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BOLLEY CONTROL BOLLEY(TIANJIN) CONTROL SYSTEM MANUFACTURING CO., LTD.

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BOLLEY CONTROL

Butterfly Valve Series Product Manual

BOLLEY(TIANJIN) CONTROL SYSTEM MANUFACTURING CO., LTD.

About BOLLEY

Bolley (Tianjin) Control System Manufacturing Co., Ltd. is located in Yingpanquan Industrial Zone, Xiaozhan Town, Jinnan District, Tianjin. It has an advantageous geographical location and convenient transportation. It is an industrial process control integrating valve product development, design, manufacturing, sales and service valve manufacturer.

The company's leading products include butterfly valves and check valves. Products are designed and manufactured according to domestic and foreign standards such as GB, JB, HG, API, ANSI, DIN, JIS, etc. The diameter ranges from 1" to 96" (DN25-2400mm), the pressure ranges from 150LB (PN6MPa-16MPa), JIS 5K, 10K, and the working temperature ranges from -10℃ to 180℃. The main materials are ductile iron, aluminum bronze, carbon steel, stainless steel, alloy steel, low temperature steel, duplex steel, hastelloy, aluminum alloy and other special steels.

We have won the trust and support of users with stable quality and service. The industries involved include chemical, petrochemical, electric power, environment, biotechnology, gas, dyes, pharmaceuticals, heating, papermaking, construction, food, non-ferrous metals, Steel and other industrial fields.

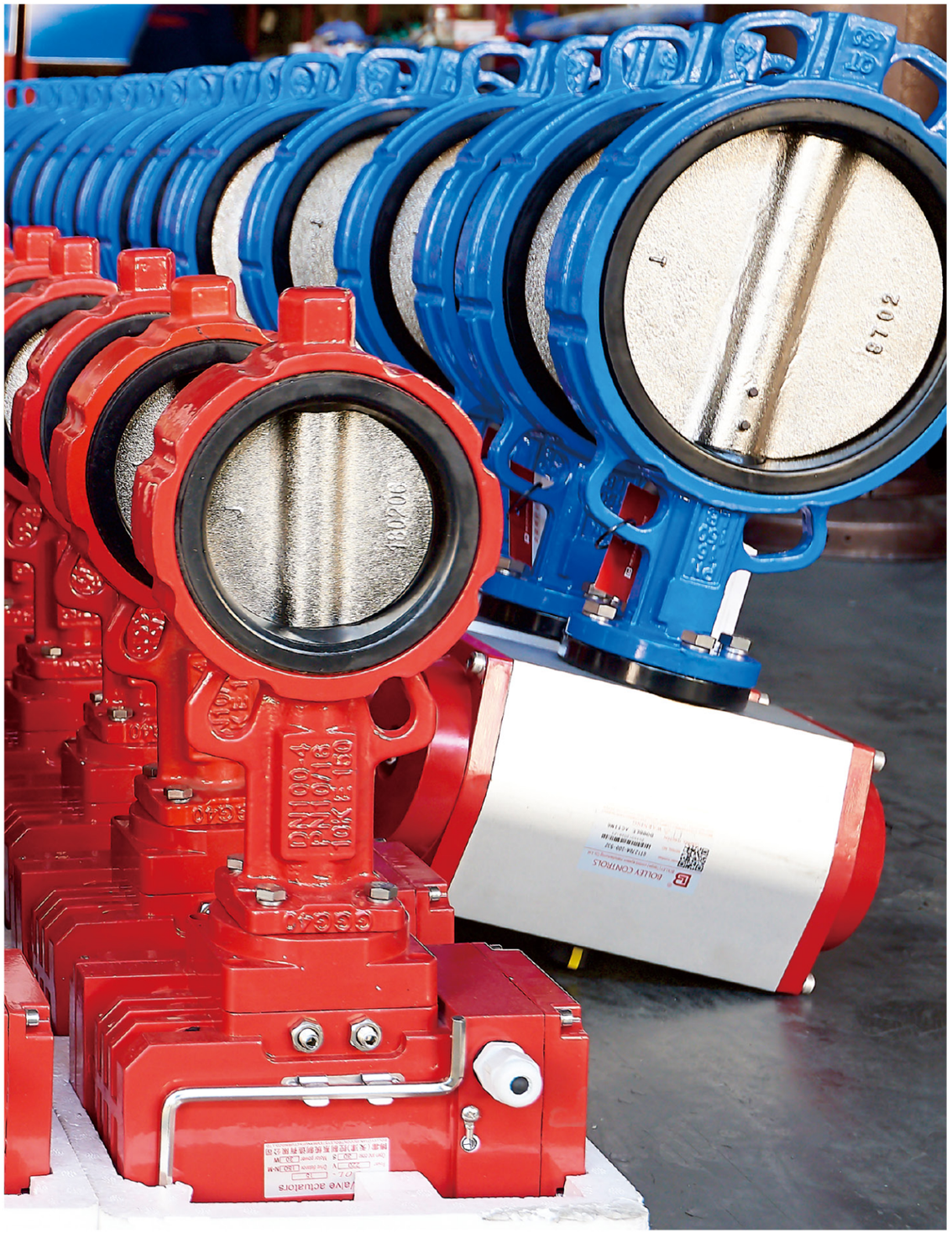
We attach importance to every request made by customers, and tailor them according to the requirements of customers. We are committed to providing customers with better solutions, while also optimizing product performance, so that customers are deeply satisfied and maintaining close cooperative relations with them. We insisted on doing this and achieved success, which is the driving force for our development. Since the birth of Bolley (Tianjin) Control System, we have strived to control every aspect of production. There fore, we in filtrate the quality assurance system into every process to ensure that every product uses standard spare parts. This is the foundation of our development.

In order to ensure product quality and meet customer requirements, we insist on continuously deepening internal management, strive to enhance the quality awareness of all employees, expand the marketing team, and provide more convenient and faster services to domestic and foreign customers.

PRODUCTION WORKSHOP

Bolley(Tianjin) Control System is an industrial process control valve manufacturer integrating valve product development, design, manufacturing, sales and service. It has many years of professional valve design and manufacturing experience and profound technical precipitation, with mechanical processing center and testing equipment.

BOLLEY CONTROL



ENTERPRISE HONOR

BOLLEY CONTROL

Bolley(Tianjin) Control System is an industrial process control valve manufacturer integrating valve product development, design, manufacturing, sales and service. It has many years of professional valve design and manufacturing experience and profound technical precipitation, with mechanical processing center and testing equipment.

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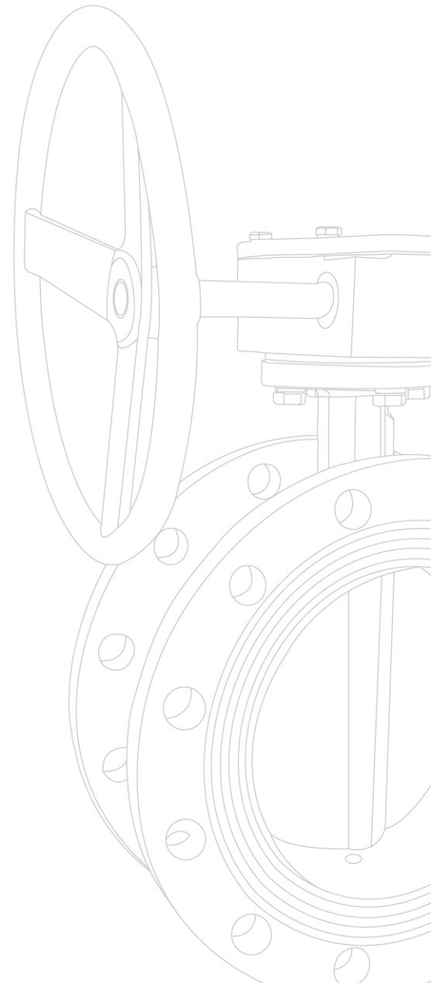

LEVER-OPERATED WAFER CONCENTRIC BUTTERFLY VALVE

Technical Data

Nominal diameter	DN50~DN150(2"~6")
Pressure Rating	Class150LB
Temperature	-10℃ to 100℃
Applicable Medium	Water, oil, gas, etc.
Connection End	Wafer

Execution Standards

Description	Standards
Design and Manufacturing	API 609, JIS 2032
Face to Face	ASME B16.10, ISO 5752
Flange Dimensions	ASME B16.5, ISO7005-2
Test	API 598, JIS B2003

Product Properties

- Certified and approved valves for various applications.
- Zero leakage.
- Not replaceable vulcanised seat.
- Single-piece shaft, complete protection of shaft and body against circulating liquids.
- Bidirectional flow.
- Self-cleaning.
- Light-weight design, easy to install.
- Easy to maintain.
- Can be operated using different drive device (Joystick, Pneumatic, electric or Hydraulic actuators, etc.)
- Low operating torque.
- Aerodynamically designed disc for minimising pressure loss.

Material List

Description	Material
Body	QT450/WCB/CF8/CF8M etc.
Seat	NBR/EPDM/PTFE etc.
Disc	QT450/CF8/CF8M etc.
Stem	SS416/SS420/17-4PH etc.
Bush	QSn-4
O-ring	EPDM
Drive Device	Aluminum Alloy

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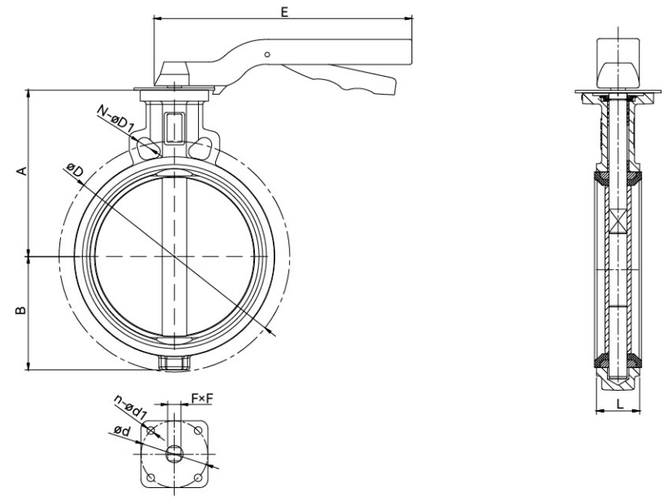

Main Dimensions

Class150LB

DN(mm)	50	65	80	100	125	150
NPS(in)	2	2.5	3	4	5	6
L±2	42	44	45	51.5	54	54
A	140	152	159	180	190	203.5
B	65	73	80	97	110	126
E	200	200	200	250	250	250
FxF	9x9	9x9	9x9	11x11	14x14	14x14
ød	50	50	50	70	70	70
n-ød1	4-ø8	4-ø8	4-ø8	4-ø10	4-ø10	4-ø10
øD	120.6	139.7	152.4	190.5	215.9	241.3
N-øD1	4-ø19	4-ø19	4-ø19	8-ø19	8-ø22.4	8-ø22.4

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

WORM GEAR WAFER CONCENTRIC BUTTERFLY VALVE

Technical Data

Nominal diameter	DN50~DN600(2"~24")
Pressure Rating	Class150LB
Temperature	-10℃ to 100℃
Applicable Medium	Water, oil, gas, etc.
Connection End	Wafer

Execution Standards

Description	Standards
Design and Manufacturing	API 609, JIS 2032
Face to Face	ASME B16.10, ISO 5752
Flange Dimensions	ASME B16.5, ISO7005-2
Test	API 598, JIS B2003

Product Properties

- Certified and approved valves for various applications.
- Zero leakage.
- Not replaceable vulcanised seat.
- Single-piece shaft, complete protection of shaft and body against circulating liquids.
- Bidirectional flow.
- Self-cleaning.
- Light-weight design, easy to install.
- Easy to maintain.
- Can be operated using different drive device (Joystick, Pneumatic, electric or Hydraulic actuators, etc.)
- Low operating torque.
- Aerodynamically designed disc for minimising pressure loss.

Material List

Description	Material
Body	QT450/WCB/CF8/CF8M etc.
Seat	NBR/EPDM/PTFE etc.
Disc	QT450/CF8/CF8M etc.
Stem	SS416/SS420/17-4PH etc.
Bush	QSn-4
O-ring	EPDM
Drive Device	Aluminum Alloy

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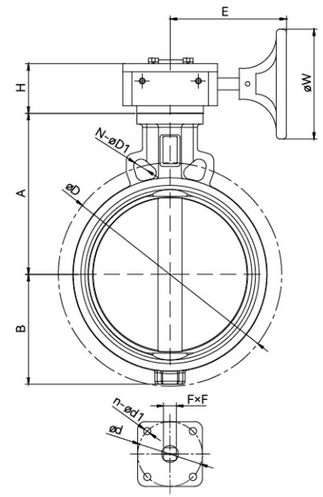

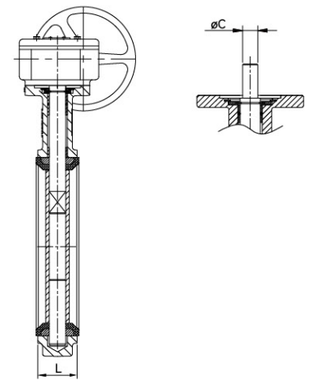

Main Dimensions

Class150LB

DN(mm)	NPS(in)	L±2	A	B	H	E	øW	øC	FxF	ød	n-ød1	øD	N-øD1
50	2	42	140	65	46	124	100	12.6	9X9	50	4-ø8	120.6	4-ø19.1
65	2.5	44	152	73	46	124	100	12.6	9X9	50	4-ø8	139.7	4-ø19.1
80	3	45	159	80	46	124	100	12.6	9X9	50	4-ø8	152.4	4-ø19.1
100	4	51.5	180	97	50	137	150	15.77	11X11	70	4-ø10	190.5	8-ø19.1
125	5	54	190	110	50	137	150	18.92	14X14	70	4-ø10	215.9	8-ø22.4
150	6	54	203.5	126	50	137	150	18.92	14X14	70	4-ø10	241.3	8-ø22.4
200	8	60.2	241	152	68	205	270	22.1	17X17	102	4-ø12	298.4	8-ø22.4
250	10	66	273	185	68	205	270	28.45	22X22	102	4-ø12	361.9	12-ø25.4
300	12	76	311	211	73	190	270	31.6	22X22	102	4-ø12	431.8	12-ø25.4
350	14	76	368	267	73	190	270	31.6	22X22	102	4-ø12	476.3	12-ø28.4
400	16	102	400	325	104	254	300	33.15	27X27	140	4-ø18	539.8	16-ø28.4
										159	4-ø20		
450	18	114	422	345	104	254	300	38	27X27	140	4-ø18	577.9	16-ø31.8
										159	4-ø20		
500	20	127	480	378	104	254	300	41.15	36X36	140	4-ø18	635.0	20-ø31.8
										159	4-ø20		
600	24	151	562	475	124	301	400	50.65	36X36	165	4-ø22	749.3	20-ø35.1
										216	4-ø22		

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

LEVER-OPERATED LUG CONCENTRIC BUTTERFLY VALVE

Technical Data

Nominal diameter	DN50~DN150(2"~6")
Pressure Rating	Class150LB
Temperature	-10℃ to 100℃
Applicable Medium	Water, oil, gas, etc.
Connection End	Lug

Execution Standards

Description	Standards
Design and Manufacturing	API 609, JIS 2032
Face to Face	ASME B16.10, ISO 5752
Flange Dimensions	ASME B16.5, ISO7005-2
Test	API 598, JIS B2003

Product Properties

- Certified and approved valves for various applications.
- Zero leakage.
- Not replaceable vulcanised seat.
- Single-piece shaft, complete protection of shaft and body against circulating liquids.
- Bidirectional flow.
- Self-cleaning.
- Light-weight design, easy to install.
- Easy to maintain.
- Can be operated using different drive device (Joystick, Pneumatic, electric or Hydraulic actuators, etc.)
- Low operating torque.
- Aerodynamically designed disc for minimising pressure loss.

Material List

Description	Material
Body	QT450/WCB/CF8/CF8M etc.
Seat	NBR/EPDM/PTFE etc.
Disc	QT450/CF8/CF8M etc.
Stem	SS416/SS420/17-4PH etc.
Bush	QSn-4
O-ring	EPDM
Drive Device	Aluminum Alloy

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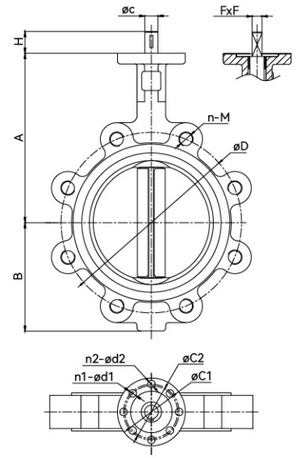

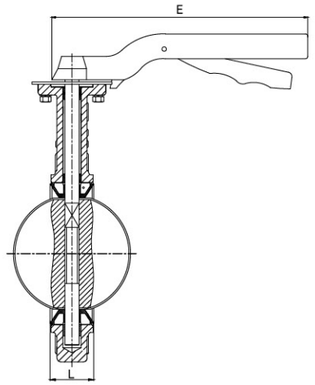

Main Dimensions

Class150LB

DN(mm)		50	65	80	100	125	150
NPS(in)		2	2.5	3	4	5	6
L±2		43	46	46	52	56	56
A		161	175	181	200	213	226
B		80	89	95	114	127	163
H	ISO5211	16	16	16	16	20	20
	90°	28	28	28	28	28	28
E		200	200	200	250	250	250
øC		12.6	12.6	12.6	15.77	18.92	18.92
FxF		9x9	9x9	9x9	11x11	14x14	14x14
øC1		50	50	50	70	70	70
n1-ød1		4-ø8	4-ø8	4-ø8	4-ø10	4-ø10	4-ø10
øC2		57	57	57	70	70	70
n2-ød2		4-ø7.5	4-ø7.5	4-ø7.5	4-ø10.5	4-ø10.5	4-ø10.5
øD		120.6	139.7	152.4	190.5	215.9	241.3
n-M		4-5/8"	4-5/8"	4-5/8"	8-5/8"	8-3/4"	8-3/4"

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

WORM GEAR LUG CONCENTRIC BUTTERFLY VALVE

Technical Data

Nominal diameter	DN200~DN600(8"~24")
Pressure Rating	Class150LB
Temperature	-10℃ to 100℃
Applicable Medium	Water, oil, gas, etc.
Connection End	Lug

Execution Standards

Description	Standards
Design and Manufacturing	API 609, JIS 2032
Face to Face	ASME B16.10, ISO 5752
Flange Dimensions	ASME B16.5, ISO7005-2
Test	API 598, JIS B2003

Product Properties

- Certified and approved valves for various applications.
- Zero leakage.
- Not replaceable vulcanised seat.
- Single-piece shaft, complete protection of shaft and body against circulating liquids.
- Bidirectional flow.
- Self-cleaning.
- Light-weight design, easy to install.
- Easy to maintain.
- Can be operated using different drive device (Joystick, Pneumatic, electric or Hydraulic actuators, etc.)
- Low operating torque.
- Aerodynamically designed disc for minimising pressure loss.

Material List

Description	Material
Body	QT450/WCB/CF8/CF8M etc.
Seat	NBR/EPDM/PTFE etc.
Disc	QT450/CF8/CF8M etc.
Stem	SS416/SS420/17-4PH etc.
Bush	QSn-4
O-ring	EPDM
Drive Device	Aluminum Alloy

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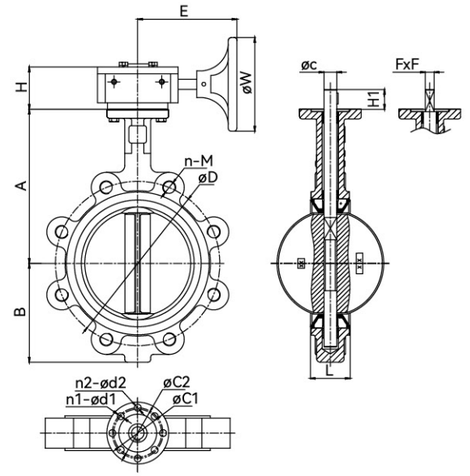

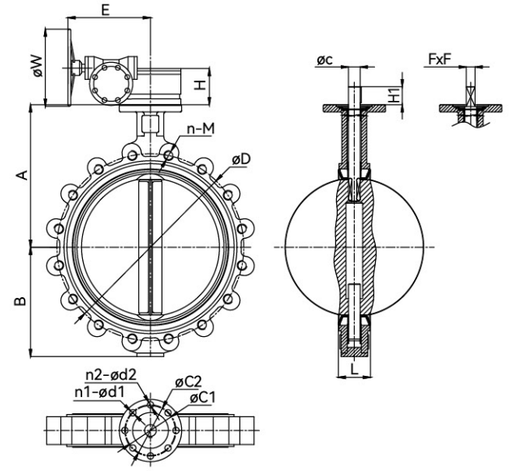

Main Dimensions

Class150LB

DN(mm)		200	250	300	350	400	450	500	600
NPS(in)		8	10	12	14	16	18	20	24
L±2		60	68	78	78	102	114	127	151
A		260	292	337	368	400	422	480	580
B		175	203	242	267	298	318	355	450
H		68	68	73	73	104	104	104	124
E		205	205	190	190	254	254	254	301
H1	ISO5211	25	30	30	—	—	—	—	—
	90°	45	45	45	45	52	52	64	70
øW		270	270	270	270	300	300	300	400
øC		22.1	28.45	31.6	31.6	33. 15	38	41.15	50.65
FxF		17x17	19x19	22x22	22x22	27x27	27x27	36x36	36x36
øC1		102	102	102	102	140	140	140	165
n1-ød1		4-ø12	4-ø12	4-ø12	4-ø12	4-ø18	4-ø18	4-ø18	4-ø22
øC2		89	89	108	108	159	159	159	216
n2-ød2		4-ø14.3	4-ø14.3	4-ø14.3	4-ø14.3	4-ø20	4-ø20	4-ø20	4-ø22
øD		298.4	361.9	431.8	476.2	539.7	577.8	635.0	749.3
n-M		8-3/4"	12-7/8"	12-7/8"	12-1"	16-1"	16-1⅛"	20-1⅛"	20-1¼"

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

LEVER-OPERATED FLANGE CONCENTRIC BUTTERFLY VALVE

Technical Data

Nominal diameter	DN50~DN150(2"~6")
Pressure Rating	Class150LB
Temperature	-10℃ to 100℃
Applicable Medium	Water, oil, gas, etc.
Connection End	Flange

Execution Standards

Description	Standards
Design and Manufacturing	API 609, JIS 2032
Face to Face	ASME B16.10, ISO 5752
Flange Dimensions	ASME B16.5, ISO7005-2
Test	API 598, JIS B2003

Product Properties

- Certified and approved valves for various applications.
- Zero leakage.
- Not replaceable vulcanised seat.
- Single-piece shaft, complete protection of shaft and body against circulating liquids.
- Bidirectional flow.
- Self-cleaning.
- Light-weight design, easy to install.
- Easy to maintain.
- Can be operated using different drive device (Joystick, Pneumatic, electric or Hydraulic actuators, etc.)
- Low operating torque.
- Aerodynamically designed disc for minimising pressure loss.

Material List

Description	Material
Body	QT450/WCB/CF8/CF8M etc.
Seat	NBR/EPDM/PTFE etc.
Disc	QT450/CF8/CF8M etc.
Stem	SS416/SS420/17-4PH etc.
Bush	QSn-4
O-ring	NBR/EPDM
Drive Device	Aluminum Alloy

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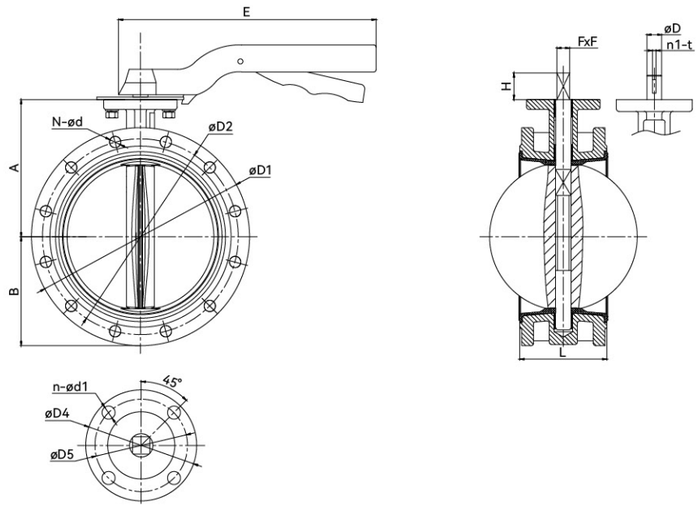

Main Dimensions

Class150LB

DN(mm)		50	65	80	100	125	150
NPS(in)		2	2.5	3	4	5	6
L±3		108	112	114	127	140	140
A		120	145	130	165	180	190
B		80	75	90	115	110	150
E		200	200	200	250	250	250
øD		12.6	12.6	12.6	15.77	18.92	18.92
H	ISO 5211	16	16	16	16	20	20
	90°	28	28	28	28	28	28
FxF		9X9	9X9	9X9	11X11	14X14	14X14
øD1		150	180	190	230	255	280
øD2		120.7	139.7	152.4	190.5	215.9	241.3
N-ød		4-ø19	4-ø19	4-ø19	8-ø19	8-ø22	8-ø22
øD4		65	65	65	90	90	90
øD5		50	50	50	70	70	70
n-ød1		4-ø8	4-ø8	4-ø8	4-ø10	4-ø10	4-ø10
n1-t		1-3	1-3	1-3	1-5	1-5	1-5

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

WORM GEAR FLANGE CONCENTRIC BUTTERFLY VALVE

Technical Data

Nominal diameter	DN50~DN1400(2"~56")
Pressure Rating	Class150LB
Temperature	-10℃ to 100℃
Applicable Medium	Water, oil, gas, etc.
Connection End	Flange

Execution Standards

Description	Standards
Design and Manufacturing	API 609, JIS 2032
Face to Face	ASME B16.10, ISO 5752
Flange Dimensions	ASME B16.5, ISO7005-2
Test	API 598, JIS B2003

Product Properties

- Certified and approved valves for various applications.
- Zero leakage.
- Not replaceable vulcanised seat.
- Single-piece shaft, complete protection of shaft and body against circulating liquids.
- Bidirectional flow.
- Self-cleaning.
- Light-weight design, easy to install.
- Easy to maintain.
- Can be operated using different drive device (Joystick, Pneumatic, electric or Hydraulic actuators, etc.)
- Low operating torque.
- Aerodynamically designed disc for minimising pressure loss.

Material List

Description	Material
Body	QT450/WCB/CF8/CF8M etc.
Seat	NBR/EPDM/PTFE etc.
Disc	QT450/CF8/CF8M etc.
Stem	SS416/SS420/17-4PH etc.
Bush	QSn-4
O-ring	NBR/EPDM
Drive Device	Aluminum Alloy

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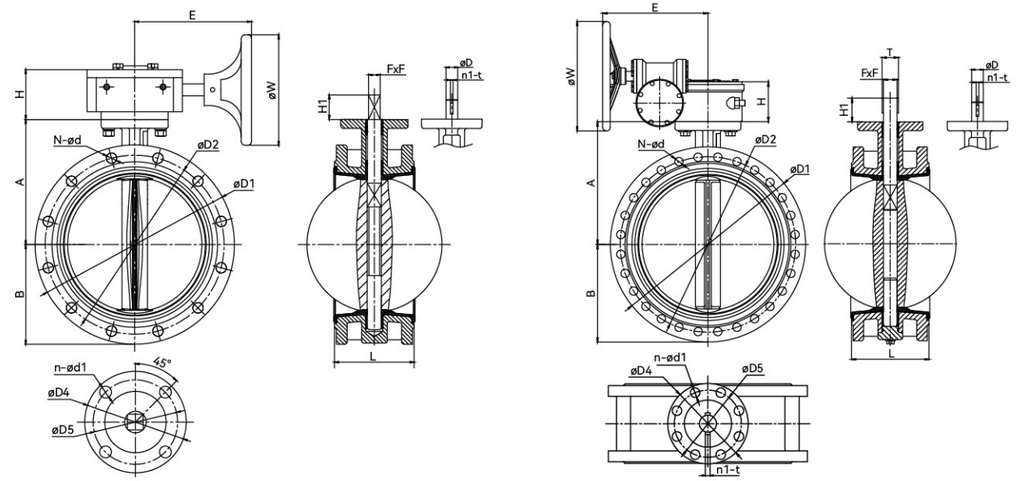


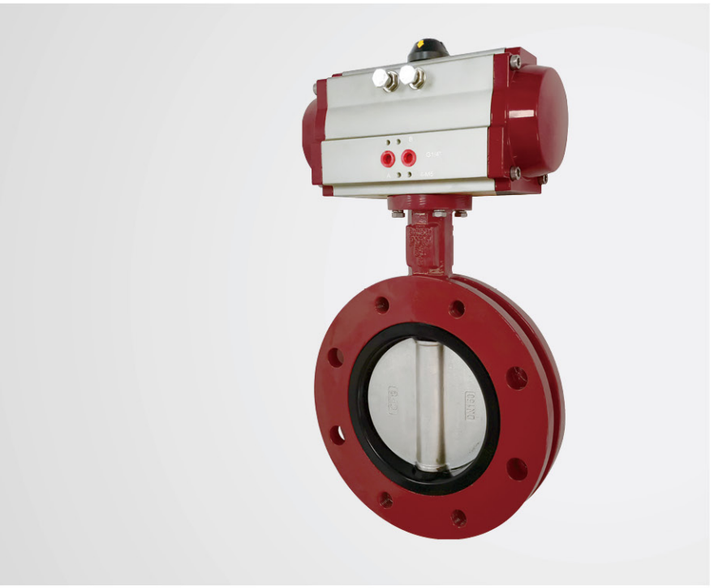
Main Dimensions

Class150LB

DN (mm)	NPS (in)	L±3	A	B	H	E	øW	øD	90°	ISO5211		øD1	øD2	N-ød	øD4	øD5	n-ød1	n1-t	T
									H1	FxF	H1								
50	2	108	120	80	46	124	100	12.6	28	9X9	16	150	120.7	4-ø19	65	50	4-ø8	1-3	—
65	2.5	112	145	75	46	124	100	12.6	28	9X9	16	180	139.7	4-ø19	65	50	4-ø8	1-3	—
80	3	114	130	90	46	124	100	12.6	28	9X9	16	190	152.4	4-ø19	65	50	4-ø8	1-3	—
100	4	127	165	115	50	137	150	15.77	28	11X11	16	230	190.5	8-ø19	90	70	4-ø10	1-5	—
125	5	140	180	110	50	137	150	18.92	28	14X14	20	255	215.9	8-ø22	90	70	4-ø10	1-5	—
150	6	140	190	150	50	137	150	18.92	28	14X14	20	280	241.3	8-ø22	90	70	4-ø10	1-5	—
200	8	152	240	160	68	205	270	22.1	45	17X17	25	345	298.5	8-ø22	125	102	4-ø12	1-5	—
250	10	165	260	195	68	205	270	28.45	45	19X19	30	405	362	12-ø25.4	125	102	4-ø12	1-8	—
300	12	178	300	220	73	190	270	31.6	45	22X22	30	485	431.8	12-ø25.4	125	102	4-ø12	1-8	—
350	14	190	330	245	73	190	270	31.6	45	22X22	—	535	476.3	12-ø28.5	125	102	4-ø12	1-8	—
400	16	216	370	267	104	254	300	33.15	52	27X27	—	595	539.8	16-ø28.5	175	140	4-ø18	1-10	—
450	18	222	400	300	104	254	300	38	52	27X27	—	635	577.9	16-ø32	175	140	4-ø18	1-12	—
500	20	229	500	390	104	254	300	41.15	64	36X36	—	700	635	20-ø32	175	140	4-ø18	1-14	—
600	24	267	522	413	124	301	400	50.65	70	36X36	—	815	749.3	20-ø35	210	165	4-ø22	1-16	—
700	28	292	570	480	139	355	400	63.35	85	—	—	925	863.6	28-ø35	300	254	8-ø18	2-18	71.35
800	32	318	630	515	139	355	400	63.35	85	—	—	1060	977.9	28-ø41	300	254	8-ø18	2-18	71.35
900	36	330	690	560	167	332.5	450	75	130	—	—	1170	1085.8	32-ø41	300	254	8-ø18	2-20	84
1000	40	410	745	635	167	332.5	450	85	130	—	—	1290	1200.2	36-ø41	300	254	8-ø18	2-22	95
1200	48	470	925	775	178	476	450	105	150	—	—	1510	1422.4	44-ø41	350	298	8-ø22	2-28	117
1400	56	530	1022	905	268	600	500	120	200	—	—	1745	1651	48-ø47.6	415	356	8-ø33	2-32	134

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

WORM GEAR U-TYPE SOFT SEAL BUTTERFLY VALVE



Technical Data

Nominal diameter	DN50~DN1400(2"~56")
Pressure Rating	Class150LB
Temperature	-10℃ to 100℃
Applicable Medium	Water, oil, gas, etc.
Connection End	Flange

Execution Standards

Description	Standards
Design and Manufacturing	API 609, JIS 2032
Face to Face	ASME B16.10, ISO 5752
Flange Dimensions	ASME B16.5, ISO7005-2
Test	API 598, JIS B2003

Product Properties

- Can be equipped with a handle, worm gear, electric or pneumatic control device.
- After polishing treatment, with the valve seat precision.
- Reduce the rotational torque, support the stem, and make it separate from the body effectively, reduce the wear of the stem.
- To achieve zero leakage requirements of air tightness test. The opening and closing torque is small, prolong the service life of the seat.
- Stem seal is not easy to deform, thereby avoiding the usual stem leakage.
- High precision, high reliability, easy to control the opening and closing of the valve plate.
- Good overall stability, stable, tensile, anti leakage.

Material List

Description	Material
Body	QT450
Seat	NBR/EPDM/PTFE etc.
Disc	QT450/CF8/CF8M etc.
Stem	SS416/SS420/17-4PH etc.
Bush	QSn-4
O-ring	EPDM
Drive Device	Aluminum Alloy

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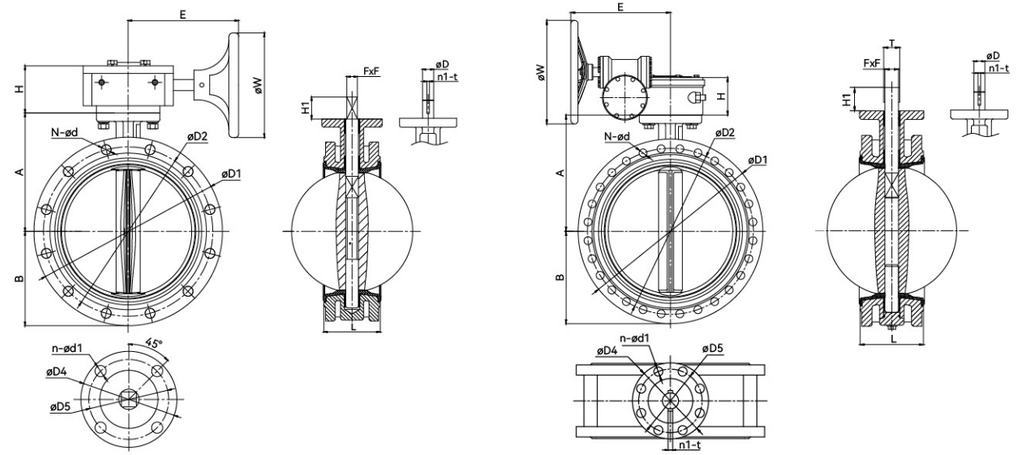

Main Dimensions

Class150LB

DN (mm)	NPS (in)	L±3	A	B	H	E	øW	øD	90°	ISO5211		øD1	øD2	N-ød	øD4	øD5	n-ød1	n1-t	T
									H1	FxF	H1								
50	2	43	120	80	46	124	100	12.6	28	9X9	16	150	120.7	4-ø19	65	50	4-ø8	1-3	—
65	2.5	46	145	75	46	124	100	12.6	28	9X9	16	180	139.7	4-ø19	65	50	4-ø8	1-3	—
80	3	46	130	90	46	124	100	12.6	28	9X9	16	190	152.4	4-ø19	65	50	4-ø8	1-3	—
100	4	52	165	115	50	137	150	15.77	28	11X11	16	230	190.5	8-ø19	90	70	4-ø10	1-5	—
125	5	56	180	110	50	137	150	18.92	28	14X14	20	255	215.9	8-ø22	90	70	4-ø10	1-5	—
150	6	56	190	150	50	137	150	18.92	28	14X14	20	280	241.3	8-ø22	90	70	4-ø10	1-5	—
200	8	60	240	160	68	205	270	22.1	45	17X17	25	345	298.5	8-ø22	125	102	4-ø12	1-5	—
250	10	68	260	195	68	205	270	28.45	45	19X19	30	405	362	12-ø25.4	125	102	4-ø12	1-8	—
300	12	78	300	220	73	190	270	31.6	45	22X22	30	485	431.8	12-ø25.4	125	102	4-ø12	1-8	—
350	14	78	330	245	73	190	270	31.6	45	22X22	—	535	476.3	12-ø28.5	125	102	4-ø12	1-8	—
400	16	102	370	267	104	254	300	33.15	52	27X27	—	595	539.8	16-ø28.5	175	140	4-ø18	1-10	—
450	18	114	400	300	104	254	300	38	52	27X27	—	635	577.9	16-ø32	175	140	4-ø18	1-12	—
500	20	127	500	390	104	254	300	41.15	64	36X36	—	700	635	20-ø32	175	140	4-ø18	1-14	—
600	24	154	522	413	124	301	400	50.65	70	36X36	—	815	749.3	20-ø35	210	165	4-ø22	1-16	—
700	28	165	570	480	139	355	400	63.35	85	—	—	925	863.6	28-ø35	300	254	8-ø18	2-18	71.35
800	32	190	630	515	139	355	400	63.35	85	—	—	1060	977.9	28-ø41	300	254	8-ø18	2-18	71.35
900	36	203	690	560	167	332.5	450	75	130	—	—	1170	1085.8	32-ø41	300	254	8-ø18	2-20	84
1000	40	216	745	635	167	332.5	450	85	130	—	—	1290	1200.2	36-ø41	300	254	8-ø18	2-22	95
1200	48	254	925	775	178	476	450	105	150	—	—	1510	1422.4	44-ø41	350	298	8-ø22	2-28	117
1400	56	279	1022	905	268	600	500	120	200	—	—	1745	1651	48-ø47.6	415	356	8-ø33	2-32	134

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

LINED WITH FLUORINE WAFER BUTTERFLY VALVE

Technical Data

Nominal diameter	DN50~DN300(2"~12")
Pressure Rating	Class150LB
Temperature	-20℃ to 150℃
Applicable Medium	Water, and various corrosive acids, etc.
Connection End	Wafer

Execution Standards

Description	Standards
Design and Manufacturing	API 609, JIS 2032
Face to Face	ASME B16.10, ISO 5752
Flange Dimensions	ASME B16.5, ISO7005-2
Test	API 598, JIS B2003

Product Properties

- Small operating torque, effortless and lightweight.
- Split type body can achieve optimal sealing and torque.
- The seat is designed with a full bore, resulting in low flow resistance, high Cv value, and good fluidity.
- The valve shaft adopts a half shaft structure and has an anti blowout structure.
- Bidirectional sealing, zero leakage, no directional restrictions during installation.
- PTFE seat, suitable for toxic and highly corrosive environments.
- Non toxic, odorless, and antibacterial meet the requirements of green environmental protection.
- Dual design: stainless steel butterfly valve or PTFE coated butterfly valve.

Material List

Description	Material
Body	QT450/CF8
Seat	NBR/EPDM/PTFE etc.
Disc	QT450/CF8/CF8M etc.
Stem	SS416/SS420/17-4PH etc.
Bush	QSn-4
O-ring	EPDM
Drive Device	Aluminum Alloy

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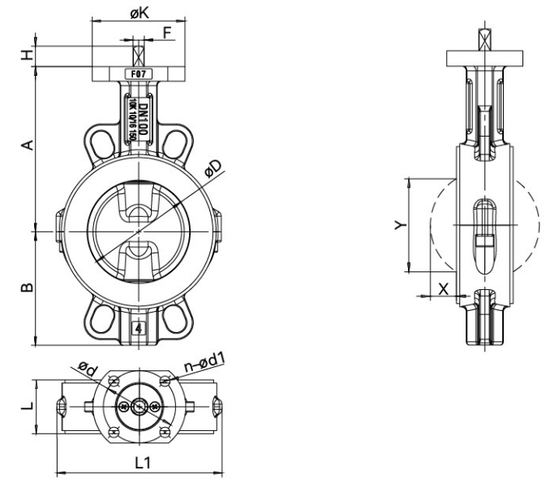

Main Dimensions

Class150LB

DN(mm)	50	65	80	100	125	150	200	250	300
NPS(in)	2	2.5	3	4	5	6	8	10	12
L	43	46	46	52	56	56	60	68	78
L1	100	120	140	160	190	220	277	330	380
A	134	145	150	160	178	197	239	278	315
B	68	78	80	110	130	140	175	215	250
H	20	20	20	20	20	20	20	30	30
øK	65	65	65	90	90	90	125	125	150
øD	50	65	80	100	125	150	200	250	300
ød	50	50	50	70	70	70	102	102	125
n-ød1	4-ø8	4-ø8	4-ø8	4-ø10	4-ø10	4-ø10	4-12	4-ø12	4-ø14
F	9	9	9	11	14	14	17	22	22
X	4	10	16	24	35	47	70	91	111
Y	26	46	64	85	112	139	191	241	290

LINED WITH FLUORINE FLANGE BUTTERFLY VALVE

Technical Data

Nominal diameter	DN50~DN900(2"~36")
Pressure Rating	Class150LB
Temperature	-20℃ to 150℃
Applicable Medium	Water, and various corrosive acids, etc.
Connection End	Flange

Execution Standards

Description	Standards
Design and Manufacturing	API 609, JIS 2032
Face to Face	ASME B16.10, ISO 5752
Flange Dimensions	ASME B16.5, ISO7005-2
Test	API 598, JIS B2003

Product Properties

- Small operating torque, effortless and lightweight.
- Split type body can achieve optimal sealing and torque.
- The seat is designed with a full bore, resulting in low flow resistance, high Cv value, and good fluidity.
- The valve shaft adopts a half shaft structure and has an anti blowout structure.
- Bidirectional sealing, zero leakage, no directional restrictions during installation.
- PTFE seat, suitable for toxic and highly corrosive environments.
- Non toxic, odorless, and antibacterial meet the requirements of green environmental protection.
- Dual design: stainless steel butterfly valve or PTFE coated butterfly valve.

Material List

Description	Material
Body	QT450/CF8
Seat	NBR/EPDM/PTFE etc.
Disc	QT450/CF8/CF8M etc.
Stem	SS416/SS420/17-4PH etc.
Bush	QSn-4
O-ring	EPDM
Drive Device	Aluminum Alloy

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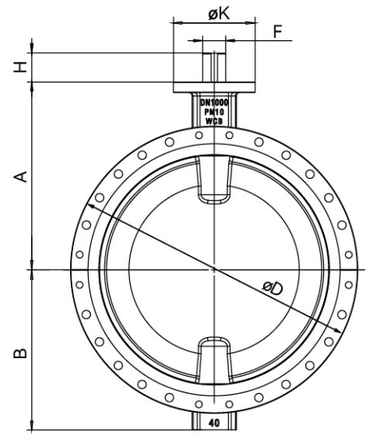

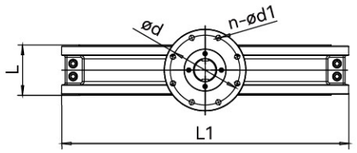

Main Dimensions

Class150LB

DN(mm)	NPS(in)	L	L1	A	B	H	F	øK	øD	ød	n-ød1
50	2	108	—	134	68	20	9	65	165	50	4-ø8
65	2.5	112	—	145	78	20	9	65	185	50	4-ø8
80	3	114	—	150	80	20	9	65	200	50	4-ø8
100	4	127	—	160	110	20	11	90	220	70	4-ø10
125	5	140	—	178	130	20	14	90	250	70	4-ø10
150	6	140	—	197	140	20	14	90	285	70	4-ø10
200	8	152	—	239	175	20	17	125	340	102	4-ø12
250	10	165	—	278	215	30	22	125	395	102	4-ø12
300	12	178	—	315	250	30	22	150	445	125	4-ø14
350	14	190	—	350	255	35	22	150	505	125	4-ø14
400	16	216	—	380	285	35	27	175	565	140	4-ø18
450	18	222	630	425	320	65	48	175	615	140	4-ø18
500	20	229	700	450	360	65	48	210	670	165	4-ø22
600	24	267	820	555	415	80	60	300	780	254	8-ø18
700	28	292	930	605	480	80	72	300	895	254	8-ø18
800	32	318	1060	660	550	110	80	350	1015	298	8-ø22
900	36	330	1160	710	600	130	98	350	1115	298	8-ø22

WAFER TYPE CHECK VALVE

Technical Data

Nominal diameter	DN50~DN600(2"~24")
Pressure Rating	Class150LB
Temperature	-15℃ to 80℃
Applicable Medium	Water, and various corrosive acids, etc.
Connection End	Wafer

Execution Standards

Description	Standards
Design and Manufacturing	API 594, API 6D
Face to Face	ASME B16.10, ISO 5752
Flange Dimensions	ANSI B16.5, ISO 7005-2
Test	API 598, ISO 5208

Product Properties

- Small volume, light weight, compact structure, easy maintenance.
- Resilient seat with excellent performance and air tight shutoff.
- The valve plate adopts dual type, in the spring under the elastic moment of quick closing on its down.
- Double spring evenly distributed load force, the reaction is more rapid.
- Because of the quick closing effect, can prevent the backflow medium, eliminate water hammer effect is strong.
- The body structure of small length, good rigidity, safe and reliable.
- Completely sealed, water pressure test leak is zero.
- Easy installation, can be used for horizontal two vertical direction installation.

Material List

Description	Material
Body	GG25/GGG40
Seat	NBR/EPDM/PTFE etc.
Disc	GGG40/CF8/CF8M etc.
Disc Bearing	TEFOL
Plug	STEEL
Stop Pin	SS416
Spring	SS304

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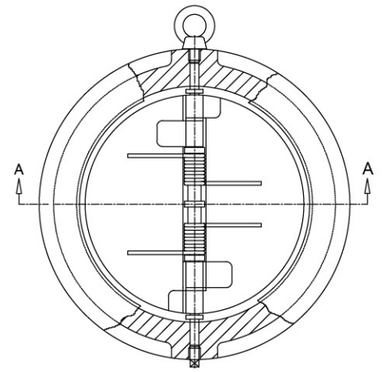

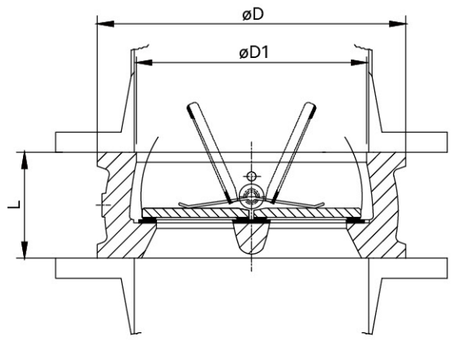

Main Dimensions

Class150LB

DN(mm)	NPS(in)	L	øD	øD1
50	2	60	102	65
65	2.5	67	121	78
80	3	73	134	94
100	4	73	172	117
125	5	83	194	145
150	6	98	220	171
200	8	127	277	224
250	10	146	337	276
300	12	181	407	337
350	14	184	449	375
400	16	191	512	416
450	18	203	546	467
500	20	219	604	514
600	24	222	715	616