



AWWA C - 504 Butterfly Valve



Rubber Lined Butterfly Valve



High Performance Butterfly Valve



Triple Off Set Butterfly Valve

**"Butterfly
Valves...**
for optimized flow control solutions"

www.4maticvalvesusa.com



To Provide the Industry with
high quality &
Cost - Effective
products.

We persist on continuous improvement &
product innovation to keep
ourselves competent



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4Matic offers Resilient-seated, butterfly valve for flange mounting to pipelines; concentric disc design; with replaceable liner. Suitable for use in cooling towers, waste-water applications, water treatment, water distribution, dams, gas main and service lines, pressure stations, gas storage tanks, power plants and gas pipelines industry.



Size Range : 3" to 48"

Key Feature

- Integrally moulded seat liner on the body, which ensures excellent dimensional stability & guaranteed seat tightness.
- Seat liner extending on to the contact faces ensures perfect sealing and eliminates the need for separate flange gaskets.
- Narrow land disc ensures perfect sealing with least operating torque requirements.
- A fully universal body design ensures fitting of the valve between companion flanges of all popular standards (viz : ANSI, BS, DIN, JIS, IS etc.)
- The notch disc & band lever ensures locking of the valve in 8 intermediate position in addition to close and open position. Hand lever can be locked through pad lock.
- Body casting made of superior FG 260 grade cast iron to ensure additional strength.
- Valve disc made of stainless steel / ductile cast iron which enable protection against possible water hammer or pressure surges.
- A truly line size body bone to ensure maximum flow capacity with the lowest pressure drop.

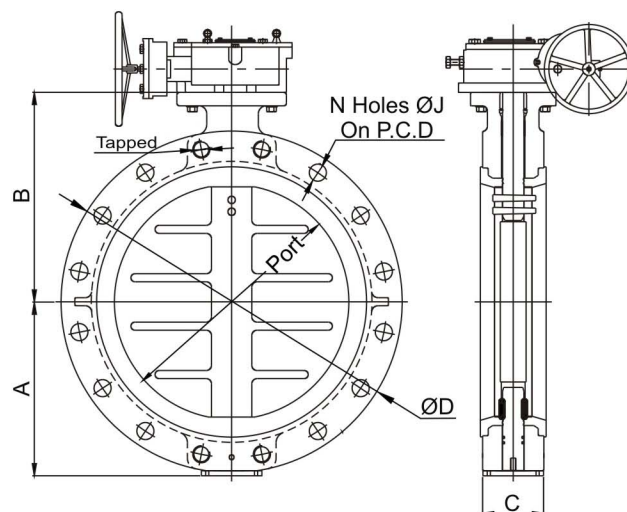
PRESSURE / TEMPERATURE RATING

PRESSURE	TEMPERATURE
PN 10 / PN 16 (PN 20 ON REQUEST)	-20 to 80 °C For Nitrile Seat Depending On MOC

TEST PRESSURE

TESTING	BODY	SEAT
HYDRAULIC	16 Kg/cm ²	10 Kg/cm ²

Note : (Valve F to F will be as per Wafer type)
(Flange Thickness As per Mfg. Std Wafer short Double Flange Body)



Dimensions :

(All Dimensions are in mm)

VALVE MODEL	VALVE SIZE		Port	A	B	C	ØD	N	ØJ	PCD
	MM	Inch								
4M-DF-ECO-80	80	3"	80	95	129	46	190	4	19.05	152.4
4M-DF-ECO-100	100	4"	100	113	147	52	230	8	19.05	190.5
4M-DF-ECO-150	150	6"	150	136	177	56	280	8	22.2	241.3
4M-DF-ECO-200	200	8"	200	174	214	60	345	8	22.2	298.5
4M-DF-ECO-250	250	10"	241	201	265	68	405	12	25.4	362
4M-DF-ECO-300	300	12"	286	236	303	78	485	12	25.4	431.8
4M-DF-ECO-350	350	14"	333	248	345	78	535	12	28.6	476.3
4M-DF-ECO-400	400	16"	382	300	364	102	595	16	28.6	539.8
4M-DF-ECO-450	450	18"	433	322	381	114	635	16	31.75	577.9
4M-DF-ECO-500	500	20"	476	354	436	127	700	20	31.75	635
4M-DF-ECO-600	600	24"	590	405	515	154	815	20	34.9	749.3
4M-DF-ECO-650	650	26"	635	435	490	165	870	24	34.9	806.4
4M-DF-ECO-700	700	28"	680	462	543	165	925	28	34.9	863.6
4M-DF-ECO-750	750	30"	725	482	576	190	985	28	34.9	914.4
4M-DF-ECO-800	800	32"	785	533	618	190	1060	28	41.3	977.9
4M-DF-ECO-900	900	36"	885	576	675	203	1170	32	41.3	1085.8
4M-DF-ECO-1000	1000	40"	965	640	720	216	1290	36	41.3	1200.2
4M-DF-ECO-1200	1200	48"	1170	750	865	254	1510	44	41.3	1422.4

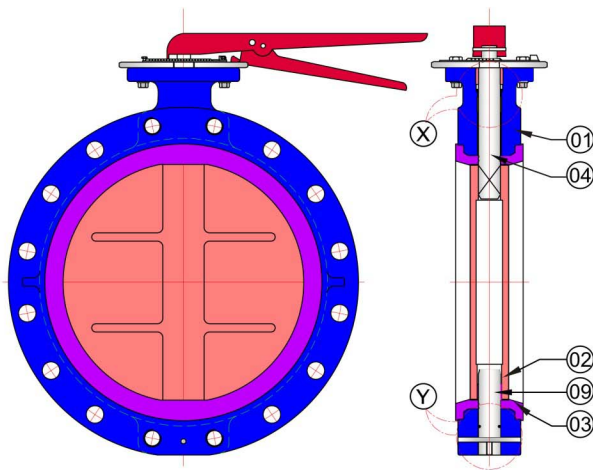
Dimensions :

(All Dimensions are in inch)

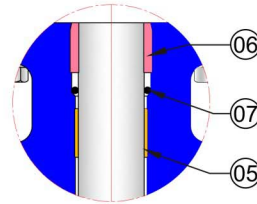
Port	A	B	C	ØD	N	ØJ	PCD	Tapped
3	3.80	5.16	1.84	7.60	4	0.76	6.10	----
4	4.52	5.88	2.08	9.20	8	0.76	7.62	----
6	5.44	7.08	2.24	11.20	8	0.89	9.65	----
8	6.96	8.56	2.40	13.80	8	0.89	11.94	----
9.64	8.04	10.60	2.72	16.20	12	1.02	14.48	----
11.44	9.44	12.12	3.12	19.40	12	1.02	17.27	----
13.32	9.92	13.80	3.12	21.40	12	1.14	19.05	----
15.28	12.00	14.56	4.08	23.80	16	1.14	21.59	----
17.32	12.88	15.24	4.56	25.40	16	1.27	23.12	1" UNC
19.04	14.16	17.44	5.08	28.00	20	1.27	25.40	1" UNC
23.6	16.20	20.60	6.16	32.60	20	1.40	29.97	1.1/4" UNC
25.4	17.40	19.60	6.60	34.80	24	1.40	32.26	1.1/4" UNC
27.2	18.48	21.72	6.60	37.00	28	1.40	34.54	1.1/4" UNC
29	19.28	23.04	7.60	39.40	28	1.40	36.58	1.1/4" UNC
31.4	21.32	24.72	7.60	42.40	28	1.65	39.12	1.1/2" UNC
35.4	23.04	27.00	8.12	46.80	32	1.65	43.43	1.1/2" UNC
38.6	25.60	28.80	8.64	51.60	36	1.65	48.01	1.1/2" UNC
46.8	30.00	34.60	10.16	60.40	44	1.65	56.90	1.1/2" UNC

Standard

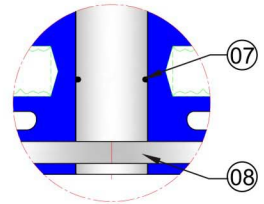
Design And Manufacturing	: API 609 category A / IS : 13095 / BS EN 593
Valve Face To Face Dimensions	: Short Wafer As Per ISO 5752 TAB 5 / API 609 Category A / ISO 5752 TAB 1 (BS 5155)
Flange Standard Conformity	: ASME B 16.5 / ASME B 16.47 Class 150, BS 10 TAB D, E & F
Inspection & Testing	: API 598 / BS EN 12266-1
Top Flange Drilling	: ISO 5211



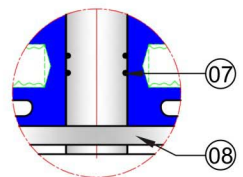
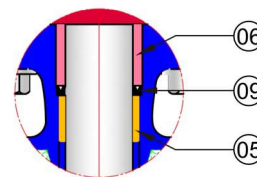
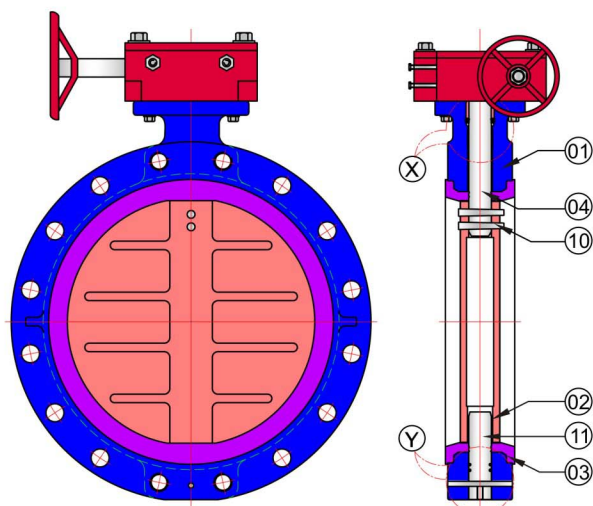
Detail : 'X'



Detail : 'Y'



No.	Description	Material	Qty.
1	Body	ASTM - A 126 Grade B (Gry Iron)	1
		ASTM - A 216 Grade WCB (Cast Steel)	
		ASTM - A 536 Grade 65-45-12 (Ductile Iron)	
		ASTM - A 351 Grade CF8 / CF8M / CF3M / CD4MCuN	
2	Disc	ASTM - A 126 Grade B (Gry Iron) + Powder Coated	1
		ASTM - A 216 Grade WCB (Cast Steel) + Powder Coated	
		ASTM - A 536 Grade 65-45-12 (Ductile Iron) + Powder Coated	
		ASTM - A 351 Grade CF8 / CF8M / CF3M / CD4MCuN	
3	Seat	S.G. Iron with Teflon / Powder / Nylon Coated & Rubber Line	1
4	Shaft	Nitrile / EPDM / Viton / Hypelon / Silicon / Neopren	1
5	Bearing Bush	AISI 410 / AISI 304 / AISI 316 / AISI 316L	2
6	Bush	Metal Bush PTFE Coated	1
7	'O' - Ring	PTFE (Teflon)	1
8	Dowel Pin	Nitrile / EPDM / Viton / Hypelon / Silicon / Neopren	2
9	Bottom Pin	M.S. / AISI 410 / AISI 304 / AISI 316 / AISI 316L	1



No.	Description	Material	Qty.
1	Body	ASTM - A 126 Grade B (Gry Iron)	1
		ASTM - A 216 Grade WCB (Cast Steel)	
		ASTM - A 536 Grade 65-45-12 (Ductile Iron)	
		ASTM - A 351 Grade CF8 / CF8M / CF3M / CD4MCuN	
2	Disc	ASTM - A 126 Grade B (Gry Iron) + Powder Coated	1
		ASTM - A 216 Grade WCB (Cast Steel) + Powder Coated	
		ASTM - A 536 Grade 65-45-12 (Ductile Iron) + Powder Coated	
		ASTM - A 351 Grade CF8 / CF8M / CF3M / CD4MCuN	
3	Seat	S.G. Iron with Teflon / Powder / Nylon Coated & Rubber Line	1
4	Shaft	Nitrile / EPDM / Viton / Hypelon / Silicon / Neopren	1
5	Bearing Bush	AISI 410 / AISI 304 / AISI 316 / AISI 316L	2
6	Bush	Metal Bush PTFE Coated	1
7	'O' - Ring	PTFE (Teflon)	1
8	Dowel Pin	Nitrile / EPDM / Viton / Hypelon / Silicon / Neopren	2
9	'V' Seal	MS / AISI 410 / 304 / 316 / 316L	1
10	Taper Pin	Nitrile / EPDM / Viton / Hypelon / Silicon / Neopren	2
11	Bottom Pin	AISI 410 / AISI 304 / AISI 316 / AISI 316L	1

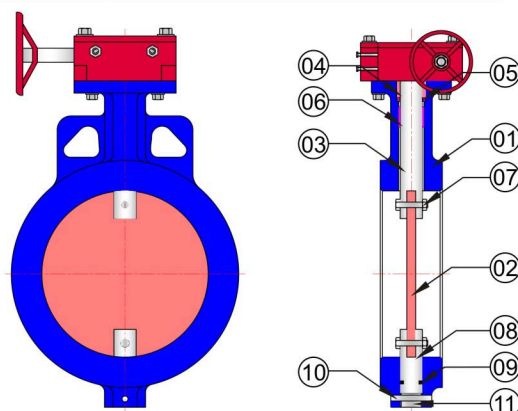
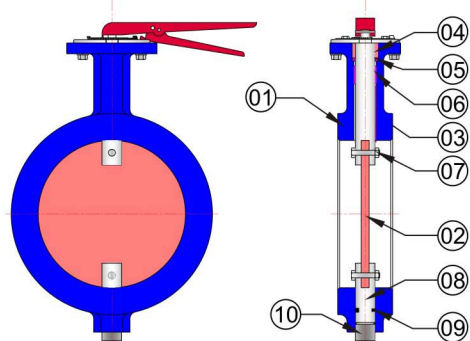
4Matic offers butterfly or wafer damper, can be a stack damper where sealing or tight shut-off is not all-important. This is used as an isolating damper for flue-gas scrubbers. The butterfly damper is lightweight, simple, quick actuated and often comparatively low in cost. In process work, oval shapes adapt to that shape of duct. Occasionally, a double-disc butterfly appears resembling a circular two-bladed louver damper. The drive for a butterfly damper is also simple, needing only 90° of motion. The torque requirement can vary widely over damper life, if corrosion and thermal effects are severe. Hand levers, Gear boxes are used to butterfly dampers.

Size Range : 2.1/2" to 20"



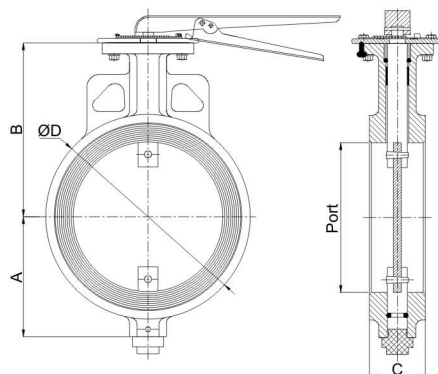
TEST PRESSURE		
TESTING	BODY	SEAT
HYDRAULIC	10 Kg/cm ²	5% Leakage

PRESSURE / TEMPERATURE	
Pressure Rating	PN 6 (Maximum)
Operating Temperature Range	-25 °C to 400 °C (Depending on MOC) Upto 600 °C (On Request)



No.	Description	Material	Qty.
1	Body	Gry Iron / C.S. / D.I. / CF8 / CF8M	01
2	Disc	C.S. / WCB / CF8 / CF8M	01
3	Shaft	AISI 410 / AISI 304 / AISI 316 / AISI 316L	01
4	Teflon Bush	Teflon	01
5	Graphoile Ring	Graphite	01
6	Bering Bush	Metal Bush PTFE Coated	01
7	Nut & Bolt	S.S. 202 / S.S. 304	02
8	Bottom Shaft	AISI 410 / AISI 304 / AISI 316 / AISI 316L	01
9	Graphoile Ring	Graphite	01
10	Dowel Pin	IS 2062 Gr. B	01
11	Bottom Cover	IS 2062 Gr. B	01

No.	Description	Material	Qty.
1	Body	Gry Iron / C.S. / D.I. / CF8 / CF8M	01
2	Disc	C.S. / WCB / CF8 / CF8M	01
3	Shaft	AISI 410 / AISI 304 / AISI 316 / AISI 316L	01
4	Teflon Bush	Teflon	01
5	Graphoile Ring	Graphite	01
6	Bering Bush	Metal Bush PTFE Coated	01
7	Nut & Bolt	S.S. 202 / S.S. 304	02
8	Bottom Shaft	AISI 410 / AISI 304 / AISI 316 / AISI 316L	01
9	Graphoile Ring	Graphite	01
10	Dowel Pin	IS 2062 Gr. B	01



Dimensions :		(All Dimensions are in mm)					
VALVE MODEL	VALVE SIZE		Port	A	B	C	ØD
	MM	Inch					
4M-WDV-40	40	1.1/2"	40	55.5	81.5	33.5	85
4M-WDV-50	50	2"	50	60.5	100	43.5	80
4M-WDV-65	65	2.1/2"	65	68	107.5	46	102
4M-WDV-80	80	3"	80	75.5	115	46	125
4M-WDV-100	100	4"	100	85.5	125	52	139
4M-WDV-125	125	5"	125	108.5	167.5	56	168
4M-WDV-150	150	6"	150	121	180	56	204
4M-WDV-200	200	8"	200	146	205	60	252
4M-WDV-250	250	10"	245	221	271	68	316
4M-WDV-300	300	12"	295	252	296	78	362
4M-WDV-350	350	14"	340	271	312	78	410
4M-WDV-400	400	16"	388	300	365	102	470
4M-WDV-450	450	18"	450	332	368	90	540
4M-WDV-500	500	20"	490	377	420	90	622

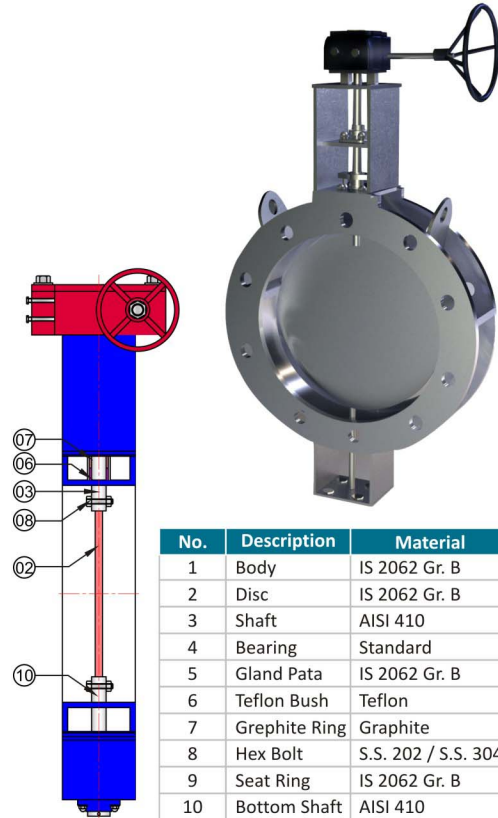
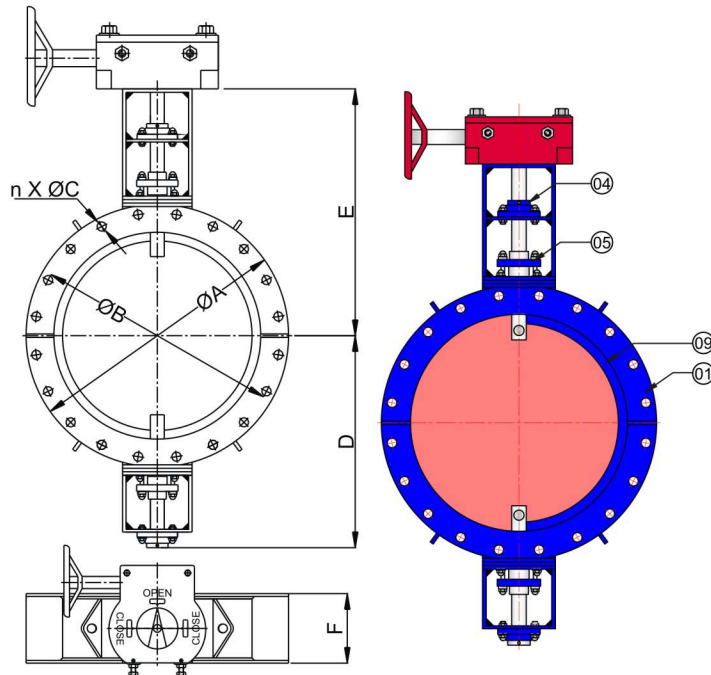
Dimensions : (All Dimensions are in inch)				
Port	A	B	C	ØD
1.6	2.22	3.26	1.34	3.4
2	2.42	4	1.74	3.2
2.6	2.72	4.3	1.84	4.08
3.2	3.02	4.6	1.84	5
4	3.42	5	2.08	5.56
5	4.34	6.7	2.24	6.72
6	4.84	7.2	2.24	8.16
8	5.84	8.2	2.4	10.08
9.8	8.84	10.84	2.72	12.64
11.8	10.08	11.84	3.12	14.48
13.6	10.84	12.48	3.12	16.4
15.52	12	14.6	4.08	18.8
18	13.28	14.72	3.6	21.6
19.6	15.08	16.8	3.6	24.88

Double Flange Fabricated Damper Valve

4Matic offers fabricated butterfly or wafer damper, can be a stack damper where sealing or tight shut-off is not all-important. This is used as an isolating damper for flue-gas scrubbers. The butterfly damper is lightweight, simple, quick actuated and often comparatively low in cost. In process work, oval shapes adapt to that shape of duct. Occasionally, a double-disc butterfly appears resembling a circular two-bladed louver damper. The drive for a butterfly damper is also simple, needing only 90° of motion. The torque requirement can vary widely over damper life, if corrosion and thermal effects are severe. Hand levers, Gear boxes are used to butterfly dampers.

Size Range : 8" to 80"

PRESSURE / TEMPERATURE	
Pressure Rating	5 Kg/cm ²
Operating Temperature Range	1200 °C (Depending on MOC)



No.	Description	Material	Qty.
1	Body	IS 2062 Gr. B	01
2	Disc	IS 2062 Gr. B	01
3	Shaft	AISI 410	01
4	Bearing	Standard	02
5	Gland Pata	IS 2062 Gr. B	02
6	Teflon Bush	Teflon	02
7	Graphite Ring	Graphite	02
8	Hex Bolt	S.S. 202 / S.S. 304	02
9	Seat Ring	IS 2062 Gr. B	02
10	Bottom Shaft	AISI 410	01

Dimensions : (All Dimensions are in mm)									
VALVE MODEL	VALVE SIZE		ØA	ØB	n	ØC	D	E	F
	MM	Inch							
AFT-MS-G-200	200	8"	320	280	8	18	340	440	150
AFT-MS-G-250	250	10"	375	335	12	18	366	466	150
AFT-MS-G-300	300	12"	440	395	12	22	398	498	150
AFT-MS-G-350	350	14"	490	445	16	22	450	550	150
AFT-MS-G-400	400	16"	540	495	16	22	450	550	150
AFT-MS-G-450	450	18"	595	550	16	22	478	578	150
AFT-MS-G-500	500	20"	645	600	20	22	502	602	200
AFT-MS-G-550	550	22"	749	692	20	22	610	710	200
AFT-MS-G-600	600	24"	755	705	20	26	610	710	200
AFT-MS-G-650	650	26"	785	744	20	26	635	735	200
AFT-MS-G-700	700	28"	860	810	24	26	610	710	200
AFT-MS-G-750	750	30"	887	846	24	26	633	723	200
AFT-MS-G-800	800	32"	975	920	24	30	678	768	200
AFT-MS-G-850	850	34"	1005	957	24	30	692	782	200
AFT-MS-G-900	900	36"	1075	1020	24	30	728	818	250
AFT-MS-G-1000	1000	40"	1175	1120	28	30	778	868	250
AFT-MS-G-1100	1100	44"	1276	1222	32	33	948	1038	250
AFT-MS-G-1200	1200	48"	1405	1340	32	33	1022	1112	250
AFT-MS-G-1400	1400	56"	1630	1560	36	36	1025	1095	300
AFT-MS-G-1600	1600	64"	1830	1760	40	36	1125	1195	300
AFT-MS-G-1800	1800	72"	2045	1970	44	39	1252	1302	300
AFT-MS-G-2000	2000	80"	2265	2180	48	42	1462	1562	300

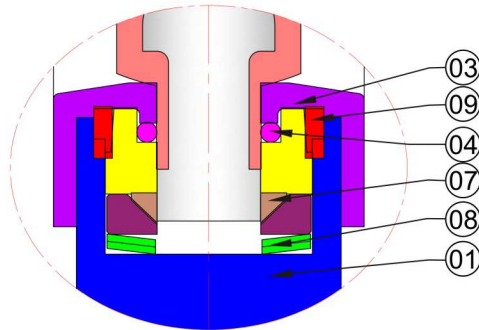
Dimensions : (All Dimensions are in Inch)											
VALVE MODEL	VALVE SIZE		ØA	ØB	n	ØC	D	E	F		
	MM	Inch									
AFT-MS-G-200	200	8"	12.8	11.2	8	0.72	13.6	17.6	6		
AFT-MS-G-250	250	10"	15	13.4	12	0.72	14.64	18.64	6		
AFT-MS-G-300	300	12"	17.6	15.8	12	0.88	15.92	19.92	6		
AFT-MS-G-350	350	14"	19.6	17.8	16	0.88	18	22	6		
AFT-MS-G-400	400	16"	21.6	19.8	16	0.88	18	22	6		
AFT-MS-G-450	450	18"	23.8	22	16	0.88	19.12	23.12	6		
AFT-MS-G-500	500	20"	25.8	24	20	0.88	20.08	24.08	8		
AFT-MS-G-550	550	22"	29.96	27.68	20	0.88	24.4	28.4	8		
AFT-MS-G-600	600	24"	30.2	28.2	20	1.04	24.4	28.4	8		
AFT-MS-G-650	650	26"	31.4	29.76	20	1.04	25.4	29.4	8		
AFT-MS-G-700	700	28"	34.4	32.4	24	1.04	24.4	28.4	8		
AFT-MS-G-750	750	30"	35.48	33.84	24	1.04	25.32	28.92	8		
AFT-MS-G-800	800	32"	39	36.8	24	1.2	27.12	30.72	8		
AFT-MS-G-850	850	34"	40.2	38.28	24	1.2	27.68	31.28	8		
AFT-MS-G-900	900	36"	43	40.8	24	1.2	29.12	32.72	10		
AFT-MS-G-1000	1000	40"	47	44.8	28	1.2	31.12	34.72	10		
AFT-MS-G-1100	1100	44"	51.04	48.88	32	1.32	37.92	41.52	10		
AFT-MS-G-1200	1200	48"	56.2	53.6	32	1.32	40.88	44.48	10		
AFT-MS-G-1400	1400	56"	65.2	62.4	36	1.4	41	43.8	12		
AFT-MS-G-1600	1600	64"	73.2	70.4	40	1.44	45	47.8	12		
AFT-MS-G-1800	1800	72"	81.8	78.8	44	1.56	50.08	52.08	12		
AFT-MS-G-2000	2000	80"	90.6	87.2	48	1.68	58.48	62.48	12		

4Matic offers PTFE (FEP / PFA) lined valves well suited for consistent performance requirements in highly corrosive applications involving chlorine, benzene, sulphuric acid nitric acid, phosphoric acid, hydrochloric acid and sea water. Virgin grade resins and thick fluoropolymer linings provide for superior resistance to corrosive chemical effects, absorption and swelling.

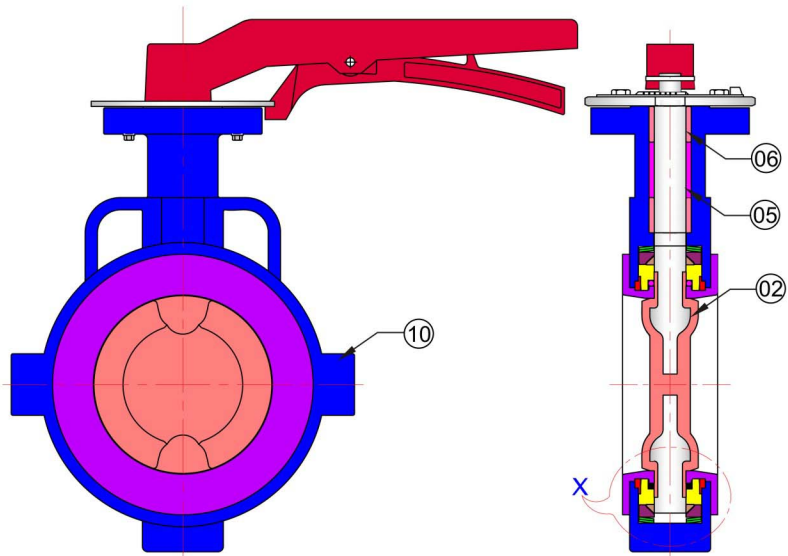


Standard

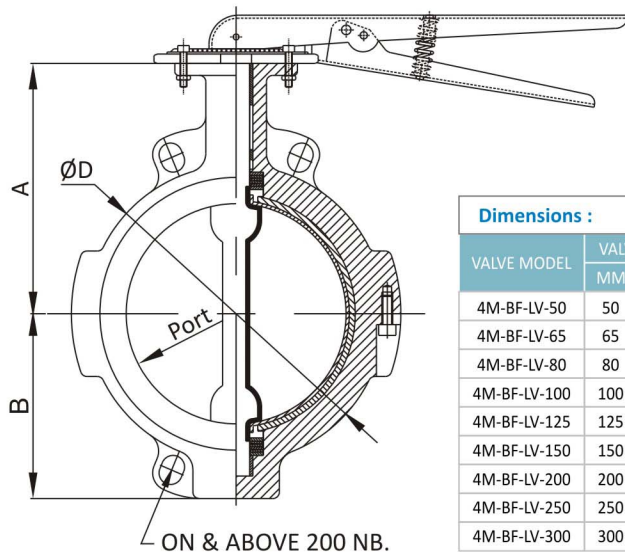
Design and manufacturing	: API 609 category A/BS 5155 / MSS SP-67 / C-504
Valve face to face dimensions	: Short wafer as per ISO 5752 Tab 5 / API 609 Category A
Top flanged drilling	: ISO 5211 Part II
Inspection and testing	: API 598 / BS 6755 / FCI-702
Flanged standard conformity	: ANSI 150, DIN PN 10 / 16



Details x



No.	Description	Material	Qty.
1	Body	C.I. / C.S. / CF8 / CF8M	01
2	Disc	C.I. / C.S. / CF8 / CF8M	01
3	Sleeve	FEP / PFA	01
4	'O' Ring	Viton	02
5	Bush	PTFE (Teflon)	02
6	Bush	Metal Bush S.S. 304	02
7	Truth Bush	S.S. 304	02
8	Washer	Spring Steel	04
9	Gasket	Silicon Big	02
10	L. N. Bolt	S.S. 304	02



Dimensions : (All Dimensions are in mm)							
VALVE MODEL	VALVE SIZE		Port	A	B	F to F	ØD
	MM	Inch					
4M-BF-LV-50	50	2"	48	107	65	44	101
4M-BF-LV-65	65	2.1/2"	62	118	65	46	112
4M-BF-LV-80	80	3"	78	122	83	46	130
4M-BF-LV-100	100	4"	98	153	98	52	163
4M-BF-LV-125	125	5"	ON REQUEST				
4M-BF-LV-150	150	6"	148	193	122	57	218
4M-BF-LV-200	200	8"	196	223	167	63	273
4M-BF-LV-250	250	10"	ON REQUEST				
4M-BF-LV-300	300	12"	291	217.3	244.5	78	380

Dimensions : (All Dimensions are in inch)				
Port	A	B	C	ØD
1.92	4.28	2.6	1.76	4.04
2.48	4.72	2.6	1.84	4.48
3.12	4.88	3.32	1.84	5.2
3.92	6.12	3.92	2.08	6.52
ON REQUEST				
5.92	7.72	4.88	2.28	8.72
7.84	8.92	6.68	2.52	10.92
ON REQUEST				
11.64	10.86	9.78	3.12	15.2

Double Eccentric Design Off - Set Disc "Wafer" Type Butterfly Valve

4Matic offers Manual Worm Gear / Lever Operated Off - Set Disc Butterfly Valve "WAFER" type Construction engineered for multipl ON/OFF Operation in the large Pipe line and full flow down Stream.

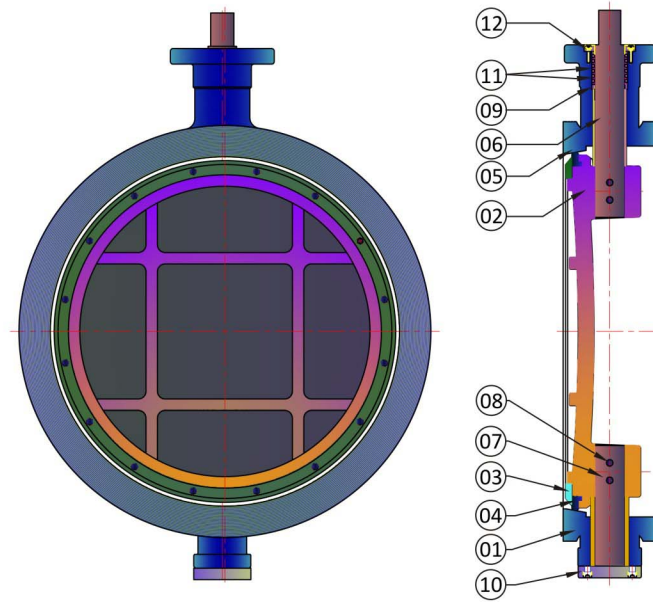
Size Range : 2.1/2" to 48"

Standard

Design And Manufacturing	: API 609 Category "B" / MSS SP - 68
Valve Face to Face Dimensions	: API 609 Category "B" / ISO 5752 / MSS SP-68
Flange Standard Conformity	: ASME B 16.5 Class 150 ASME B 16.47Series "A" Class 150
Inspection & Testing	: API 598
Pressure Temperature Rating	: ASME B16.34
Top Flange Dimensions	: Bolt Hole ISO 5211
Stem Dimensions	: Square Drive to ISO 5211
Leakage Class	: Class VI as per ANSI B 16, 16.104



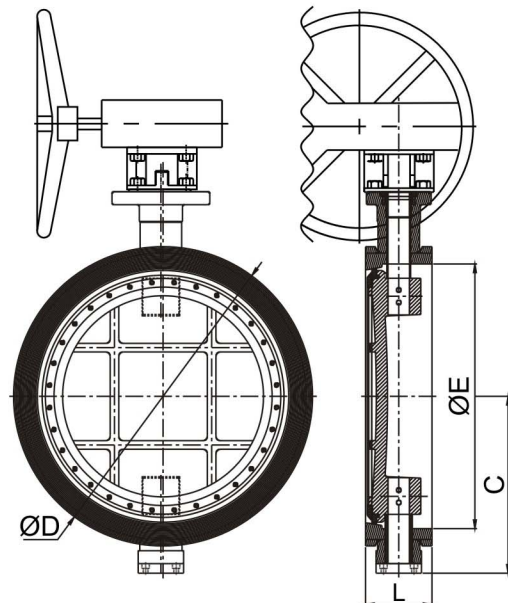
609 - 0055



PRESSURE / TEMPERATURE RATING

PRESSURE RATING	150# (PN 10 / PN 16 / PN 25)
OPERATING TEMPERATURE	NBR - -10 °C TO +90 °C / EPDM - -20 °C TO +120 °C VITON - 0 °C TO +220 °C / PTFE - -25 °C TO +180 °C RPTFE - -25 °C TO +220 °C / FTM -25 °C TO +250 °C

No.	Description	Material	Qty.
1	Body	C.I. / WCB / CF8 / CF8M / D.I.	1
2	Disc	C.I. / WCB / CF8 / CF8M / D.I.	1
3	Retainer	M.S. / CF8 / CF8M	1
4	Disc Seal Ring	PTFE / RPTFE / NBR / EPDM / Viton	1
5	Body Seal Ring	S.S. 304 / 316	1
6	Shaft	S.S. 304 / 316 / 410	1
7	Stem Shaft	S.S. 304 / 316 / 410	1
8	Disc Pin	S.S. 304 / 316 / 410	4
9	Flange Side Washer	S.S. 304 / 316 / 410	1
10	Stem Square	M.S. / CF8 / CF8M	1
11	Gland Seal Set	PTFE / NBR / EPDM / Viton	5
12	Gland Plate	M.S. / CF8 / CF8M	1



Dimensions :

(All Dimensions are in mm)

VALVE MODEL	VALVE SIZE		L	ØD	ØE	C
	MM	Inch				
4M-BOD-100	100	4"	54	158	110	96
4M-BOD-125	125	5"	56	185.87	120	112
4M-BOD-150	150	6"	57	216	152	115
4M-BOD-200	200	8"	64	270	200	141
4M-BOD-250	250	10"	72	325	255	179
4M-BOD-300	300	12"	81	373	306	210
4M-BOD-350	350	14"	92	412	355	234
4M-BOD-400	400	16"	102	472	400	275
4M-BOD-450	450	18"	114	532	450	327.5
4M-BOD-500	500	20"	127	584	505	359
4M-BOD-600	600	24"	154	692.2	612	409
4M-BOD-650	650	26"	165	749.3	640	640
4M-BOD-700	700	28"	165	800.1	705	500
4M-BOD-750	750	30"	190	857.25	725	571
4M-BOD-800	800	32"	190	915	810	630
4M-BOD-850	850	34"	205	965.2	850	655.5
4M-BOD-900	900	36"	205	1022.35	900	680
4M-BOD-1000	1000	40"	300	1124	1000	735
4M-BOD-1200	1200	48"	350	1359	1200	915

(All Dimensions are in Inch)

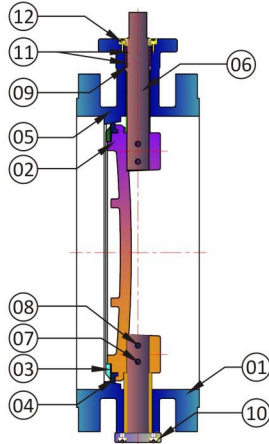
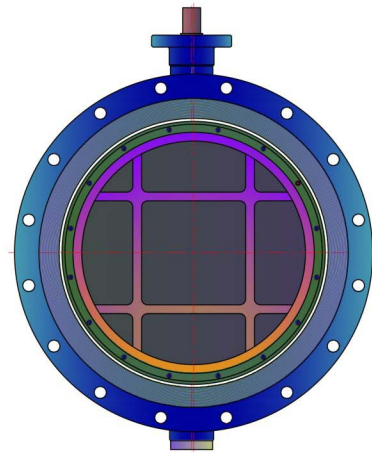
L	ØD	ØE	C
2.16	6.32	4.4	3.84
2.24	7.4348	4.8	4.48
2.28	8.64	6.08	4.6
2.56	10.8	8	5.64
2.88	13	10.2	7.16
3.24	14.92	12.24	8.4
3.68	16.48	14.2	9.36
4.08	18.88	16	11
4.56	21.28	18	13.1
5.08	23.36	20.2	14.36
6.16	27.688	24.48	16.36
6.6	29.972	25.6	25.6
6.6	32.004	28.2	20
7.6	34.29	29	22.84
7.6	36.6	32.4	25.2
8.2	38.608	34	26.22
8.2	40.894	36	27.2
12	44.96	40	29.4
14	54.36	48	36.6

Double Eccentric Design Off - Set Disc Double Flange Butterfly Valve 150# / 300# / 600#

4Matic offers Double-offset flanged butterfly valve (resilient-seated), available with long or short face-to-face length for use in most common flow control applications. Long service life, as the media does not come into contact with the bearing, and due to the wear-resistant, corrosion and infiltration-proof seat with weld overlay. Suitable for use water distribution, water treatment, pre-treated waste water, dams, power plants, industry and pressure management.



609 - 0055



Size Range : 2.1/2" to 48"

Standard

Design And Manufacturing	: API 609 / BS 5155 / BSEN 593 / IS 13095 / AWWA C-504
Valve Face to Face Dimensions	: API 609 (Short Pattern) / BS 5155 (Short Pattern) / IS 13095 (Short Pattern) / AWWA C - 504 (Short Pattern)
Flange Standard Conformity	: ASME B16.5 Class 150 (Upto 24") / ASME B16.47 Series "A" Class 150 (Above 26" to 48") AWWA C-207, IS1538, BS5404, IS 6392
Inspection & Testing	: API 598 / BS 6755 / AWWA C - 504
Pressure Temperature Rating	: ASME B16.34
Top Flange Dimensions	: Bolt Hole ISO 5211
Stem Dimensions	: Square Drive To ISO 5211
Leakage Class	: Class VI As Per ASME B 16, 16.104

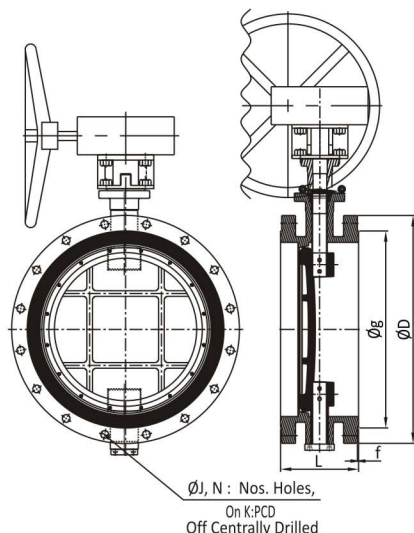
Note.: For, Sea Water Application, Ebonite Lining On Request.

PRESSURE / TEMPERATURE RATING	
PRESSURE RATING	150# (PN 10 / PN 16 / PN 25)
OPERATING TEMPERATURE	NBR - -10 °C TO +90 °C / EPDM - -20 °C TO +120 °C
	VITON - 0 °C TO +220 °C / PTFE - -25 °C TO +180 °C
	RPTFE - -25 °C TO +220 °C / TFM -25 °C TO +250 °C

No.	Description	Material	Qty.
1	Body	C.I. / WCB / CF8 / CF8M / D.I	01
2	Disc	WCB / CF8 / CF8M / D.I	01
3	Retainer	M.S. / CF8 / CF8M	01
4	Disc Seal Ring	RPTFE / PTFE / NBR / EPDM / Viton	01
5	Body Seat Ring	S.S. 304 / 316	01
6	Shaft	S.S. 304 / 316 / 410	01
7	Stem Shaft	S.S. 304 / 316 / 410	01
8	Disc Pin	S.S. 304 / 316 / 410	04
9	Flange Side Washer	S.S. 304 / 316 / 410	01
10	Stem Square	M.S. / CF8 / CF8M	01
11	Gland Seal Set	PTFE / NBR / EPDM / Viton / RPTFE	05
12	Gland Plate	M.S. / CF8 / CF8M	01

Notes :
300# & 600# Dimension will be on request.

Notes :
We Have Successfully Carried Out Proof of Design Test on these Rubber Seated Butterfly Valve as per AWWA C - 504



Dimensions :

(All Dimensions are in mm)

(All Dimensions are in Inch)

VALVE MODEL	MM	Inch	L (API-609)	ØD	Øg	f	ØJ	N	K:PCD	L (API-609)	ØD	Øg	ØJ	K:PCD
4MBOD - 65	65	2.1/2"	112	180	104.8	2	19.05	4	139.7	4.48	7.2	4.192	0.762	5.588
4MBOD - 80	80	3"	114	190	127	2	19.05	4	152.4	4.56	7.6	5.08	0.762	6.096
4MBOD - 100	100	4"	127	230	157.2	2	19.05	8	190.5	5.08	9.2	6.288	0.762	7.62
4MBOD - 125	125	5"	140	255	185.7	2	22.2	8	215.9	5.6	10.2	7.428	0.888	8.636
4MBOD - 150	150	6"	140	280	215.9	2	22.2	8	241.3	5.6	11.2	8.636	0.888	9.652
4MBOD - 200	200	8"	152	345	269.9	2	22.2	8	298.5	6.08	13.8	10.796	0.888	11.94
4MBOD - 250	250	10"	165	405	323.8	2	25.4	12	362	6.6	16.2	12.952	1.016	14.48
4MBOD - 300	300	12"	178	485	381	2	25.4	12	431.8	7.12	19.4	15.24	1.016	17.272
4MBOD - 350	350	14"	190	535	412.8	2	28.6	12	476.3	7.6	21.4	16.512	1.144	19.052
4MBOD - 400	400	16"	216	595	469.9	2	28.6	16	539.8	8.64	23.8	18.796	1.144	21.592
4MBOD - 450	450	18"	222	635	533.4	2	31.75	16	577.9	8.88	25.4	21.336	1.27	23.116
4MBOD - 500	500	20"	229	700	584.2	2	31.75	20	635	9.16	28	23.368	1.27	25.4
4MBOD - 600	600	24"	267	815	692.2	2	34.9	20	749.3	10.68	32.6	27.688	1.396	29.972
4MBOD - 650	650	26"	292	870	749	2	34.9	24	806.4	11.68	34.8	29.96	1.396	32.256
4MBOD - 700	700	28"	292	925	800	2	34.9	28	863.6	11.68	37	32	1.396	34.544
4MBOD - 750	750	30"	318	985	857	2	34.9	28	914.4	12.72	39.4	34.28	1.396	36.576
4MBOD - 800	800	32"	318	1060	914	2	41.3	28	977.9	12.72	42.4	36.56	1.652	39.116
4MBOD - 850	850	34"	324	1110	965	2	41.3	32	1028.7	12.96	44.4	38.6	1.652	41.148
4MBOD - 900	900	36"	330	1170	1022	2	41.3	32	1085.8	13.2	46.8	40.88	1.652	43.432
4MBOD - 1000	1000	40"	410	1290	1124	2	42.3	36	1200.2	16.4	51.6	44.96	1.652	48.008
4MBOD - 1050	1050	42"	410	1345	1194	2	41.3	36	1257.3	16.4	53.8	47.76	1.652	50.292
4MBOD - 1200	1200	48"	470	1510	1359	2	41.3	44	1422.4	18.8	60.4	54.36	1.652	56.896

Double Eccentric Design Off - Set Disc Double Flange Butterfly Valve

Dimensions :			PN 10 (All Dimensions are in mm)						
VALVE MODEL	VALVE SIZE		L (API 609)	ØD	Øg	f	ØJ	N	K:PCD
	MM	Inch							
4MBOD - 80	80	3"	114	200	133	3	18	4	160
4MBOD - 100	100	4"	127	220	153	3	19	8	180
4MBOD - 150	150	6"	140	285	209	3	23	8	240
4MBOD - 200	200	8"	152	340	264	3	23	8	295
4MBOD - 250	250	10"	165	395	319	3	23	12	350
4MBOD - 300	300	12"	178	445	367	4	23	12	400
4MBOD - 350	350	14"	190	505	427	4	23	16	460
4MBOD - 400	400	16"	216	565	477	4	28	16	515
4MBOD - 450	450	18"	222	615	527	4	28	20	565
4MBOD - 500	500	20"	229	670	582	4	28	20	620
4MBOD - 600	600	24"	267	780	682	5	31	20	725
4MBOD - 650	650	26"	NA	NA	NA	NA	NA	NA	NA
4MBOD - 700	700	28"	292	895	797	5	31	24	840
4MBOD - 750	750	30"	318	960	857	5	31	24	900
4MBOD - 800	800	32"	318	1015	904	5	34	24	950
4MBOD - 900	900	36"	330	1115	1004	5	34	28	1050
4MBOD - 1000	1000	40"	410	1230	1111	5	36	28	1160
4MBOD - 1200	1200	48"	470	1455	1328	5	40	32	1380

Dimensions : (All Dimensions are in Inch)				
L (API 609)	ØD	Øg	ØJ	K:PCD
4.56	8	5.32	0.72	6.4
5.08	8.8	6.12	0.76	7.2
5.6	11.4	8.36	0.92	9.6
6.08	13.6	10.56	0.92	11.8
6.6	15.8	12.76	0.92	14
7.12	17.8	14.68	0.92	16
7.6	20.2	17.08	0.92	18.4
8.64	22.6	19.08	1.12	20.6
8.88	24.6	21.08	1.12	22.6
9.16	26.8	23.28	1.12	24.8
10.68	31.2	27.28	1.24	29
NA	NA	NA	NA	NA
11.68	35.8	31.88	1.24	33.6
12.72	38.4	34.28	1.24	36
12.72	40.6	36.16	1.36	38
13.2	44.6	40.16	1.36	42
16.4	49.2	44.44	1.44	46.4
18.8	58.2	53.12	1.6	55.2

Dimensions :			PN 16 (All Dimensions are in mm)						
VALVE MODEL	VALVE SIZE		L (API 609)	ØD	Øg	f	ØJ	N	K:PCD
	MM	Inch							
4MBOD - 65	65	2.1/2"	112	185	122	3	18	4	145
4MBOD - 80	80	3"	114	200	138	3	18	8	160
4MBOD - 100	100	4"	127	220	158	3	18	8	180
4MBOD - 150	150	6"	140	285	212	3	22	8	240
4MBOD - 200	200	8"	152	340	268	3	22	12	295
4MBOD - 250	250	10"	165	405	320	3	26	12	355
4MBOD - 300	300	12"	178	460	378	4	26	12	410
4MBOD - 350	350	14"	190	520	438	4	26	16	470
4MBOD - 400	400	16"	216	580	490	4	30	16	525
4MBOD - 450	450	18"	222	640	490	4	30	20	585
4MBOD - 500	500	20"	229	715	610	4	33	20	650
4MBOD - 600	600	24"	267	840	725	5	36	20	770
4MBOD - 650	650	26"	NA	NA	NA	NA	NA	NA	NA
4MBOD - 700	700	28"	292	910	795	5	36	24	840
4MBOD - 750	750	30"	NA	NA	NA	NA	NA	NA	NA
4MBOD - 800	800	32"	318	1025	900	5	39	24	950
4MBOD - 900	900	36"	330	1125	1000	5	39	28	1050
4MBOD - 1000	1000	40"	410	1255	1115	5	42	28	1170
4MBOD - 1200	1200	48"	470	1485	1330	5	48	32	1390

Dimensions : (All Dimensions are in Inch)				
L (API 609)	ØD	Øg	ØJ	K:PCD
4.48	7.4	4.88	0.72	---
4.56	8	5.52	0.72	6.4
5.08	8.8	6.32	0.72	7.2
5.6	11.4	8.48	0.88	9.6
6.08	13.6	10.72	0.88	11.8
6.6	16.2	12.8	1.04	14.52
7.12	18.4	15.12	1.04	16.4
7.6	20.8	17.52	1.04	18.8
8.64	23.2	19.6	1.2	21
8.88	25.6	19.6	1.2	23.4
9.16	28.6	24.4	1.32	26
10.68	33.6	29	1.44	30.8
NA	NA	NA	NA	NA
11.68	36.4	31.8	1.44	33.6
NA	NA	NA	NA	NA
12.72	41	36	1.56	38
13.2	45	40	1.56	42
16.4	50.2	44.6	1.68	46.8
18.8	59.4	53.2	1.92	55.6

Dimensions :			AWWA C - 504			(All Dimensions are in mm)		
VALVE MODEL	VALVE SIZE		L (AWWA C - 504)	ØD	b	ØJ	N	K:PCD
	MM	Inch						
4MBOD - 65	65	2.1/2"	127	180	16	19.5	4	139.7
4MBOD - 80	80	3"	127	190	16	19.5	4	152.4
4MBOD - 100	100	4"	127	228.6	16	19.5	8	190.5
4MBOD - 125	125	5"	127	254	16	19.5	8	215.9
4MBOD - 150	150	6"	127	279.4	17.5	22.35	8	241.3
4MBOD - 200	200	8"	152	343	17.5	22.35	8	298.45
4MBOD - 250	250	10"	203	406.4	17.5	25.4	12	361.95
4MBOD - 300	300	12"	203	482.6	20.6	25.4	12	431.8
4MBOD - 350	350	14"	203	533.4	23.8	28.45	12	476.25
4MBOD - 400	400	16"	203	596.9	25.5	28.45	16	539.75
4MBOD - 450	450	18"	203	635	27	31.75	16	577.85
4MBOD - 500	500	20"	203	598.5	28.5	31.75	20	635
4MBOD - 600	600	24"	203	812.8	30.2	35.05	20	749.3
4MBOD - 650	650	26"	305	869.9	31.5	35.05	24	806.45
4MBOD - 700	700	28"	305	927.1	35.5	35.05	28	863.6
4MBOD - 750	750	30"	305	984.25	35.5	35.05	28	914.4
4MBOD - 800	800	32"	305	1060.45	38	41.15	28	977.9
4MBOD - 850	850	34"	305	1111.25	38	41.15	32	1028.7
4MBOD - 900	900	36"	305	1168.4	41	41.15	32	1085.85
4MBOD - 1000	1000	40"	305	1289	41	41.15	32	1200.15
4MBOD - 1050	1050	42"	305	1346.2	44.5	41.15	32	1257.3
4MBOD - 1200	1200	48"	381	1511.3	47.5	41.15	46	1422.4

Dimensions : (All Dimensions are in Inch)				
L (AWWA C - 504)	ØD	b	ØJ	K:PCD
5.08	7.2	0.64	0.78	5.588
5.08	7.6	0.64	0.78	6.096
5.08	9.144	0.64	0.78	7.62
5.08	10.16	0.64	0.78	8.636
5.08	11.176	0.7	0.894	9.652
6.08	13.72	0.7	0.894	11.938
8.12	16.256	0.7	1.016	14.478
8.12	19.304	0.824	1.016	17.272
8.12	21.336	0.952	1.138	19.05
8.12	23.876	1.02	1.138	21.59
8.12	25.4	1.08	1.27	23.114
8.12	23.94	1.14	1.27	25.4
8.12	32.512	1.208	1.402	29.972
12.2	34.796	1.26	1.402	32.258
12.2	37.084	1.42	1.402	34.544
12.2	39.37	1.42	1.402	36.576
12.2	42.418	1.52	1.646	39.116
12.2	44.45	1.52	1.646	41.148
12.2	46.736	1.64	1.646	43.434
12.2	51.56	1.64	1.646	48.006
12.2	53.848	1.78	1.646	50.292
15.24	60.452	1.9	1.646	56.896

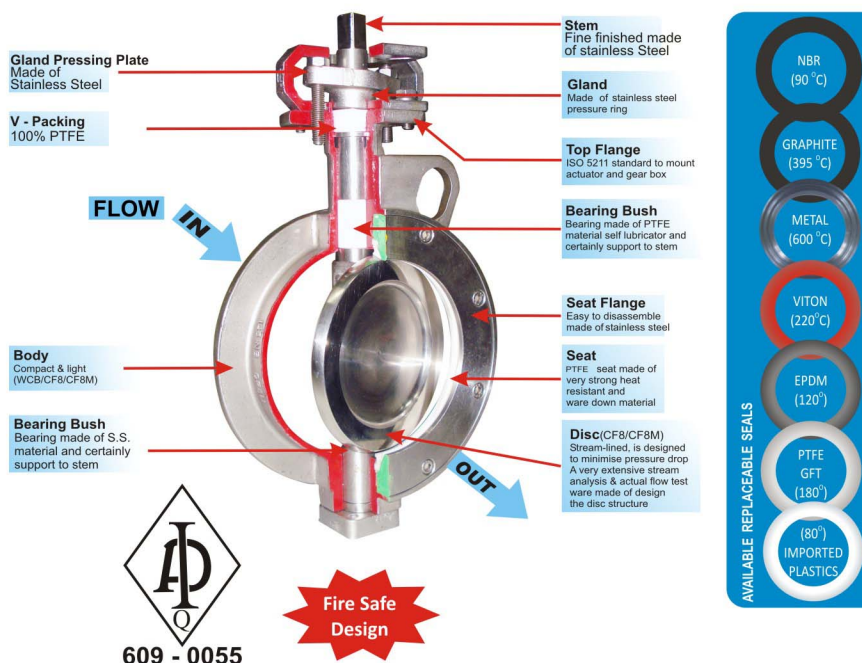
4Matic offers High performance butterfly valves for bi-directional* shut-off and modulating service for standard industrial process lines. Materials of construction options include Carbon Steel, Stainless Steels, Duplex Grade Steel and high quality custom materials for desired applications.

Special Feature

- Compact Design - Full Port - Offers Mass Flow
- Simple Structure, Light & Smooth - Takes Very Short Time For Opening & Closing with Very Low Torque
- Easy Maintenance - Replaceable Seals Design
- Self Sealing - Self Cleaning The Under Cut Disc Segment And Seal Tends To Wipe Away The Material Form The Sealing Area,
- Gland Pressing Plate - Ensure Compete Utilization of Gland Seals

Application

Hygienic Powder & Slurries, especially in Pharmaceutical Industries.
Chemical and Dyeing Fluids in Textile Processing
Brine Waters & Oils.
Steam Lines, Air / Gas Lines / Vacuum.



Spherical Disc Valve has been Proved as Superior to Other Valves in Many Aspects, Particularly in...

- Weight
- Space
- Pressure Range
- Multiple Operations
- Maintenance Ease
- Torque & Economy

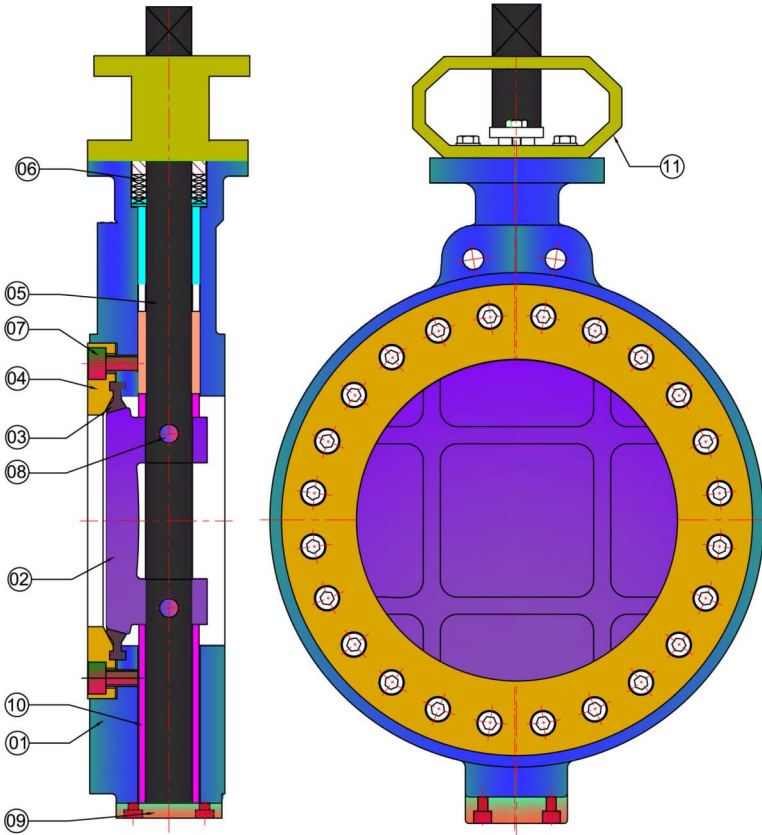
Spherical Disc Valve	Technical Specifications :
Size Range	1.1/2" to 36"
Construction Type	Double Eccentric Disc Design
Body	WCB / CF8 / CF8M
Disc	CF8 / CF8M
Seat	PTFE (available EPDM / Metal to Metal)
Shaft	AISI 410 / 304 / 316
Plate Mounting	Namur Standard
Pressure Rating	ANSI 150 Class
End Connection	ANSI 300 / 600 Class
	Wafer Sandwiched
	Lug Type
Operating Temp. Range	-25 °C to 180 °C (Soft Seating)
	-25 °C to 600 °C (Metal to Metal Seating)
Operating	Hand Lever, Worm Gear Box,

CV Value in GPM		
VALVE SIZE	CV Full Open 90°	Class 150
MM	Inch	(GPM)
40	1.1/2"	70
50	2"	92
65	2.1/2"	150
80	3"	260
100	4"	460
125	5"	760
150	6"	1350
200	8"	2200
250	10"	3200
300	12"	4700
350	14"	5800
400	16"	8000
450	18"	10500
500	20"	14000
600	24"	21000
650	26"	23400
700	28"	27000
750	30"	33300
800	32"	40200
900	36"	56500

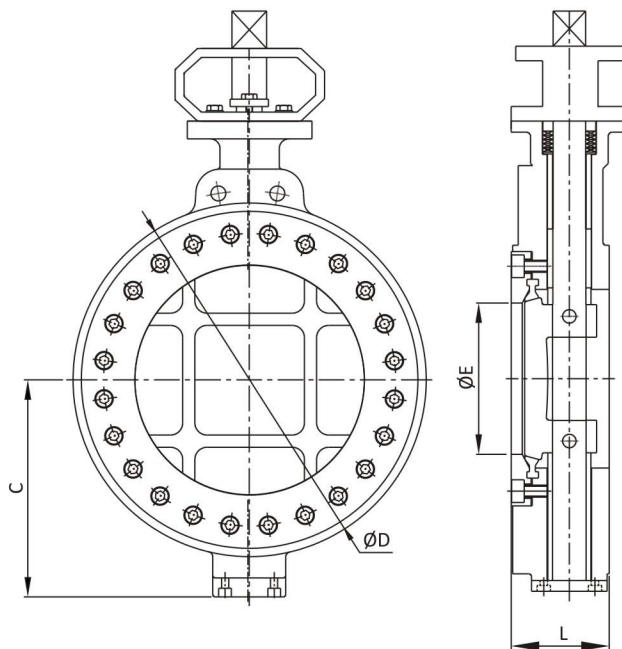
CV Value in GPM				
VALVE SIZE	Differential Pressure (AP)			
MM	Inch	5 Kg/cm ²	10 Kg/cm ²	15 Kg/cm ²
40	1.1/2"	0.8	1.0	1.2
50	2"	0.9	1.2	1.5
65	2.1/2"	1.6	2.2	2.4
80	3"	3.0	3.4	4.2
100	4"	4.0	4.6	5.4
125	5"	5.8	8.0	9.5
150	6"	9.0	11.5	12.5
200	8"	14.0	17.5	24.0
250	10"	23.5	26.5	28.0
300	12"	32.0	36.0	40.0
350	14"	50.0	65.0	83.5
400	16"	69.4	94.5	120.0
450	18"	95.5	128.0	157.2
500	20"	122.5	193.3	210.0
600	24"	213.3	293.4	366.7
650	26"	265	350	400
700	28"	300	395	480
750	30"	321	420	519
800	32"	481	630	780
900	36"	518	663	850

Standards	Series 5150 (40 NB To 600 NB)	Series 6150 (650 NB To 1200 NB)
Design and manufacturing	API 609 Category B	MSS SP - 68
Valve face to face dimensions	API 609 Category B / ANSI B 16.10	ISO 5752 Series 20, MSS SP - 68
Flange Standard conformity	ANSI B 16.5 Class 150	ASME / ANSI B 16.47 Series 'A'
Inspection & testing Standard	API 598 / ANSI FCI 70 - 2	API 598 / BS 6755
Fire safe testing	API 607	API 607
Pressure temperature rating	ASME / ANSI B 16.34	ASME / ANSI B 16.34

High Performance Butterfly Valve Spherical Disc Valve



No.	Description	Material
1	Body	ASTM A 216 Gr. WCB A 351 Gr. CF8 / CF8M
2	Disc	ASTM A 351 Gr. CF8 / CF8M
3	Replaceable Seat	PTFE / GFT
4	Retainer	M.S. / S.S. 304 / 316
5	Shaft	S.S. 410 / S.S. 304 / 316
6	Gland Packing	PTFE / GFT
7	Retainer Bolt	S.S.
8	Disc Pin	S.S. 304 / 316
9	Steam Plate	M.S. / S.S. 304 / 316
10	Shaft Bush	M.S. / S.S. 304 / 316
11	Bracket	M.S.



Dimensions : (All Dimensions are in mm)							(All Dimensions are in Inch)			
VALVE MODEL	VALVE SIZE		L	C	ØE	ØD	L	C	ØE	ØD
	MM	Inch								
4M-SDV-40	40	1.6	42	57	38	82	1.68	2.28	1.52	3.28
4M-SDV-50	50	2	45	68.5	50.8	95	1.8	2.74	2.032	3.8
4M-SDV-65	65	2.6	48	74.5	60.6	108	1.92	2.98	2.424	4.32
4M-SDV-80	80	3.2	48	80	72	127	1.92	3.2	2.88	5.08
4M-SDV-100	100	4	54	96	100	159	2.16	3.84	4	6.36
4M-SDV-125	125	5	57	117	123	186	2.28	4.68	4.92	7.44
4M-SDV-150	150	6	57	132	143	217	2.28	5.28	5.72	8.68
4M-SDV-200	200	8	64	157	192	270	2.56	6.28	7.68	10.8
4M-SDV-250	250	10	72	187	239	322	2.88	7.48	9.56	12.88
4M-SDV-300	300	12	82	218	290	382	3.28	8.72	11.6	15.28
4M-SDV-350	350	14	92	242	335	436	3.68	9.68	13.4	17.44
4M-SDV-400	400	16	102	270.55	387.5	495	4.08	10.822	15.5	19.8
4M-SDV-450	450	18	114	362	425	540	4.56	14.48	17	21.6
4M-SDV-500	500	20	127	400	475	595	5.08	16	19	23.8
4M-SDV-600	600	24	154	454	560	705	6.16	18.16	22.4	28.2
4M-SDV-650	650	26	165	478	608	755	6.6	19.12	24.32	30.2
4M-SDV-700	700	28	165	505	661.5	810	6.6	20.2	26.46	32.4
4M-SDV-750	750	30	190	542	596	855	7.6	21.68	23.84	34.2
4M-SDV-800	800	32	190	580	755	913	7.6	23.2	30.2	36.52
4M-SDV-900	900	36	203	640	864	1032	8.12	25.6	34.56	41.28

4Matic Offer 4Matic metal seated butterfly valves are an optimal solution for flow control requirements in high temperature applications. They are offered in a variety of metal seating options depending on the media and temperature requirements in the applications. These valves can be used in air, water, thermic fluid, hot oil and steam applications.



609 - 0055



Size Range : 2" to 18"

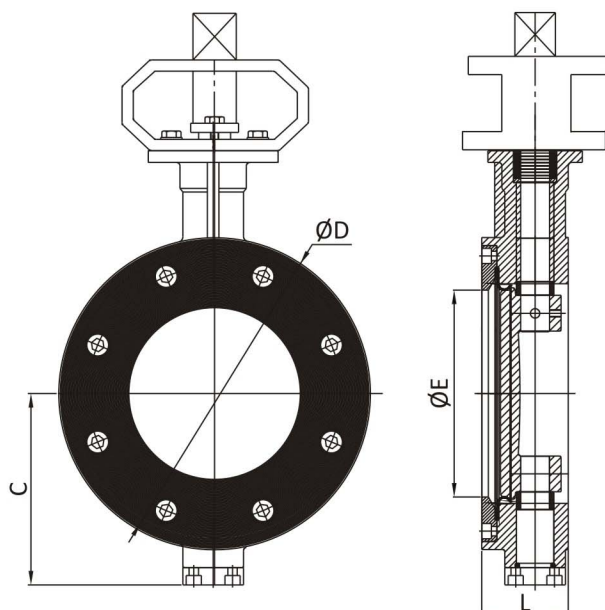
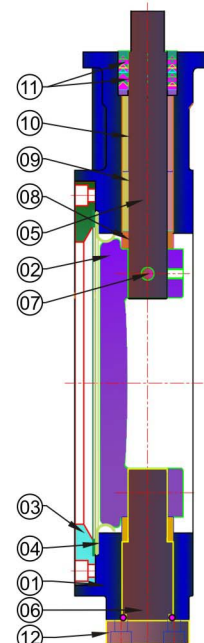
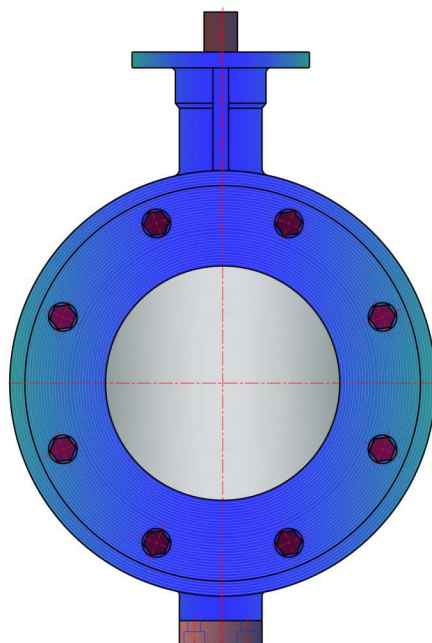
Standard

Design And Manufacturing	: API 609
Valve Face to Face Dimensions	: API 609 Category "B"
Flange Standard Conformity	: ASME B 16.5 Class 150
Inspection & Testing	: API 598
Leakage Class	: ASME B 16, 16.104 Leakage Class VI

PRESSURE / TEMPERATURE RATING

Pressure Rating	PN 10
Temperature	-50 °C to 400 °C

No.	Description	Material	Qty.
1	Body	WCB / CF8 / CF8M	1
2	Disc	CF8 / CF8M	1
3	Retainer	M.S. / CF8 / CF8M	1
4	Seat Ring	CF8 / CF8M	1
5	Shaft	S.S. 304 / 316	1
6	Stem Shaft	S.S. 304 / 316 / 410	1
7	Disc Pin	S.S. 304 / 316 / 410	1
8	Shaft Collar	S.S. 304 / 316 / 410	4
9	Shaft Bush	S.S. 304 / 316	1
10	Shaft Bush	Graphite	1
11	Gland Seal Set	Graphite	5
12	Gland Plate	M.S. / CF8 / CF8M	1



Valve Model		Valve Size		Dimensions (mm)			
		MM	Inch	L	C	ØE	ØD
4MSMT - 50	50	2	47	65	50.08	95	
4MSMT - 65	65	2.6	52	66.5	30.6	108	
4MSMT - 80	80	3.2	52	77	72	127	
4MSMT - 100	100	4	57	93	100	159	
4MSMT - 125	125	5	60	117	123	186	
4MSMT - 150	150	6	60	131	143	217	
4MSMT - 200	200	8	67	167	192	270	
4MSMT - 250	250	10	72	196	239	322	
4MSMT - 300	300	12	85	218	290	382	
4MSMT - 350	350	14	92	242	335	436	
4MSMT - 400	400	16	102	270.5	387.5	495	
4MSMT - 450	450	18	114	362	425	540	

Valve Model		Valve Size		Dimensions (Inch)			
		MM	Inch	L	C	ØE	ØD
4MSMT - 50	50	2	47	65	50.08	95	
4MSMT - 65	65	2.6	52	66.5	30.6	108	
4MSMT - 80	80	3.2	52	77	72	127	
4MSMT - 100	100	4	57	93	100	159	
4MSMT - 125	125	5	60	117	123	186	
4MSMT - 150	150	6	60	131	143	217	
4MSMT - 200	200	8	67	167	192	270	
4MSMT - 250	250	10	72	196	239	322	
4MSMT - 300	300	12	85	218	290	382	
4MSMT - 350	350	14	92	242	335	436	
4MSMT - 400	400	16	102	270.5	387.5	495	
4MSMT - 450	450	18	114	362	425	540	

Triple Offset Butterfly Valve 150# (Fire Safe Design)

4Matic offers triple eccentric butterfly valves suitable for both throttling and positive isolation applications. These valves are capable of bi-directional flow control, zero leakage, low fugitive emissions and stream-based applications (up to 550 °C) Due to the triple offset sealing system, the disc moves smoothly and free of friction at all points along the specially designed body seat & disc seal. When the disc is closed, the seal ring (on the disc) energises the seat (on the body) there by proving a snug - tight high - performance fit The laminar seal is constructed with grafoil layers sandwiched between metal laminations. This resiliency of the seal flexes and energizes according to the compressive forces generated and allows for minor body deformations due to temperature fluctuations without the risk of jamming. This provides a uniform wedding effect and ensures bubble tight shut-off.

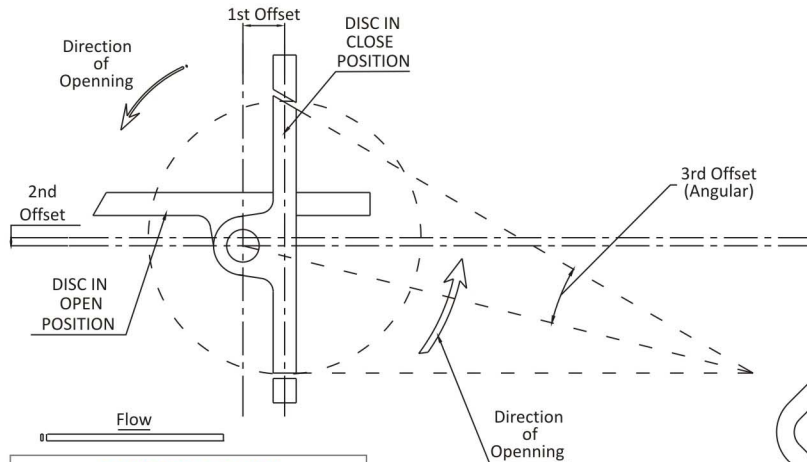
Size Range : 2" to 48" (Higher size available on request)

Standard

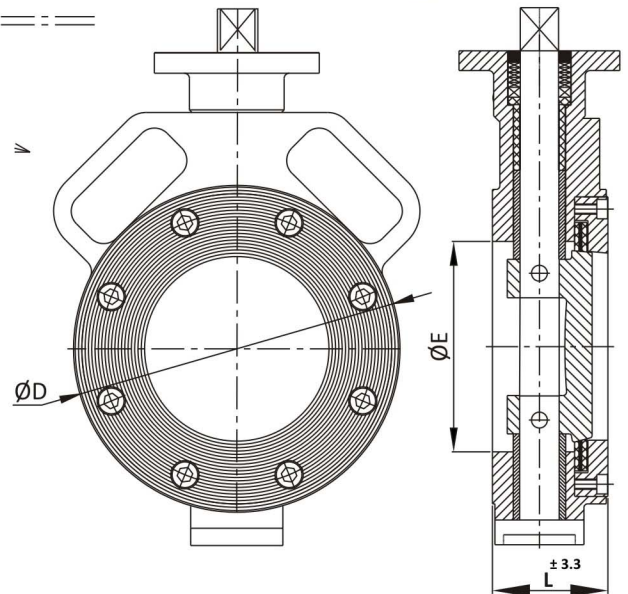
Design And Manufacturing : API 609
Valve Face to Face Dimensions : API 609 Category "B"
Flange Standard Conformity : ASME / ANSI B 16.5 Class 150
Inspection & Testing : API 598
Leakage Class : ASME B 16, 16.104 Leakage Class VI



PRESSURE / TEMPERATURE RATING	
Pressure	As Per 150# B16.34
Temperature	550 °C (Above 550 °C On Request)



VALVE TORQUE 150#				
VALVE SIZE		5 Bar	10 Bar	20 Bar
MM	Inch	N - m	N - m	N - m
50	2"	11	15	21
65	2.1/2"	20	28	38
80	3"	38	43	63
100	4"	50	58	80
125	5"	73	100	144
150	6"	113	144	181
200	8"	175	219	350
250	10"	294	331	375
300	12"	400	450	625



CV Values										
VALVE SIZE		10°	20°	30°	40°	50°	60°	70°	80°	90°
MM	Inch									
50	2"	2	5	11	19	28	41	58	77	85
65	2.1/2"	2	9	20	28	45	60	80	120	130
80	3"	3	10	22	42	64	96	150	157	160
100	4"	6	17	41	75	116	174	273	284	290
125	5"	6	45	75	170	280	478	650	707	795
150	6"	7	51	119	221	340	510	799	833	850
200	8"	4	103	239	445	684	1026	1607	1676	1710
250	10"	50	151	353	655	1008	1515	2369	2470	2520
300	12"	79	236	552	1024	1576	2364	3704	3861	3940

Dimensions : (All Dimensions are in mm)						
VALVE MODEL	VALVE SIZE		L	ØE	ØD	
	MM	Inch				
4M-TO-HP-50	50	2	47	50.8	95	
4M-TO-HP-65	65	2.6	52	61.6	108	
4M-TO-HP-80	80	3.2	52	72	127	
4M-TO-HP-100	100	4	57	100	159	
4M-TO-HP-125	125	5	60	123	186	
4M-TO-HP-150	150	6	60	143	217	
4M-TO-HP-200	200	8	67	192	270	
4M-TO-HP-250	250	10	72	239	322	
4M-TO-HP-300	300	12	75	290	382	

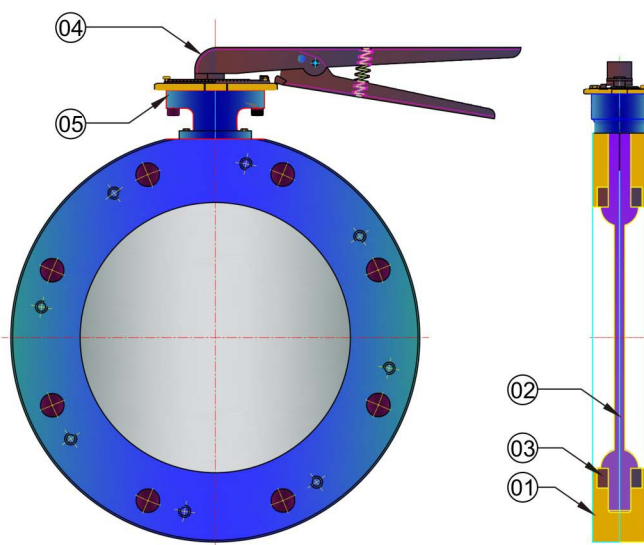
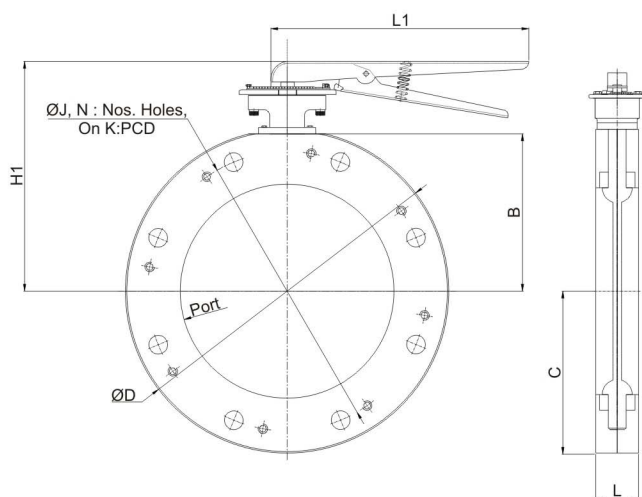
(All Dimensions are in Inch)		
L	ØE	ØD
1.88	2.032	3.8
2.08	2.464	4.32
2.08	2.88	5.08
2.28	4	6.36
2.4	4.92	7.44
2.4	5.72	8.68
2.68	7.68	10.8
2.88	9.56	12.88
3	11.6	15.28

4Matic offer Pharmaceutical grade, ultra-sanitary butterfly valves for the control of dry bulk materials. Meeting the stringent requirements of the pharmaceutical, cosmetic, biotech, food and fine chemical industries. Sleek design offers weight and space utilization. One piece crevice free disc, polished to mirror finish to maximize flow and easy maintenance. Lever Handle, Gear Operator, Chain Wheel.



Size Range : 2.1/2" to 16"

PRESSURE / TEMPERATURE RATING	
Pressure Rating	3 to 4 Kg/cm ²
Temperature	150 °C



No.	Description	Material	Qty.
1	Body	WCB / CF8 / CF8M	01
2	Disc	WCB / CF8 / CF8M	01
3	Seat	Silicon / Viton	01
4	Bracket	S.S.	01
5	Handle	S.S. / Alluminium.	01

Dimensions :		(All Dimensions are in mm)								
VALVE MODEL	VALVE SIZE		Port	L	ØD	N	ØJ	K:PCD	B	C
	MM	Inch								
4M-H-PBV - 65	65	2.6	65	26	178	4	19.5	19.05	152.4	152.4
4M-H-PBV - 80	80	3.2	80	26	190	4	19.5	19.05	190.5	190.5
4M-H-PBV - 100	100	4	100	28	150	4	9	22.2	241.3	241.3
4M-H-PBV - 150	150	6	150	30	227	6	11	22.2	298.5	298.5
4M-H-PBV - 200	200	8	200	30	285	6	9.5	25.4	362	362
4M-H-PBV - 250	250	10	250	32	354.5	6	11	25.4	431.8	431.8
4M-H-PBV - 300	300	12	300	35	405	8	13.5	28.6	476.3	476.3
4M-H-PBV - 350	350	14	350	40	527	12	25.4	28.6	539.8	539.8
4M-H-PBV - 400	400	16	400	40	577.9	12	25.5	31.75	577.9	577.9

Dimensions : (All Dimensions are in Inch)						
Port	L	ØD	ØJ	K:PCD	B	C
2.6	1.04	7.12	0.78	0.762	6.096	6.096
3.2	1.04	7.6	0.78	0.762	7.62	7.62
4	1.12	6	0.36	0.888	9.652	9.652
6	1.2	9.08	0.44	0.888	11.94	11.94
8	1.2	11.4	0.38	1.016	14.48	14.48
10	1.28	14.18	0.44	1.016	17.272	17.272
12	1.4	16.2	0.54	1.144	19.052	19.052
14	1.6	21.08	1.016	1.144	21.592	21.592
16	1.6	23.116	1.02	1.27	23.116	23.116

AWWA C 504 Standard Large Dia Meter Butterfly Valve

4Matic butterfly valves according to the AWWA C 504 standard. Long service life, as the medium does not come into contact with the bearing, and due to the wear-resistant, corrosion and infiltration-proof seat with weld overlay. Suitable for use water distribution, water treatment, pretreated waste water, dams, power plants, industry and pressure management.

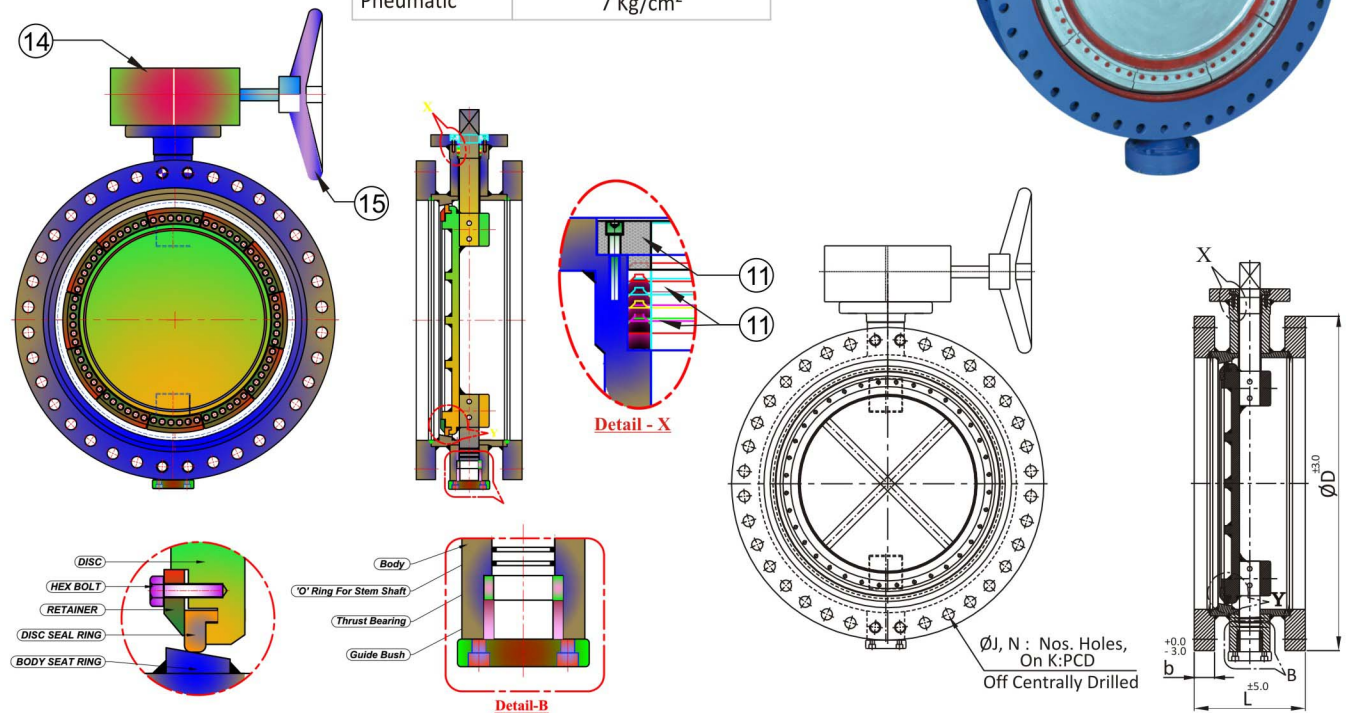
Size Range : 50" to 104" (12" to 48" On Request)

Standard

Design And Manufacturing	: AWWA C - 504
Valve Face to Face Dimension Upto 72"	: AWWA C - 504
Valve Face to Face Dimension Upto 72"	: As Per Manufacturer Standard
Flange Standard Conformity	: AWWA C - 207 Class "D"
Inspection & Testing	: AWWA C - 504
Rating	: PN 6 / PN 10

PRESSURE / TEMPERATURE RATING	
Pressure	PN 10
Temperature	180 °C

PRESSURE / TEMPERATURE RATING		
Testing	Body	Seat
Hydraulic	16 Kg/cm ²	10 Kg/cm ²
Pneumatic	7 Kg/cm ²	



No.	Description	Material
1	Body	IS 2062 Gr. B M. S.
2	Disc	IS 2062 Gr. B M. S.
3	Retainer	IS 2062 Gr. B / ASTM A - 240 S.S. 304 / 316
4	Body Seat Ring	ASTM A - 479 Type 304 / 316
5	Disc Seal Ring	EPDM / NBR / Viton
6	Shaft	ASTM A - 479 Type 410 / 304 / 316
7	Stem Shaft	ASTM A - 479 Type 410 / 304 / 316
8	Disc Pin	ASTM A - 479 Type 410 / 304 / 316
9	Bearing	Double Thrust Bearing
10	Guide Bush	Bronze
11	Seal Set	EPDM / NBR / Viton
12	Gland Plate	M. S.
13	Stem Plate	IS 2062 Gr. B
14	Gear	Standard
15	Wheel	M. S.

Dimensions : (All Dimensions are in mm)									(All Dimensions are in Inch)				
VALVE MODEL	VALVE SIZE		L	ØD	b	ØJ	N	K:PCD	L	ØD	b	ØJ	K:PCD
	MM	Inch											
4M-FBV - 1250	1250	50	381	1568.5	51	44.45	44	1479.6	15.24	62.74	2.04	1.778	59.184
4M-FBV - 1300	1300	52	381	1626	51	44.45	44	1536.7	15.24	65.04	2.04	1.778	61.468
4M-FBV - 1350	1350	54	381	1682.8	54	44.45	44	1593.8	15.24	67.312	2.16	1.778	63.752
4M-FBV - 1400	1400	56	381	1770	57.15	44.45	52	1670	15.24	70.8	2.286	1.778	66.8
4M-FBV - 1500	1500	60	381	1854.2	57.15	44.45	52	1758.95	15.24	74.168	2.286	1.778	70.358
4M-FBV - 1600	1600	64	381	1915	60	44.45	52	1820	15.24	76.6	2.4	1.778	72.8
4M-FBV - 1650	1650	66	457	2032	63.5	44.45	52	1930.4	18.28	81.28	2.54	1.778	77.216
4M-FBV - 1800	1800	72	457	2197.1	66.5	44.45	60	2095.5	18.28	87.884	2.66	1.778	83.82
4M-FBV - 1950	1950	78	760	2362.2	69.9	50.8	64	2260.6	30.4	94.488	2.796	2.032	90.424
4M-FBV - 2000	2000	80	760	2449	70	50.8	64	2342	30.4	97.96	2.8	2.032	93.68
4M-FBV - 2100	2100	84	830	2533.7	73	50.8	64	2425.7	33.2	101.348	2.92	2.032	97.028
4M-FBV - 2200	2200	88	830	2800	77	58	68	2673.5	33.2	112	3.08	2.32	106.94
4M-FBV - 2400	2400	96	910	2876.6	82.6	58	68	2755.9	36.4	115.064	3.304	2.32	110.236
4M-FBV - 2500	2500	100	990	3048	82.6	63.5	72	2908.3	39.6	121.92	3.304	2.54	116.332
4M-FBV - 2600	2600	104	990	3138	86	63.5	72	2994	39.6	125.52	3.44	2.54	119.76

MOUNTING STD AC7 15714 CE STD TEST ISO 5211 STANDARD PNEUMATIC ROTARY ACTUATOR OPERATED BUTTERFLY VALVES

RUBBER LINED WAFER TYPE BUTTERFLY VALVE



Size : 1.1/2" to 48"
MOC : C.I. / WCB / CF8 / CF8M / CF3M / Al. Bronze
Seals : Nitrile / Buna - N / EPDM / Viton / Hyplon
Pressure : PN 0.6 / PN 1.0 / PN 2.0 / PN 2.5
Temp. : Depending on MOC & Seals
Ends : Wafer Type Double Flange suit to ASME B 16.5 / 16.47 Class 150, BS 10 Table 'D', 'E', 'F' IS 6392 Table 11 / 17, IS 1538
Mfg. Std. : API 609 Category A / IS : 13095 / BS EN 593 Top Flange : ISO 5211

RUBBER LINED CONCENTRIC DISC DOUBLE FLANGE BUTTERFLY VALVE



Size : 3" to 48"
MOC : C.I. / WCB / CF8 / CF8M / CF3M / Al. Bronze
Seals : Nitrile / Buna - N / EPDM / Viton / Hyplon
Pressure : PN 0.6 / PN 1.0 / PN 2.0 / PN 2.5
Temp. : Depending on MOC & Seals
Ends : Wafer Type Double Flange suit to ASME B 16.5 / 16.47 Class 150, BS 10 Table 'D', 'E', 'F' IS 6392 Table 11 / 17, IS 1538
Mfg. Std. : API 609 Category A / IS : 13095 / BS EN 593 Top Flange : ISO 5211

DAMPER VALVE WAFER TYPE



Size : 1.1/2" to 20"
MOC : C.I. / WCB / CF8 / CF8M / CF3M
Seals : Metal to Metal
Pressure : PN 6.0
Temp. : Depending on MOC
Seat Leakage : 5% of main flow
Ends : Wafer type suit to ASME B 16.5 / 16.47 Class 150

DOUBLE FLANGE FABRICATED BUTTERFLY VALVE



Size : 8" to 80"
MOC : MS Fabricated / S.S. 304 / S.S. 316
Seals : Metal to Metal
Pressure : 2 Kg/cm²
Temp. : 850 °C (Depending on MOC)
Seat Leakage : 5% of main flow
Ends : EN 1092 - 1 (PN - 6) & as per party requirement

FEP / PFA LINED BUTTERFLY VALVE



Size : 2" to 20"
MOC : C.I. / WCB / CF8 / CF8M / CF3M
Seals : FEP / PFA
Pressure : 10 Kg/cm²
Temp. : FEP 180 °C / PFA 230 °C
Ends : Wafer Type

"PTFE SLEEVE" MIRROR FINISH DISC BUTTERFLY VALVE



Size : 2" to 12"
MOC : C.I. / WCB / CF8 / CF8M / CF3M (Mirror Finish Disc)
Seals : PTFE
Pressure : PN 10 / 16
Temp. : 160 °C
Ends : Wafer Type

DOUBLE ECCENTRIC OFF - SET DISC WAFER TYPE BUTTERFLY VALVE



Size : 2.1/2" to 48"
MOC : WCB / CF8 / CF8M / CF3M
Seals : NBR / PTFE / RPTFE / EPDM / Viton
Pressure : PN 10 / 16 & 25
Temp. : NBR -10 °C to 90 °C / PTFE -25 to 180 °C RPTFE -25 to 220 °C / EPDM -20 to 140 °C Viton -0 to 220 °C
Ends : Wafer Type
Mfg. Std. : API 609, BSEN 593, IS 13095

DOUBLE ECCENTRIC OFF - SET DISC DOUBLE FLANGE BUTTERFLY VALVE



Size : 2" to 48"
MOC : WCB / CF8 / CF8M / CF3M
Seals : NBR / PTFE / RPTFE / EPDM / Viton
Pressure : PN 10 / 16 & 25
Temp. : NBR -10 °C to 90 °C / PTFE -25 to 180 °C RPTFE -25 to 220 °C / EPDM -20 to 140 °C Viton -0 to 220 °C
Ends : Double Flange 150# / 300# / 600#
Mfg. Std. : API 609, BSEN 593, IS 13095, AWWA C - 504

**SPHERICAL DISC VALVE WAFER TYPE
HIGH PERFORMANCE BUTTERFLY VALVE**



Size : 1.1/2" to 36"
MOC : WCB / CF8 / CF8M / CF3M
Seals : PTFE / GFT / CFT / PEEK
Pressure : ANSI 150# / 300#
Temp. : -25 °C to 180 °C
Ends : Wafer Type / Double Flange
Lug Type
Mfg. Std. : API 609, BSEN 593, IS 13095

**METAL SEATED WAFER TYPE
BUTTERFLY VALVE**



Size : 1.1/2" to 16"
MOC : WCB / CF8 / CF8M / CF3M
Seals : Metal to Metal
Pressure : PN 10 / PN 16
Temp. : -50 °C to 400 °C
Ends : Wafer Type / Double Flange

**TRIPLE OFF - SET DISC
BUTTERFLY VALVE**



Size : 2" to 48"
MOC : WCB / CF8 / CF8M / CF3M
Seals : Metal to Metal
Pressure : ASME / ANSI B 16.34
Temp. : -50 °C to 600 °C (Above 600 °C
Class : On Request)
Ends : 150# / 300# / 600#
Wafer Type / Double Flange /
Lug Type
Mfg. Std. : API 609, BSEN 593 IS 13095

**TRIPLE
OFF-SET**

**AWWA C - 504 STD LARGE DIA
FABRICATED DOUBLE FLANGE BUTTERFLY VALVE**



Size : 50" to 104"
MOC : MS Fabricated
High Grade Material Available
On Request
Seals : EPDM / NBR / Vitonl
Pressure : PN 6 / PN 10 / PN 16
Temp. : 180 °C
Ends : Double Flange / Wafer Type

**PHARMACEUTICAL APPLICATION
BUTTERFLY VALVE**



Size : 2.1/2" to 16"
MOC : WCB / CF8 / CF8M / CF3M
Seals : Silicon
Leakage : Class VI
Pressure : Max. 3 to 4 Kg/cm2
Temp. : Upto 150 °C
Ends : Wafer Type
Mfg. Std. : As per manufacturer Std.

**ALUMINUM BUTTERFLY VALVE
FOR CEMENT INDUSTRIES**



Size : 4" to 12"
MOC : Aluminium Alloy Cast
Seals : Nitrile
Pressure : 0.2 to 5 BAR
Temp. : 80 °C
Ends : Double Flange

**ALUMINUM BODY
BUTTERFLY VALVE**



Size : 1.1/2" to 12"
MOC : Aluminium Press. Die Cast
Disc : S. S. 316
Seals : EPDM
Pressure : PN 10
Temp. : Upto 140 °C
Ends : Wafer Type

UPVC BUTTERFLY VALVE



Size : 2" to 8"
MOC : UPVC / CPVC / PPH / PVDF
Seals : NBR
Pressure : Upto 7 Kg/cm²
Temp. : 80 °C
STD. : DIN / ASTM
Ends : Wafer Type (PN 6 / PN 10 / JIS)

ELECTRICAL ACTUATOR OPERATED BUTTERFLY VALVES

RUBBER LINED WAFER TYPE BUTTERFLY VALVE WITH ELECTRICAL ACTUATOR



Size : 1.1/2" to 72"
MOC : CI / DI / WCB / CF8 / CF8M
Seals : Nitrile / NBR / EPDM / Viton
Pressure : PN 6, 10, 16, 20 & 25
Temp. : -20 °C to 80 °C (Depending On MOC)
Ends : Wafer Type

RUBBER LINED CONCENTRIC DISC DOUBLE FLANGE BUTTERFLY VALVE WITH ELECTRICAL ACTUATOR



Size : 3" to 72"
MOC : CI / DI / WCB / CF8 / CF8M
Seals : Nitrile / NBR / EPDM / Viton
Pressure : PN 6, 10, 16, 20 & 25
Temp. : -20 °C to 80 °C (Depending On MOC)
Ends : Wafer Type Double Flange

PTFE (FEP-PFA) LINED BUTTERFLY VALVE WITH ELECTRICAL ACTUATOR



Size : 2" to 20"
MOC : WCB / CF8 / CF8M / CF3M
Lining : FEP / PFA - STD. Thickness
Seals : FEP / PFA
Pressure : 10 Kg/cm²
Temp. : FEP 180 °C / PFA 230 °C
Ends : Wafer Type / Double Flange / Lug Type

HIGH PERFORMANCE BUTTERFLY VALVE SPHERICAL DISC VALVE WITH ELECTRICAL ACTUATOR



Size : 1.1/2" to 24"
MOC : WCB / CF8 / CF8M / CF3M
Seals : NBR / PTFE / RPTFE / EPDM / VITON
Pressure : PN 6 / 10 / 16 / 20 & 25
Temp. : Upto 180 °C / 250 °C
Ends : Wafer Type / Double Flange / Lug Type

DOUBLE ECCENTRIC OFF - SET DISC DOUBLE FLANGE BUTTERFLY VALVE WITH ELECTRICAL ACTUATOR



Size : 2.1/2" to 88"
MOC : WCB / CF8 / CF8M / CF3M
Seals : NBR / PTFE / RPTFE / EPDM / VITON
Pressure : PN 10 / 16 / 20 & 25
Temp. : Upto 180 °C / 250 °C
Ends : Wafer Type / Double Flange

TRIPLE OFF - SET DISC BUTTERFLY VALVE WITH ELECTRICAL ACTUATOR



Size : 2" to 36"
MOC : WCB / CF8 / CF8M / CF3M
Seals : PTFE / GFT / CFT
Pressure : PN 6 / 10 / 16 / 20 & 25
Temp. : Upto 180 °C / 250 °C
Ends : Wafer Type / Double Flange / Lug Type

**TRIPLE
OFF-SET**

EXTENDED STEM BUTTERFLY VALVE WITH ELECTRICAL ACTUATOR



Size : 1.1/2" to 88"
MOC : WCB / CF8 / CF8M / CF3M
Seals : NBR / PTFE / RPTFE / EPDM / VITON
Pressure : PN 10 / 16 / 20 & 25
Temp. : Upto 180 °C / 250 °C
Ends : Wafer Type / Double Flange

ALUMINUM BUTTERFLY VALVE WITH ELECTRICAL ACTUATOR



Size : 1.1/2" to 12"
MOC : Aluminium Alloy
Disc : S. S. 316
Seals : Nitrile / NBR / EPDM / Viton
Pressure : PN 10 / 16
Temp. : Upto 180 °C
Ends : Wafer Type

UPVC BODY BUTTERFLY VALVE WITH ELECTRICAL ACTUATOR



Size : 1.1/2" to 12"
MOC : UPVC / PP
Seals : NBR / EPDM
Pressure : Upto 10 Kg/cm²
Temp. : Upto 180 °C
Ends : Wafer Type

FABRICATED DOUBLE FLANGE DAMPER VALVE WITH ELECTRICAL ACTUATOR



Size : 1.1/2" to 88"
MOC : IS Grade MS / S.Steel
Seals : Nitrile / NBR / EPDM / Viton
Pressure : Upto 10000 MMWC / PN 6 / PN 10
(Depending On Requirement)
Temp. : -20 °C to 500 °C
Ends : Double Flange

MULTI LOUVER DAMPER VALVE WITH ELECTRICAL ACTUATOR



Size : 3000MM X 3000MM
MOC : IS Grade MS / S. Steel
Louvers : Aluminium / MS / S. Steel
Pressure : Upto 10000 MMWC / PN 6 / PN 10
(Depending On Requirement)
Temp. : -20 °C to 500 °C
Ends : Wafer Type

GUILLOTINE DAMPER VALVE WITH ELECTRICAL ACTUATOR



Size : 3000MM X 3000MM
MOC : IS Grade MS / S. Steel
Pressure : Upto 10000 MMWC / PN 6 / PN 10
(Depending On Requirement)
Temp. : -20 °C to 500 °C
Ends : Flanged / Wafer

FOOT MOUNTED ELECTRICAL ACTUATOR WITH LINKAGE ARM FOR ID FAN DAMPER



Torque Supply : 35NM to 32000NM
: 220V AC & 415V AC
(Other On Requirement)
Arm : WCB / S. Steel
Foot Bracket : WCB / S. Steel

AWWA C - 504 STD LARGE DIA FABRICATED DOUBLE FLANGE BUTTERFLY VALVE WITH ELECTRICAL ACTUATOR



Size : 1.1/2" to 104"
MOC : IS Grade MS / WCB / CF8
Seals : NBR / EPDM / Nitrile / Viton
Pressure : PN 6, 10, 16, 20 & 25
Temp. : -20 °C to 180 °C
(Depending on MOC)
Ends : Double Flange / AWWA C 207

HIGH PRESSURE GLOBE CONTROL VALVE WITH ELECTRICAL ACTUATOR



Size : 1/2" to 12"
MOC : WCC / CF8M / Duplex
Seals : Metal to Metal / PTFE
Pressure : 150#, 300#, 600#, 900#, 1500#, 2500#
Temp. : 180 °C to 450 °C
Class : 150#, 300#, 600#, 900#, 1500#, 2500#
Ends : Flanged / But Weld

2 WAY & 3 WAY GLOBE CONTROL VALVE WITH ELECTRICAL ACTUATOR



Size : 1/2" to 12"
MOC : WCB / CF8 / CF8M
Seals : Metal to Metal / PTFE
Pressure : 150# / 300# / 600# / 900#
Temp. : Upto 180 °C / 450 °C
Class : 150# / 300# / 600# / 900#
Ends : Flanged / Socket Weld

▼ Application in Major Industries

Fossil & cogeneration power ▼



- Pump Isolation
- Condenser cooling
- Pump & steam extraction isolation
- Heat exchanger, condenser cooling isolation
- District heating & cooling

Nuclear ▼



- Containment isolating
- Saltwater service
- Core spray systems
- Pump isolation

Refining ▼



- Oil storage isolation
- Hot cracking gas
- Flare gas hydrogen, sour gas isolation
- Product segregation
- Steam supply valves
- Catalytic cracker units
- Desulphurization systems & tail gas treaters

Petrochemicals ▼



- Brine, co, vapour, steam service
- Hydrogen gas, propane gas
- Ethylene plants
- Ethylene crackers
- Propylene plants
- Oxygen service
- Flare inlet & manifold isolation
- PSA & molecular sieves
- Coker plants

Pulp & Paper ▼



- Steam isolation, boiler water
- Black and white liquors.
- Oxygen lines
- Lime and slurries

LNG & Cryogenics ▼



- All liquid gases
- Oil field recovery
- Liquid natural gas
- Gasification plants and storage
- LNG ships
- Tank farm isolation.





EXPORT + 20 COUNTRIES

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