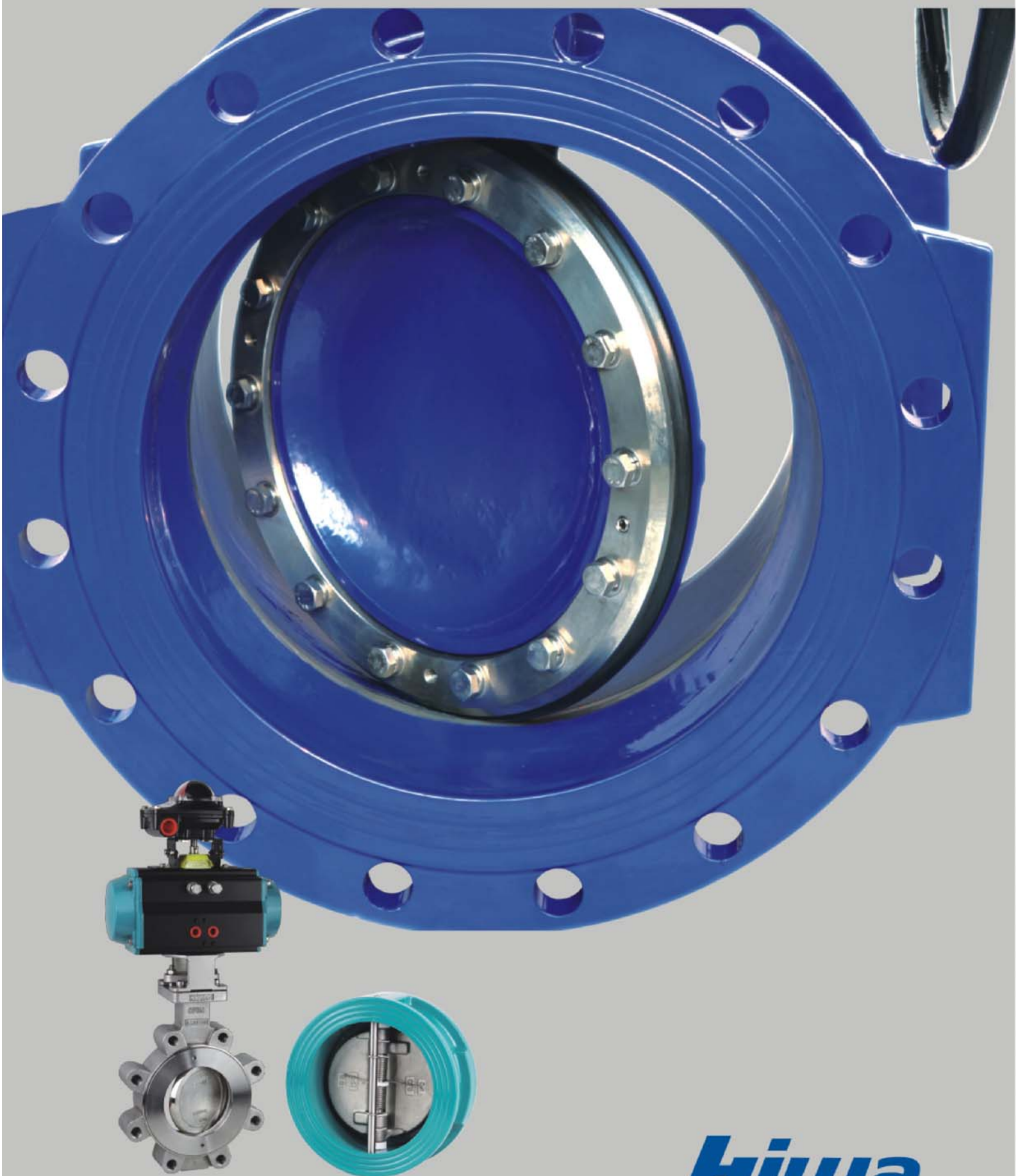


BUTTERFLY VALVE & CHECK VALVE



HUIHUA VALVE INDUSTRY CO.

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COMPANY PROFILE

■ Introduction

Huihua Valve Industry Co. is a professional manufacturer majoring in research and development, design, production, distribution and service. Our company can produce wafer type, lug type, flanged resilient seated butterfly valve, resilient seated gate valve, cast iron gate valve, globe valve, check valve, ball valve, Y strainer and so on, the operator can be supplied lever, gearbox, pneumatic, hydraulic, dynamoelectric.

We can also supply special material and sealing structure to insure the sealing, anticorrosion, antifriction and safety under different pressure, temperature, medium and meet the customers' different requirements, in order that valves can be applied in many industries, such as petroleum, chemical, metallurgy, electric power etc.

■ Staff and Equipment

Huihua Valve Industry Co. has more than 600 staff and 540 sets equipments. All factories cover an area of 90000 square meters and there are total three factories.

Tianjin Huihua factory occupies 30000 square meters, workshops occupy 18000 square meters, equipment 300 sets, more than 200 employees. Zibo Huihua occupies 20000 square meters, workshops occupy 12000 square meters, equipment 200 sets, more than 120 employees.

Our foundry occupies 39000 square meters, workshops occupy 24000 square meters. There are three pipelines of casting resin sand which is more than millions, more than 5000 tons of castings per month. We also have the best epoxy resin coating line, the annual spray volume is 7000 tons.

■ Quality Control and Certificates

In order to insure the quality of products and service, our company established a perfect system of quality management and assurance. Tianjin Huihua passed ISO9001 quality system certification in 1999, got BS EN ISO 9001:2000 international quality system certificate of Moody company and PED CE certificate of TUV in March 2008. We obtained UL certificate of butterfly valve in 2012. In September 2004, Zibo Huihua successfully passed the audit of Sweden SGS ISO 9001:2000(with design) quality control system's international and domestic double certifications and got certificate in October. Our company obtained national special equipment manufacturing license certificate in 2006 and passed English authoritative WRAS drinking water certification of butterfly valve in 2015.

■ Mission Statement

Huihua products develop in the domestic and foreign markets synchronously. Huihua valves have been widely exported to America, Germany, Australia, South Africa, Turkey, Spain, Korea, India, Russia, Italy, Romania, Taiwan and Southeast Asia etc. countries and regions.

The company's strong design and development capabilities, excellent processing and testing equipment, perfect quality management system, good teamwork spirit ensure the performance, quality and delivery of Hiwa valves.

Huihua has always been developing business based on quality first, reputation first. With earnest and serious manner, we supply satisfactory products and service to customers.



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Check Valve



Hiwa's center line type butterfly valve are developed with more than 20 years' scientific research and application experiences. They are with better torque control, easy operation, easy installation and maintenance.

■ **Design features and advantages**

- Concentric design
- Cartridge seat & groove locks boot seat
- Replaceable seat
- Standardized top flange for actuator adaption
- Direct mounting of actuators without any additional brackets
- Economy & high performance
- Stems are blowout-proof type.
- Low maintenance design and long service life
- High Cv, lower head loss results in energy savings for customer's system.
- Maximum flow and range ability is achieved with the use of a streamlined disc
- Longer seat life with low operating torques is ensured by utilizing upper and lower stem bearings

■ **Various applications under different operating conditions**

- Portable water, water factory
- Wastewater treatment and environmental protection
- Agriculture
- Energy, Power & Utilities
- HVAC system
- Building fire control system
- Chemical and petrochemical
- Ferrous metallurgy
- Pulp, paper
- Food and beverage
- Industrial application



BUTTERFLY VALVE SERIES

CENTER LINE BUTTERFLY VALVE

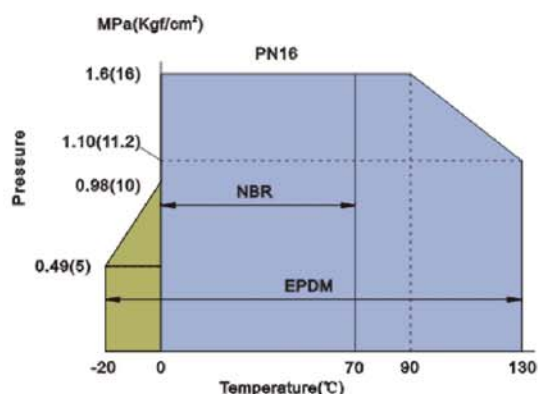
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BUTTERFLY VALVE SERIES

Cv Values-Valve Sizing Coefficients

Size	10°	20°	30°	40°	50°	60°	70°	80°	90°
DN50 2"	0.06	3	7	15	27	44	70	105	115
DN65 2 1/2"	0.10	6	12	25	45	75	119	178	196
DN80 3"	0.20	9	18	39	70	116	183	275	302
DN100 4"	0.30	17	36	78	139	230	364	546	600
DN125 5"	0.50	29	61	133	237	392	620	930	1022
DN150 6"	0.80	45	95	205	366	605	958	1437	1579
DN200 8"	2	89	188	408	727	1202	1903	2854	3136
DN250 10"	3	151	320	694	1237	2047	3240	4859	5340
DN300 12"	4	234	495	1072	1911	3162	5005	7507	8250
DN350 14"	6	338	715	1549	2761	4568	7230	10844	11917
DN400 16"	8	464	983	2130	3797	6282	9942	14913	16388
DN450 18"	11	615	1302	2822	5028	8320	13168	19752	21705
DN500 20"	14	791	1647	3628	6465	10698	16931	25396	27908
DN600 24"	22	1222	2587	5605	9989	16528	26157	39236	43116
DN750 30"	37	2080	4406	9546	17010	28147	44545	66818	73426

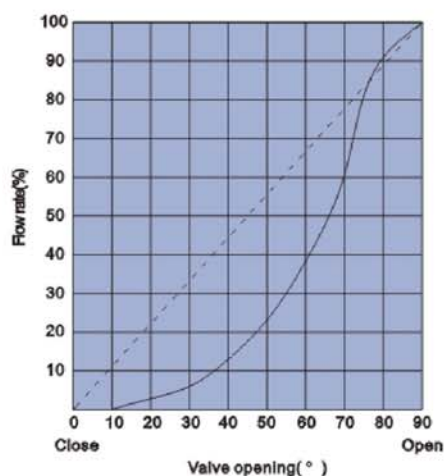
P-T Rating



Notes 1: There are some fluid type restrictions for the service at 130°C. Contact Hiwa for the details. 80.

Notes 2: P-T rating for sub-zero application is optionally available.
Contact Hiwa for technical advice when service conditions may exceed the P-T rating range limited here.

Flow Characteristics



Top Flange

ISO 5211 top flange with square or round stem to adapt any type of actuators.

Body

Available in full lug and wafer styles designed for use between all kinds of flanges. Fully lugged body can be used for end of line services.

Seat

Cartridge style seat incorporates an elastomer bonded to a phenolic stabilizing ring, eliminates elastomer movement and reduces seat tearing or fatiguing, maintains low seating torque. Sealing isn't affected by extrusion. Cartridge style seat also permits easy change without special tools.

Disc

Disc edge is machined and polished well to assure leak-tight shut off while minimizing operating torque.

Shaft

Secured stem retainer plate for valves without pin between disc and shaft as blowout-proof protection.

Bushing

The five bushing design made in PTFE for maximum radial support and shaft rigidity, prevent shaft deflection and completely isolates the valve shaft from the body, resulting in increased control of the valve disc and longer valve life.

Bi-Directional Sealing

The butterfly valve provides bi-directional sealing at full-rated with identical flow from either direction.

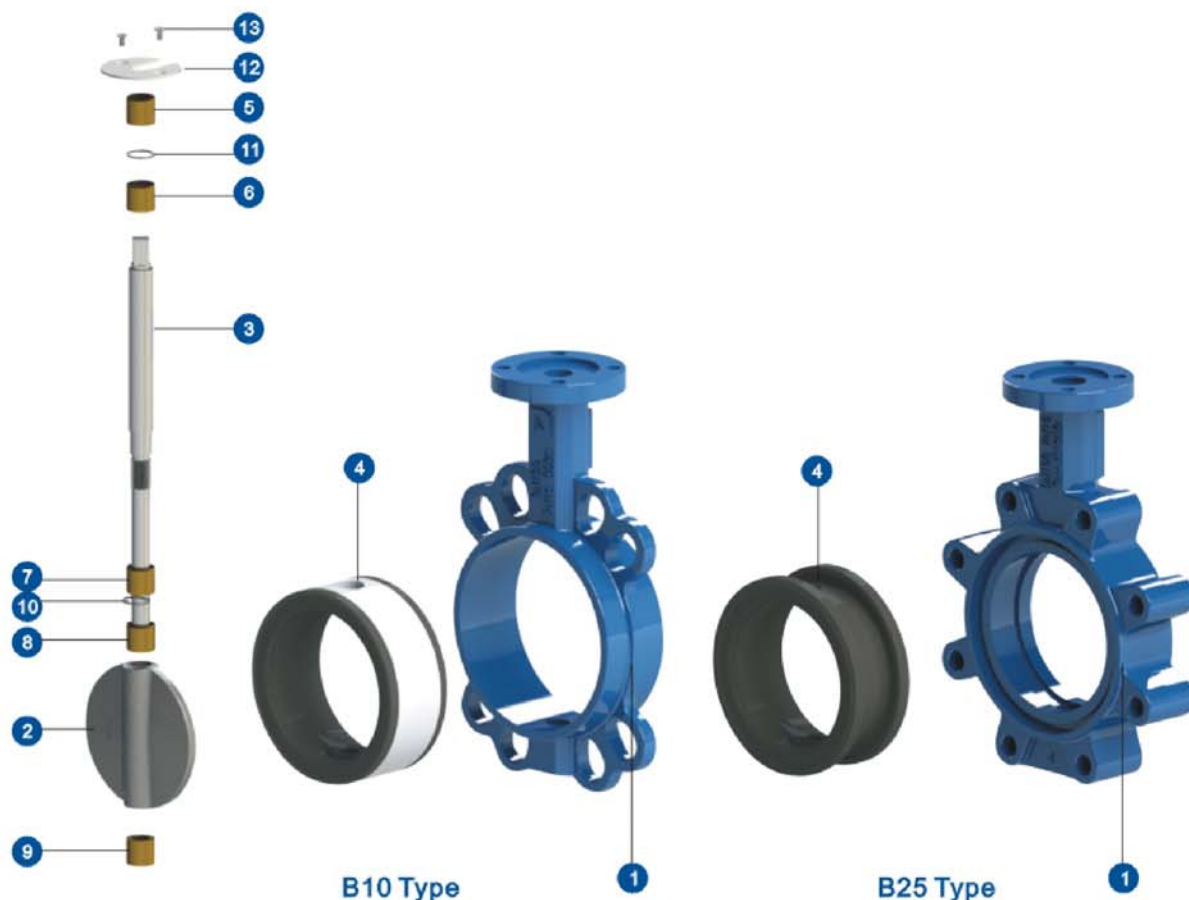
B25 Body & Seat Type

BUTTERFLY VALVE SERIES

CENTER LINE BUTTERFLY VALVE

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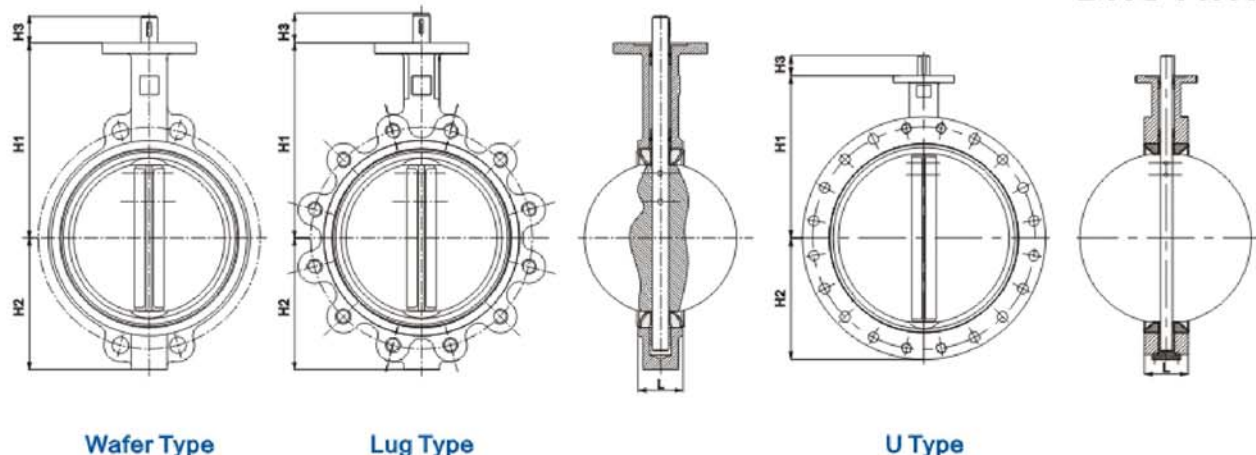
BUTTERFLY VALVE SERIES



Material List

No.	Part	Material
1	Body	Cast iron GJL-250 Nodular iron GJS-400-15 / Nodular iron GJS-500-7 Stainless steel AISI 304 / Stainless steel AISI 316 Cast carbon steel / Aluminium
2	Disc	Nodular iron GJS-400-15 / Nodular iron GJS-500-7 Stainless steel AISI 304 / AISI 316 / AISI 316L Cast carbon steel / Aluminium bronze Hastelloy / Duplex stainless steel
3	Shaft	Stainless steel AISI 420 / AISI 304 / AISI 316 Stainless steel AISI 316L / AISI 431 Hastelloy / Duplex stainless steel / Monel
4	Seat	EPDM / Nitrile (Buna N) / PTFE / VITON High temperature EPDM / Hypalon Silicone / Natural rubber (NR)
5&6&7&8&9	Bushing	PTFE
10&11	O Ring	Rubber
12	Retaining Plate	Stainless Steel/Other Alloys
13	Retaining Plate Screw	Stainless Steel

Fig. B10W-PN16
B10L-PN16
B10U-PN16



Standard Specification

Body Type	Wafer,Lug,U Type
Working Pressure	PN10,PN16,Class 125,10K,16K
Face to Face	API609,EN558-1 20 Series,ISO5752,DIN3202 K1
Top Flange	ISO 5211
Flange Drilling	ISO 7005,BS EN1092,JIS B2220, ASME Class 125/Class 150, AS2129 Table D/E,GB/T 9113
Disc and Stem Connection Type	Pin,Spline,Two Pieces
Stem Top	Round,Square,45° square,Double D

UL listed available.

Dimensions(mm)

Size	mm	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350
	Inch	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"
L		33	43	46	46	52	56	56	60	68	78	78
H1		139	161	175	181	200	213	226	260	292	337	368
H2		68	80	89	95	114	127	139	175	203	242	267
H3		29	29	29	29	29	29	29	35	35	35	45
Top Flange		F05	F05	F05	F05	F07	F07	F07	F10	F10	F10	F10

Size	mm	DN400	DN450	DN500	DN600	DN700	DN750	DN800	DN900	DN1000	DN1200	/
	Inch	16"	18"	20"	24"	28"	30"	32"	36"	40"	48"	/
L		102	114	127	154	165	165	190	203	216	276	/
H1		400	422	480	562	624	646	672	720	800	940	/
H2		298	318	355	444	505	499	576	637	701	844	/
H3		51.2	51.2	64.2	70.2	66	66	66	118	142	160	/
Top Flange		F14	F14	F14	F16	F25	F25	F25	F25	F25	F30	/

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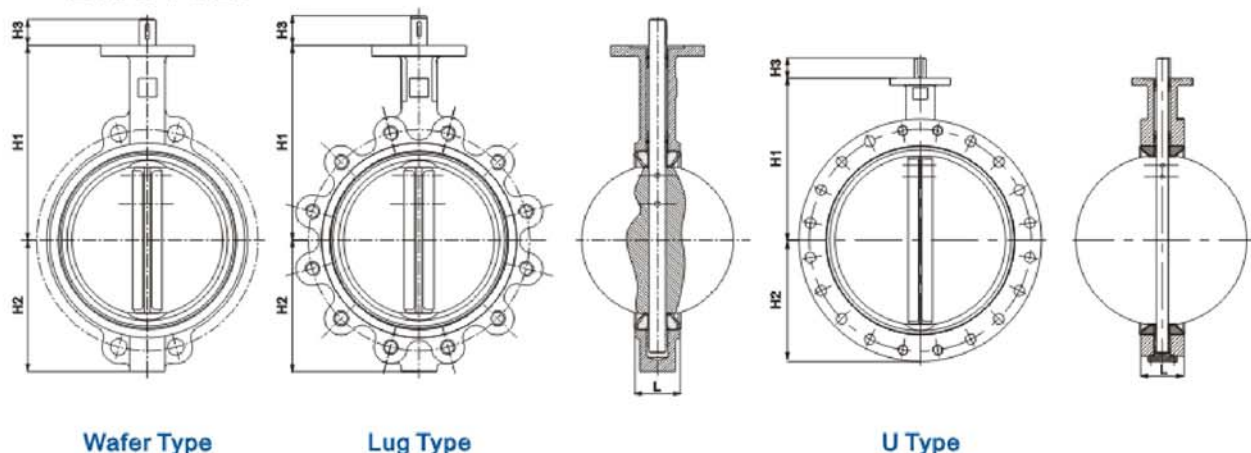
BUTTERFLY VALVE SERIES

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BUTTERFLY VALVE SERIES

Fig. B10W-PN25
B10L-PN25
B10U-PN25



Wafer Type

Lug Type

U Type

Features

PN25 pressure
Economy & high performance
Concentric design
Standardized top flange for actuators

Bidirectional sealing
Cartridge seat
Low operating torques
Long service life

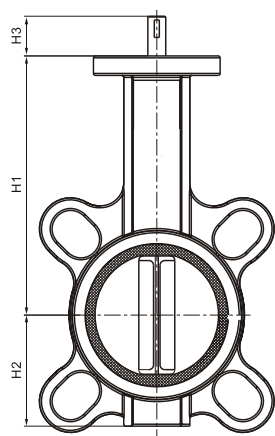
Standard Specification

Body Type	Wafer,Lug,U Type
Working Pressure	PN25,Class 150,20K
Face to Face	API609,EN558-1 20 Series, ISO5752,DIN3202 K1
Top Flange	ISO 5211
Flange Drilling	ISO 7005,BS EN1092,JIS B2220, ASME Class 125/Class 150, AS2129 Table D/E,GB/T 9113
Disc and Stem Connection Type	Pin
Stem Top	Round,Square,45° square,Double D

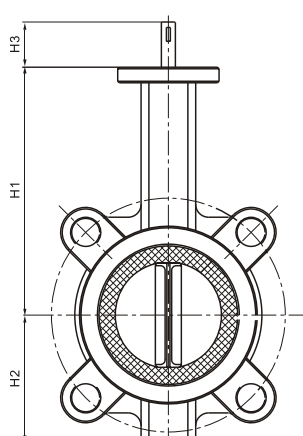
Dimensions(mm)

Size	mm	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300
	Inch	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
L		33	43	46	46	52	56	56	60	68	78
H1		139	161	175	181	200	213	226	260	292	337
H2		68	80	89	95	114	127	139	175	203	242
H3		29	29	29	29	29	29	29	35	35	35
Top Flange		F05	F05	F05	F05	F07	F07	F07	F10	F10	F10

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Wafer Type



Lug Type

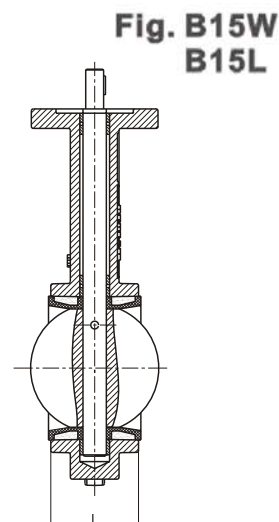


Fig. B15W
B15L

Features

Easy installation
Economy & high performance
Concentric design
Standardized top flange for actuators

Bidirectional sealing
Cartridge seat
Low operating torques
Long service life

Standard Specification

Body Type	Wafer,Lug
Working Pressure	PN10,PN16,Class 125,10K,16K
Face to Face	API609,EN558-1 20 Series, ISO5752,DIN3202 K1
Top Flange	ISO 5211
Flange Drilling	ISO 7005,BS EN1092,JIS B2220, ASME Class 125/Class 150, AS2129 Table D/E,GB/T 9113
Disc and Stem Connection Type	Pin,Spline,Two Pieces
Stem Top	Round,Square,45° square,Double D

Dimensions(mm)

Size	mm	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300
	inch	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
L		33	43	46	46	52	56	56	60	68	78
H1		133	143	155	160	181	194	202	240	272	318
H2		54	57	68	82	100	112	126	162	193	237
H3		29	29	29	29	29	29	29	35	35	35
Top Flange		F05	F05	F05	F05	F07	F07	F07	F10	F10	F10

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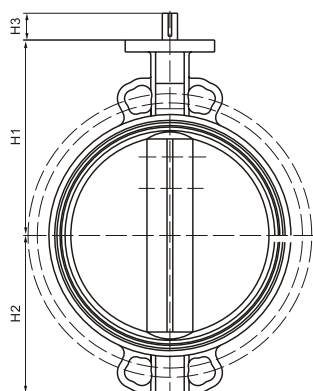
BUTTERFLY VALVE SERIES

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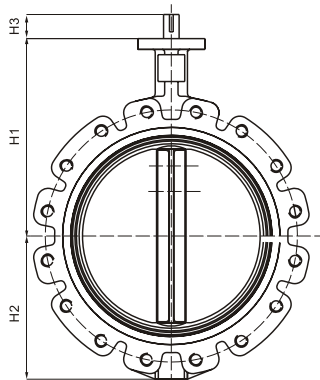
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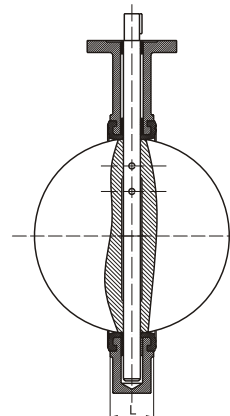
Fig. B25W
B25L



Wafer Type



Lug Type



Standard Specification

Body Type	Wafer,Lug
Working Pressure	PN10,PN16,Class 125,10K,16K
Face to Face	API609,EN558-1 20 Series, ISO5752,DIN3202 K1
Top Flange	ISO 5211
Flange Drilling	ISO 7005,BS EN1092,JIS B2220, ASME Class 125/Class 150, AS2129 Table D/E,GB/T 9113
Disc and Stem Connection Type	Pin,Spline,Two Pieces
Stem Top	Round,Square,45° square,Double D

Dimensions(mm)

Size	mm	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300
	inch	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
L		33	43	46	46	52	56	56	60	68	78
H1		133	143	155	160	181	194	202	240	272	318
H2		54	57	68	82	100	112	126	162	193	237
H3		29	29	29	29	29	29	29	35	35	35
Top Flange		F05	F05	F05	F05	F07	F07	F07	F10	F10	F10

Size	mm	DN350	DN400	DN450	DN500	DN600	DN700	/	/	/	/
	inch	14"	16"	18"	20"	24"	28"	/	/	/	/
L		78	102	114	127	154	165	/	/	/	/
H1	Wafer	328	360	400	460	540	624	/	/	/	/
	Lug	368	400	422	480	562	624	/	/	/	/
H2	Wafer	264	293	324	350	440	505	/	/	/	/
	Lug	267	298	318	355	444	505	/	/	/	/
H3		45	51.2	51.2	64.2	70.2	66	/	/	/	/
Top Flange		F10	F14	F14	F14	F16	F25	/	/	/	/

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Blow-out Proof Stem

Large diameter, single piece high strength shaft provides alignment and rigid support for disc. Square or Double D type stem design simplifies adaption to manual or automatic actuation.

ISO Bracket

Universal and replaceable mounting bracket meets ISO5211 connection standard.

Stem Packing

Adjustable V-ring type TFE or Graphite offers positive sealing.

Seat Retainer

The seat retainer with less screws reduces leakage paths and facilitates replacement of seat ring. Protects the seat ring from abrasion and erosion.

Stem Bearings

RTFE/SS or Graphite/SS bearings maintain shaft alignment. Self-lubricant bearings reduce wear and friction.

Disc Stop in Body

Prevents disc over travel and minimizes possible seat damage.

Body

One-piece casting of high quality with standard availability in carbon steel, stainless steel and alloy steel for services in wide variety of applications and abrasive service.

Seat

An advanced two-part seal design provides reliable sealing performance and extends cycle life with less maintenance.

Disc

Spherical sealing surface on disc improves sealing capacity. The disc edge is fully machined and polished for minimum torque.

Stem Retainer

Provides positive stem retention to prevent movement of the stem.



BUTTERFLY VALVE SERIES

HIGH PERFORMANCE BUTTERFLY VALVE

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Seat types

- R Type
- P Type
- M Type
- F Type

Unique Soft Seat design
Soft Seat design
Metal Seat design for high temperature
Fire-safe Seat design



■ R type

The unique seat consists of a resilient energizer which is completely encapsulated by the seat, is also isolated from all contact with process fluid. The o-ring energizer is of fluoroelastomer material. This provides excellent resilience and it is able to flex and deform under loads and return to original shape after removal of the load. The o-ring energizer increases the elasticity of seat as well as seat life and improves the leak-free performance. The advanced seat design offers a self-energized seal in vacuum and low temperature applications.



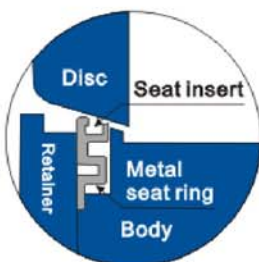
■ P type

This is standard resilient seat design, constructed of PTFE, Filled PTFE or TFM PTFE, utilizes a flexible lip which will slightly deflects the disc when it bears flow pressure. This movement makes the sealing surface of the seat is constantly pushing against the edge of the disc. The sealing force is amplified by increasing line pressure.



■ M Type

Metal-to-Metal seat is suitable for high temperature applications up to 450°C. Machined metal seat extends seal performance. Metal-to-Metal sealing is archived by "line sealing" between a spherical surface disc and conical surface seat. This produces minimum wear and seating torque.



Before fire



During and after fire

■ F Type

Fire-safe seat is designed for applications where effective shutoff during and after a fire is a concern. The primary PTFE seat is backed up by a secondary metal seat ring. In a fire event, when the primary PTFE seat is destroyed, the secondary metal seat provides a positive seal of metal-to-metal contact with the disc.

Available Materials

Ductile Iron SMO 254
Hastelloy Monel
Duplex 2205 Inconel
Alloy 20
Other materials are available on request

Standard Specifications

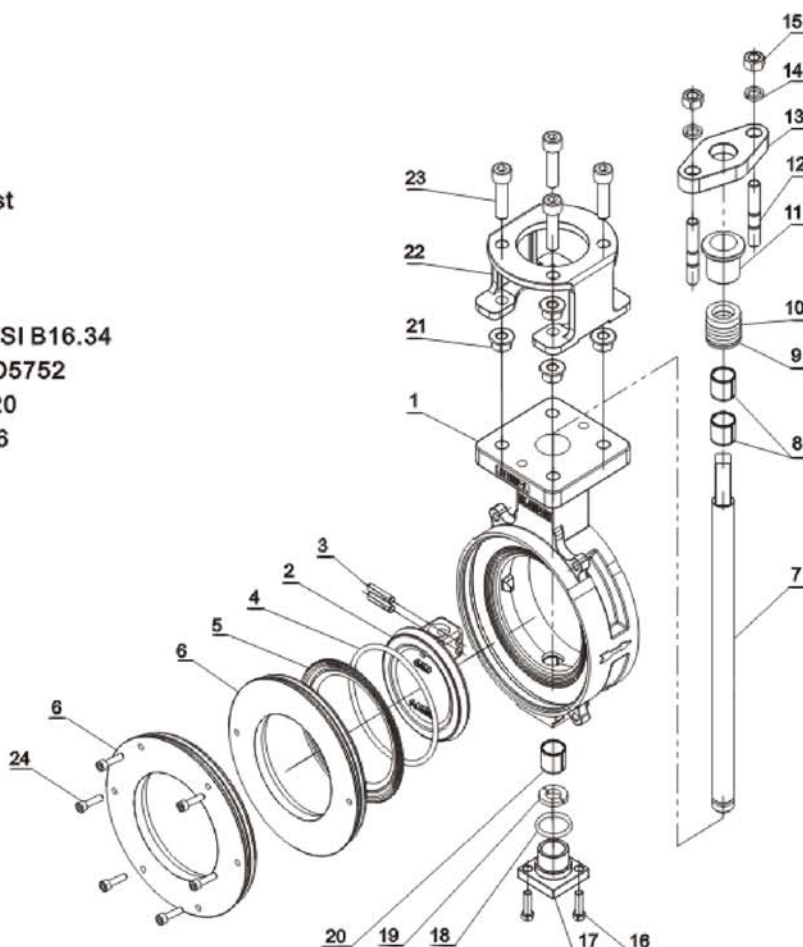
Valve Design: MSS SP-68, API 609, ANSI B16.34
Face to Face: API 609, MSS SP-68, ISO5752
Flange: ANSI B16.5, EN1092, JIS B2220
Inspection & Testing: API 598, EN12266
Mounting Flange: ISO 5211

Product Range

Body Configurations: Wafer and Lug
Valve Size: 2"~ 24"(DN50 ~ 600)

Seat Materials

Soft Seat
PTFE, RTFE, PPL, PEEK, TFM1600
Metal Seat
SS316, SS316L, Inconel



Number	Part	Material
1	Body	A216-WCB, A351-CF8/CF8M
2	Disc	A351-CF8/CF8M
3	Disc Pin	Stainless Steel 304/316
4	O-ring	EPDM or FKM
5	Seat	Soft / Metal / Firesafe
6	Retainer	A216-WCB, A351-CF8/CF8M
7	Stem	AISI 304 / 316/17-4 PH
8	Top Stem Bearing	Stainless Steel & PTFE
9	Packing Retainer	PTFE / Graphite
10	Stem Packing	PTFE / Graphite
11	Packing Gland	Stainless Steel 304/316
12	Stud	Stainless Steel 304/316
13	Gland Flange	Stainless Steel 304/316
14	Washer	A351-CF8/CF8M
15	Nut	Stainless Steel 304/316
16	Screw	Stainless Steel 304/316
17	End Cover	Stainless Steel 304/316
18	O-ring	A351-CF8/CF8M
19	Retainer Ring	EPDM or FKM
20	Bottom Stem Bearing	Stainless Steel 304/316
21	Nut	Stainless Steel 304/316
22	Bracket	A351-CF8/CF8M
23	Bolts	Stainless Steel 304/316
24	Bolts	Stainless Steel 304/316

BUTTERFLY VALVE SERIES

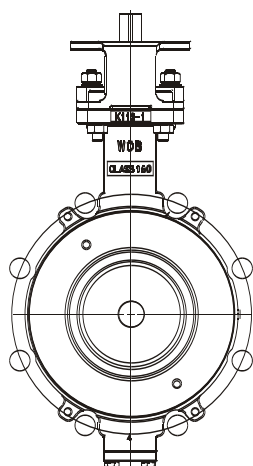
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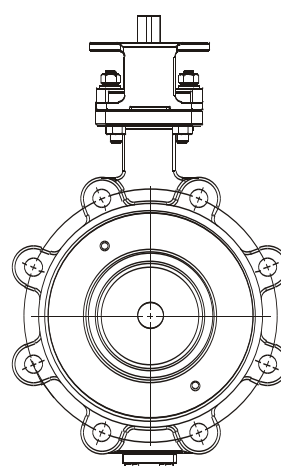
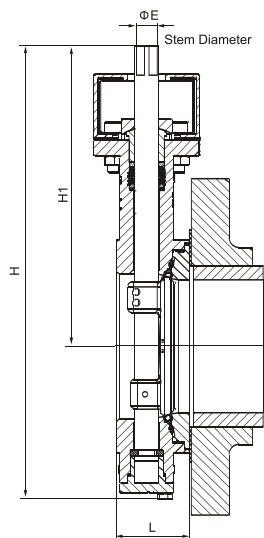
BUTTERFLY VALVE SERIES

Fig. B54W
B54L

Double Eccentric
Soft Seat: R Type, P Type
Metal Seat: M Type



Wafer Type



Lug Type

Dimensions(mm)

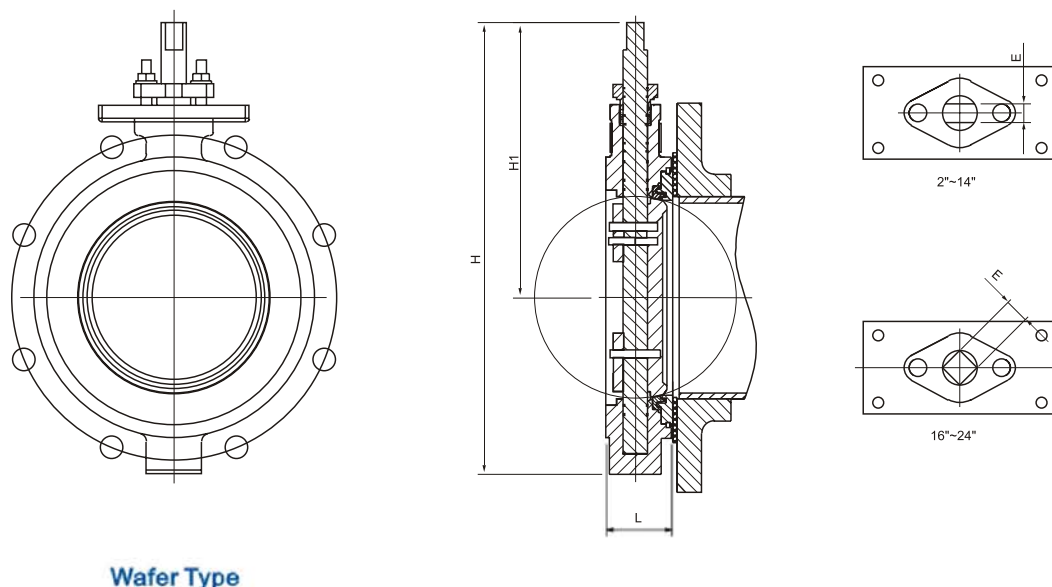
Size	mm	DN50	DN65	DN80	DN100	DN125	DN150	DN200
	Inch	2"	2 1/2"	3"	4"	5"	6"	8"
L		44	46.5	47.8	54.1	56.5	56.5	61.3
H		265	268	295	347	373	418	472
H1		186	186	205	233	242	261	301
ΦE		11	11	11	14	14	17	17
Top Flange		F05/F07	F05/F07	F05/F07	F05/F07	F05/F07	F07/F10	F07/F10

Size	mm	DN250	DN300	DN350	DN400	DN450	DN500	DN600
	Inch	10"	12"	14"	16"	18"	20"	24"
L		69.5	79	92	101.8	114	127	154
H		540	623	738	783	877	948	1110
H1		329	370	428	453	527	558	660
ΦE		22	27	27	36	36	46	46
Top Flange		F07/F10	F10/F12	F12/F14	F14/F16	F14/F16	F14/F16	F16/F25

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Fig. B55W

Double Eccentric
Soft Seat: P Type
Fire-Safe Seat: F Type



Wafer Type

Dimensions(mm)

ASME Class 150

Size	mm	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500	DN600
	Inch	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
L		43.3	49	49	54	64	57	64	71	81	92	102	114	127	154
H		186.3	275	316	341	362	378	441	530.6	595.5	710	767	812	879	1094
H1		124.3	194	203	216	217	235	270	329	357	425	444	466	492	610
E		7	11.2	11.2	11.2	11.2	14	15.9	20.6	23.8	28.5	33.5	41.5	41.5	51

ASME Class 300

Size	mm	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500	DN600
	Inch	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
L		43.3	49	49	54	64	59	73	83	92	118	133	149	162	184
H		186.3	275	316	341	362	413	495	592	675	738	791	955	1075	1151
H1		124.3	194	203	216	217	257	306	353	389	427	452	542	576	646
E		7	11.2	11.2	11.2	11.2	15.9	20.6	23.8	28.7	41.4	41.4	51	51	51

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BUTTERFLY VALVE SERIES

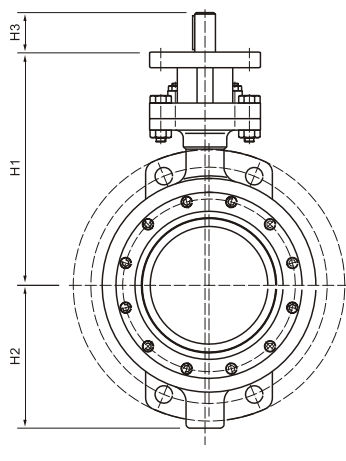
HIGH PERFORMANCE BUTTERFLY VALVE

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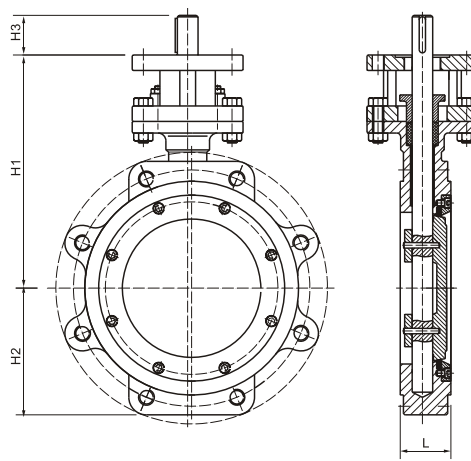
BUTTERFLY VALVE SERIES

Fig. B56W
B56L

Triple Eccentric



Wafer Type



Lug Type

Dimensions(mm)											ASME Class 150				
Size	mm	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500	DN600
	inch	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
L		43	46	48	54	57	57	64	71	81	92	102	114	127	154
H1		175	190	207	215	245	260	310	340	375	465	480	515	535	630
H2		80	100	105	125	190	155	185	210	250	180	310	320	365	425
H3		40	40	40	40	50	50	60	60	60	80	80	100	100	120
Top Flange		F07	F07	F07	F07	F10	F10	F12	F12	F12	F14	F14	F16	F16	F25

ASME Class 300															
Size	mm	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500	DN600
	inch	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
L		43	46	48	54	59	59	73	83	92	117	133	149	159	181
H1		185	190	207	215	245	260	340	395	465	480	515	535	580	630
H2		80	90	100	125	135	155	195	232	270	305	340	370	410	480
H3		40	40	40	40	50	50	60	60	80	80	100	120	120	130
Top Flange		F07	F07	F07	F07	F10	F10	F12	F12	F14	F14	F16	F25	F25	F25

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■ Technical Data

Pressure Range: PN6-PN25

Sizes: DN100-DN3600

Field of Application: water, sea water, hot water, gas.

Standard Actuator: gearbox

Actuator Options:

Hand wheel, gearbox, electric actuator, pneumatic actuator.

Material: body and disc of ductile iron with epoxy coating.

Epoxy coating could be acc. to WRAS quality guidelines as per requests.

■ Product Features

Upper and lower shaft design, flow resistance lightly, blow-out proof shaft design.

Wear-resistant, anticorrosive and impermeable safe seat.

The stainless steel shafts are completely enclosed by O-ring sealing. This design protects the whole bearing optimally from corrosion.

Whatever positive or reverse sealing, seat sealing force increases along with media pressure increasing, have the performance of bidirectional sealing.

The rubber sealing profile retains the rubber sealing ring sturdy between the disk and the retaining ring.

No risk that the sealing ring will be pulled out even at high gap flow speeds.

Advantage of the double eccentric design.

Considerable reduction of the shear stress on the sealing ring.

High service life due to low wear on the sealing ring.

High sealing force and low operating torque.

The sealing line is not interrupted by shaft bearings.

The sealing ring can be exchanged in open position easily.



BUTTERFLY VALVE SERIES

DOUBLE ECCENTRIC DOUBLE FLANGE BUTTERFLY VALVE

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Disc Ring

The disc ring is sturdy between the disk and the retaining ring. No risk that the disc ring will be pulled out even at high gap flow speeds.

Top Flange

Top flange as per ISO5211 standard can suit all kinds of actuators, such as handles, gear box, electric actuator and pneumatic actuators.

Body

Double eccentric design makes the valve with low torque, so it's more economic while you select electric or pneumatic actuator.

Connection between Disc and Shaft

Two piece stem design, taper pin connection between disc and shaft, which can ensure positive vibration proof.

Body Sealing

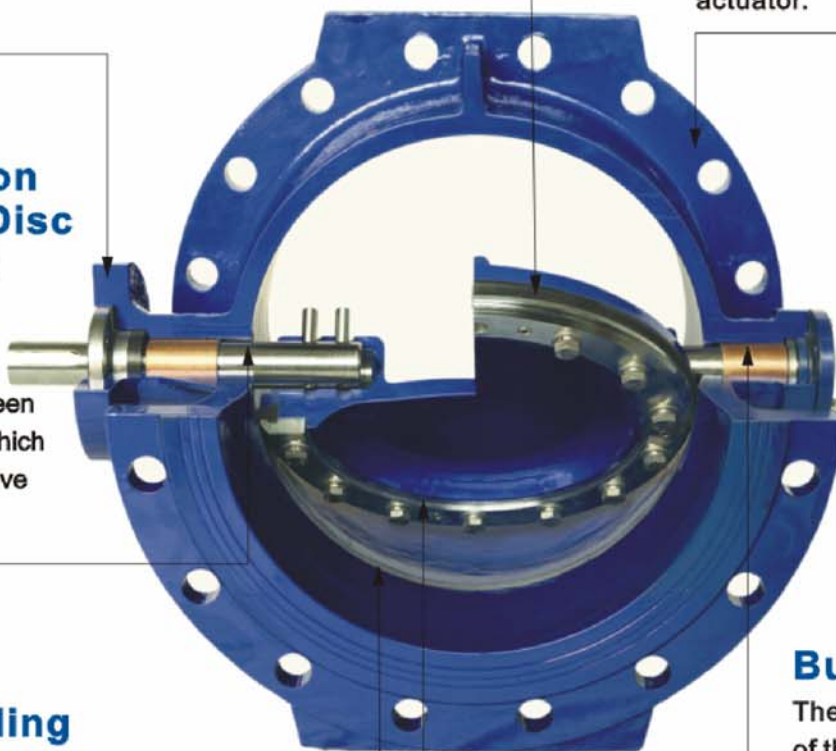
Stainless steel ring sealing

Disc

Double eccentric design disc may reduce friction of the sealing ring, provide the valve long service life

Bushing

The ideal position of the bushing reduces the shaft bending, and ensure bi-directional tightness under different pressure.

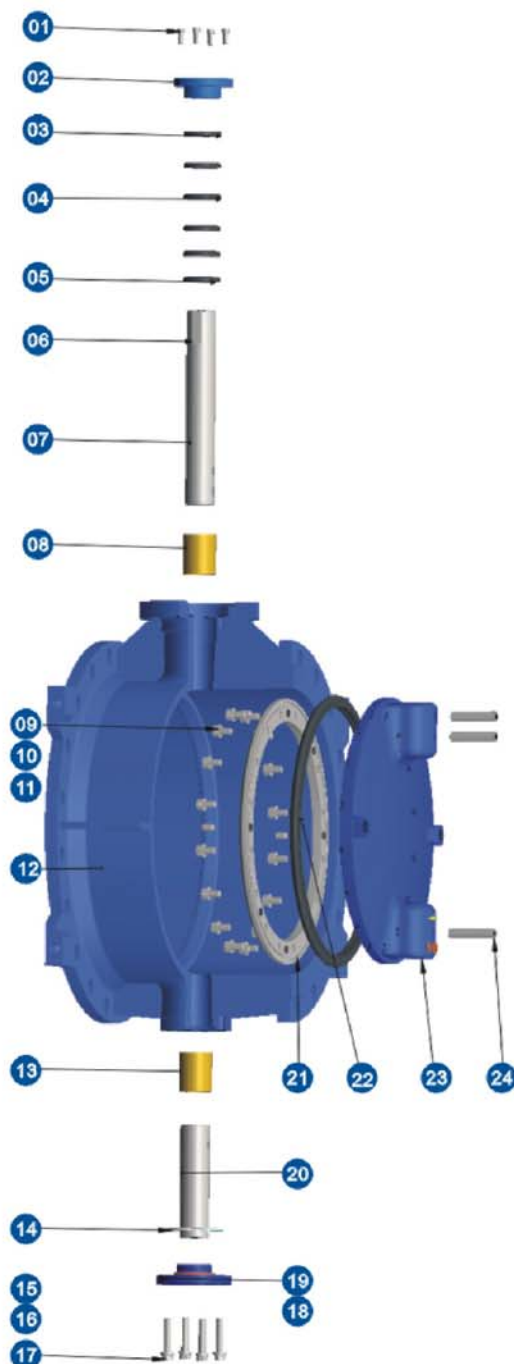


Perfect solution ensures product operation safety, long service life and low cost.

Upper and lower half shaft design has low flow resistance, the shaft is blow-out proof, the disc sealing ring is self-tightening seal, with compensating and bidirectional sealing performance, higher pressure, will seal tighter.

Material List

No.	Part	Material
01	Inside Hexagonal Bolt	SS304
02	Packing Gland	Ductile Iron
03	V Type Packing	EPDM
04	V Type Packing	EPDM
05	V Type Packing Gasket	EPDM
06	C Type Flat Key	Steel
07	Upper Stem	Stainless Steel
08	Upper Bushing	Brass
09	Hexagonal Bolt	SS304
10	Spring Gasket (not showed)	SS304
11	Flat Gasket (not showed)	SS304
12	Body	Ductile Iron
13	Lower Bushing	Brass
14	Splint Collar	SS304
15	Hexagonal Bolt	SS304
16	Spring Gasket (not showed)	SS304
17	Flat Gasket(not showed)	SS304
18	Bottom Cap	Ductile Iron
19	O Ring	EPDM
20	Lower Stem	Stainless Steel
21	Retainer Ring	SS304
22	Rubber Seal Ring	EPDM
23	Disc	Ductile Iron
24	Pin	SS304



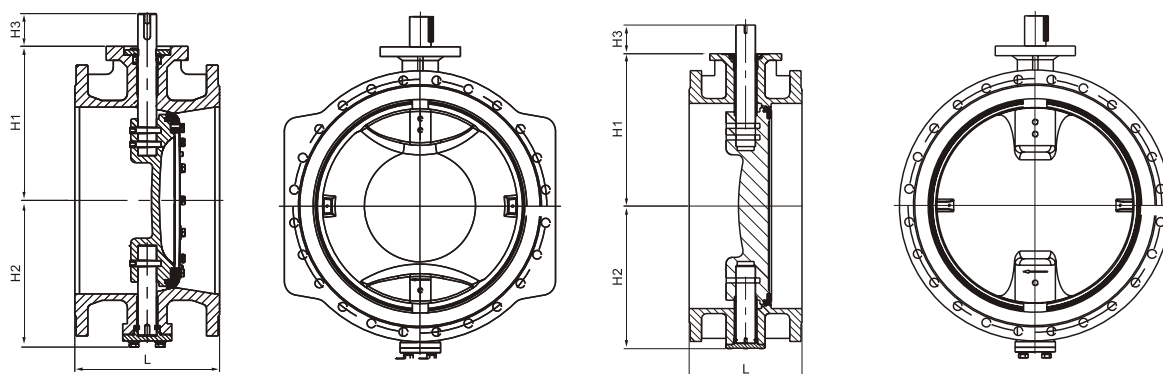
BUTTERFLY VALVE SERIES

DOUBLE ECCENTRIC DOUBLE FLANGE BUTTERFLY VALVE

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BUTTERFLY VALVE SERIES

Fig. B62 13 Series
B64 13 Series



B62 DN350-DN3600 Unidirectional Seal

B64 DN350-DN1200 Bidirectional Seal

Standard Specification

Body Type	Flange Type
Working Pressure	PN6,PN10,PN16
General Design	EN593
Face to Face	EN558-1 13 Series
Top Flange	ISO 5211
Flange Drilling	ISO7005-2,BS EN1092-2

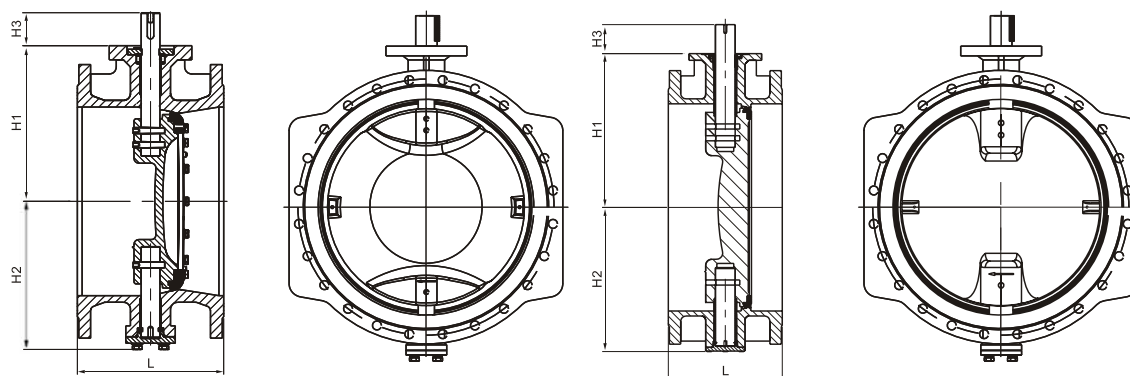
Dimensions(mm)

Size	mm	DN350	DN400	DN450	DN500	DN600	DN700	DN750	DN800	DN900	DN1000	DN1200	DN1300	DN1400
	inch	14"	16"	18"	20"	24"	28"	30"	32"	36"	40"	48"	52"	56"
L		190	216	222	229	267	292	305	318	330	410	470	500	530
H1		320	370	390	432	500	580	620	655	705	708	825	940	1010
H2		276	318	340	400	445	528	548	594	651	727	838	990	1030
H3		65	70	75	85	85	95	95	100	105	115	150	180	190
Top Flange		F14	F14	F14	F16	F16	F25	F25	F25	F25	F25	F30	F35	F35

Size	mm	DN1500	DN1600	DN1800	DN2000	DN2200	DN2400	DN2600	DN2800	DN3000	DN3200	DN3400	DN3600	/
	inch	60"	64"	72"	80	88"	96"	104"	112"	120"	128"	136"	144"	/
L		565	600	670	760	800	850	900	950	1000	1100	1200	1200	/
H1		1050	1080	1250	1370	1530	1655	1850	1950	2050	2200	2300	2450	/
H2		1080	1130	1270	1385	1550	1720	1900	2000	2100	2250	2350	2500	/
H3		200	210	230	250	270	290	290	290	360	360	410	410	/
Top Flange		F35	F40	F40	F48	F48	F48	F48	F48	F60	F60	F60	F70	/

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Fig. B62 14 Series
B64 14 Series



B62 DN100-DN3600 Unidirectional Seal

B64 DN250-DN1200 Bidirectional Seal

Standard Specification

Body Type	Flange Type
Working Pressure	PN6,PN10,PN16
General Design	EN593
Face to Face	EN558-1 14 Series
Top Flange	ISO 5211
Flange Drilling	ISO7005-2,BS EN1092-2

Dimensions(mm)

Size	mm	DN100	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500	DN600	DN700	DN750	DN800	DN900	DN1000
	inch	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	30"	32"	36"	40"
L		190	210	230	250	270	290	310	330	350	390	430	450	470	510	550
H1		130	155	200	242	264	300	350	390	402	465	510	570	580	628	708
H2		136	156	195	224	250	276	318	340	380	446	528	543	574	649	727
H3		40	40	45	45	50	65	70	75	85	85	95	95	100	105	115
Top Flange		F07	F07	F10	F10	F10	F14	F14	F14	F16	F16	F25	F25	F25	F25	F25

Size	mm	DN1200	DN1300	DN1400	DN1500	DN1600	DN1800	DN2000	DN2200	DN2400	DN2800	DN2800	DN3000	DN3200	DN3400	DN3600
	inch	48"	52"	56"	60"	64"	72"	80	88"	96"	104"	112"	120"	128"	136	144"
L		630	670	710	750	790	870	950	1000	1100	1200	1300	1400	1500	1600	1700
H1		825	940	1010	1050	1080	1250	1370	1530	1655	1850	1950	2050	2200	2300	2450
H2		840	990	1030	1080	1130	1270	1385	1550	1720	1900	2000	2100	2250	2350	2500
H3		150	180	190	200	210	230	250	270	290	290	290	360	360	410	410
Top Flange		F30	F35	F35	F35	F40	F40	F48	F48	F48	F48	F48	F60	F60	F60	F70

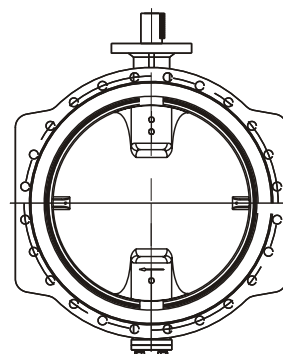
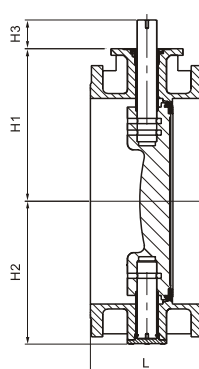
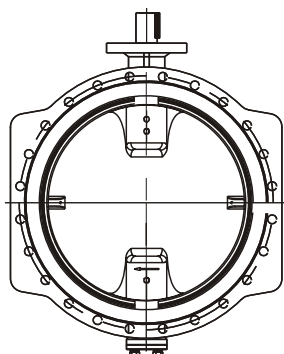
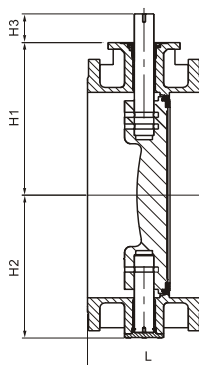
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BUTTERFLY VALVE SERIES

DOUBLE ECCENTRIC DOUBLE FLANGE BUTTERFLY VALVE



Fig. B62 14 Series
B64 14 Series



B62 DN100-DN1200 Unidirectional Seal

B64 DN250-DN1200 Bidirectional Seal

Standard Specification

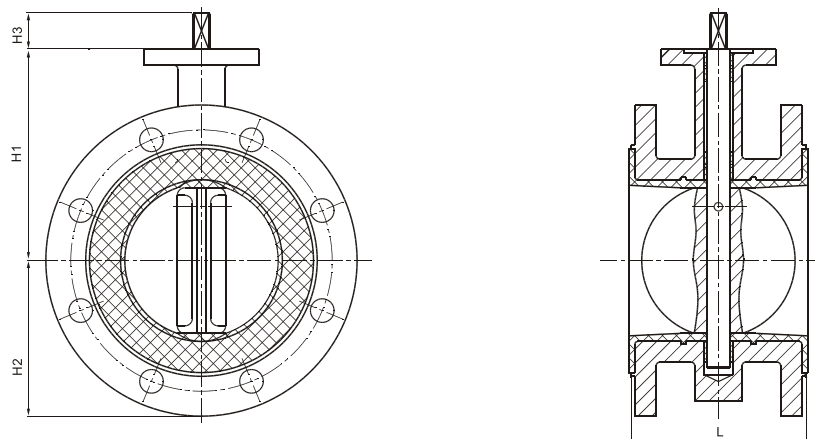
Body Type	Flange Type
Working Pressure	PN25
General Design	EN593
Face to Face	EN558-1 14 Series
Top Flange	ISO 5211
Flange Drilling	ISO7005-2, BS EN1092-2

Dimensions(mm)

mm	DN100	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500	DN600	DN700	DN750	DN800	DN900	DN1000	DN1200
Size																
Inch	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	30"	32"	36"	40"	48"
L	190	210	230	250	270	290	310	330	350	390	430	450	470	510	550	630
H1	130	155	220	285	315	355	392	417	435	505	560	593	625	675	742	855
H2	136	156	200	256	290	315	341	365	395	476	530	555	585	642	716	810
H3	40	40	45	65	70	70	85	85	100	100	100	100	110	120	130	150
Top Flange	F07	F07	F10	F12	F14	F14	F16	F16	F16	F25	F25	F25	F30	F30	F30	F35

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Fig. B70F



Standard Specification

Body Type	Flange Type
Working Pressure	PN10,PN16,Class 125,10K,16K
Face to Face	EN558-1 13 Series
Top Flange	ISO 5211
Flange Drilling	ISO 7005,BS EN1092,JIS B2220, ASME Class 125/Class 150, AS2129 Table D/E,GB/T 9113
Disc and Stem Connection Type	Pin,Spline,Two Pieces
Stem Top	Round,Square,45° square,Double D

Dimensions(mm)

Size	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000	1200
	inch	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"	36"	40"	48"
L		108	112	114	127	140	140	152	165	178	190	216	222	229	267	292	318	330	410	470
H1		120	145	130	165	180	190	240	260	300	330	370	400	500	525	570	630	690	745	925
H2		80	75	90	115	110	150	160	195	220	245	267	300	390	425	480	575	560	637	775
H3		29	29	29	29	29	29	35	35	35	45	51.2	51.2	64.2	70.2	66	66	118	142	160
Top Flange		F05	F05	F05	F07	F07	F07	F10	F10	F10	F14	F14	F14	F14	F16	F25	F25	F25	F25	F30

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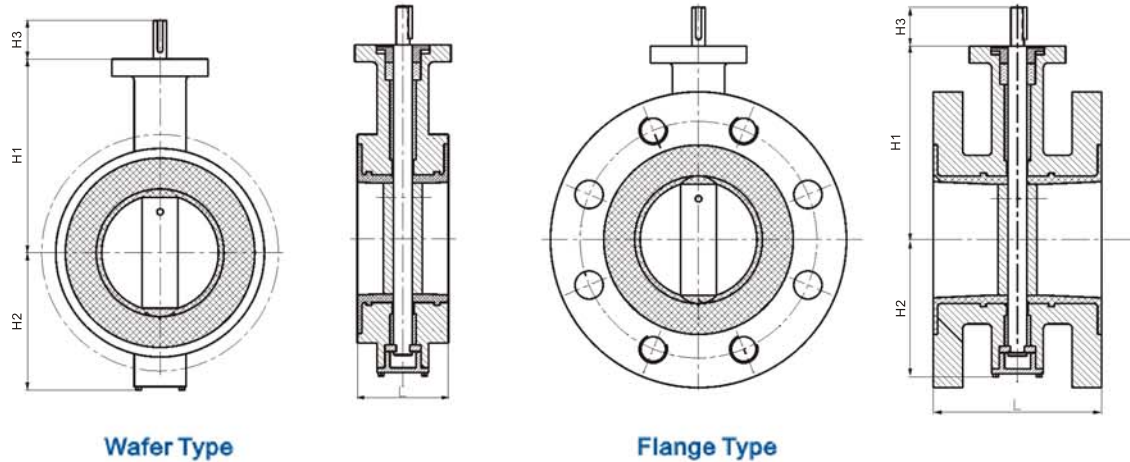
BUTTERFLY VALVE SERIES

AWWA C504 BUTTERFLY VALVE

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BUTTERFLY VALVE SERIES

Fig. B71W
B71F



Standard Specification

Body Type	Wafer Type, Flange Type
Working Pressure	150Psi/250Psi
General Design	AWWA C504
Face to Face	AWWA C504
Top Flange	ISO 5211
Flange Drilling	ASME B16.1 Class125
Design Feature	Center Line

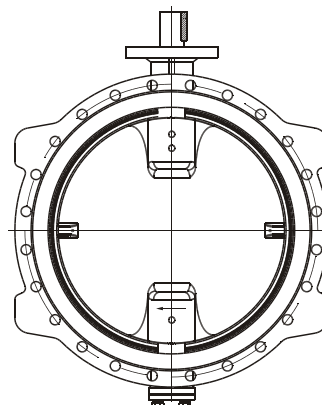
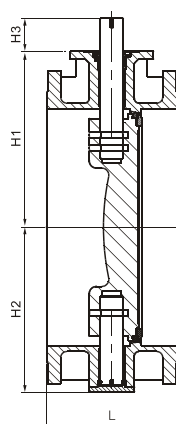
Dimensions(mm)

	Size	mm	DN80	DN100	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500
		Inch	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"
B71W	L		50.8	57.2	71.4	74.6	79.4	85.7	96.3	105	117	130
	H1		120	140	165	200	228	268	300	342	365	406
	H2		91	111	141	171	233	253	287	335	350	385
	H3		29	29	29	35	35	35	45	51.2	51.2	64.2
	Top Flange		F07	F07	F10	F10	F10	F12	F12	F14	F14	F16

	Size	mm	DN80	DN100	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500
		Inch	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"
B71F	L		127	127	127	152	203	203	203	203	203	203
	H1		159	178	203	242	274	313	356	382	420	459
	H2		90	101	149	159	195	231	261	288	330	362
	H3		29	29	29	35	35	35	45	51.2	51.2	64.2
	Top Flange		F07	F07	F10	F10	F10	F12	F12	F14	F14	F16

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Fig.B72F



Flange Type

Standard Specification

Body Type	Flange Type
Working Pressure	150Psi
General Design	AWWA C504
Face to Face	AWWA C504
Top Flange	ISO 5211
Flange Drilling	ASME B16.1 Class125
Design Feature	Double Eccentric

Dimensions(mm)

Size	mm	DN600	DN750	DN900	DN1050	DN1200	DN1350	DN1500	DN1650	DN1800
	Inch	24"	30"	36"	42"	48"	54"	60"	66"	72"
L		457	559	559	610	660	711	762	864	914
H1		505	646	716	830	931	1035	1150	1285	1340
H2		476	622	728	860	960	1040	1215	1320	1490
H3		100	110	130	150	170	190	210	230	250
Top Flange		F25	F25	F30	F30	F35	F35	F40	F40	F48

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BUTTERFLY VALVE SERIES

PTFE LINED BUTTERFLY VALVE

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BUTTERFLY VALVE SERIES

Shaft

Square type stem head design facilitates adaption to automatic actuation.

Belleville Washer

The specially designed elastomer washer provides live loading to maintain constant pressure on the body lining. The fluoroelastomer materials reduce the deformation in virtue of continuous temperature variation.

Seat

Molded liner is machined to provide low torque and reduce wear on the contacting parts.

One-piece Disc

Disc has spherically machined and hand polished disc edge hubs to eliminate torque and improve sealing capacity.

ISO-5211 Mounting Flange

Universal mounting dimensions facilitate valve actuations. Allows for direct mounting of several actuators.

Stem Bearings

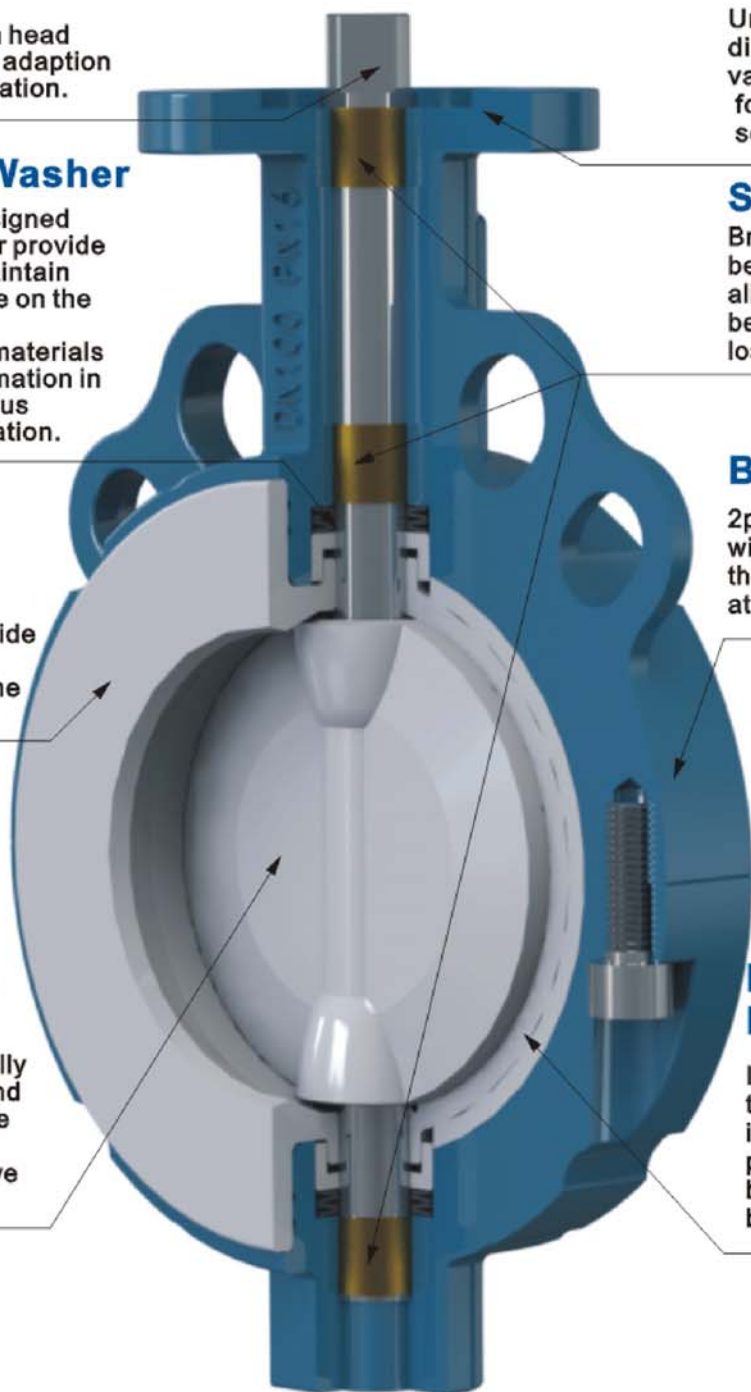
Bronze or PTFE/SS bearings maintain shaft alignment. Self-lubricated bearings reduce side loading of shaft.

Body

2pc split body construction with epoxy coating resists the effect of atmospheric corrosion.

Elastomer Back-up

It is the same width as the disc edge and locked into body groove. It provides resilience to body liner, giving bubble-tight seal.



B80 Series Butterfly Valve

Hiwa PTFE lined butterfly valve is designed for control and the isolation of aggressive media. A fully Lined valve is highly recommended for abrasive and corrosive applications where require reliable performance, drop-tight shutoff, constant torque and no maintenance.

B80 Series butterfly valve is rated to 150 psi and is also suitable for ultrapure application.

Lining Material

Hiwa uses virgin resin of well-known brand to produce its PTFE, PFA and FEP fluoropolymers. Especially for lined valves, factors including liner thickness, resin quality and fabrication expertise always are more significant to affect valve performance and its service life.



Seat Liner

- * Materials shall be PTFE, PFA and FEP
- * Molded and machined with min. 3mm nominal thickness
- * Optional TFM liner available for extremely demanding applications

More information about selection of appropriate liner material for a given service, please consult manufacturer.



Disc lining

- * Fully lined with PTFE or PFA
- * Encapsulated with a min. 3mm thick PTFE or PFA

Liner thickness: In accordance with ASTM F1545, the lining thickness must be 3mm min. In practice, thicker linings offer better safety under vacuum, better resistance against abrasion as well as lower gas permeability.

Electrostatic Spark Test

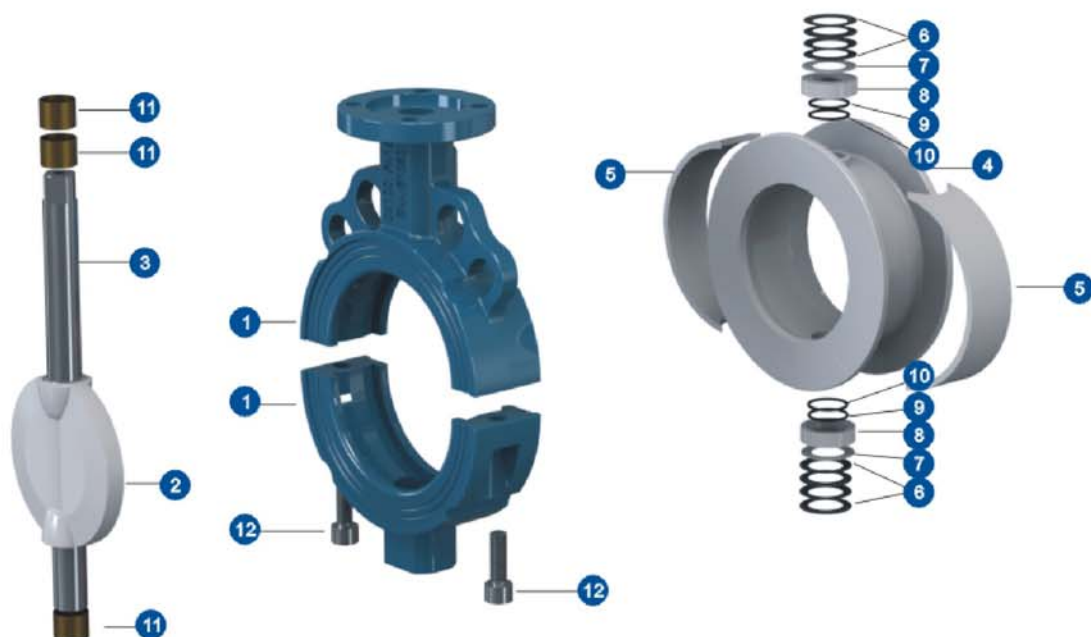
It is the test with a non-destructive high-voltage tester and shall be done prior to shipment. Each lined valve passes a 10,000 volts min. Spark test to detect any cracks or pin holes and ensure the integrity of the liner.

BUTTERFLY VALVE SERIES

PTFE LINED BUTTERFLY VALVE

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BUTTERFLY VALVE SERIES



Material List

No.	Part	Material
1	Body	ASTMA395 Ductile Iron
		ASTMA216-WCB Carbon Steel
		ASTMA351-CF8M Stainless Steel
2	Disc	PTFE / PFA/FEP Lined
		Stainless Steel
		Aluminum Bronze
3	Stem	Stainless Steel
4	Seat	PTFE/RTFE/PFA/TFM
5	Back-up	VMQ Silicon Rubber/FKM/EPDM
6	Belleville Washers	VMQ Silicon Rubber
7	Washers	PTFE
8	Pusher	Stainless Steel
9	O-ring	FKM/VMQ/FKM with PTFE
10	O-ring	FKM/VMQ/FKM with PTFE
11	Bearing	316 with PTFE
12	Screw	Stainless Steel

Applications

- * Chemical Processing
- * Petrochemical
- * Pulp and Paper Processing
- * Solid handling
- * Purification Plants
- * Pharmaceutical Industry
- * Food Industry
- * Mining
- * Textile
- * Highly corrosive gas, liquid, slurry or powder

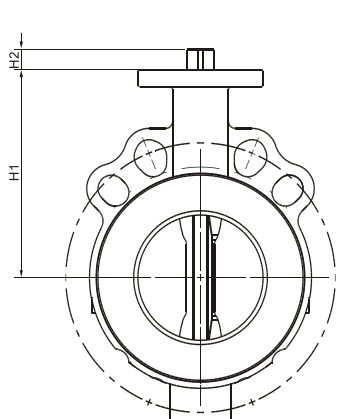
Product Range

Body Configurations: Wafer and Lug
Valve Size: 1-1/2" 16" (DN40 ~ DN400)
Temperature: -40~180

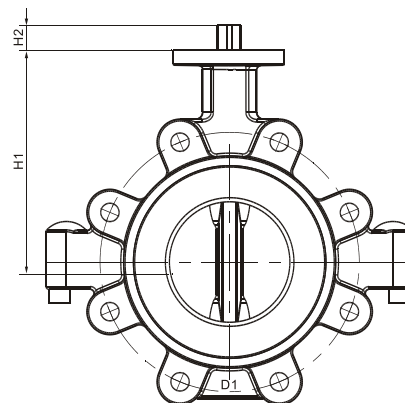
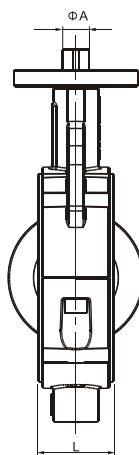
Operator Available

Lever Handle, Gear Operator,
Pneumatic and Electric Actuators

Fig. B80W
B80L



Wafer Type



Lug Type

Standard Specification

Body Type	Wafer,Lug
Working Pressure	PN10,PN16,Class 125,10K,16K
Face to Face	API609,EN558-1 20 Series, ISO5752,DIN3202 K1
Top Flange	ISO 5211
Flange Drilling	ISO 7005,BS EN1092,JIS B2220, ASME Class 125/Class 150, AS2129 Table D/E,GB/T 9113
Stem Top	Round,Square,45° square,Double D

Dimensions(mm)

Size	mm	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400
	inch	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"
L		33	43	46	46	52	56	56	60	68	78	78	102
H1	Wafer	100	110	125	132	147	170	190	222	270	290	325	342
	Lug	100	110	125	136	151	170	190	222	270	290	325	342
H2		29	29	29	29	29	29	29	35	35	35	45	51.2
A		9	11	11	11	14	17	17	19/22	22	22	27	36
Top Flange		F05	F05	F05	F05	F07	F07	F07	F07/F10	F10	F10/F12	F12	F14

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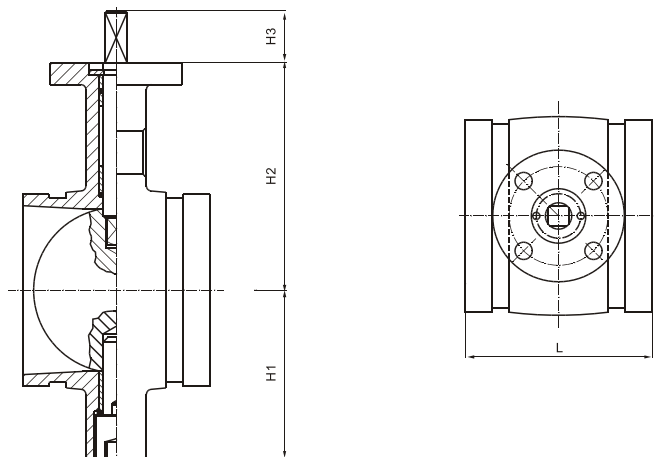
BUTTERFLY VALVE SERIES

GROOVED BUTTERFLY VALVE

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BUTTERFLY VALVE SERIES

Fig. B90G
B91G
B91G-U



Standard Specification

Body Type	Grooved Type
Working Pressure	PN10,PN16,Class 125,10K,16K,PN25,Class 150,20K
Face to Face	MSS SP-67
Top Flange	ISO 5211
End Connection	AWWA C606
Stem Top	Round,Square,45° square,Double D

UL listed available

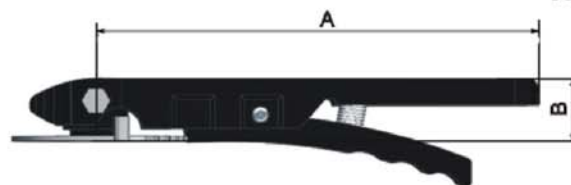
Dimensions(mm)

	Size	mm	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300
		inch	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
B90G	L		84.6	97.8	97.8	111.3	148.8	148.8	134	160	160
	H1		101.6	106.2	112.5	135.4	150.9	179	208	250	275
	H2		70	75	82	100	114	130	162	200	230
	H3		29	29	29	29	29	29	35	35	35
	Top Flange		F05	F05	F05	F07	F07	F07	F10	F10	F10
B91G	L		86	97	97	116	133	134	148	159	163
	H1		101.6	106.2	112.5	135.4	138	163	204	250	275
	H2		70	75	82	100	100	115	150	200	230
	H3		29	29	29	29	29	29	35	35	35
	Top Flange		F05	F05	F05	F07	F07	F07	F10	F10	F10

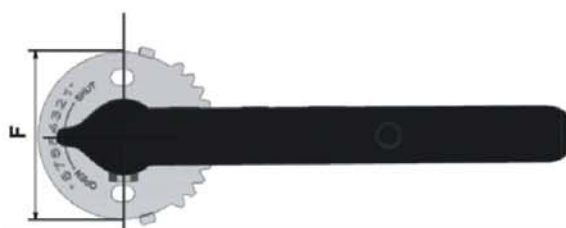
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H11 Steel Handle

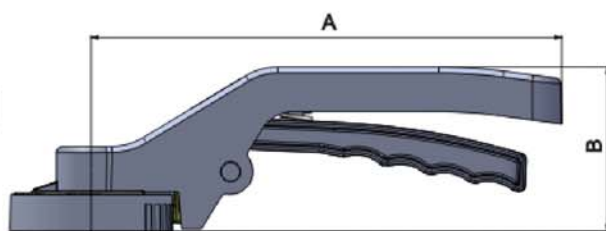
Fig. H11
H21
H32



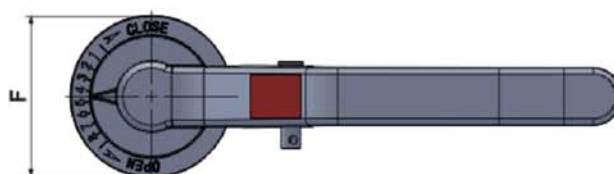
A	B	F
193	52	F05
216	56	F07
259	54	
312	67	F10
378	93	



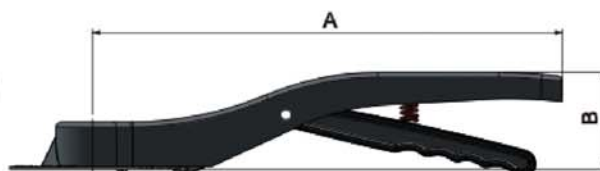
H21 Aluminum Handle



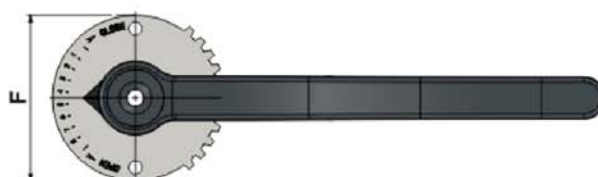
A	B	F
190	65	F05
256	76	F07
355	106	F10



H32 Iron Handle



A	B	F
190	28	F05
256	30	F07
355	36	F10

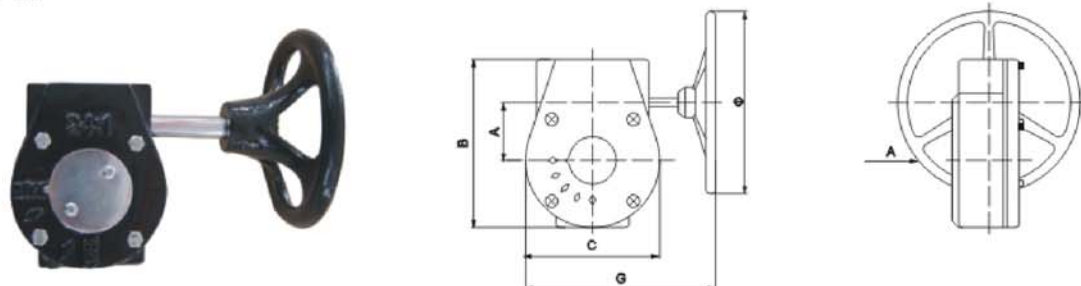


GEARBOX OPERATOR

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GEARBOX OPERATOR

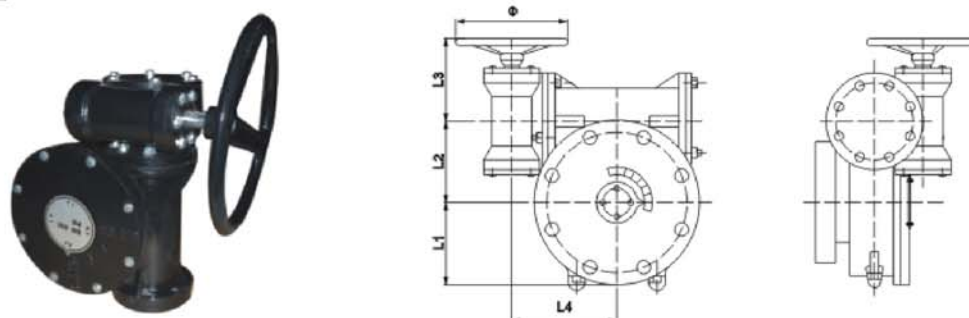
Fig. W11



Dimensions(mm)

Size	mm	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450
	Inch	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"
A		45	45	45	45	45	45	63	63	80	80	80	80
B		125	125	125	125	125	125	167	167	188	188	188	188
C		102	102	102	102	102	102	141	141	151	151	151	151
G		205	205	205	205	205	205	295	295	291	291	291	291
Φ		150	150	150	150	150	150	285	285	285	285	285	285
Top Flange		F05	F05	F05	F07	F07	F07	F10	F10	F10	F10	F14	F14

Fig. W12



Dimensions(mm)

Size	mm	DN500	DN600	DN700	DN750	DN800	DN900	DN1000	DN1200
	Inch	20"	24"	28"	30"	32"	36"	40"	48"
L1		107	131	173	173	173	201	201	185
L2		100	125	162	162	162	196	196	240
L3		156	160	197	197	197	203	203	203
L4		168	193	245	245	245	279	279	311
Φ		285	385	425	425	425	425	425	425
Top Flange		F14	F16	F25	F25	F25	F25	F25	F30

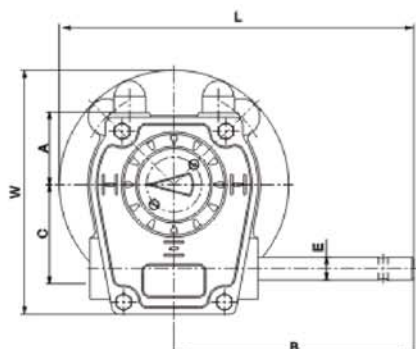
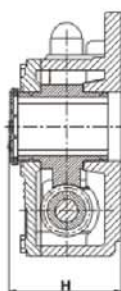
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**Fig. W71
IP67/IP68**

W71 series part-turn gearbox are with good mechanical quality and steady operating performance which are applied to deal with variety climates and temperatures.

It can withstand big torque, small size with compact design.

Ingress Protection Rating: IP67/IP68



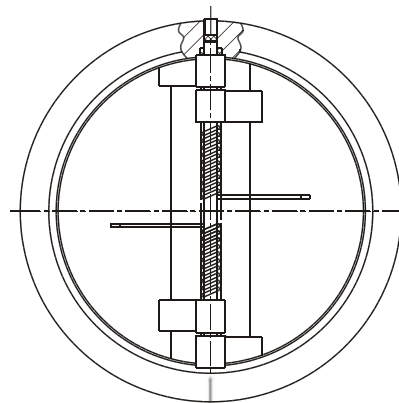
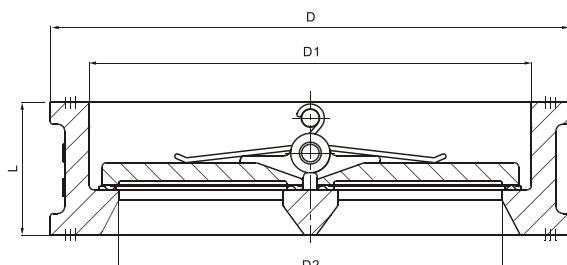
Dimensions(mm)

Model	A	B	C	ΦE	W	H	L	Flange	Input Torque N.M	Output Torque N.M	Ratio	Diameter of Handwheel mm
W7107	33	84	36.5	10	103	54	129	F07	14	160	41:1	140
W7107-1	36	124	44.6	12	114.5	67	169.5	F07	18	200	42:1	140
W71050710	36	124	44.6	12	131.5	67	186.5	F05/F07/F10	18	200	42:1	140
W710710	47	157	55	15	147.5	73	219.5	F07/F10	46	500	40:1	200
W71071012	47	157	55	15	160	73	232	F07/F10/F12	46	500	40:1	200
W711014	66.5	201	71	20	200.5	97	288.5	F10/F14	109	1000	34:1	400
W71101216	66.5	201	71	20	218	97	306	F10/F12/F16	109	1000	34:1	400
W711216	78	189	86	20	241	105	294	F12/F16	175	2000	38:1	500
W71121620	78	189	86	20	263.5	105	316.5	F12/F16/F20	175	2000	38:1	500
W711216-1	81	230	104.5	20	259	108.5	337	F12/F16	197	3250	55:1	600
W71121625	81	230	104.5	20	302	108.5	380	F12/F16/F25	197	3250	55:1	600
W711625	95	301	130	20	322.5	124	443.5	F16/F25	106	5500	217:1	400
W711625-1								F16/F25	134	7000	217:1	500
W711625-2								F16/F25	145	9000	259:1	600
W711625-3	108	322	150	20	347	125	472	F16/F25	123	11000	372:1	600
W712530	110	353.5	182	20	407	133	538.5	F25/F30	107	8400	326:1	400
W712530-1								F25/F30	111	12500	468:1	500
W712530-2								F25/F30	151	17000	468:1	600
W713035	110	353.5	182	20	407	133	538.5	F30/F35	149	26000	729:1	600
W713035-1	110	414.5	256	20	570	179	672	F30/F35	153	32000	870:1	600

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CHECK VALVE SERIES

Fig. C10
C11
C12



Standard Specification

Working Pressure	PN10,PN16,Class 125,10K
Face to Face	DIN3202 K3,API594
Flange Drilling	ISO 7005,BS EN1092, ASME Class 125/Class 150
Body	Cast Iron,WCB,SS304,SS316
Disc	Ductile Iron,SS304,SS316
Seat	EPDM,NBR,VITON

Dimensions(mm)

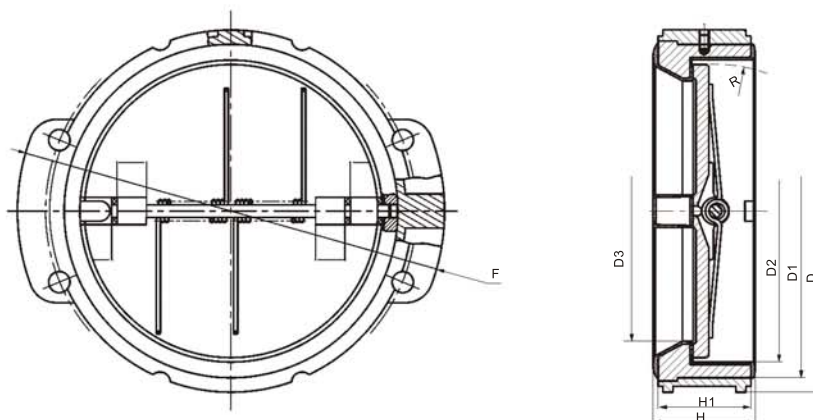
Size	mm	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500	DN600	DN700	DN800
	inch	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	32"
C10	L	43	43	46	64	64	70	76	89	114	114	127	140	152	152	178	229	241
	D	PN10	78	107	127	142	162	192	218	273	328	378	438	489	539	594	695	810
		PN16	78	107	127	142	162	192	218	273	328	378	444	489	555	618	733	804
	D1	57	65	80	94	117	145	170	224	265	310	360	410	450	505	624	720	825
	D2	38	46	60	70	88	115	134	184	220	260	298	350	385	438	538	640	734

Size	mm	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500	DN600
	inch	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
C11	L	54	54	57	64	70	76	95	108	143	184	190	203	213	222
	D	105	124	137	177	197	222	279	340	410	451	514	549	606	718
	D1	60	73	89	114	140	168	219	273	324	356	406	457	508	610
	D2	38	48	64	87	102	130	177	216	260	308	359	400	440	536

Size	mm	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500	DN600
	inch	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
C12	L	54	60	67	67	83	95	127	140	181	184	191	203	213	222
	D	107	127	137	175	187	222	279	340	410	451	511	546	603	714
	D1	65	78	94	117	145	171	222	276	328	375	410	450	505	624
	D2	46	60	70	88	115	134	182	220	260	298	350	385	438	538

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Fig. C20



Features

Spring loaded
Automatic operation
Resilient seat

Compact design
Suitable for horizontal or vertical
Quick closure to reduce water hammer

Standard Specification

Working Pressure	PN10,PN16,Class 125,10K
Flange Drilling	ISO 7005,BS EN1092, ASME Class 125/Class 150, AS2129 Table E
Body	Cast Iron,Ductile Iron
Disc	Ductile Iron,SS304,SS316
Seat	EPDM,NBR,VITON

Dimensions(mm)

Size	mm	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500
	inch	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"
H		54	54	54	63.5	66.7	79.4	98.4	101.6	130.2	181	162	184.2	215.9
H1		50	50	50	60	63	76	95	98	126	178	159	180.5	212.5
F		165	185	200	234	270	304	367	428	497	570	635	640	700
R		29	36	43	53	66	79	104	127	148	172	197	218	241
D		101	120	131	171	193	222	268	335	403	430	511	546	597
D1		84.6	98.9	116.3	143.4	172	200.5	254.3	308.5	365.6	394.8	448.8	505.9	553.6
D2		66.68	79.38	92.08	117.48	144.46	171.45	222.25	276.23	327.03	358.78	409.58	460.37	511.17
D3		47.6	58.7	69.9	87.3	112.7	141.3	192.1	230.2	274.6	306.4	355.6	406.1	469.9

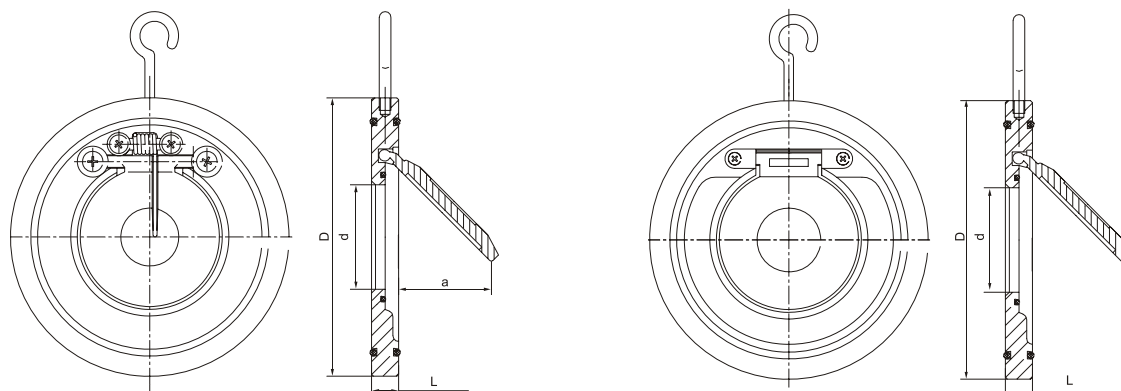
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CHECK VALVE SERIES

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CHECK VALVE SERIES

Fig. C30



Features

Economical design
Minimal head loss
Fugitive emission design

Robust design
Steel body
With spring or without spring

Standard Specification

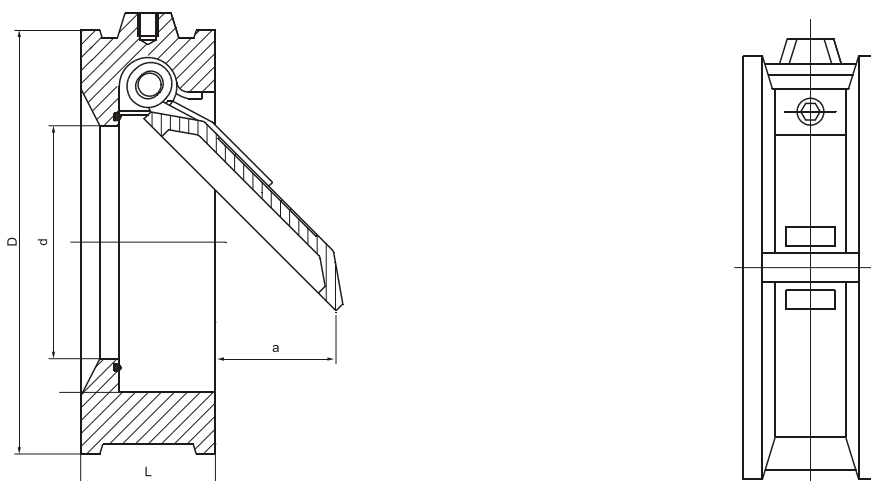
Working Pressure	PN10,PN16,Class 125,10K
Flange Drilling	ISO 7005,BS EN1092, ASME Class 125/Class 150
Body	WCB,SS304,SS316
Disc	WCB,SS304,SS316
Seat	EPDM,NBR,VITON

Dimensions(mm)

Size	mm	DN32	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500	DN600
	inch	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
L		14	14	14	14	14	18	18	20	22	26	32	38	44	44	56	62
D	PN6	82	88	98	118	134	154	184	209	264	319	375	425	475	530	580	681
	PN10	82	95	109	129	144	164	195	220	275	330	380	440	490	540	595	698
	PN16	82	95	109	129	144	165	195	220	275	332	387	447	495	557	619	734
	PN25	82	95	109	129	144	170	198	228	288	343	403	460	517	567	627	737
a		26	30	36	48	60	78	98	117	160	200	235	258	300	331	368	435
d		20	22	32	40	54	70	92	112	154	200	240	270	310	360	405	485

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Fig. C32



Features

Economical design
Versatility
Durable design

Minimal head loss
Easy installation
Quick closure to reduce water hammer

Standard Specification

Working Pressure	PN10,PN16,Class 125,10K
Flange Drilling	ISO 7005,BS EN1092, ASME Class 125/Class 150 AS2129 Table D/E
Body	Cast Iron,Ductile Iron
Disc	Ductile Iron,SS304,SS316
Seat	EPDM,NBR,VITON

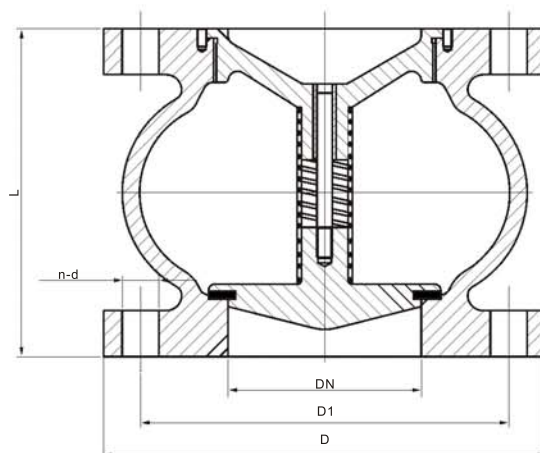
Dimensions(mm)

Size	mm	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500	DN600
	Inch	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
L		44.5	48	51	57	63.5	70	73	79	86	108	108	108	140	152
a		29	30	56	75	95	114	156	187	222	229	248	300	324	387
d		33	47	52	76	95	121	168	194	241	267	318	356	387	483
D	Table D/E	98	111	130	162	194	216	273	337	384	444	495	558	615	726/723
	ANSI 125	102	121	134	172	194	220	277	337	407	447	511	546	602	715
	EN1092 PN16	106	126	141	161	191	217	272	337	382	446	515	550	610	733

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CHECK VALVE SERIES

Fig. C41-PN16



Features

Silent closing	Flange type
Globe style	Minimizes water hammer
Iron body	Long service life
PN16 pressure	Suitable for horizontal or vertical

Standard Specification

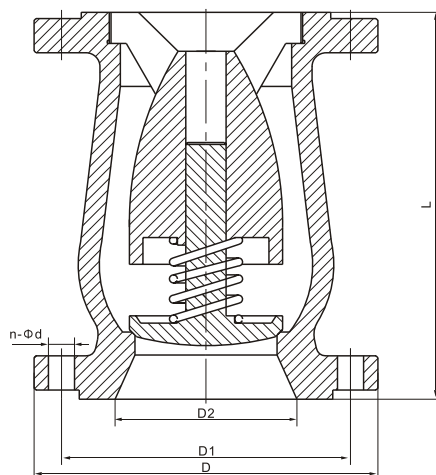
Working Pressure	PN10,PN16,Class 125,10K
Flange Drilling	ISO 7005,BS EN1092, ASME Class 125/Class 150
Body	Cast Iron,Ductile Iron
Disc	Ductile Iron,SS304,SS316
Seat	EPDM,NBR,VITON

Dimensions(mm)

Size	mm	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300
	Inch	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
L		100	120	140	170	200	230	288	354	410
D		152	178	191	229	254	279	343	406	483
D1		120.5	139.5	152.5	190.5	216	241.5	298.5	362	432
n-Φd		4-19	4-19	4-19	8-19	8-22	8-22	8-22	12-25	12-25

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Fig. C41-PN25



Features

Silent closing
Globe style
Steel body
PN25 pressure

Flange type
Minimizes water hammer
Long service life
Suitable for horizontal or vertical

Standard Specification

Working Pressure	PN25, Class 150, 20K
Face to Face	ASME B16.10
Flange Drilling	ISO 7005, BS EN1092, ASME Class 125/Class 150, GB/T 9115
Body	WCB, SS304, SS316
Disc	WCB, SS304, SS316

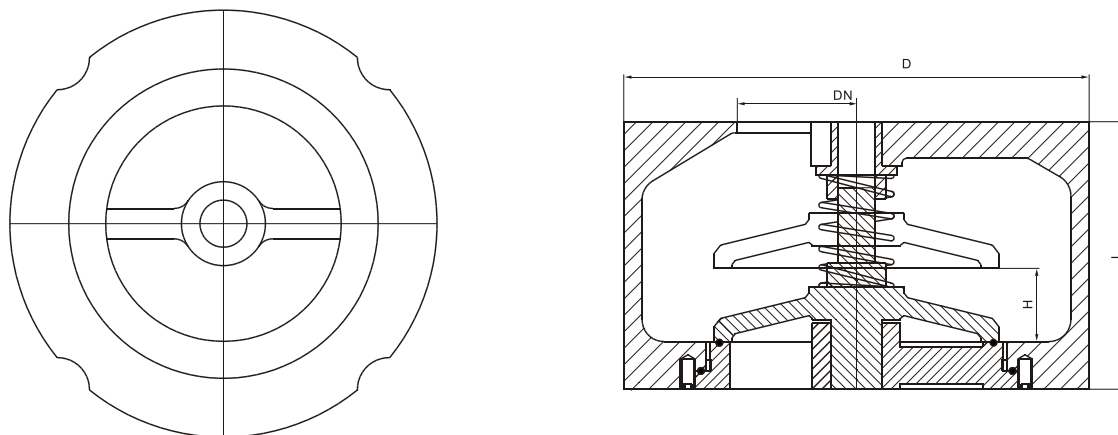
Dimensions(mm)

Size	mm	DN40	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500	DN600
	Inch	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
L		165	203	216	241	292	330	356	495	622	699	787	864	978	978	1295
D		150	165	185	200	235	270	300	360	425	485	555	620	670	730	845
D1		110	125	145	160	190	220	250	310	370	430	490	550	600	660	770
D2		38	51	64	76	102	127	152	203	252	305	337	387	450	500	600
n-Φd		4-18	4-18	8-18	8-18	8-22	8-26	8-26	12-26	12-30	16-30	16-33	16-36	20-36	20-36	20-39

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CHECK VALVE SERIES

Fig. C43



Features

Compact wafer type
Silent closing
Low headloss
Spring actuated

Iron body
Long service life
Superior performance
Suitable for horizontal or vertical

Standard Specification

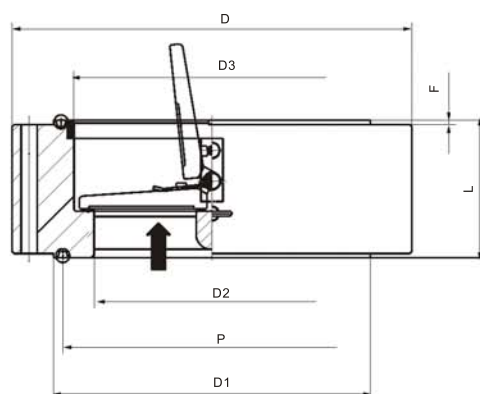
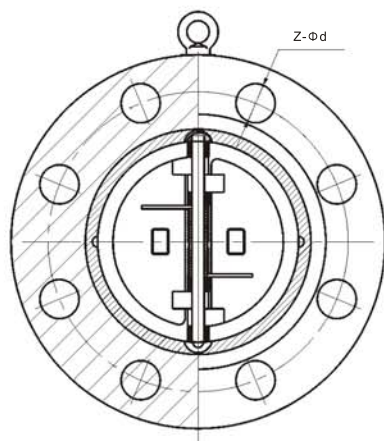
Working Pressure	PN10,PN16,Class 125,10K
Flange Drilling	ISO 7005,BS EN1092, ASME Class 125/Class 150
Body	Cast Iron,Ductile Iron
Disc	SS304,SS316
Sealing Ring	EPDM,NBR,VITON

Dimensions(mm)

Size	mm	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300
	Inch	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
L		66.7	73	79.4	102	121	140	165	210	286
D		108	127	146	177.8	212.8	247.6	301.7	357	419
H		13	17	20	25	32	38	50	63	75
CV		40	60	85	150	230	340	600	900	1100

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Fig. C51



Standard Specification

Working Pressure	PN10,PN16,Class 125,10K
Flange Drilling	ISO 7005,BS EN1092, ASME Class 125/Class 150
Body	WCB,SS304,SS316
Disc	WCB,SS304,SS316
Seat	SS304,SS316

Dimensions(mm)

Size	mm	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500	DN600
	Inch	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
L		60	67	73	73	86	98	127	146	181	184	191	203	219	222
D		152	178	190	229	254	279	343	406	483	533	597	635	699	813
D1		120.5	139.5	152.5	190.5	216	241.5	298.5	362	432	476	540	578	635	749.5
D2		92	105	127	157	186	216	270	324	381	413	470	533	584	692
D3		51	65	80	102	127	152	203	254	305	350	400	450	500	600
D4		56	73	88	108	132	160	210	266	310	355	405	455	505	605
P		82.5	101.6	114.3	149.2	171.4	193.6	247.6	304.6	381	396.8	454	517.5	558.8	673.1
Z-d		4-19	4-19	4-19	8-19	8-22	8-22	8-22	12-25	12-25	12-29	16-29	16-32	20-32	20-35

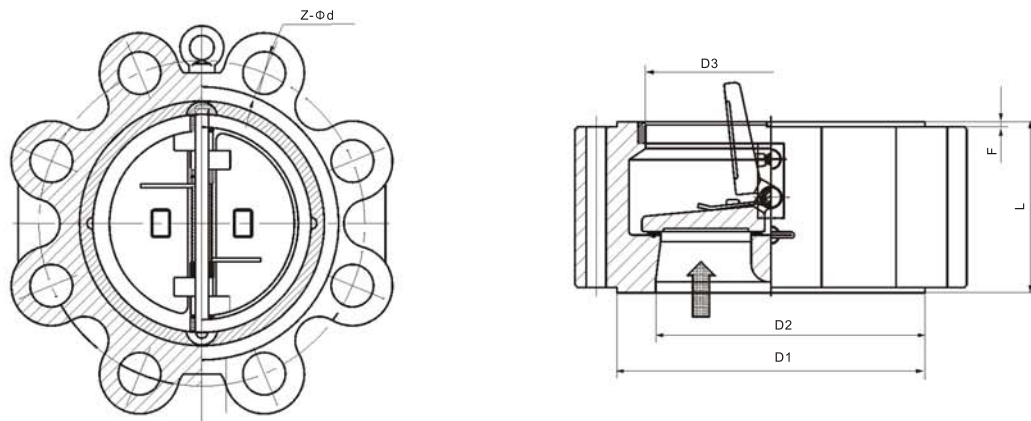
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CHECK VALVE SERIES

hiwa
CONTROLS FLOW FREELY

CHECK VALVE SERIES

Fig. C52



Standard Specification

Working Pressure	PN10,PN16,Class 125,10K
Flange Drilling	ISO 7005,BS EN1092, ASME Class 125/Class 150
Body	WCB,SS304,SS316
Disc	WCB,SS304,SS316
Seat	SS304,SS316

Dimensions(mm)

Size	mm	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500	DN600
	inch	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
L		60	67	73	73	86	98	127	146	181	184	191	203	219	222
D1		120.5	139.5	152.5	190.5	216	241.5	298.5	362	432	476	540	578	635	749.5
D2		92	105	127	157	186	216	270	324	381	413	470	533	584	692
D3		51	65	80	102	127	152	203	254	305	350	400	450	500	600
D4		56	73	88	108	132	160	210	266	310	355	405	455	505	605
P		82.5	101.6	114.3	149.2	171.4	193.6	247.6	304.6	381	396.8	454	517.5	558.8	673.1
Z-d		4-19	4-19	4-19	8-19	8-22	8-22	8-22	12-25	12-25	12-29	16-29	16-32	20-32	20-35

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