



DECOEN Tech
Engineering Services

Butterfly Valve



“Compact Control. Smooth & Efficient Operation.”

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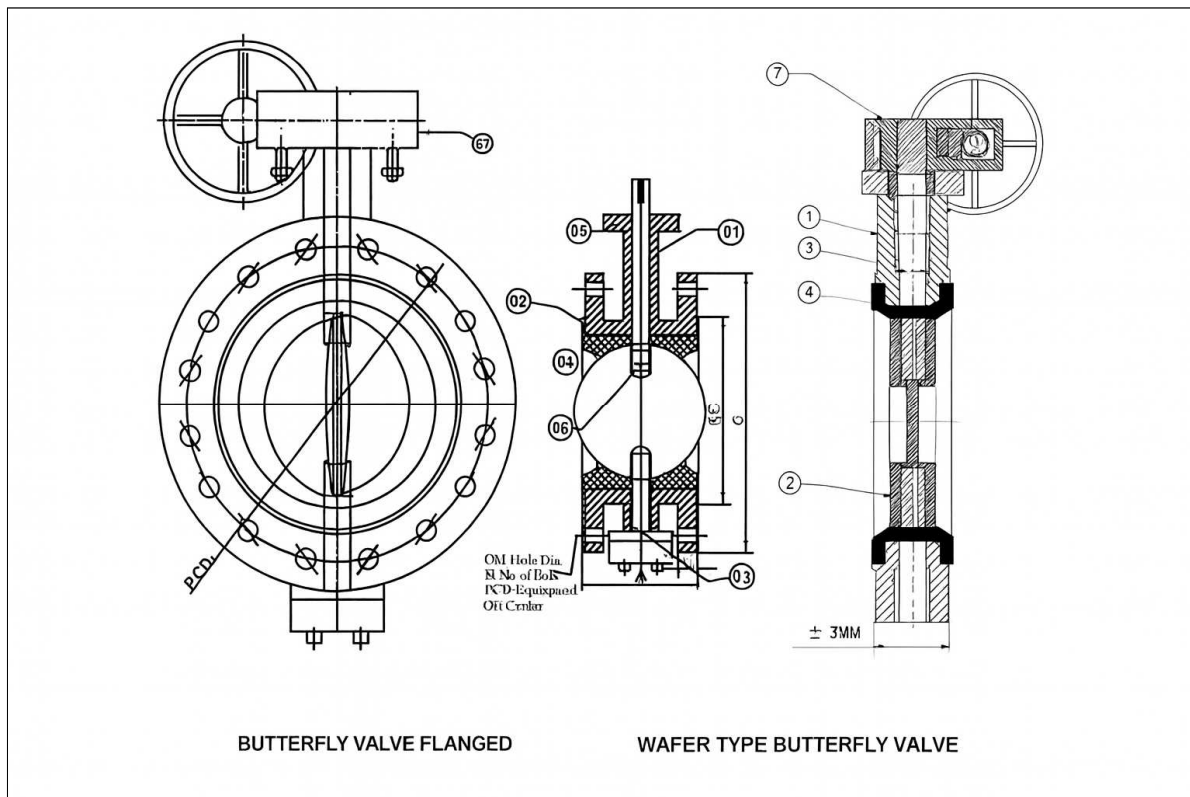
Butterfly Valve

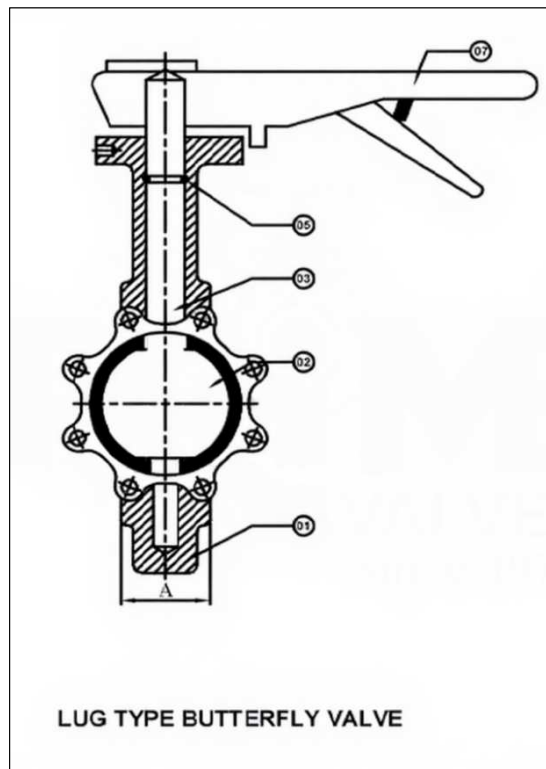
A butterfly valve is a type of valve used to control fluid flow through a pipe. It operates by rotating a disc or vane within the flow path, which can either allow or block the flow. The valve operates by turning the disc a quarter turn (90 degrees). This simple movement controls the flow of fluid through the pipe. The disc can be positioned to fully open, fully close, or partially open to regulate the flow.

Technical Data

Design & Manufacturing Std	API 609 / BS EN 593/BS 5155/IS 13095
Testing & Inspection Std	API 598 / BS EN 12266-1
Face to Face	API 609 CAT. B-A / BS EN 558/BS 6755 PART - I /IS3095
Flange Standard Conformity	ASME B16.5 150# RF
Top Mounting Flange	ISO 5211
Seat Leakage	Tight Shut Off

Components:





No.	Description	Material	Qty.
1	Body	C.I. / WCB / CF8 / CF8M / ALUMINUM	1
2	Disc	C.I. / WCB / CF8 / CF8M / ALUMINUM	1
3	Shaft	S.S.410 / S.S.304 / S.S.316	1
4	Seat	Nitrile / EPDM / Silicon / Viton / PTFE /GFT	1
5	"O" Ring	EPDM	1
6	HEX BOLT	S.S.304/S.S.316	1
7	Operation	Lever / Gear / PNEUMATIC / ELECTRICAL Actuator	1
8	Fastner	S.S 202/S.S.304	1
9	Retainer	M.S/CF8/CF8M	1

Flange Dimensions

Flanged Butterfly Valve

SR. NO.	Size	A	O.D.	THK	PCD	HOLE Ø	NO OF HOLE
1	50mm	108	150	16.3	120.7	19.5	4
2	65mm	112	180	17.9	139.7	19.5	4
3	80mm	114	190	19.5	152.4	19.5	4
4	100mm	127	230	24.3	190.5	19.5	8
5	125mm	140	255	24.3	215.9	22.2	8
6	150mm	140	280	25.9	241.3	22.2	8
7	200mm	152	345	29	298.5	22.2	8
8	250mm	165	405	30.6	362	25.4	12
9	300mm	178	483	32.2	431.8	25.4	12
10	350mm	190	535	35.4	476.3	28.6	12
11	400mm	216	595	37	539.8	28.6	16
12	450mm	222	635	40.1	577.9	31.8	16
13	500mm	229	700	43.3	635	31.8	20

(DIMENSIONS ABOVE 500 MM AVAILABLE ON REQUEST)

Spherical Butterfly Valve

All Dimensions Are In Mm Unless Otherwise Specified								Mounting Detail		
VALVE SIZE	A ±3	ØD ±5	ØE ±2	C	D	F ±5	G	H ±3	ØJ	K - PCD
40MM	42	82	37	45	82	48	11 x 11	15	Ø6.5	50
50MM	45	99	47	55	88	48	11 x 11	15	Ø6.5	50
65MM	48	120	60	63	101	48	11 x 11	15	Ø6.5	50
80MM	50	133	71.5	71	109	42	14 x 14	22	Ø6.5 & Ø8.5	50 & 70
100MM	55	159	95	82	131	42	14 x 14	22	Ø6.5 & Ø8.5	50 & 70
125MM	57	186	121	97	155	56	17 x 17	22	Ø8.5 & Ø11	70 & 102
150MM	58	212	143	109	164	56	17 x 17	25	Ø8.5 & Ø11	70 & 102
200MM	66	266	189	140	201	56	17 x 17	25	Ø8.5 & Ø11	70 & 102
250MM	74	326	239	172	228	92	27 x 27	30	Ø11 & Ø13	102 & 125
300MM	83	382	290	200	267	92	27 x 27	30	Ø11 & Ø13	102 & 125
350MM	92	432	340	223	308	92	27 x 27	30	Ø11 & Ø13	102 & 125
400MM	102	482	388	268	334	92	27 x 27	30	Ø11 & Ø13	102 & 125
450MM	114	522	430	286	370	92	36 x 36	45	Ø18 & Ø22	140 & 165
500MM	127	580	482	368	402	92	36 x 36	45	Ø18 & Ø22	140 & 165
600MM	154	695	546	400	474	140	46 x 46	40	Ø22	165

(DIMENSIONS ABOVE 600 MM AVAILABLE ON REQUEST)

No.	Description	Material	Qty.
1	Body	C.I / C.S / S.S.304 / S.S.316 / A105	1
2	Body Connector	C.I / C.S / S.S.304 / S.S.316 / A105	2
3	Ball	AISI 304 / AISI 316	1
4	Stem	AISI 304 / AISI 316	1
5	Gland Nut	AISI 304 / AISI 316	1
6	Gland Bush	AISI 304 / AISI 316	1
7	Lock Nut	AISI 304 / AISI 316	1
8	Seat Ring	PTFE	2
9	Stem Seal	PTFE	2
10	Body Seal Ring	PTFE	1
11	Wrench	C.S / S.S.304 / S.S.316	1
12	Stop	C.S / S.S.304 / S.S.316	1
13	Stopper Pin	C.S / S.S.304 / S.S.316	1
14	Stud & Nut	C.S / S.S.	-

Flange Dimensions

Flanged End – Class 150

Sr.No.	Size	A	B	ØC	ØD	ØM	N	PCD
1	15mm	108	10	35	89	16	4	60.4
2	20mm	118	10.5	43	98	16	4	69.8
3	25mm	127	11	51	108	16	4	79.2
4	32mm	140	12.7	64	117	16	4	88.9
5	40mm	165	14.2	73	127	16	4	98.5
6	50mm	178	15.7	92	152	19	4	120.6
7	65mm	191	17.5	105	178	19	4	139.7
8	80mm	203	19	127	190.5	19	4	152.4
9	100mm	229	24	157	229	19	8	190.5
10	125mm	254	24	186	254	22	8	215.9
11	150mm	267	25	216	279	22	8	241.3
12	200mm	292	28.5	270	343	22	8	298.4
13	250mm	330	30	324	406	25	12	362

(DIMENSIONS ABOVE 250 MM AVAILABLE ON REQUEST)

Flanged End – Class 300

Sr.No.	Size	A	B	ØC	ØD	ØM	N	PCD
1	15mm	140	14.2	35	95	16	4	66.5
2	20mm	152	15.7	43	117	19	4	82.5
3	25mm	165	17.5	51	124	19	4	88.9
4	32mm	178	19	64	133	19	4	98.5
5	40mm	191	20.5	73	155.5	22	4	114.3
6	50mm	216	22	92	165	19	8	127
7	65mm	241	25	105	190.5	22	8	149.3
8	80mm	283	28.5	127	209.5	22	8	168
9	100mm	305	32	157	254	22	8	200
10	125mm	381	35	186	279.4	22	8	235
11	150mm	403	36.5	216	317.5	22	12	269.7
12	200mm	419	41	270	381	25	12	330.2
13	250mm	457	47.5	324	444.5	28	16	387.4

(DIMENSIONS ABOVE 250 MM AVAILABLE ON REQUEST)

Lugged / Wafer Butterfly Valve

Sr. No.	Size	A
1	40mm	33.5
2	50mm	43.5
3	65mm	46
4	80mm	46
5	100mm	52
6	125mm	56
7	150mm	56
8	200mm	60
9	250mm	60
10	300mm	78
11	350mm	88
12	400mm	102
13	450mm	114
14	500mm	127
15	600mm	154

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Because these products may be used in a wide range of industrial processes and operating conditions, DECOEN Tech may provide general guidelines, but cannot offer specific information or warnings for every possible scenario. Therefore, the purchaser or end user bears the ultimate responsibility for the correct selection, sizing, installation, operation, and maintenance of the valves supplied through DECOEN Tech.

Users are strongly advised to read, understand, and follow the Installation, Operation, and Maintenance (IOM) manuals provided by the original manufacturer, and ensure that employees and contractors are properly trained in the safe handling and use of these products.

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