressure Test	/	/	/
	High Pressure Test	0.66	1.1	1.76
Applicable temperature		≤ 120°C		
Applicable medium		Water, Steam, oil and other non-corrosive gases or liquids		
Drive Device		Manual, worm gear drive, pneumatic drive, electric drive		

Main Materials

Part Name	Body	Stem	Disc	Seat
Available Materials	QT450, WCB	2Cr13 304	304, 316, 316L, Nylon plate	PTFE

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Fully Lined PTFE Butterfly Valve

Product Overview

The **fully lined PTFE butterfly valve** integrates the valve seat and body lining, ensuring that only the fully plastic seat and plastic-lined valve plate encounter the medium. This design provides exceptional resistance to corrosion, withstanding virtually all substances except molten alkali metals and elemental fluorine. It offers excellent corrosion resistance, along with strong resistance to acids, alkalis, and high temperatures. The valve delivers reliable sealing performance and demonstrates remarkable adaptability to a wide range of working conditions, making it ideal for chemical anti-corrosion and sealing protection applications. This valve is particularly suited for handling highly corrosive media such as strong acid and alkali solutions, sewage, petroleum, chemical liquids, and other aggressive substances.

Executive Standard

- GB/T12238
- KGB/T 12221
- HG/T 20592
- GB/T 26480
- Design standard: GB/T 12238
- Structural length: GB/T 12221
- Flange connection size: HG/T 20592
- Test standard: GB/T 26480

Technical Features

A(Mpa)Nominal pressure		0.6	1.0	1.6
Test pressure	Shell Test	0.9	1.5	2.4
	Low Pressure Test	/	/	/
	High Pressure Test	0.66	1.1	1.76
Applicable temperature		≤ 120°C		
Applicable medium		Water, steam, oil and other non-corrosive gases or liquids		
Drive Device		Manual, worm gear drive, pneumatic drive, electric drive		

Main Materials

Part Name	Body	Stem	Disc	Seat
Available Materials	QT450, WCB 304, 316/316Lc	2Cr13 304	Tetrafluorolined	PTFE

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Fully Lined With Rubber Butterfly Valve

Product Overview

The **fully lined rubber butterfly valve** comprises a rubber-sealed butterfly valve, a carbon steel or stainless-steel valve plate, and a valve stem. Designed for operation at temperatures ranging from **≤ 80°C to 120°C**, this valve is ideal for a wide range of industries, including food, pharmaceuticals, chemicals, petroleum, power generation, light textiles, and paper. It is particularly suited for regulating flow and controlling the interception of media in water supply, drainage, and gas pipelines.

Executive Standard

- GB/T12238
- KGB/T 12221
- HG/T 20592
- GB/T 26480
- Design standard: GB/T12238
- Structural length: GB/T12221
- Flange connection size: HG/T 20592
- Test standard: GB/T 26480

Technical Features

A(Mpa)Nominal pressure		0.6	1.0	1.6
Test pressure	Shell Test	0.9	1.5	2.4
	Low Pressure Test	/	/	/
	High Pressure Test	0.66	1.1	1.76
Applicable temperature		≤ 120°C		
Applicable medium		Water, steam, oil and other non-corrosive gases or liquids		
Drive Device		Manual, worm gear drive, pneumatic drive, electric drive		

Main Materials

Part Name	Body	Stem	Disc	Seat
Available Materials	QT450, WCB 304	2Cr13 304	Carbon steel liner	EPDN

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Fully Lined With Rubber Butterfly Valve

Product Overview

The stainless-steel butterfly valve features a compact design with a central vertical plate structure, offering smooth and lightweight operation, reliable sealing performance, and an extended service life. It is widely used across various industries, including water treatment plants, power stations, steel mills, papermaking, chemicals, and food processing, primarily for regulating and isolating water flow. When paired with PTFE valve seats, the stainless-steel valve body significantly enhances the butterfly valve's resistance to both high temperatures and corrosion, ensuring optimal performance in demanding environments.

Product Characteristics

1. Durable Sealing Material: The sealing material is carefully selected, combining stainless steel and polytetrafluoroethylene (PTFE) to ensure a long service life.

2. Flexible Sealing Options: The rubber sealing ring can be positioned either on the valve body or wrapped around the butterfly plate, providing versatility in design.

3. Robust Butterfly Plate: The butterfly plate features a frame structure, offering high strength, a large overcurrent area, and low flow resistance for efficient performance.

4. Bidirectional Sealing: This valve provides bidirectional sealing, meaning it is not affected by the flow direction of the medium during installation.

5. Effortless Operation: With a unique structure, the valve offers flexible operation, is labour-saving, and ensures ease of use and maintenance.

Technical Features

A(Mpa)Nominal pressure		0.6	1.0	1.6
Test pressure	Shell Test	0.9	1.5	2.4
	Low Pressure Test	/	/	/
	High Pressure Test	0.66	1.1	1.76
Applicable temperature		≤ 120˚C		
Applicable medium		Water, steam, oil and other non-corrosive gases or liquids		
Drive Device		Manual, worm gear drive, pneumatic drive, electric drive		

Main Materials

Part Name	Body	Stem	Disc	Seat
Available Materials	304, 316/316L	2Cr13 304	304, 316/316L	EPDM PTFE

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Wafer All Copper Butterfly Valve

Technical Features

A(Mpa)Nominal pressure		0.6	1.0	1.6
Test pressure	Shell Test	0.9	1.5	2.4
	Low Pressure Test	/	/	/
	High Pressure Test	0.66	1.1	1.76
Applicable temperature		≤ 120°C		
Applicable medium		Water, steam, oil and other non-corrosive gases or liquids		
Drive Device		Manual, worm gear drive, pneumatic drive, electric drive.		

Main Materials

Part Name	Body	Stem	Disc	Seat
Available Materials	C954	2Cr13 304	C945	EPDM, PTFE

Main Overall Dimensions

mm

规格 Size (mm)	中心距 Distance between centers	结构尺寸 Structural dimension	上法兰外径 Outer diameter of upper flange	上法兰孔数及尺寸 Number and dimensions of upper flange holes	大孔 Macropore	中心孔孔径 Center aperture
DN50	57.15	41	71±0.2	4×6.7	76.2	17.45
DN65	57.15	44	71±0.2	4×6.7	88.9	17.45
DN80	57.15	44	71±0.2	4×6.7	103.85	17.45
DN100	69.85	51	92±0.25	4×10.3	134.8	20.52
DN125	69.85	52	92±0.25	4×10.3	158.9	23.8+0.03
DN150	69.85	54	92±0.25	4×10.3	188.2	23.8+0.03
DN200	88.9	57	115±0.25	4×14.3	237.85	28.58+0.03
DN250	88.9	63	115±0.25	4×14.3	292	34.93+0.039
DN300	107.95	74	140±0.25	4×14.3	343.8	38.1+0.039
DN350	107.95	74	140±0.25	4×14.3	374.9	38.1+0.039
DN400	158.75	82	197	4×20.6	439	39.7+0.039

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Nylon Plate Butterfly Valve

Product Overview

The **nylon plate butterfly valve** is a valve that employs a disc-shaped opening and closing element, which rotates approximately 90° to open, close, or regulate the fluid passage. This valve is ideal for regulating flow and controlling the interception of media in water supply and gas pipelines. It is widely used across industries such as food and beverage, pharmaceuticals, chemicals, petroleum, power generation, textiles, papermaking, and many others.

Product Characteristics

1. **Innovative Design:** Featuring a unique structure, this valve is lightweight and offers fast opening and closing for efficient operation.

2. **Low Torque Operation:** The valve requires minimal torque to operate, making it easy to use, labour-saving, and highly responsive.

3. **Flexible Installation:** It can be installed in any orientation, ensuring ease of maintenance and flexibility in application.

4. **Reliable Sealing:** The sealing element is replaceable, offering reliable sealing performance with zero leakage in both directions.

5. **Durable Sealing Material:** The sealing material is resistant to both ageing and corrosion, ensuring a long service life and dependable performance over time.

5. **Linear Flow Characteristics:** The valve exhibits linear flow characteristics, ensuring excellent regulation performance for precise control.

Technical Features

A(Mpa)Nominal pressure		0.6	1.0	1.6
Test pressure	Shell Test	0.9	1.5	2.4
	Low Pressure Test	/	/	/
	High Pressure Test	0.66	1.1	1.76
Applicable temperature		≤ 120°C		
Applicable medium		Air, water, sewage, steam, gas, oil, etc		
Drive Device		Manual, worm gear drive, pneumatic drive, electric drive		

Main Materials

Part Name	Body	Stem	Disc	Seat
Available Materials	QT450, WCB 304	2Cr13 304	Ductile iron coated with nylon	EPDM, PTFE

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Desulphurization Plate Butterfly Valve

Product Overview

Desulfurisation butterfly valves are specifically designed to meet a range of demanding requirements, including resistance to corrosion, wear, and the ability to handle varying flow rates and temperatures. The valve plate and stem are constructed from corrosion-resistant alloys, making them suitable for the harsh conditions of limestone and gypsum slurries. The valve seat is made from wear-resistant rubber, offering excellent protection against the erosion caused by suspended particles in the liquid. This combination of wear and corrosion resistance has made these valves widely adopted in flue gas desulfurisation systems.

Product Characteristics

1. **Efficient Operation:** The valve offers convenient and rapid opening and closing, requiring minimal effort to operate. It features low fluid resistance, making it ideal for frequent operation.

2. **Compact and Lightweight:** With a simple structure, small size, and lightweight design, this valve is easy to install and handle.

3. **Effective for Mud Transport:** Capable of transporting mud and minimizing liquid retention at the pipeline outlet.

4. **Reliable Sealing:** Even under low-pressure conditions, the valve provides excellent sealing performance.

5. **Superior Regulation:** The valve delivers outstanding tuning performance, ensuring precise control of fluid flow.

Technical Features

A(Mpa)Nominal pressure		0.6	1.0	1.6
Test pressure	Shell Test	0.9	1.5	2.4
	Low Pressure Test	/	/	/
	High Pressure Test	0.66	1.1	1.76
Applicable temperature		≤ 120°C		
Applicable medium		Gypsum slurry, limestone slurry, recycled water, process water, wastewater		
Drive Device		Manual, worm gear drive, pneumatic drive, electric drive		

Main Materials

Part Name	Body	Stem	Disc	Seat
Available Materials	QT450, WCB	2Cr13 304	2507, 2205, 1.4469, 1.4529, 1.4408	EPDM

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U-shaped Butterfly Valve

Product Overview

U-shaped butterfly valves are compact and lightweight, making them ideal for isolating and regulating flow in a variety of pipeline systems. By selecting different materials for the valve plates, sealing seats, and using pinless connection plates and shafts, these valves can be tailored for more demanding applications. They are well-suited for challenging operating conditions, including desulfurization, vacuum systems, and seawater desalination, ensuring reliable performance in even the harshest environments.

Product Characteristics

1. **Compact and Lightweight:** The valve is small, easy to disassemble and maintain, and can be installed in any position for added flexibility.

2. Efficient Operation: With a simple, compact structure, the valve offers quick opening and closing with a 90° rotation for efficient flow control.

3. Low Operating Torque: Designed to be labour-saving and lightweight, the valve requires minimal effort to operate.

4. Reliable Sealing: The valve ensures complete sealing with zero gas leakage during testing, guaranteeing reliable performance.

5. Versatile Material Options: By selecting different materials for the components, the valve can be adapted to handle a wide range of media.

6. Linear Flow Characteristics: The valve provides excellent regulation performance, with flow characteristics that are predominantly linear for precise control.

Technical Features

A(Mpa)Nominal pressure		0.6	1.0	1.6
Test pressure	Shell Test	0.9	1.5	2.4
	Low Pressure Test	/	/	/
	High Pressure Test	0.66	1.1	1.76
Applicable temperature		≤ 120°C		
Applicable medium		Air, water, sewage, steam, gas, oil, etc		
Drive Device		Manual, worm gear drive, pneumatic drive, electric drive		

Main Materials

Part Name	Body	Stem	Disc	Seat
Available Materials	QT450, WCB	2Cr13 304	304, 316/316L	EPDM, PTFE

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Semi-lug Butterfly Valve

Product Overview

The **semi-convex ear butterfly valve** features a butterfly plate installed in the diameter direction of the pipeline. Within the cylindrical channel of the valve body, the disc-shaped butterfly plate rotates around its axis, enabling rapid opening and closing with a 90° rotation. This straightforward operation ensures excellent ease of use, while the valve provides superior fluid control characteristics for reliable performance.

Product Characteristics

1. **Compact and Lightweight:** The valve is small, easy to disassemble and maintain, and can be installed in any position for added flexibility.

2. Efficient Design: With a simple, compact structure, the valve offers quick opening and closing with a 90° operation for smooth flow control.

3. Low Operating Torque: Designed to be labor-saving and lightweight, the valve requires minimal effort to operate.

4. Reliable Sealing: The valve ensures complete sealing with zero gas leakage during testing, offering dependable performance.

5. Versatile Material Selection: By choosing different materials for its components, the valve can be adapted to handle a wide range of media.

6. Linear Flow Characteristics: The valve exhibits linear flow characteristics, providing excellent regulation performance and precise control.

Technical Features

A(Mpa)Nominal pressure		0.6	1.0	1.6
Test pressure	Shell Test	0.9	1.5	2.4
	Low Pressure Test	/	/	/
	High Pressure Test	0.66	1.1	1.76
Applicable temperature		≤ 120°C		
Applicable medium		Air, water, sewage, steam, gas, oil, etc		
Drive Device		Manual, worm gear drive, pneumatic drive, electric drive		

Main Materials

Part Name	Body	Stem	Disc	Seat
Available Materials	QT450, WCB	2Cr13 304	304, 316/316L, C954	EPDM, PTFE

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LT Butterfly Valve

Product Overview

The **LT butterfly valve** is compact and lightweight, making it ideal for use as a regulating and shut-off device in pipelines and containers handling various corrosive and non-corrosive gases, liquids, semi-fluids, and solid powders. By selecting valve plates and sealing seats made from different materials, and employing pinless connection plates and shafts, the valve can be tailored to meet the demands of more extreme working conditions. These include applications such as desulfurisation, vacuum systems, and seawater desalination, ensuring reliable performance in challenging environments.

Product Characteristics

1. **Compact and Lightweight:** The valve is small and easy to disassemble and maintain, with the added advantage of being installable in any position.
2. **Efficient Design:** Featuring a simple, compact structure, the valve offers quick opening and closing with a 90° operation for efficient flow control.
3. **Low Operating Torque:** Designed for ease of use, the valve requires minimal effort to operate, making it labour-saving and highly responsive.
4. **Reliable Sealing:** The valve ensures complete sealing with zero gas leakage during testing, guaranteeing dependable performance.
5. **Versatile Material Selection:** The valve can be customised with different materials for its components, making it suitable for a wide range of media.
6. **Linear Flow Characteristics:** The valve offers excellent regulation performance, with flow characteristics that are predominantly linear for precise control.

Technical Features

A(Mpa)Nominal pressure		0.6	1.0	1.6
Test pressure	Shell Test	0.9	1.5	2.4
	Low Pressure Test	/	/	/
	High Pressure Test	0.66	1.1	1.76
Applicable temperature		≤ 120°C		
Applicable medium		Water, steam, oil and other non-corrosive gases or liquids		
Drive Device		Manual, worm gear drive, pneumatic drive, electric drive		

Main Materials

Part Name	Body	Stem	Disc	Seat
Available Materials	QT450、WCB	2Cr13 304	QT450, 304, 316, 316L,2507, 1.4529, Nylon board, Rubber lined board, copper plate	EPDM, PTFE

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Plastic Butterfly Valve

Product Features

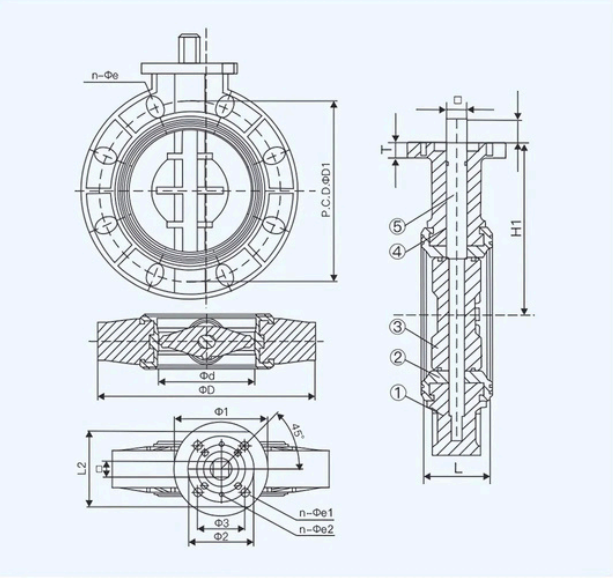
1.**Low Torque, Extended Lifespan:** The valve is designed to operate with low torque, ensuring long-lasting performance and durability.

2. Integrated Valve Seat: The valve seat is embedded within the valve body, minimising displacement and enhancing stability.

3. Reinforced Butterfly Plate: The butterfly plate is reinforced for increased strength and reliability in demanding applications.

4. ISO5211 Standard Platform: Conforming to the ISO5211 standard, the valve platform allows for easy installation of actuators, simplifying the process.

5. Precision Manufacturing: Made from pure new raw materials and precision-engineered through injection moulding, the valve ensures high-quality performance.



Main material

- Body: UPVC, FRPP, ABS, PPR, CPVC
- Seat: EPDM, FPM
- Valve plate: UPVC, FRPP, ABS, PPR, CPVC
- OO-ring: EPDM, FPM
- Seat: EPDM, FPM

Main Outline Connection Dimensions

mm

Size	NPS	2"	2½"	3"	4"	5"	6"	8"
	DN	50	65	80	100	125	150	200
	ΦD	160	180	196	228	258	287	344
P.C.D.ΦD	DIN	125	145	160	181	210	240	295
P.C.D.ΦD	ANSI	121	140	152	191	216	241	298
P.C.D.ΦD	JIS	120	140	150	1 75	210	240	290
	ΦD	48	63	78	98	122	146	199
	L	43	46	49	54	64	70	88
	L2	80	80	80	80	100	100	100
	Φ1	100	100	100	100	140	140	140
	T	12	12	12	12	15	15	15
	Φ2	70	70	70	70	102	102	102
ISO5211		F07	F07	F07	F07	F10	F10	F10
	Φ3	50	50	50	50	70	70	
ISO5211		F05	F05	F05	F05	F07	F07	
n-Φe	DIN	4-Φ19	4-Φ19	8-Φ19	8-Φ19	8-Φ19	8-Φ23	8-Φ23
n-Φe	ANSI	4-Φ19	4-Φ19	8-Φ19	8-Φ19	8-Φ19	8-Φ23	8-Φ23
n-Φe	JIS	4-Φ19	4-Φ19	8-Φ19.	8-Φ19	8-Φ19	8-Φ23	8-Φ23
n-Φe1		4-Φ9	4-Φ9	4-Φ9	4-Φ9	4-Φ11	4-Φ11	4-Φ11
n-Φe2		4-Φ7	4-Φ7	4-Φ7	4-Φ7	4-Φ9	4-Φ9	
PN	Mpa	1	1	1	1	1	1	0.6
PN	psi	150	150	150	150	150	150	90
□		14	14/14	14/17	14/17	17/22	17/22	22
h		12	12/15	15/18	15/18	18/23	18/23	23
TORQUE	N.M	10	10	15	25	40	55	70

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Plastic Butterfly Valve

Product Features

1. **Corrosion-Resistant Materials:** The engineering plastic valve series are manufactured from high-quality materials such as UPVC, FRPP, ABS, PPR, CPVC, and other corrosion-resistant thermoplastics.

2. **Strong Corrosion Resistance:** Thanks to a one-piece injection moulding process, these valves offer exceptional corrosion resistance, ensuring long-lasting performance.

3. **Reliable Sealing:** The valves provide reliable sealing with minimal opening and closing torque, ensuring efficient operation.

4. **Low Fluid Resistance:** Designed for quick opening and closing, the valves feature low fluid resistance for smooth and effective flow control.

5. **Simple and Elegant Design:** With a straightforward structure and aesthetically pleasing appearance, these valves are as functional as they are visually appealing.

Technical Parameter

Caliber size: DN50-DN800	Diaphragm materials: EPDM, FPM
Connection form: adhesive, hot melt welding, screw thread, flange	Body materials: UPVC, FRPP, ABS, PPR, CPVC

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FLOWTEC™

Empowering Progress & Innovation

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