

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, Petroleum, 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.

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.

Flats Seal

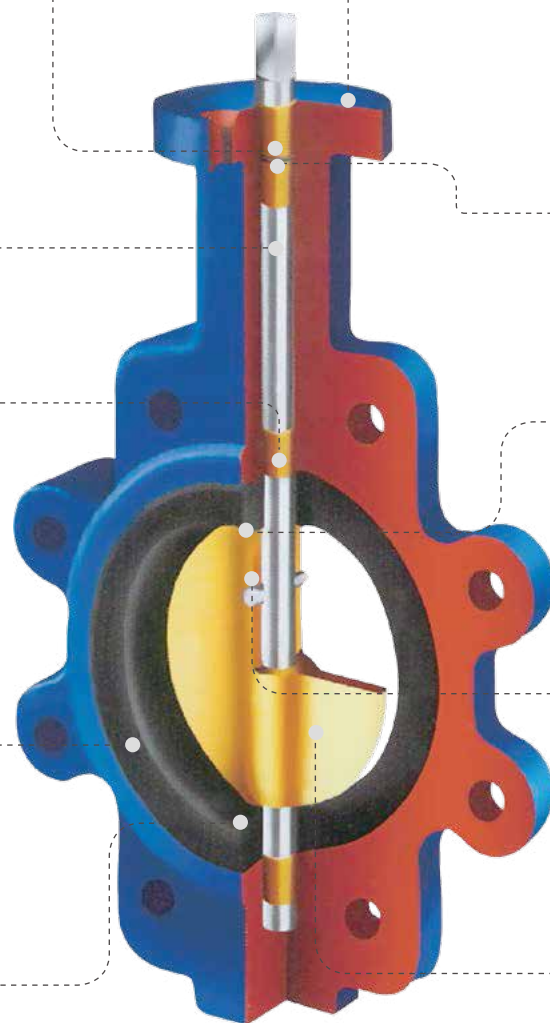
Smooth finished disc flats mate with seat to give a highly efficient primary seal that prevents leakage into the shaft area.

Taper Pin (1-3)

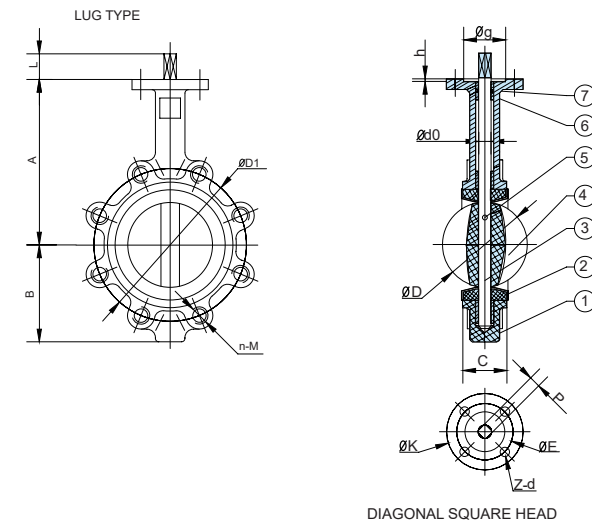
Precision taper pin ensure positive, vibration proof, shaft to disc connection. Field replaceable.

Disc

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



Lug Butterfly Valve



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	35	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	35	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	35	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	35	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

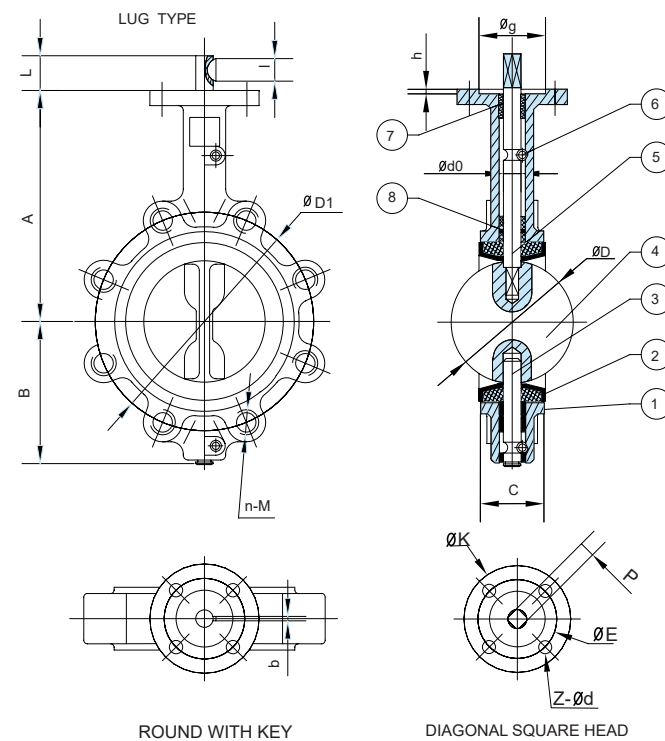


- Type: Lugged
- Face to Face: API609,BS5155,DIN3202, ISO5752
- Flange: DIN,BS,UNI,ISO,ANSI, AS,JIS
- Mounting Flange: ISO5211

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



Lug Butterfly Valve (Half Shaft Without Pin)



STANDARD MATERIALS OF MAIN PARTS

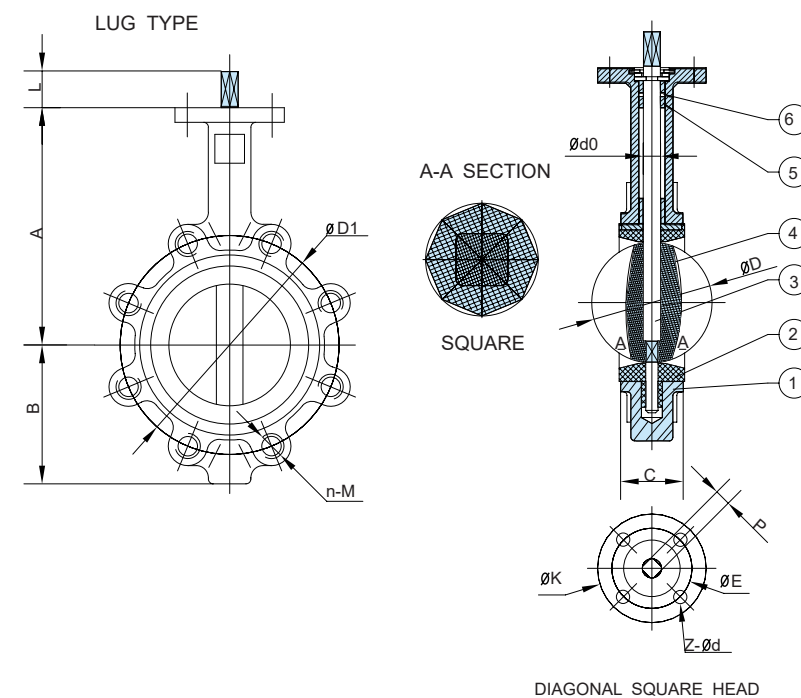
NO.	PART	MATERIAL
1	Body	Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel
2	Seat	NBR, EPDM, PTFE, Viton, Neoprene, Hypalon, Silicon
3	Lower Shaft	Stainless Steel 416, 316, 304
4	Disc	Ductile Iron+Ni (Nylon/Epoxy), CF8, CF8+PTFE(PFA), CF8M, CF8M+PTFE(PFA), Bronze
5	Upper Shaft	Stainless Steel 416, 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 b×l	UPPER FLANGE					ANSI 150		DIN PN10/PN16	
in	DN									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-M16
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)



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	in	DN	A	B	C	D	L	d0	P	UPPER FLANGE				ANSI 150		DIN PN10	
										K	E	z-d	g	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-M16		
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
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- Flange: DIN, BS, UNI, ISO, ANSI, AS, JIS
- Mounting Flange: ISO5211

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

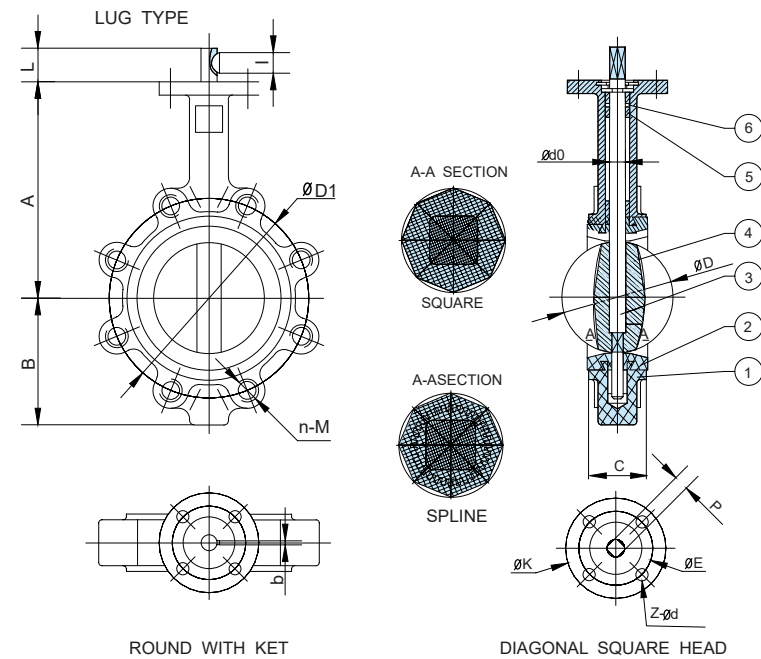


- Type:
Lugged
- Face to Face:
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- Flange:
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- Mounting Flange:
ISO5211

- Working Pressure:
PN16(200PSI)
- Application:
Water works, Public facilities, Building Industry, Petroleum, 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

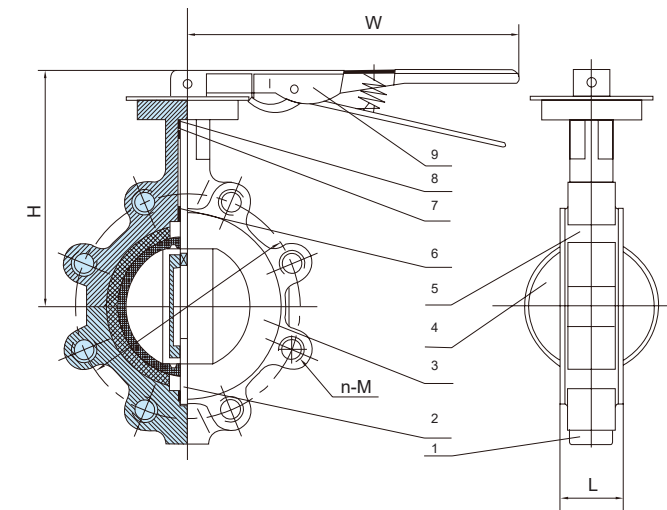
DIMENSIONS

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 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



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

