AXM®

EXPERT IN PROCESS VALVE

Butterfly Valve

Contents

Butterfly Valve

◆ How to Order

B71 | DP | — | 65 | Q | P | S | N | 16 | — | AT50

Series: B71

Drive mode:

DP	Butterfly Valve
DQ	Pneumatic Butterfly valve
DH	Manual Butterfly valve
DM	Manual turbine butterfly valve
DE	Electric Butterfly valve

Port Code:

040	1-1/2"	250	10"
050	2"	300	12"
065	2-1/2"	350	14"
080	3"	400	16"
100	4"	450	18"
125	5"	500	20"
150	6"	550	22"
200	8"	600	24"

Body material:

P	304/CF8
PL	304L/CF3
C	WCB
R	316/CF8M
RL	316L/CF3M
Q	Ductile iron

Disc Material:

P	304/CF8
PL	304L/CF3
L	2507
R	316/CF8M
RL	316L/CF3M
Q	Ductile iron

Stem Material:

P	304/CF8
Q	Q235
S	Stainless Iron 410
R	316/CF8M
L	2507
M	1.4529

Seat sealing material:

F	PTFE (-20°C~180°C)
R	RTFE (-20°C~200°C)
T	Ceramic (-40°C~350°C)
N	NBR (-20°C~90°C)
D	EPDM (-20°C~120°C)
K	PEEK (-29°C~285°C)
W	Metal (500°C)

Pressure:

16	PN1.6MPa
25	PN2.5MPa
40	PN4.0MPa
64	PN6.4MPa
150	ANSI 150LB
300	ANSI 300LB
600	ANSI 600LB
900	ANSI 900LB
10	JIS 10K
20	JIS 20K
1000	PSI 7.0MPa
2000	PSI 14.0MPa

Actuator: see diagram as below

◆ Wafer Butterfly Valve actuator selection

Name	Code	Size		Square Size	height of the central Stem	Flange	Actuator slection			Electric Automatic Reset
		inch	mm				Pneumatic Double Acting	Pneumatic Single Acting	Electric Modulating on/off type	
Wafer butterfly valve (1-1/2"- 24")	B71	1-1/2"	DN40	9	32	F05	AT52D	AT63S	A-030(C)	E-075(C)
		2"	DN50	9	32	F05	AT52D	AT63S	A-030(C)	E-075(C)
		2-1/2"	DN65	9	32	F05	AT52D	AT63S	A-030(C)	E-075(C)
		3"	DN80	9	32	F05	AT63D	AT75S	A-030(C)	E-075(C)
		4"	DN100	11	32	F07	AT75D	AT83S	A-030(C)	E-075(C)
		5"	DN125	14	32	F07	AT92D	AT105S	A-075(C)	E-075(C)
		6"	DN150	14	32	F07	AT92D	AT105S	A-075(C)	E-150(C)
		8"	DN200	17	45	F10	AT105D	AT125S	A-075(C)	E-150(C)
		10"	DN250	22	45	F10	AT125D	AT140S	A-150(C)	E-300(C)
		12"	DN300	22	45	F10	AT140D	AT160S	A-300(C)	E-1000(C)
		14"	DN350	22	45	F10	AT160D	AT190S	A-400(C)	E-1000(C)
		16"	DN400	24	51.2/72	F14	AT190D	AT210S	PMK-060SS	E-1000(C)
		18"	DN450	27	51.2/72	F14	AT190D	AT210S	PMK-060SS	E-1000(C)
		20"	DN500	32	64.2/82	F14	AT190D	AT210S	PMK-100	E-1000(C)
		24"	DN600	36	70.2/82	F16	AT240D	AT300S	A-1500SWT	E-1000(C)

Remarks: 1. The air source pressure for the pneumatic control series is set to 4 kg to activate, with an option for electrical control using 220V or 380V;
2. The matched actuators have already accounted for a 1.3 safety factor of the valve;
3. The valve uses PN16 level PTFE sealing for operating pressure. If the pipeline pressure is increased or high-temperature sealing is required, the torque estimate should be increased by approximately 1.2 times when selecting a compatible actuator;
4. For the overall dimensions of the automated valves, please refer to the component dimension calculations.

• CONCENTRIC BUTTERFLY VALVE

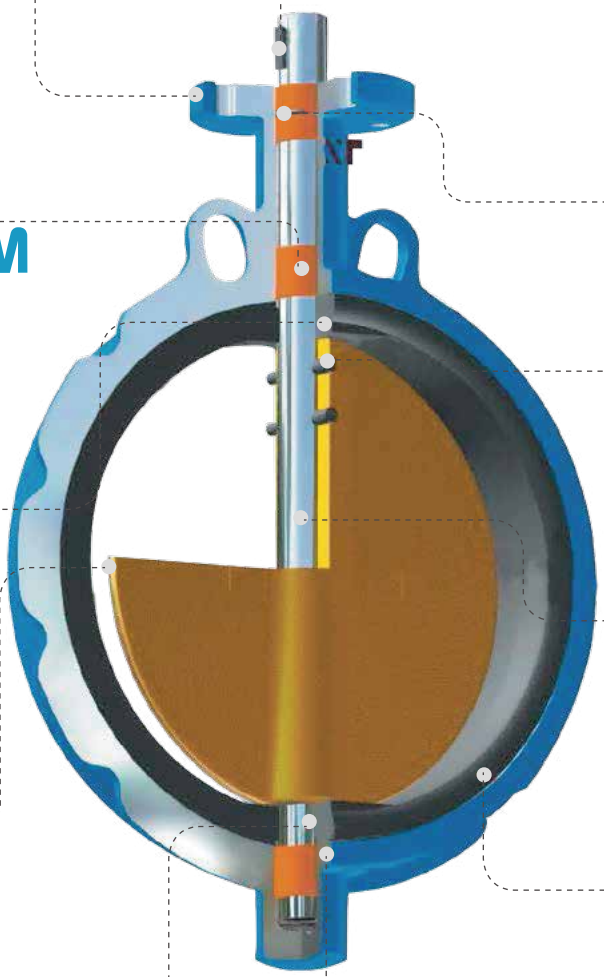
- Water works and water resource project
- Environment protection
- Public facilities
- Power and public utilities
- Building industry
- Petroleum, chemical
- Steel, metallurgy
- Paper making industry
- Foods, Beverage

Butterfly valve as used as shutting-off or throtting unit for petroleum processing, chemicals, food, medicine, textile, paper making, hydroelecuicity engineering as well as light industry, etc. it can be installed in any selected position.

BUTTERFLY VALVES

AXM
EXPERT IN PROCESS VALVE

Through precise manufacturing, the main parts of this butterfly valve ensure valve's operation in long stable and reliable condition



Driving device flange
Can be used in handles, gear operators, electric or pneumatic actuators.

Bushing
Reduce driving torque, support stem, and effectively separate it with valve body, reduce wear of stem.

Surface of disc axle hole
Through treatment of polishing, precisely fit with seat.

High precision disc external profiles
Reach the requirement of bubble-tight, small start and stop torque, longer usage life of seat.

Stem seal
Stem is not easy to be distorted, eliminating possible leakage in stem.

Strong precision key
Give possible attachment for manual lever or actuator.

Dust-protect seal

Precision taper pin
Ensure positive vibration proof, stem to disc connection, Easily field replaceable.

Integral stem design
Ensures dependable and positive disc control

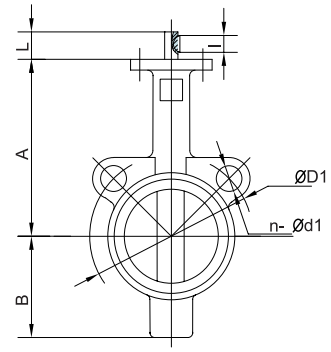
Side seal
With no need of flange gasket.

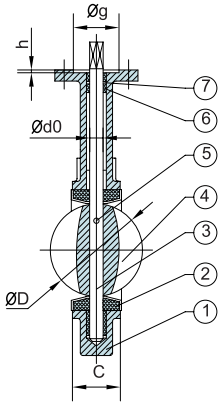
Backed seat
Non-collapsible, stretch-resistant and leakage proof. Easily filed replaceable.

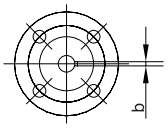
- Type:
  Wafer
- Face to Face:
  API609,BS5155,DIN3202, ISO5752
- Flange:
  DIN,BS,UNI,ISO,ANSI, AS,JIS
- Mounting Flange:
  ISO5211

- Working Pressure:
  PN16(200PSI)
- Appliaction:
  Water works, Public facilities, Building Industry, Petrolem, Chemical, Steel, Metallurgy, Paper Making Industry, Foods, Beverage

Wafer Butterfly Valve (Two Holes)







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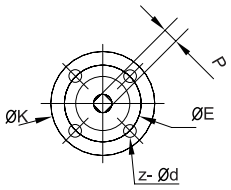
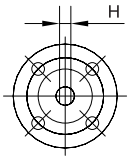


DIAGONAL SQUARE HEAD



DOUBLE D HEAD

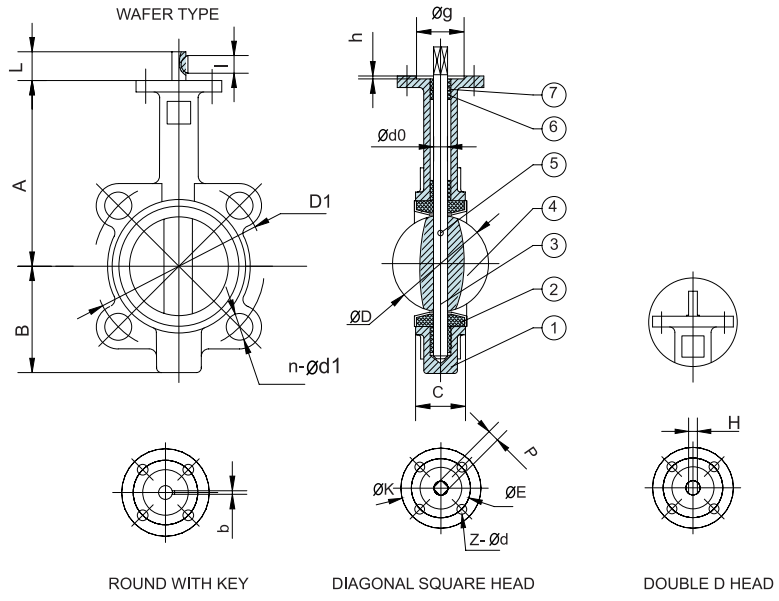
STANDARD MATERIALS OF MAIN PARTS

NO.	PART	MATERIAL
1	Body	Cast Iron ,Ductile Iron ,Carbon Steel ,Stainless Steel
2	Seat	NBR,EPDM,Viton,Neoprene ,Hypalon,Silicon PTFE
3	Shaft	Stainless Steel416,316,304
4	Disc	Ductile Iron +Ni,CF8,CF8M,Bronze
5	Pin	Stainless Steel
6	Bushing	PTFE,Bronze
7	O Ring	NBR,EPDM

DIMENSIONS

SIZE		A	B	C	D	L	d0	P	H	key	UPPER FLANGE					ANSI 150		DIN PN10/16	
in	DN									bxl	K	E	z-d	g	h	D1	n-ød1	D1	n-ød1
2	50	140	80	42	52.6	32	12.6	9	10	3X16	77	50	4-7	35	3	120.5	4-19	125	4-18
2-1/2	65	152	89	44.7	64.5	32	12.6	9	10	3X16	77	50	4-7	35	3	139.5	4-19	145	4-18
3	80	159	95	45.2	78.8	32	12.6	9	10	3X16	77	50	4-7	35	3	152.5	4-19	160	4/8-18
4	100	178	114	52.1	104	32	15.77	11	12	5X19	90	70	4-9	55	3	190.5	8-19	180	8-18
5	125	190	127	54.4	123.3	32	18.92	14	14	5X19	90	70	4-9	55	3	216	8-22	210	8-18
6	150	203	139	55.8	155.6	32	18.92	14	14	5X19	90	70	4-9	55	3	241.5	8-22	240	8-23
8	200	238	175	60.6	202.5	45	22.1	17	17	5X19	125	102	4-12	70	3.5	298.5	8-22	295	8/12-23
10	250	268	203	65.6	250.5	45	28.45	22	22	8X28	125	102	4-12	70	3.5	362	12-25	350/355	12-23/27
12	300	306	242	76.9	301.6	45	31.6	22	24	8X28	125	102	4-12	70	3.5	432	12-25	400/410	12-23/27

Wafer Butterfly Valve



- Type:
  Wafer
- Face to Face:
  API609,BS5155,DIN3202, ISO5752
- Flange:
  DIN,BS,UNI,ISO,ANSI, AS,JIS
- Mounting Flange:
  ISO5211

- Working Pressure:
  PN16(200PSI)
- Application:
  Water works, Public facilities, Building Industry, Petrolem, Chemical, Steel, Metallurgy, Paper Making Industry, Foods, Beverage

STANDARD MATERIALS OF MAIN PARTS

NO.	PART	MATERIAL
1	Body	Cast Iron ,Ductile Iron ,Carbon Steel ,Stainless Steel
2	Seat	NBR,EPDM,Viton,Neoprene ,Hypalon,Silicon PTFE
3	Shaft	Stainless Steel416,316,304
4	Disc	Ductile Iron +Ni,CF8,CF8M,Bronze
5	Pin	Stainless Steel
6	Bushing	PTFE,Bronze
7	O Ring	NBR,EPDM

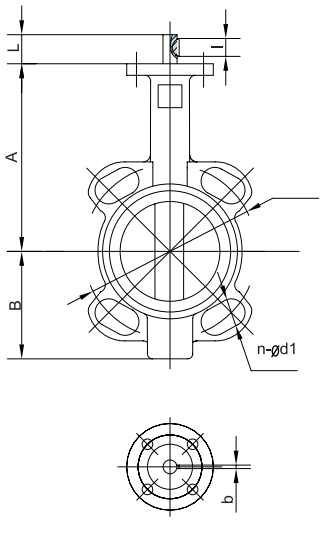
DIMENSIONS

SIZE		A	B	C	D	L	d0	P	H	key	UPPER FLANGE					ANSI 150		DIN PN10/16	
in	DN									bxl	K	E	z-d	g	h	D1	n-ød1	D1	n-ød1
1-1/2	40	145	75	33	42.4	32	12.6	–	–	3X16	77	50	4-7	35	3	98.5	4-16	110	4-18
2	50	161	80	42	52.6	32	12.6	9	10	3X16	77	50	4-7	35	3	120.5	4-19	125	4-18
2-1/2	65	175	89	44.7	64.5	32	12.6	9	10	3X16	77	50	4-7	35	3	139.5	4-19	145	4-18
3	80	181	95	45.2	78.8	32	12.6	9	10	3X16	77	50	4-7	35	3	152.5	4-19	160	4/8-18
4	100	200	114	52.1	104	32	15.77	11	12	5X19	90	70	4-9	55	3	190.5	8-19	180	8-18
5	125	213	127	54.4	123.3	32	18.92	14	14	5X19	90	70	4-9	55	3	216	8-22	210	8-18
6	150	226	139	55.8	155.6	32	18.92	14	14	5X19	90	70	4-9	55	3	241.5	8-22	240	8-23
8	200	260	175	60.6	202.5	45	22.1	17	17	5X19	125	102	4-12	70	3.5	298.5	8-22	295	8/12-23
10	250	292	203	65.6	250.5	45	28.45	22	22	8X28	125	102	4-12	70	3.5	362	12-25	350/355	12-23/-27
12	300	337	242	76.9	301.6	45	31.6	22	24	8X28	140	102	4-12	70	3.5	432	12-25	400/410	12-23/27
14	350	368	267	76.5	333.3	45	31.6	22	24	8X28	140	102	4-12	70	3.5	476	12-29	460/470	16-23/27
16	400	400	309	86.5	389.6	51.2/72	33.15/38	24	24	10X50	175	140	4-18	100	4	540	16-29	515/525	16-27/30
18	450	422	328	1056	440.5	51.2/72	38/42.86	27	27	10X50	175	140	4-18	100	4	578	16-32	565/585	20-27/30
20	500	480	361	1318	491.6	64.2/82	41.15/45.72	32	32	10X50	175	140	4-18	100	4	635	20-32	620/650	20-27/33
24	600	562	459	152	592.5	70.2/82	50.65/53.98	36	36	2-16X60	210	165	4-23	130	5	749.5	20-35	725/770	20-30/36
28	700	624	520	163	695	66/82	55/63.35	–	–	2-18X63	300	254	8-18	200	5.5	863.5	28-35	840	24-30/36
30	750	660	539	165	744.3	66/82	55/63.35	–	–	2-18X63	300	254	8-18	200	5.5	914.5	28-35	–	–
32	800	672	591	188	794.7	66/82	55/63.35	–	–	2-18X63	300	254	8-18	200	5.5	978	28-41	950	24-33/39
36	900	720	656	203	864.7	118	75	–	–	2-20X100	300	254	8-18	200	5.5	1086	32-41	1050	28-33/39
40	1000	800	721	216	965	142	85	–	–	2-20X100	300	254	8-18	200	5.5	1200	36-41	1160/1170	28-36/42

- Type:
  Wafer
- Face to Face:
  API609,BS5155,DIN3202, ISO5752
- Flange:
  AS2129 Table E/D
- Mounting Flange:
  ISO5211

- Working Pressure:
  PN16(200PSI)
- Application:
  Water works, Public facilities, Building Industry, Petrolem, Chemical, Steel, Metallurgy, Paper Making Industry, Foods, Beverage

Wafer Butterfly Valve (AS2129)



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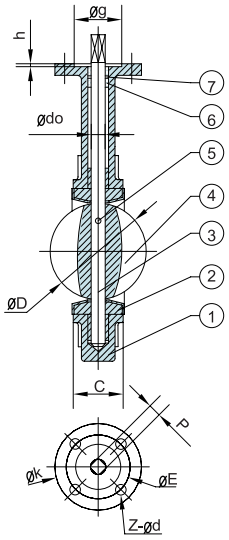
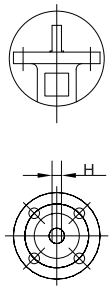


DIAGONAL SQUARE HEAD



DOUBLE D HEAD

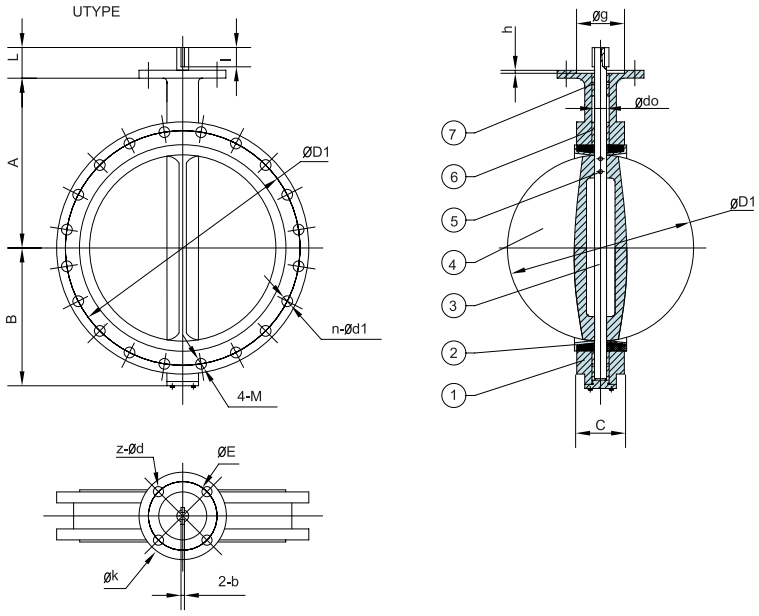
STANDARD MATERIALS OF MAIN PARTS

NO.	PART	MATERIAL
1	Body	Cast Iron ,Ductile Iron ,Carbon Steel ,Stainless Steel
2	Seat	NBR,EPDM,Viton,Neoprene ,Hypalon,Silicon PTFE
3	Shaft	Stainless Steel416,316,304
4	Disc	Ductile Iron +Ni,CF8,CF8M,Bronze
5	Pin	Stainless Steel
6	Bushing	PTFE,Bronze

DIMENSIONS

SIZE		A	B	C	D	L	d0	P	H	key	UPPER FLANGE					ANSI 150		AS2129-D		AS2129-E	
in	DN									bxl	K	E	z-Ød	g	h	D1	n-Ød1	D1	n-Ød1	D1	n-Ød1
2	50	130.5	66.5	42	52.6	32	12.6	9	10	3x16	77	50	4-7	35	3	120.5	4-19	114	4-18	114	4-18
2-1/2	65	140	71	44.7	64.5	32	12.6	9	10	3x16	77	50	4-7	35	3	139.5	4-19	127	4-18	127	4-18
3	80	150	83	45.2	78.8	32	12.6	9	10	3x16	77	50	4-7	35	3	152.5	4-19	146	4-18	146	4-18
4	100	163	95	52.1	104	32	15.77	11	12	5x19	90	70	4-9	55	3	190.5	8-19	178	4-18	178	8-18
5	125	178	110	54.4	123.3	32	18.92	14	14	5x19	90	70	4-9	55	3	216	8-22	210	8-18	210	8-18
6	150	191	124	55.8	155.6	32	18.92	14	14	5x19	90	70	4-9	55	3	241.5	8-22	235	8-18	235	8-22
8	200	239	163	60.6	202.5	45	22.1	17	17	5x19	125	102	4-12	70	3.5	298.5	8-22	292	8-18	292	8-22
10	250	285	227	65.6	250.5	45	28.45	22	22	8x28	125	102	4-12	70	3.5	362	12-25	356	8-22	356	12-22
12	300	315	252	76.9	301.6	45	31.6	22	24	8x28	125	102	4-12	70	3.5	432	12-25	406	12-22	406	12-26

U–Type Butterfly Valve



- Type:
  U-type
- Face to Face:
  BS5155,DIN3202, ISO5752
- Flange:
  DIN,BS,UNI,ISO,ANSI, AS,JIS
- Mounting Flange:
  ISO5211

- Working Pressure:
  PN16(200PSI)
- Application:
  Water works, Public facilities, Building Industry, Petrolem, Chemical, Steel, Metallurgy, Paper Making Industry, Foods, Beverage

STANDARD MATERIALS OF MAIN PARTS

NO.	PART	MATERIAL
1	Body	Cast Iron ,Ductile Iron ,Carbon Steel ,Stainless Steel
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3	Shaft	Stainless Steel 416,316,304
4	Disc	Ductile Iron +Ni,CF8,CF8M,Bronze
5	Pin	Stainless Steel
6	Bushing	PTFE,Bronze

DIMENSIONS

SIZE		A	B	C	D	L	DO	KEY 2-bXl	UPPER FLANGE					ANSI150			DIN PN10/PN16		
in	DN								K	E	z-Ød	g	h	D1	n-Ød1	4-M	D1	n-Ød1	4-M
16	400	400	309	86.5	389.6	51.2/72	33.15/38	1-10X50	175	140	4-18	100	4	540	16-29	–	515/525	16-27/30	–
18	450	422	328	105.6	440.5	51.2/72	38/42.86	1-10X50	175	140	4-18	100	4	578	16-32	–	565/585	20-27/30	–
20	500	480	361	131.8	491.6	53/78	41.15/45.72	1-10X50	175	140	4-18	100	4	635	20-32	–	620/650	20-27/33	–
24	600	562	459	152	592.5	70.2/82	50.65/53.98	2-16X60	210	165	4-23	130	5	749.5	20-35	–	725/770	20-30/36	–
28	700	624	520	163	695	66/82	55/63.35	2-18X63	300	254	8-18	200	5.5	863.5	24-35	4-1¼"	840	20-30/36	4-M27/M33
30	750	660	539	165	744.3	66/82	55/63.35	2-18X63	300	254	8-18	200	5.5	914.5	24-35	4-1¼"	–	–	–
32	800	672	591	188	794.7	66/82	55/63.35	2-18X63	300	254	8-18	200	5.5	978	24-41	4-1½"	950	20-33/39	4-M30/M36
36	900	720	656	203	864.7	118	75	2-20X100	300	254	8-18	200	5.5	1086	28-41	4-1½"	1050	24-33/39	4-M30/M36
40	1000	800	721	216	965	142	85	2-22X140	300	254	8-18	200	5.5	1200	32-41	4-1½"	1160/1170	24-36/42	4-M33/M39
42	1050	858	757	251	1030.5	150	95	2-25X140	300	254	8-18	200	5.5	1257.5	32-41	4-1½"	–	–	–
48	1200	941	844	276	1161.2	150	105	2-28X140	350	298	8-23	230	5.5	1422.5	40-41	4-1½"	1380/1390	28-39/48	4-M36/M45

• CONCENTRIC BUTTERFLY VALVE

- Water works and water resource project
- Environment protection
- Public facilities
- Power and public utilities
- Building industry
- Petroleum, chemical
- Steel, metallurgy
- Paper making industry
- Foods, Beverage

Butterfly valve as used as shutting-off or throtting unit for petroleum processing, chemicals, food, medicine, textile, paper making, hydroelecuicity engineering as well as light industry, etc. it can be installed in any selected position.

BUTTERFLY VALVES

AXM
EXPERT IN PROCESS VALVE

Type:	Wafer,Lugged
Face to Face:	AP1609,BS5155,DIN3202, ISO 5752
Flange:	DIN,BS,UNI,ISO,ANSI, AS,JIS
Mounting Flange:	ISO5211

Working Pressure:	PN16(200PSI)
Appliaction:	Water works, Public facilities, Building Industry, Petrolem, Chemical, Steel, Metallurgy, Paper Making Industry, Foods, Beverage

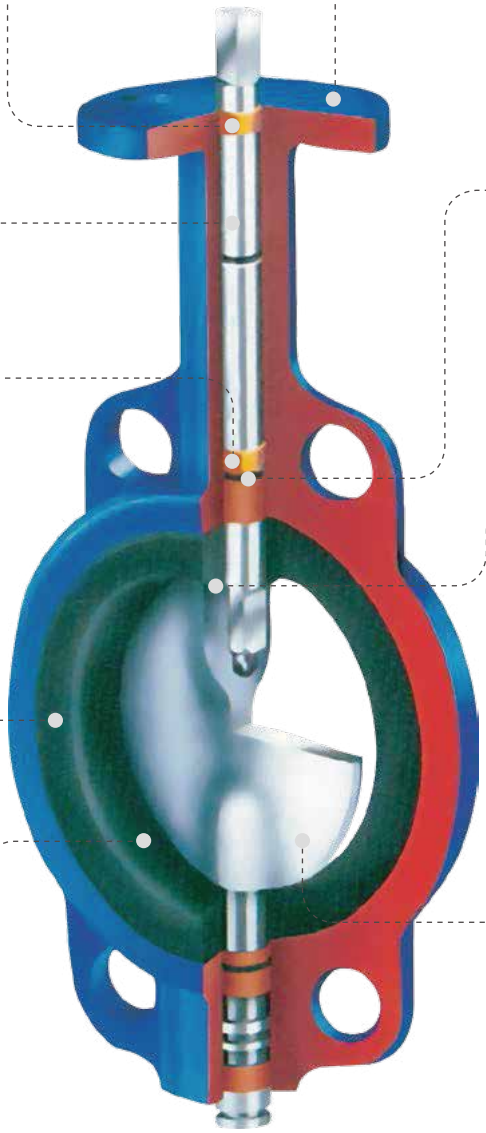
Weather Seal
Top bushing keeps dust and moisture from entering the upper shaft joural.

Shaft
Two stub shaft design allows the disc to float within the flow-way inc easing cycle life.

Bushing(6)
Shaft bushing reduce torque and isolate the shaft from the valve body preventing seizure of the shaft due to corrosion in the shaft journal.

Seat Face
Seat to flange seal eliminates the need for flange gaskets.

Seat
Phenolic-backed seat is non-collapsoble,stretch resistant,blow out proof,and field replaceable



Mouting Flange
ISO 5211 mounting flange accommodates direct mounting of all types of actuators, including:handles,gear operators,electric and pneumatic.

O-Ring(2)
Shaft seal provides further assurance against stem leakage.

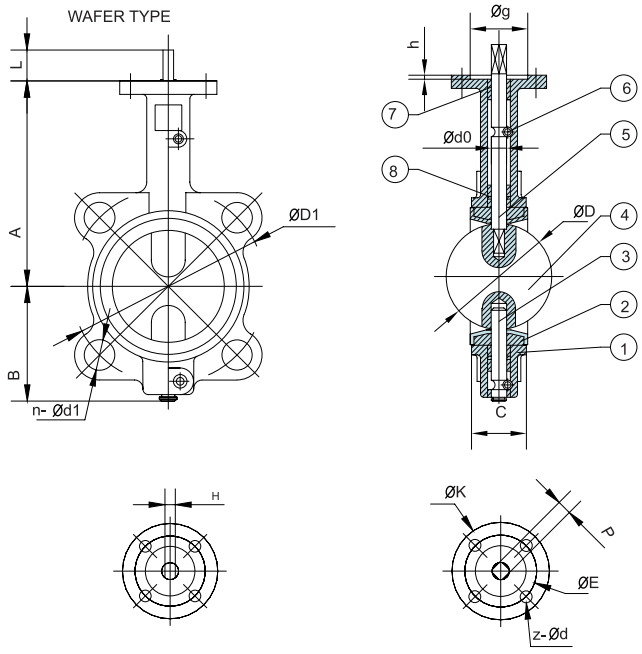
Hub Seal
Smooth finished disc flats mate with seat flats to give a highly efficient prevents leakage into the shaft area.

Disc
Precision profile provides bubble-tight shut-off,assures minimum torque and longer seat life. Maximum flow is achieved.

- Type:
  Wafer
- Face to Face:
  API609,BS5155,DIN3202, ISO5752
- Flange:
  DIN,BS,UNI,ISO,ANSI, AS,JIS
- Mounting Flange:
  ISO5211

- Working Pressure:
  PN16(200PSI)
- Application:
  Water works, Public facilities, Building Industry, Petrolem, Chemical, Steel, Metallurgy, Paper Making Industry, Foods, Beverage

Wafer Butterfly Valve (Half Shaft Without Pin)



DOUBLE D HEAD

DIAGONAL SQUARE HEAD

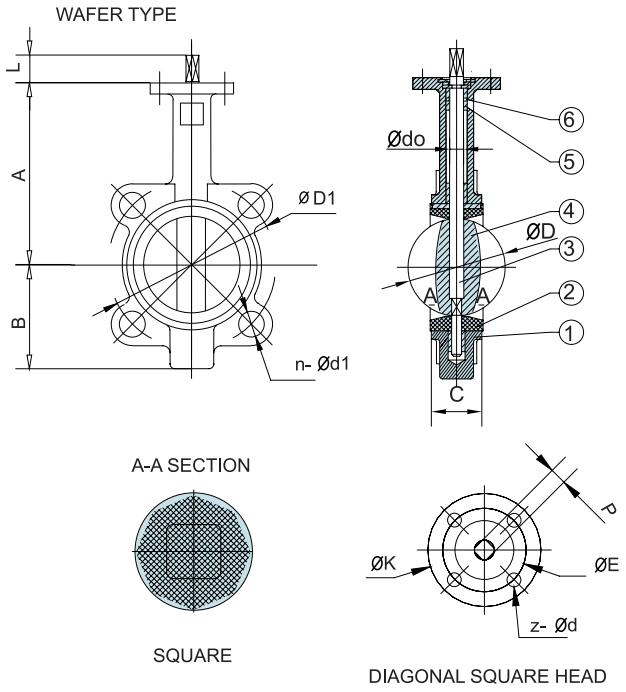
STANDARD MATERIALS OF MAIN PARTS

NO.	PART	MATERIAL
1	Body	Cast Iron,Ductile Iron, Carbon Steel,Stainless Steel
2	Seat	NBR,EPDM,PTFE,Viton,Neoprene,Hypalon,Silicon
3	lower Shaft	Stainless Steel 416,316,304
4	Disc	Ductile Iron+Ni(Nylon/Epoxy),CF8,CF8+PTFE(PFA), CF8M,CF8M+PTFE(PFA),Bronze
5	Upper Shaft	Stainless Steel 416,316,304
6	Locating Pin	Carbon Steel
7	Bushing	PTFE
8	O Ring	NBR,EPDM

DIMENSIONS

SIZE		A	B	C	D	L	d0	P	H	UPPER FLANGE					ANSI 150		DIN PN10/16	
IN	DN									K	E	z-d	g	h	D1	n-d1	D1	n-d1
2	50	161	80	42	52.6	32	12.6	9	10	77	50	4-7	35	3	120.5	4-19	125	4-18
2-1/2	65	175	89	44.7	64.5	32	12.6	9	10	77	50	4-7	35	3	139.5	4-19	145	4-18
3	80	181	95	45.2	78.8	32	12.6	9	10	77	50	4-7	35	3	152.5	4-19	160	4/8-18
4	100	200	114	52.1	104	32	15.77	11	12	90	70	4-9	55	3	190.5	8-19	180	8-18
5	125	213	127	54.4	123.3	32	18.92	14	14	90	70	4-9	55	3	216	8-22	210	8-18
6	150	226	139	55.8	155.6	32	18.92	14	14	90	70	4-9	55	3	241.5	8-22	240	8-23
8	200	260	175	60.6	202.5	45	22.1	17	17	125	102	4-12	70	3.5	298.5	8-22	295	8/12-23
10	250	292	203	65.6	250.5	45	28.45	22	22	125	102	4-12	70	3.5	362	12-25	350/355	12-23/27
12	300	337	242	76.9	301.6	45	31.6	22	24	125	102	4-12	70	3.5	432	12-25	400/410	12-23/27

Wafer Butterfly Valve (Through Shaft Without Pin)



- Type:
  Wafer
- Face to Face:
  API609,BS5155,DIN3202, ISO5752
- Flange:
  DIN,BS,UNI,ISO,ANSI, AS,JIS
- Mounting Flange:
  ISO5211

- Working Pressure:
  PN16(200PSI)
- Application:
  Water works, Public facilities, Building Industry, Petrolem, Chemical, Steel, Metallurgy, Paper Making Industry, Foods, Beverage

STANDARD MATERIALS OF MAIN PARTS

NO.	PART	MATERIAL
1	Body	Cast Iron, Ductile Iron, Stainless Steel
2	Seat	EPDM.NBR.Viton PTFE
3	Shaft	Stainless Steel 416,316,304
4	Disc	DI+NI,CF8,CF8M
5	Bushing	PTFE
6	O Ring	NBR

DIMENSIONS

SIZE		A	B	C	D	L	dO	P	UPPER FLANGE			ANSI 150		DIN PN10	
in	DN								K	E	z-d	D1	n-d1	D1	n-d1
2	50	161	80	42	52.6	32	14.3	11	90	70	4-9	120.5	4-19	125	4-18
2-1/2	65	175	89	44.7	64.5	32	14.3	11	90	70	4-9	139.5	4-19	145	4-18
3	80	181	95	45.2	78.8	32	14.3	11	90	70	4-9	152.5	4-19	160	4-18
4	100	200	114	52.1	104	32	15.77	11	90	70	4-9	190.5	8-19	180	8-18
5	125	213	127	54.4	123.3	32	18.92	14	90	70	4-9	216	8-22	210	8-18
6	150	226	139	55.8	155.6	32	18.92	14	90	70	4-9	241.5	8-22	240	8-23
8	200	260	175	60.6	202.5	45	22.1	17	125	102	4-12	298.5	8-22	295	8-23
10	250	292	203	65.6	250.5	45	28.45	22	125	102	4-12	362	12-25	350	12-23
12	300	337	242	76.9	301.6	45	31.6	22	125	102	4-12	432	12-25	400	12-23
14	350	368	267	76.5	333.3	45	31.6	22	125	102	4-12	476	12-29	460	16-23
16	400	400	309	86.5	389.6	51.2	38	24	175	140	4-18	540	16-29	515	16-27
18	450	422	328	105.6	440.5	51.2	42.86	27	175	140	4-18	578	16-32	565	20-27
20	500	480	361	131.8	491.6	64.2	45.72	32	175	140	4-18	635	20-32	620	20-27
24	600	562	459	152	592.5	70.2	53.98	36	210	165	4-23	749.5	20-35	725	20-30

CONCENTRIC BUTTERFLY VALVE

Water works and water resource project
Environment protection
Public facilities
Power and public utilities
Building industry
Petroleum, chemical
Steel, metallurgy
Paper making industry
Foods, Beverage

Butterfly valve as used as shutting-off or throtting unit for petroleum processing, chemicals, food, medicine, textile, paper making, hydroelecuicity engineering as well as light industry, etc. it can be installed in any selected position.

BUTTERFLY VALVES

AXM
EXPERT IN PROCESS VALVE

Type:	Wafer
Face to face:	API609, BS5155, DIN3202,
Flange:	ISO5752
Mounting Flange:	DIN, BS, UNI, ISO, ANSI, AS, JIS ISO5211

Working Pressure:	PN10 (150PSI)
Application:	Water works, Public facilities, Building Industry, Petrolem, Chemical, Steel, Metallurgy,Paper Making Industry, Foods, Beverage

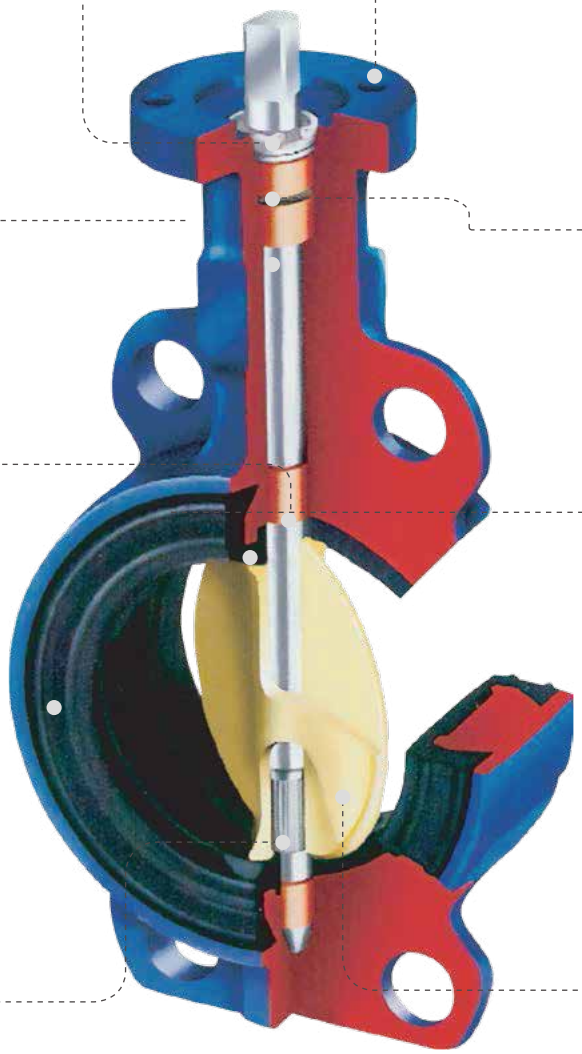
Retaining system
The shaft is retained in the body with a retaining ring, a thrust washer and two C-rings, providing a “blow-out proof” shaft assembly. The retaining ring may be easily removed with a standard hand tool on field disassembly.

Shaft
One-piece through shaft ensures dependability and positive disc positioning.

Bushing (4-5)
Shaft bushings reduce torque and isolate the shaft from the valves body, preventing seizure of the shaft due to corrosion in the shaft journal.

Seat/Body
The tongue-and-groove seat to body retention method makes field replacement simple and fast. The resilient seat features lower torque and eliminates the need for flange gaskets.

Disc and shaft Connection
The spline or square connection eliminates shaft retention components being exposed to the line media, Maximum flow is achieved



Mounting Flange
ISO5211 mounting flange accommodates direct mounting of all types of actuators, including: handle, gear operator, electric and pneumatic.

O-Ring (1-2)
Shaft: seal provides further assurance against stem leakage.

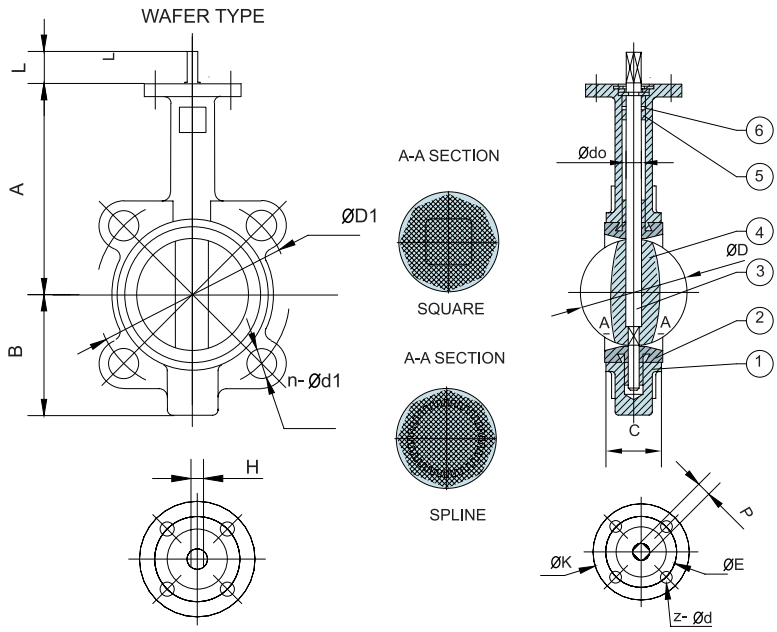
Hub Seal
Smooth finished disc flats mate with seat flats to give a highly efficient primary seal that prevents leakage into the shaft area.

Disc
Precision profiles provides bubble-tight shut-off, assures minimum torque and longer seat life.

- Type:
  Wafer
- Face to Face:
  API609,BS5155,DIN3202, ISO5752
- Flange:
  DIN,BS,UNI,ISO,ANSI, AS,JIS
- Mounting Flange:
  ISO5211

- Working Pressure:
  PN16(200PSI)
- Application:
  Water works, Public facilities, Building Industry, Petrolem, Chemical, Steel, Metallurgy, Paper Making Industry, Foods, Beverage

Wafer Butterfly Valve (Innovative Tongue-And-Groove Seat Design



DOUBLE D HEAD

DIAGONAL SQUARE HEAD

STANDARD MATERIALS OF MAIN PARTS

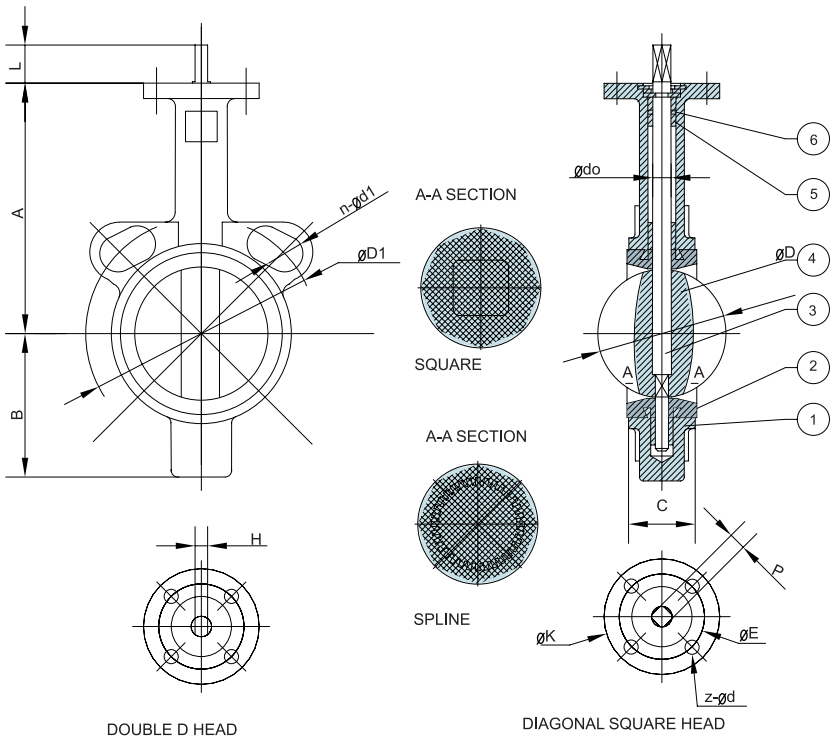
NO.	PART	MATERIAL
1	Body	Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel
2	Seat	NBR, EPDM, Viton, Neoprene, Hypalon, Silicon
3	Shaft	Stainless Steel 416, 316,304
4	Disc	Ductile Iron+Ni (Nylon/Epoxy), CF8, CF8M, Bronze
5	Bushing	PTFE
6	O Ring	NBR,EPDM

DIMENSIONS

SIZE		A	B	C	D	L	d0	P	H	UPPER FLANGE			ANSI 150		DIN PN10	
in	DN									K	E	z-d	D1	n-d1	D1	n-d1
2	50	161	80	42.4	56	32	14.3/12.6	11/9	10	90	70	4-9	120.5	4-19	125	4-18
2-1/2	65	175	89	45.8	67.87	32	14.3/12.6	11/9	10	90	70	4-9	139.5	4-19	145	4-18
3	80	181	95	45.8	80.5	32	14.3/12.6	11/9	10	90	70	4-9	152.5	4-19	160	4-18
4	100	200	114	52	106.1	32	15.77	11	12	90	70	4-9	190.5	8-19	180	8-18
5	125	213	127	55	131	32	18.92	14	14	90	70	4-9	216	8-22	210	8-18
6	150	226	139	55	153.3	32	18.92	14	14	90	70	4-9	241.5	8-22	240	8-23
8	200	260	175	61	204.8	45	22.1	17	17	125	102	4-12	298.5	8-22	295	8-23
10	250	292	203	67.2	255.4	45	28.45	22	22	125	102	4-12	362	12-25	350	12-23
12	300	337	242	77	306.6	45	31.6	22	24	125	102	4-12	432	12-25	400	12-23

NOTE: (1) The maximum working pressure is 1.0 MPa (150PSI) .

Wafer Butterfly Valve (Innovative Tongue-And-Groove Seat Desig



- Type:
  Wafer
- Face to Face:
  API609,BS5155,DIN3202, ISO5752
- Flange:
  DIN,BS,UNI,ISO,ANSI, AS,JIS
- Mounting Flange:
  ISO5211

- Working Pressure:
  PN16(200PSI)
- Application:
  Water works, Public facilities, Building Industry, Petrolem, Chemical, Steel, Metallurgy, Paper Making Industry, Foods, Beverage

STANDARD MATERIALS OF MAIN PARTS

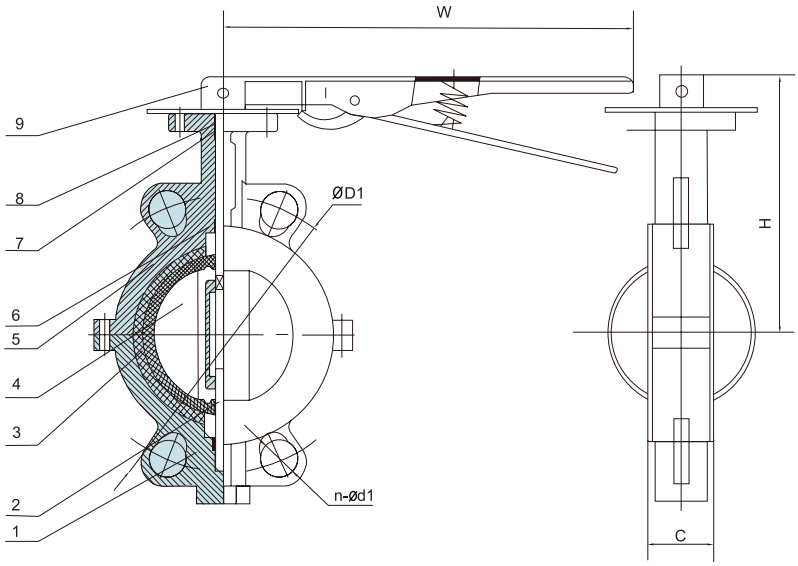
NO.	PART	MATERAILS
1	Body	Cast iron, Ductile iron.Carbon steel, Stainless Steel
2	seat	NBR, EPDM,Viton,Neoprene,Hypalon,Silicon
3	Shaft	Stainless Steel 416, 316,304
4	Disc	Ductile iron+Ni(Nylon/Epoxy), CF8, CF8M, Bronze
5	Bushing	PTFE
6	O Ring	NBR, EPDM

DIMENSIONS

SIZE		A	B	C	D	L	d0	P	H	UPPER FLANGE			ANSI150		DIN PN10/16		JIS 10K	
IN	DN									K	E	Z-d	D1	n-d1	D1	n-d1	D1	n-d1
2	50	161	80	42.4	56	32	14.3/12.6	11/9	10	90	70	4-9	120.5	4-19	125	4-18	120	4-19
2-1/2	65	175	89	45.8	67.87	32	14.3/12.6	11/9	10	90	70	4-9	139.5	4-19	145	4-18	140	4-19
3	80	181	95	45.8	80.5	32	14.3/12.6	11/9	10	90	70	4-9	152.5	4-19	160	4/8-18	150	8-19
4	100	200	114	52	106.1	32	15.77	11	12	90	70	4-9	190.5	8-19	180	8-18	175	8-19
5	125	213	127	55	131	32	18.92	14	14	90	70	4-9	216	8-22	210	8-18	210	8-23
6	150	226	139	55	153.3	32	18.92	14	14	90	70	4-9	241.5	8-22	240	8-23	240	8-23
8	200	260	175	61	204.8	45	22.1	17	17	125	102	4-12	298.5	8-22	295	8/12-23	290	12-23
10	250	292	203	67.2	255.4	45	28.45	22	22	125	102	4-12	362	12-25	350/355	12-23/27	355	12-25
12	300	337	242	77	306.6	45	31.6	22	22	125	102	4-12	432	12-25	400/410	12-23/27	400	16-25

- Nominal Diameter: DN40-DN800mm
- Nominal Pressure: PN1.0-PN1.6MPa
- Suitable Medium: Various Corrosiveness Medium
- Suitable Temperature: +10℃-150℃

PTFE Coated Butterfly Valve (Wafer Type)



NOMINAL PRESSURE	1.0	MPa
SHELL TEST PRESSURE	1.5	
SEAL TEST PRESSURE	1.1	

STANDARD MATERIALS OF MAIN PARTS

ITEM	PART NAME	OPTIONS	OPTIONS
1	Lower Valve Body	WCB DI	CF8M CF8
2	Stem	SS 416	SS316 SS304
3	Seat	PTFE	PTFE
4	Disc	WCB/CF8/CF8M PTFE	CF8M+PTFE CF8/CF8M+PFA
5	Upper Valve Body	WCB DI	CF8M CF8
6	Bushing	PTFE	BRONZE
7	O Ring	VITON	VITON
8	Bushing	PTFE	BRONZE
9	Handle		

DIMENSIONS

SIZE		C	H	W	ANSI 150		DIN PN10/16	
IN	DN				D1	n-d1	D1	n-d1
1-1/2	40	40	150	270	98.5	4-15	110	4-18
2	50	43	167	270	120.5	4-19	125	4-18
2-1/2	65	46	170	270	139.5	4-19	145	4-18
3	80	46	170	270	152.5	4-19	160	4(4/8)-18
4	100	52	181	270	190.5	4(8)-19	180	4(8)-18
5	125	56	205	270	216	4(8)-22	210	4(8)-18
6	150	56	219	270	241.5	4(8)-22	240	4(8)-23
8	200	60	268	360	298.5	4(8)-22	295	4(8/12)-23
10	250	68	284	500	362	4(12)-25	350/355	4(12)-23/27
12	300	78	337	500	432	4(12)-25	400/410	4(12)-23/27

BUTTERFLY VALVES

AXM
EXPERT IN PROCESS VALVE

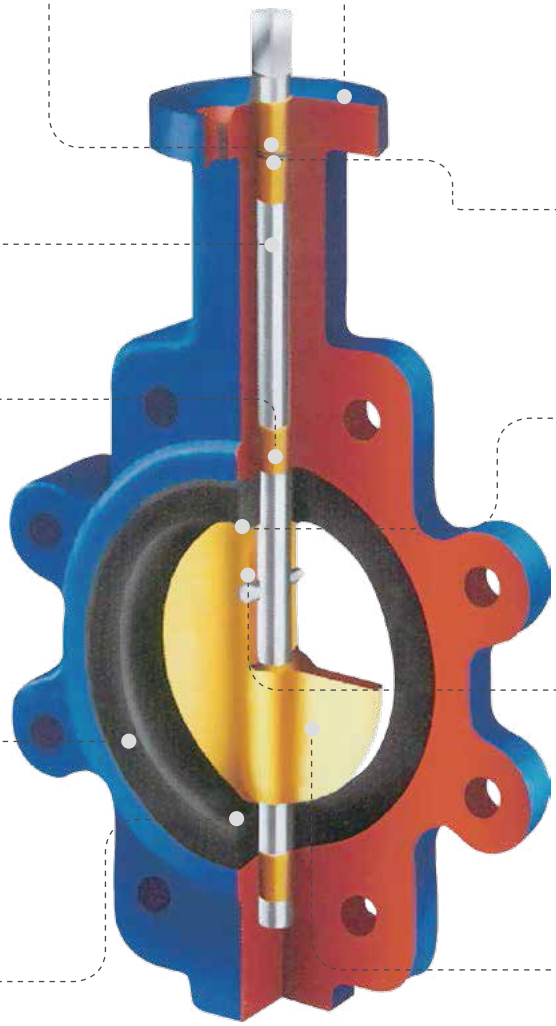
• CONCENTRIC BUTTERFLY VALVE

- Water works and water resource project
- Environment protection
- Public facilities
- Power and public utilities
- Building industry
- Petroleum, chemical
- Steel, metallurgy
- Paper making industry
- Foods, Beverage

Butterfly valve as used as shutting-off or throtting unit for petroleum processing, chemicals, food, medicine, textile, paper making, hydroelecuicity engineering as well as light industry, etc. it can be installed in any selected position.

Type:	Lugged
Face to face:	API609, BS5155, DIN3202, ISO5752
Flange:	DIN, BS, UNI, ISO, ANSI, AS, JIS
Mounting Flange:	ISO5211

Working Pressure:	DN40-300:PN16 (200PSI) DN350&above: PN10 (150PSI)
Application:	Water works, Public facilities, Building Industry, Petrolem, Chemical, Steel, Metallurgy,Paper Making Industry, Foods, Beverage



Weather Seal
Top bushing keep dust and moisture from entering the upper shaft journal.

Shaft
One-piece through shaft ensures dependability and positive disc positioning.

Bushing(4-5)
Shaft bushings reduce torque and isolate the shaft from the valves body, preventing seizure of the shaft due to corrosion in the shaft journal.

Seat Face
Seat to flange seal eliminates the need for flange gaskets.

Seat
Phonetic-backed seat is non-collapsible, stretch resistant, blow out proof, and field replaceable.

Mouting Flange
ISO5211 mounting flange accommodates direct mounting of all types of actuators, including: handle, gear operator, electric and pneumatic.

O-Ring(1-2)
Shaft seal provides further assurance against stem leakage.

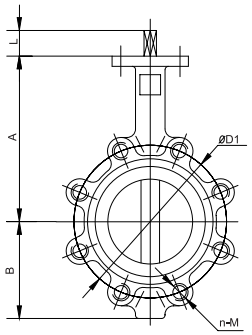
Flats Seal
Smooth finished disc flats mate with seat to give a highly efficient primary seal that prevents leakage into the shaft area.

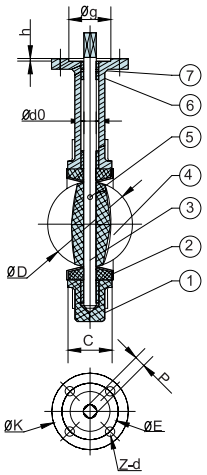
Taper Pin (1-3)
Precision taper pin ensure positive, vibration proof, shaft to disc connection. Field replaceable.

Disc
Precision profiles provides bubble-tight shut-off, assures minimum torque and longer seat life.

Lug Butterfly Valve

LUG TYPE





DIAGONAL SQUARE HEAD

STANDARD MATERIALS OF MAIN PARTS

NO.	PART	MATERIAL
1	Body	Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel
2	Seat	NBR, EPDM, Viton, Neoprene, Hypalon, Silicon PTFE
3	Shaft	Stainless Steel 416,316,304
4	Disc	Ductile Iron+Ni, CF8, CF8M, Bronze
5	Pin	Stainless Steel
6	Bushing	PTFE, Bronze
7	O Ring	NBR. EPDM

DIMENSIONS

SIZE		A	B	C	D	L	d0	P	H	KEY b×1	UPPER FLANGE					ANSI 150		DIN PN10/16	
in	DN										K	E	z-d	g	h	D1	n-M	D1	n-M
1-1/2	40	145	75	33	42.4	32	12.6	9	10	3×16	77	50	4-7	35	3	98.5	4-1/2"	110	4-M16
2	50	161	80	42	52.6	32	12.6	9	10	3×16	77	50	4-7	35	3	120.5	4-5/8"	125	4-M16
2-1/2	65	175	89	44.7	64.5	32	12.6	9	10	3×16	77	50	4-7	35	3	139.5	4-5/8"	145	4-M16
3	80	181	95	45.2	78.8	32	12.6	9	10	3×16	77	50	4-7	35	3	152.5	4-5/8"	160	4/8-M16
4	100	200	114	52.1	104	32	15.77	11	12	5×19	90	70	4-9	55	3	190.5	8-5/8"	180	8-M16
5	125	213	127	54.4	123.3	32	18.92	14	14	5×19	90	70	4-9	55	3	216	8-3/4"	210	8-M16
6	150	226	139	55.8	155.6	32	18.92	14	14	5×19	90	70	4-9	55	3	241.5	8-3/4"	240	8-M20
8	200	260	175	60.6	202.5	45	22.1	17	17	5×19	125	102	4-12	70	3.5	298.5	8-3/4"	295	8/12-M20
10	250	292	203	65.6	250.5	45	28.45	22	22	8×28	125	102	4-12	70	3.5	362	12-7/8"	350/355	12-M20/M24
12	300	337	242	76.9	301.6	45	31.6	22	24	8×28	125	102	4-12	70	3.5	432	12-7/8"	400/410	12-M20/M24
14	350	368	267	76.5	333.3	45	31.6	22	24	8×28	125	102	4-12	70	3.5	476	12-1"	460/470	16-M20/M24
16	400	400	309	86.5	389.6	51.2	33.15	24	24	8×28	175	140	4-18	100	4	540	16-1"	515/525	16-M24/M27
18	450	422	328	105.6	440.5	51.2	38	27	27	8×28	175	140	4-18	100	4	578	16-11/8"	565/585	20-M24/M27
20	500	480	361	131.8	491.6	64.2	41.15	32	32	8×28	175	140	4-18	100	4	635	20-11/8"	620/650	20-M24/M30
24	600	562	459	152	592.5	70.2	50.65	36	36	8×28	210	165	4-23	130	5	749.5	20-11/4"	725/770	20-M27/M33

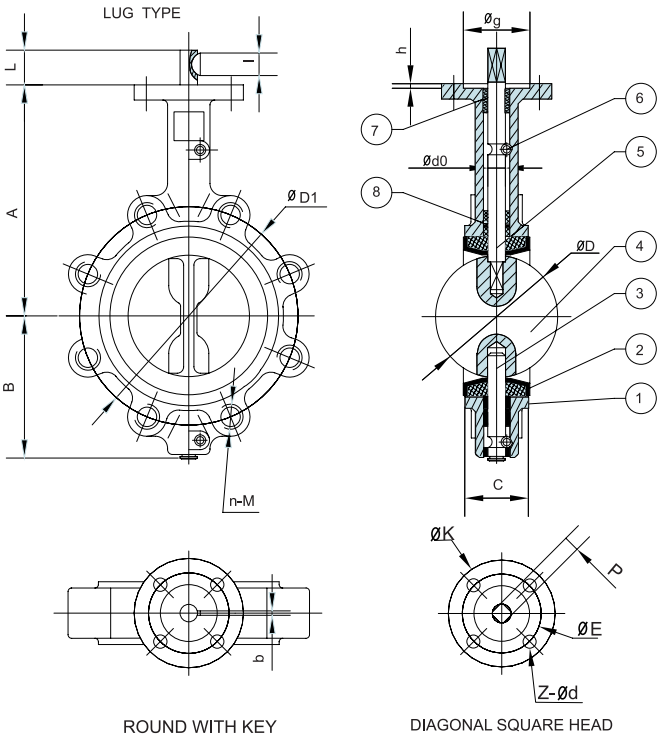
- Type:
  Lugged
- Face to Face:
  API609,BS5155,DIN3202, ISO5752
- Flange:
  DIN,BS,UNI,ISO,ANSI, AS,JIS
- Mounting Flange:
  ISO5211

- Working Pressure:
  PN16(200PSI)
- Application:
  Water works, Public facilities, Building Industry, Petrolem, Chemical, Steel, Metallurgy, Paper Making Industry, Foods, Beverage

- Type:
  Lugged
- Face to Face:
  API609,BS5155,DIN3202, ISO5752
- Flange:
  DIN,BS,UNI,ISO,ANSI, AS,JIS
- Mounting Flange:
  ISO5211

- Working Pressure:
  PN16(200PSI)
- Application:
  Water works, Public facilities, Building Industry, Petrolem, Chemical, Steel, Metallurgy, Paper Making Industry, Foods, Beverage

Lug Butterfly Valve (Half Shaft Without Pin)



STANDARD MATERIALS OF MAIN PARTS

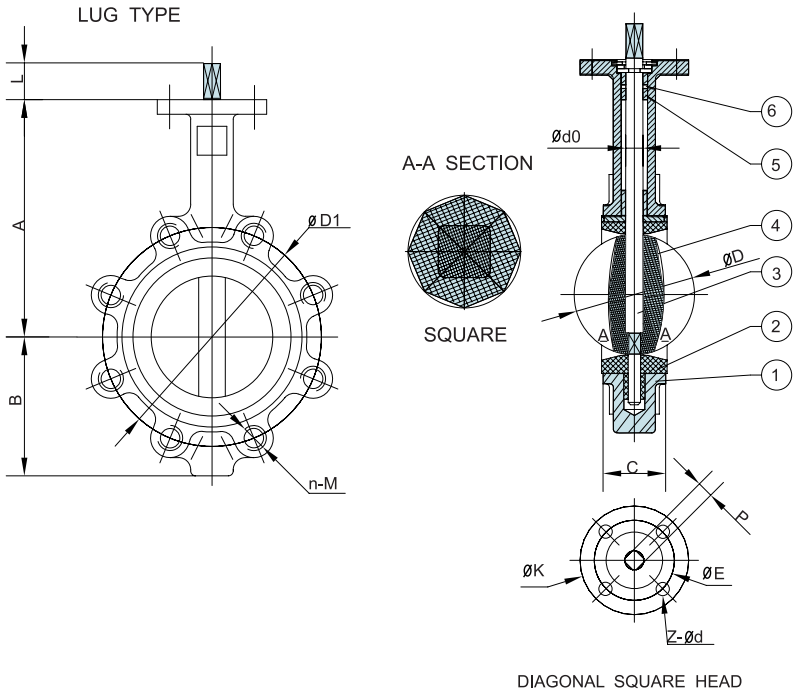
NO.	PART	MATERIAL
1	Body	Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel
2	Seat	NBR, EPDM, PTFE, Viton, Neoprene, Hypalon, Silicon
3	Lower Shaft	Stainless Steel 416, 316, 304
4	Disc	Ductile Iron+Ni (Nylon/Epoxy), CF8, CF8+PTFE(PFA), CF8M, CF8M+PTFE(PFA), Bronze
5	Upper Shaft	Stainless Steel 416, 316, 304
6	Locating Pin	Carbon Steel
7	Bushing	PTFE
8	O Ring	NBR, EPDM

DIMENSIONS

SIZE		A	B	C	D	L	d0	P	KEY	UPPER FLANGE					ANSI 150		DIN PN10/PN16	
in	DN								b×l	K	E	z-d	g	h	D1	n-M	D1	n-M
2	50	161	80	42	52.9	32	12.6	9	3×16	77	50	4-7	35	3	120.5	4-5/8"	125	4-M16
2-1/2	65	175	89	44.7	64.5	32	12.6	9	3×16	77	50	4-7	35	3	139.5	4-5/8"	145	4-M16
3	80	181	95	45.2	78.8	32	12.6	9	3×16	77	50	4-7	35	3	152.5	4-5/8"	160	4/8-M16
4	100	200	114	52.1	104	32	15.77	11	5×19	90	70	4-9	55	3	190.5	8-5/8"	180	8-MI6
5	125	213	127	54.4	123.3	32	18.92	14	5×19	90	70	4-9	55	3	216	8-3/4"	210	8-M16
6	150	226	139	55.8	155.6	32	18.92	14	5×19	90	70	4-9	55	3	241.5	8-3/4"	240	8-M20
8	200	260	175	60.6	202.5	45	22.1	17	5×19	125	102	4-12	70	3.5	298.5	8-3/4"	295	8/12-M20
10	250	292	203	65.6	250.5	45	28.45	22	8×19	125	102	4-12	70	3.5	362	12-7/8"	350/355	12-M20/M24
12	300	337	242	76.9	301.6	45	31.6	22	8×19	125	102	4-12	70	3.5	432	12-7/8"	400/410	12-M20/M24

NOTE: (1) The maximum working pressure is 1.6 MPa (200PSI)
(2) For dead end use, the maximum working pressure is 0.8MPa (100PSI)

Lug Butterfly Valve (Through Shaft Without Pin)



- Type:
  Lugged
- Face to Face:
  API609,BS5155,DIN3202, ISO5752
- Flange:
  DIN,BS,UNI,ISO,ANSI, AS,JIS
- Mounting Flange:
  ISO5211

- Working Pressure:
  PN16(200PSI)
- Application:
  Water works, Public facilities, Building Industry, Petrolem, Chemical, Steel, Metallurgy, Paper Making Industry, Foods, Beverage

STANDARD MATERIALS OF MAIN PARTS

NO.	PART	MATERIAL
1	Body	Cast Iron, Ductile Iron, Stainless Steel
2	Seat	EPDM,NBR,Viton PTFE
3	Shaft	Stainless Steel 416,316,304
4	Disc	DI+NI,CF8,CF8M
5	Bushing	PTFE
6	O Ring	NBR

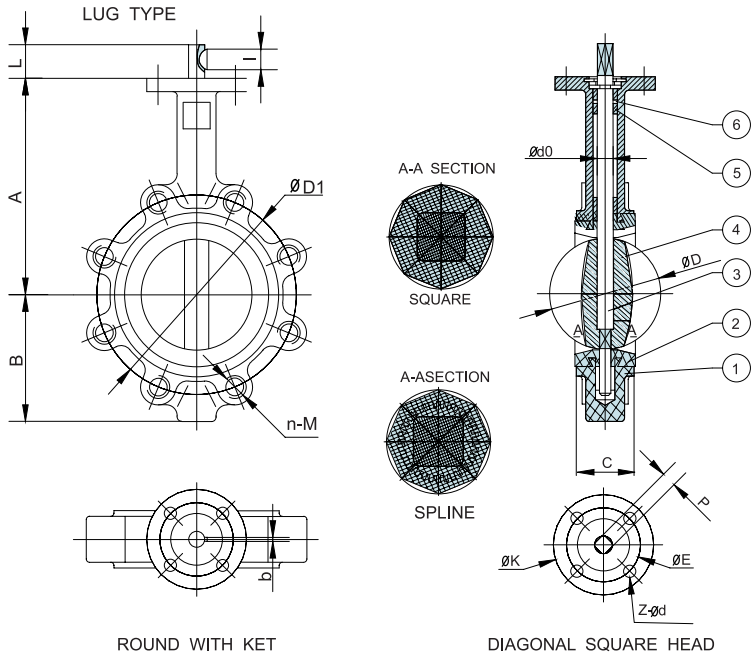
DIMENSIONS

SIZE		A	B	C	D	L	d0	P	UPPER FLANGE			ANSI 150		DIN PN10	
in	DN								K	E	z-d	D1	n-M	D1	n-M
2	50	161	80	42	52.6	32	14.3	11	90	70	4-9	120.5	4-5/8"	125	4-M16
2-1/2	65	175	89	44.7	64.5	32	14.3	11	90	70	4-9	139.5	4-5/8"	145	4-M16
3	80	181	95	45.2	78.8	32	14.3	11	90	70	4-9	152.5	4-5/8"	160	4-M16
4	100	200	114	52.1	104	32	15.77	11	90	70	4-9	190.5	8-5/8"	180	8-M16
5	125	213	127	54.4	123.3	32	18.92	14	90	70	4-9	216	8-3/4"	210	8-MI6
6	150	226	139	55.8	155.6	32	18.92	14	90	70	4-9	241.5	8-3/4"	240	8-M20
8	200	260	175	60.6	202.5	45	22.1	17	125	102	4-12	298.5	8-3/4"	295	8-M20
10	250	292	203	65.6	250.5	45	28.45	22	125	102	4-12	362	12-7/8"	350	12-M20
12	300	337	242	76.9	301.6	45	31.6	22	125	102	4-12	432	12-7/8"	400	12-M20
14	350	368	267	76.5	333.3	45	31.6	22	125	102	4-12	476	12-1"	460	16-M20
16	400	400	309	86.5	389.6	51.2	38	24	175	140	4-18	540	16-1"	515	16-M24
18	450	422	328	105.6	440.5	51.2	42.86	27	175	140	4-18	578	16-11/8"	565	20-M24
20	500	480	361	131.8	491.6	64.2	45.72	32	175	140	4-18	635	16-11/8"	620	20-M24
24	600	562	459	152	592.5	70.2	53.98	36	210	165	4-23	749.5	20-11/4"	725	20-M27

- Type:
  Lugged
- Face to Face:
  API609,BS5155,DIN3202, ISO5752
- Flange:
  DIN,BS,UNI,ISO,ANSI, AS,JIS
- Mounting Flange:
  ISO5211

- Working Pressure:
  PN16(200PSI)
- Application:
  Water works, Public facilities, Building Industry, Petrolem, Chemical, Steel, Metallurgy, Paper Making Industry, Foods, Beverage

Lug Butterfly Valve (Innovative Tongue-And-Groove Seat Design)



STANDARD MATERIALS OF MAIN PARTS

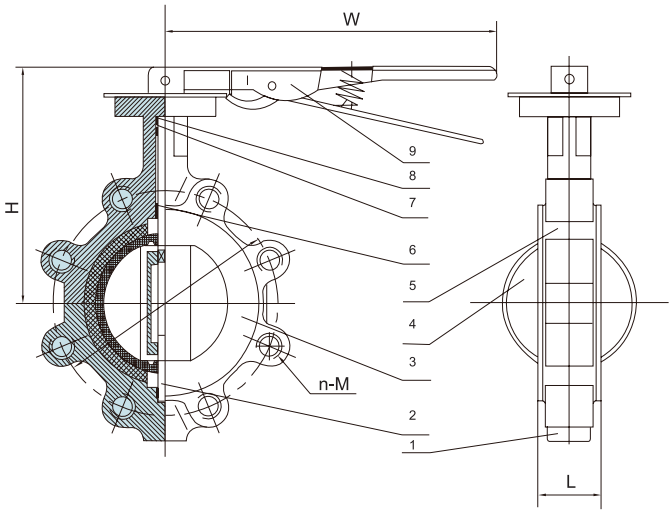
NO.	PART	MATERIAL
1	Body	Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel
2	Seat	NBR, EPDM, Viton, Neoprene, Hypalon, Silicon
3	Shaft	Stainless Steel 416, 316,304
4	Disc	Ductile Iron+Ni (Nylon/Epoxy), CF8, CF8M, Bronze
5	Bushing	PTFE
6	O Ring	NBR.EPDM

DIMENSIONS

SIZE		A	B	C	D	L	d0	P	KEY bXl	UPPER FLANGE			ANSI 150		DIN PN10	
in	DN									K	E	z-d	D1	n-M	D1	n-M
2	50	161	80	42.4	56	32	14.3/12.6	11/9	3×16	90	70	4-9	120.5	4-5/8"	125	4-M16
2-1/2	65	175	89	45.8	67.87	32	14.3/12.6	11/9	3×16	90	70	4-9	139.5	4-5/8"	145	4-M16
3	80	181	95	45.8	80.5	32	14.3/12.6	11/9	3×16	90	70	4-9	152.5	4-5/8"	160	4-M16
4	100	200	114	52	106.1	32	15.77	11	5×19	90	70	4-9	190.5	8-5/8"	180	8-M16
5	125	213	127	55	131	32	18.92	14	5×19	90	70	4-9	216	8-3/4"	210	8-M16
6	150	226	139	55	153.3	32	18.92	14	5×19	90	70	4-9	241.5	8-3/4"	240	8-M20
8	200	260	175	61	204.8	45	22.1	17	5×19	125	102	4-12	298.5	8-3/4"	295	8-M20
10	250	292	203	67.2	255.4	45	28.45	22	8×28	125	102	4-12	362	12-7/8"	350	12-M20
12	300	337	242	77	306.6	45	31.6	22	8×28	125	102	4-12	432	12-7/8"	400	12-M20

NOTE: (1) The maximum working pressure is 1.0 MPa (150PSI).
(2) For dead end use, the maximum working pressure is 0.5MPa (75PSI).

PTFE Coated Butterfly Valve (Lug Type)



- Nominal Diameter: DN40-DN800mm
- Nominal Pressure: PN1.0-PN1.6MPa
- Suitable Medium: Various Corrosiveness Medium
- Suitable Temperature: +10℃-150℃

NOMINAL PRESSURE	1.0	MPa
SHELL TEST PRESSURE	1.5	
SEAL TEST PRESSURE	1.1	

STANDARD MATERIALS OF MAIN PARTS

ITEM	PART NAME	MATERIAL
1	LOWER VALVE BODY	WCB CF8M DI CF8
2	Stem	SS416 SS316 SS304
3	Seat	PTFE PTFE
4	Disc	WCB+PTFE CF8M+PTFE CF8+PTEE
5	Upper Valve Body	WCB CF8M CF8
6	Bushing	PTFE Bronze
7	O Ring	Viton Viton
8	Bushing	PTFE Bronze
9	Handle	

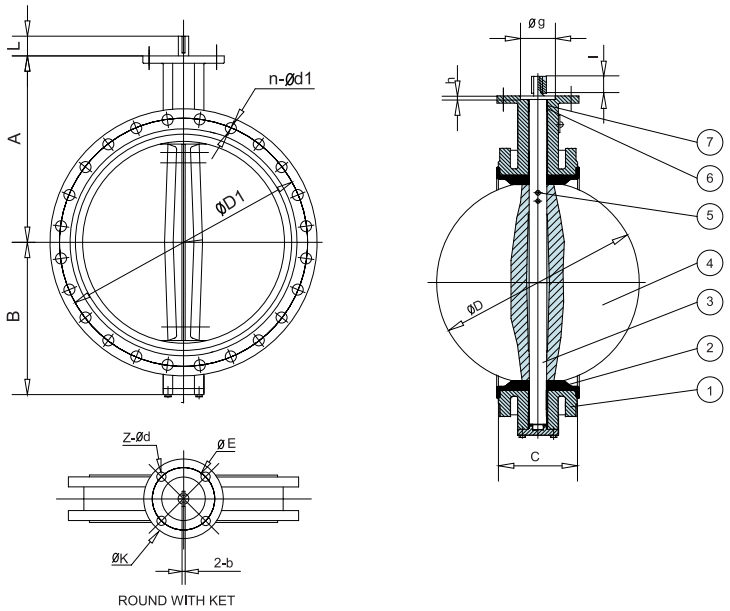
DIMENSIONS AND WEIGHTS

SIZE		H	L	W	ANSI 150		DIN PN10/16	
IN	DN				D1	n-M	D1	n-M
1-1/2	40	150	40	270	98.5	4-1/2"	110	4-M16
2	50	167	43	270	120.5	4-5/8"	125	4-M16
2-1/2	65	170	46	270	139.5	4-5/8"	145	4-M16
3	80	170	46	270	152.5	4-5/8"	160	4/8-M16
4	100	181	52	270	190.5	8-5/8"	180	8-M16
5	125	205	56	270	216	8-3/4"	210	8-M16
6	150	219	56	270	241.5	8-3/4"	240	8-M20
8	200	268	60	360	298.5	8-3/4"	295	8/12-M20
10	250	284	68	500	362	12-7/8"	350/355	12-M20/M24
12	300	337	78	500	432	12-7/8"	400/410	12-M20/M24

- Type:
  Flange
- Face to Face:
  BS5155,ISO5752
- Flange:
  DIN,BS,UNI,ISO,ANSI, AS,JIS
- Mounting Flange:
  ISO5211

- Working Pressure:
  PN16(200PSI)
- Application:
  Water works, Public facilities, Building Industry, Petrolem, Chemical, Steel, Metallurgy, Paper Making Industry, Foods, Beverage

Concentric Flanged Butterfly Valve



STANDARD MATERIALS OF MAIN PARTS

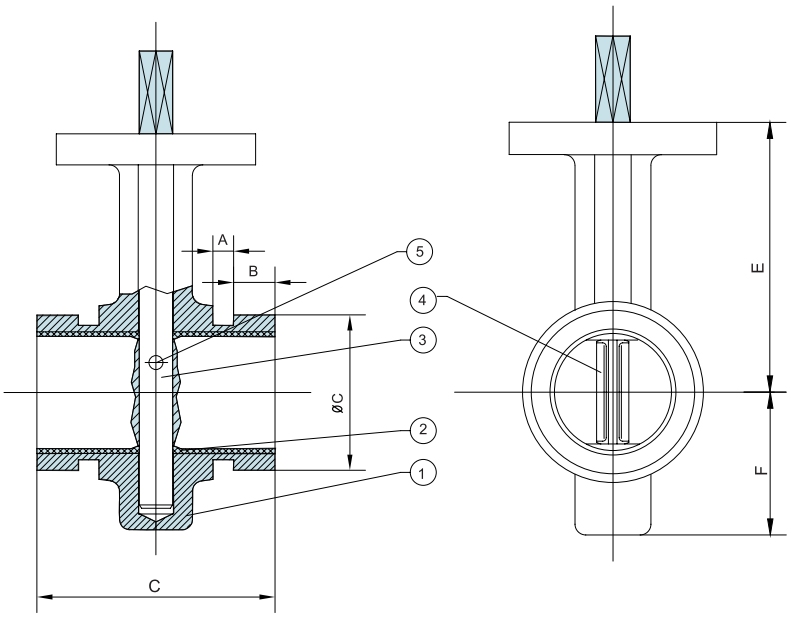
NO.	PART	MA TERIAL
1	Body	Cast Iron, Ductile Iron
2	Seat	VITON NBR,EPDM
3	Shaft	Stainless Steel 416, 316, 304
4	Disc	Ductile Iron+Ni, CF8, CF8M, Bronze
5	Pin	Stainless Steel
6	Bushing	PTFE, Bronze
7	O Ring	NBR, EPDM

DIMENSIONS

SIZE		A	B	C	D	L	KEY b×1	UPPER FLANGE					ANSI 150		DIN PN10/PN16	
in	DN							K	E	z-d	g	h	D1	n-d1	D1	n-d1
2	50	120	83	108	52.9	32	3×16	70	50	4-7	35	3	120.5	4-19	125	4-18
2-1/2	65	130	93	112	64.5	32	3×16	70	50	4-7	35	3	139.5	4-19	145	4-18
3	80	145	100	114	78.8	32	3×16	70	50	4-7	35	3	152.5	4-19	160	4/8-18
4	100	155	114	127	104	32	5×19	90	70	4-9	55	3	190.5	8-19	180	8-18
5	125	170	125	140	123.3	32	5×19	90	70	4-9	55	3	216	8-22	210	8-18
6	150	190	143	140	155.6	32	5×19	90	70	4-9	55	3	241.5	8-22	240	8-23
8	200	205	170	152	202.5	45	5×19	125	102	4-12	70	3.5	298.5	8-22	295	8/12-23
10	250	235	198	165	250.5	45	8×28	125	102	4-12	70	3.5	362	12-25	350/355	12-23/27
12	300	280	223	178	301.6	45	8×28	140	102	4-12	70	3.5	432	12-25	400/410	12-23/27
14	350	310	279	190	333.3	45	8×28	140	102	4-12	70	3.5	476	12-29	460/470	16-23/27
16	400	340	300	216	389.6	51.2/72	10×50	175	140	4-18	100	4	540	16-29	515/525	16-27/30
18	450	375	345	222	440.5	51.2/72	10×50	175	140	4-18	100	4	578	16-32	565/585	20-27/30
20	500	430	355	229	491.6	52.7/77.5	10×50	175	140	4-18	100	4	635	20-32	620/650	20-27/33
24	600	500	410	267	592.5	70.2/80	2-16×60	210	165	4-23	130	5	749.5	20-35	725/770	20-30/36
28	700	560	478	292	695	66/82	2-18×63	300	254	8-18	200	5.5	863.5	28-35	840	24-30/36
32	800	620	529	318	794.7	66/82	2-18×63	300	254	8-18	200	5.5	978	28-41	950	24-33/39
36	900	665	584	330	864.7	118	2-20×100	300	254	8-18	200	5.5	1086	32-41	1050	28-33/39
40	1000	735	657	410	965	141	2-22×140	300	254	8-18	200	5.5	1200	36-41	1160/1170	28-36/42

NOTE:(1) The maximum working pressure is 1.6 Mpa(200PSI) for 11/2"-12", 1.0MPa (150PSI) for 14"and larger.
(2) 14"-24" maximum working pressure of 1.6Mpa(200PSI) can be supplied as per specified order requirement.

Grooved End Butterfly Valve



- Type:
  Grooved
- Flange:
  DIN,BS,UNI,ISO,ANSI
- Mounting Flange:
  ISO5211

- Working Pressure:
  PN16(200PSI)
- Application:
  Water works, Public facilities, Building Industry, Petrolem, Chemical, Steel, Metallurgy, Paper Making Industry, Foods, Beverage

STANDARD MATERIALS OF MAIN PARTS

NO.	PART	MATERIAL
1	Body	Cast Iron, Ductile Iron
2	Seat	NBR, EPDM
3	Shaft	Stainless Steel 416, 316, 304
4	Disc	Ductile Iron+Ni,CF8, CF8M
5	Pin	Stainless Steel

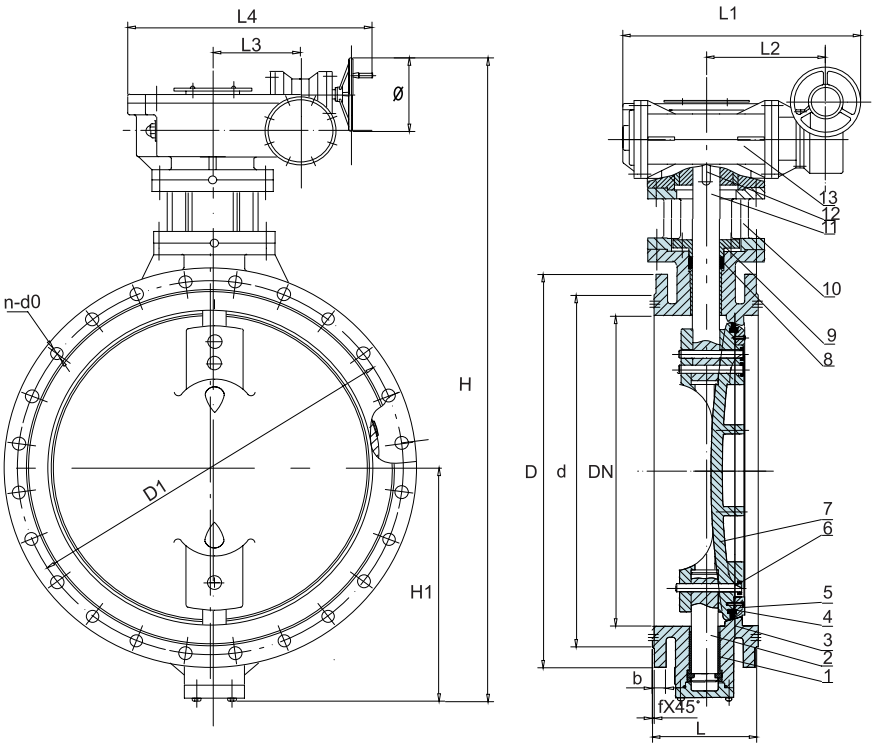
DIMENSIONS

SIZE		A	B	C	L	E	F
in	DN						
2	50	8	16	60	92	100	53
2-1/2	65	8	16	76	102	108	61
3	80	8	16	89	102	114	68
4	100	10	16	114	116	136	85
5	125	10	16	141	125	162	99
6	150	10	16	165	125	174	111
8	200	11	19	219	138	230	145

Double Eccentric Flanged Butterfly Valve

- Type:
  Flanged
- Face to Face:
  API609,BS5155,DIN3202, ISO5752
- Flange:
  DIN,BS,UNI,ISO,ANSI, AS,JIS
- Mounting Flange:
  ISO5211

- Working Pressure:
  PN10
- Application:
  Water works, Public facilities, Building Industry, Petrolem, Chemical, Steel, Metallurgy, Paper Making Industry, Foods, Beverage



Double Eccentric Flanged Butterfly Valve

STANDARD MATERIALS OF MAIN PARTS

NO.	PART	MATERIAL
1	Bushing	Bronze/PTFE
2	Bottom Shaft	Stainless Steel 420
3	Body	Ductile Iron/CarbonSteel/Stainless Steel(With WRAS approval options)
4	Disc Sealing Ring	EPDM/NBR(With WRAS approval options)
5	Retainer	Carbon Steel
6	Taper Pin	Stainless Steel 420
7	Disc	Ductile Iron/Carbon Steel/Stainless Steel (With WRAS approval options)
8	Sealing Ring	NBR
9	Stuffing Flange	Ductile Iron
10	Support	Ductile Iron
11	Top Shaft	Stainless Steel 420
12	Key	Carbon Steel
13	Actuator	Worm gear Actuator

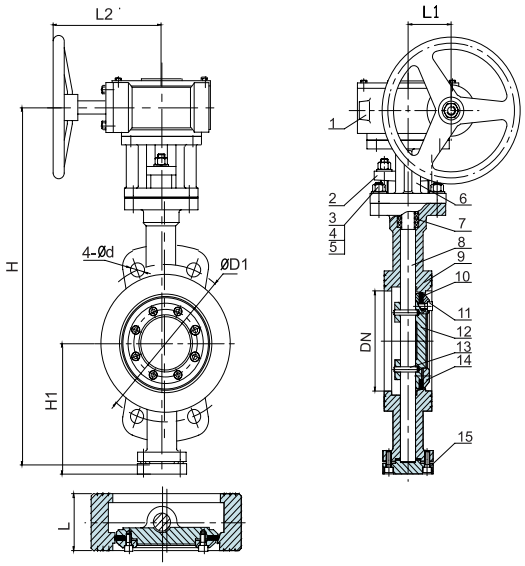
DN	d	Dl	D	H	H1	L			L1	L2	L3	L4	f	Φ	b	n-d0
		PN10				SHORT BODY	MIDDLE BODY	LONG BODY								PN10
DN100(4")	156	180	220	419	109	/	127	190	97	45	158	210	3	150	19	8-19
DN150(6")	211	240	285	583	143	/	140	210	97	45	158	210	3	150	19	8-23
DN200(8")	266	295	340	692	182	89	152	230	140	63	238	315	3	300	20	8-23
DN250(10")	319	350	395	784	219	114	165	250	140	63	238	315	3	300	22	12-23
DN300(12")	370	400	445	874	244	114	178	270	167	72	167	242	4	300	24.5	12-23
DN350(14")	429	460	505	998	283	127	190	290	201	91	188	275	4	400	24.5	16-23
DN400(16")	480	515	565	1062	312	140	216	310	201	91	188	275	4	400	24.5	16-28

DN	d	D1	D	H	H1	L			L1	L2	L3	L4	f	Φ	b	n-d0
		PN10				SHORT BODY	MIDDIE BODY	LONG BODY								PNI0
DN450(18")	530	565	615	1164	344	152	222	330	473	147	109	420	4	400	25.5	20-28
DN500(20")	582	620	670	1226	381	152	229	350	473	147	109	420	4	400	26.5	20-28
DN600(24")	682	725	780	1380	450	178	267	390	533	179	138	476	5	400	30	20-31
DN700(28")	794	840	895	1585	535	229	292	430	533	179	138	476	5	400	32.5	24-31
DN800(32")	901	950	1015	1750	590	241	318	470	655	217	170	577	5	500	35	24-34
DN900(36")	1001	1050	1115	1840	643	241	330	510	655	217	170	577	5	500	37.5	28-34
DN1000(40")	1112	1160	1230	1999	722	300	410	550	655	217	170	577	5	500	40	28-37
DN1200(48")	1328	1380	1455	2351	840	350	470	630	748	262	202	664	5	500	45	32-40

- Type:
  Wafer
- Flange:
  DIN,BS,UNI,ISO,ANSI, AS,JIS
- Mounting Flange:
  ISO5211

- Working Pressure:
  PN16(200PSI)
- Application:
  Water works, Public facilities, Building Industry, Petrolem, Chemical, Steel, Metallurgy, Paper Making Industry, Foods, Beverage

Triple Eccentric Butterfly Valve (Wafer Type)



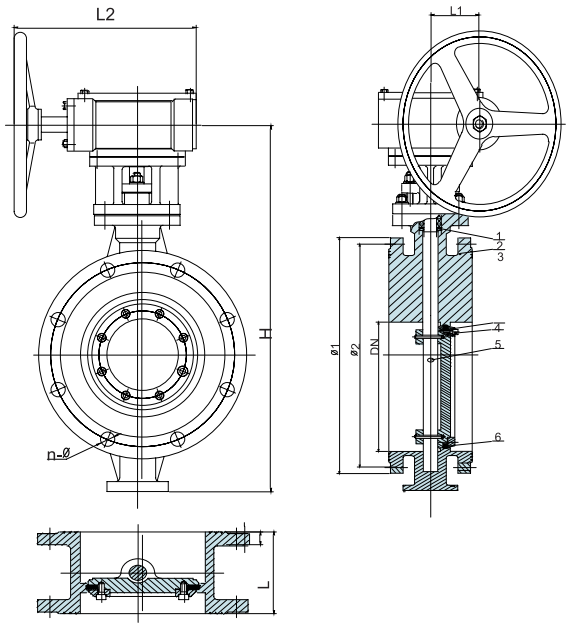
STANDARD MATERIALS OF MAIN PARTS

NO.	PART	DIMENSIONS
1	Wormgear Actuator	Components
2	Packing Flange	Carbon Steel
3	Stud	Carbon Steel
4	Washer	Spring Steel
5	Bolt	Carbon Steel
6	Cornecting Suppor	Carbon Steel
7	packing	Flexible Graphite
8	Stem	Stainless Steel 420
9	Body	Carbon Steel ,CF8 CF8M
10	Sealing Ring	SS316 + Flexible Graphite
11	Bolt	Carbon Steel
12	Disc	Carbon Steel ,CF8 CF8M
13	pin	Stainless Steel 420
14	Disc Flange	Carbon Steel
15	End Cover	Carbon Steel

DIMENSIONS

DN	L	H	H1	L1	L2	D1	4-Ød
DN50(2")	43	250	80	48	145	125	4-18
DN65(2.5")	46	265	95	48	145	145	4-18
DN80(3")	49	275	100	48	145	160	4-18
DN100(4")	56	400	125	48	145	180	4-18
DN125(5")	64	420	135	70	175	210	4-18
DN150(6")	70	480	172	70	175	240	4-22
DN200(8")	71	530	240	90	200	295	4-22
DN250(8")	76	640	265	90	200	350	4-22
DN300(12")	83	720	295	125	280	400	4-22
DN350(14")	92	770	330	125	280	460	4-22
DN400(16")	102	880	370	125	280	515	4-26
DN450(18")	114	930	395	130	280	565	4-26
DN500(20")	127	1000	430	130	280	620	4-26
DN600(24")	154	1130	490	175	365	725	4-30
DN700(28")	165	1270	545	175	365	840	4-30
DN800(32")	190	1560	615	225	440	950	4-33
DN900(36")	203	1700	700	225	440	1050	4-33
DN1000(40")	216	1865	715	290	490	1160	4-36

Triple Eccentric Butterfly Valve (Flanged Type)



- Type:
  Flange
- Flange:
  DIN,BS,UNI,ISO,ANSI, AS,JIS
- Mounting Flange:
  ISO5211

- Working Pressure:
  PN16(200PSI)
- Application:
  Water works, Public facilities, Building Industry, Petrolem, Chemical, Steel, Metallurgy, Paper Making Industry, Foods, Beverage

NO.	PART	MATERIALS
1	Packing	Graphite
2	Body	Carbon steel ,Stainless steel
3	Disc	Carbon steel,Stainless steel
4	Bolts	Carbon steel,Stainless steel
5	Shaft	Carbon steel,Stainless steel
6	Seat	PTFE,stainless steel

SIZE	DN	L	H	DIN PN10/16			L1	L2
				Φ1	Φ2	N-Φ		
DN50	Φ50	108	320	Φ165	Φ125	4-Φ18	40	130
DN65	Φ65	112	370	Φ185	Φ145	4-Φ18	40	130
DN80	Φ80	114	370	Φ200	Φ160	4/8-Φ18	40	130
DN100	Φ100	127	370	Φ220	Φ180	8-Φ18	48	145
DN125	Φ125	140	420	Φ250	Φ210	8-Φ18	70	175
DN150	Φ150	140	505	Φ285	Φ240	8-Φ22	70	175
DN200	Φ200	152	610	Φ340	Φ295	8/12-Φ22	90	200
DN250	Φ250	165	665	Φ395/Φ405	Φ350/Φ355	12-Φ23/Φ26	90	200
DN300	Φ300	178	755	Φ445/Φ460	Φ400/Φ410	12-Φ23/Φ26	125	280
DN350	Φ350	190	860	Φ505/Φ520	Φ460/Φ470	16-Φ23/Φ26	125	280
DN400	Φ400	216	890	Φ565/Φ580	Φ515/Φ525	16-Φ26/Φ30	125	280
DN500	Φ500	229	1040	Φ670/Φ715	Φ620/Φ650	20-Φ26/Φ33	130	280
DN600	Φ600	267	1285	Φ780/Φ840	Φ725/Φ770	20-Φ30/Φ36	175	365