

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



609 - 0055

Fire Safe Design

Size Range : 2.1/2" to 48"

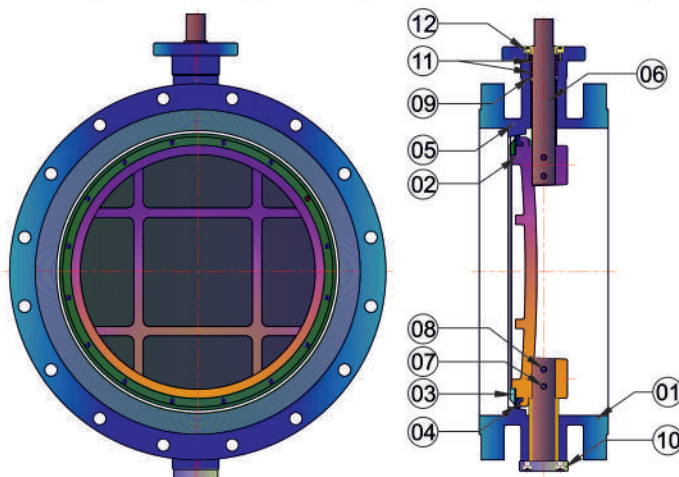
Standard

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



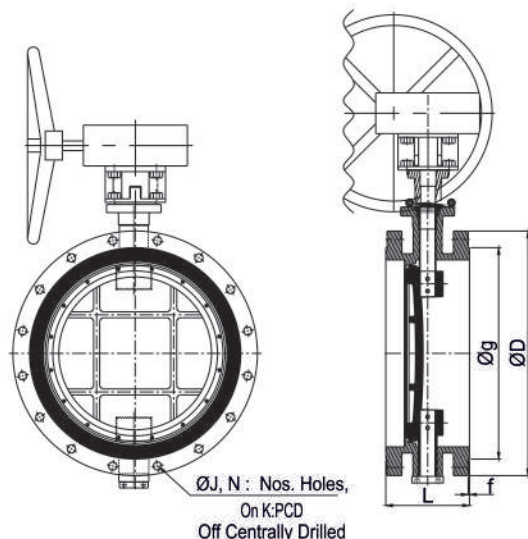
No.	Description	Material	Qty.
1	Body	C.I. / WCB / CF8 / CF8M / D.I	01
2	Disc	WCB / CF8 / CF8M / D.I	01
3	Retainer	M.S. / CF8 / CF8M	01
4	Disc Seal Ring	RPTFE / PTFE / NBR / EPDM / Viton	01
5	Body Seat Ring	S.S. 304 / 316	01
6	Shaft	S.S. 304 / 316 / 410	01
7	Stem Shaft	S.S. 304 / 316 / 410	01
8	Disc Pin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

Dimensions : B 16.5 150# & B 16.47 "A" 150# (All Dimensions are in mm)

Valve Model	Valve Size	L	ØD	Øg	f	ØJ	N	K:PCD
	MM	Inch	API - 609					
BOD - 65	65	2.1/2"	112	180	104.8	2	19.05	04
BOD - 80	80	3"	114	190	127	2	19.05	04
BOD - 100	100	4"	127	230	157.2	2	19.05	08
BOD - 125	125	5"	140	255	185.7	2	22.2	08
BOD - 150	150	6"	140	280	215.9	2	22.2	08
BOD - 200	200	8"	152	345	269.9	2	22.2	08
BOD - 250	250	10"	165	405	323.8	2	25.4	12
BOD - 300	300	12"	178	485	381	2	25.4	12
BOD - 350	350	14"	190	535	412.8	2	28.6	12
BOD - 400	400	16"	216	595	469.9	2	28.6	16
BOD - 450	450	18"	222	635	533.4	2	31.75	16
BOD - 500	500	20"	229	700	584.2	2	31.75	20
BOD - 600	600	24"	267	815	692.2	2	34.9	20
BOD - 650	650	26"	292	870	749	2	34.9	24
BOD - 700	700	28"	292	925	800	2	34.9	28
BOD - 750	750	30"	318	985	857	2	34.9	28
BOD - 800	800	32"	318	1060	914	2	41.3	28
BOD - 850	850	34"	324	1110	965	2	41.3	32
BOD - 900	900	36"	330	1170	1022	2	41.3	32
BOD - 1000	1000	40"	410	1290	1124	2	41.3	36
BOD - 1050	1050	42"	410	1345	1194	2	41.3	36
BOD - 1200	1200	48"	470	1510	1359	2	41.3	44

Notes :

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



ØJ, N : Nos. Holes,
On K:PCD
Off Centrally Drilled

Hand Lever / Worm Gear Operated 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							
BOD - 80	80	3"	114	200	133	3	18	04	160
BOD - 100	100	4"	127	220	153	3	19	08	180
BOD - 150	150	6"	140	285	209	3	23	08	240
BOD - 200	200	8"	152	340	264	3	23	08	295
BOD - 250	250	10"	165	395	319	3	23	12	350
BOD - 300	300	12"	178	445	367	4	23	12	400
BOD - 350	350	14"	190	505	427	4	23	16	460
BOD - 400	400	16"	216	565	477	4	28	16	515
BOD - 450	450	18"	222	615	527	4	28	20	565
BOD - 500	500	20"	229	670	582	4	28	20	620
BOD - 600	600	24"	267	780	682	5	31	20	725
BOD - 650	650	26"	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BOD - 700	700	28"	292	895	797	5	31	24	840
BOD - 750	750	30"	318	960	857	5	31	24	900
BOD - 800	800	32"	318	1015	904	5	34	24	950
BOD - 900	900	36"	330	1115	1004	5	34	28	1050
BOD - 1000	1000	40"	410	1230	1111	5	36	28	1160
BOD - 1200	1200	48"	470	1455	1328	5	40	32	1380

Dimensions :

PN 16

(All Dimensions are in mm)

Valve Model	Valve Size		L API 609	ØD	Øg	f	ØJ	N	K:PCD
	MM	Inch							
BOD - 65	65	2.1/2"	112	185	122	3	18	04	145
BOD - 80	80	3"	114	200	138	3	18	08	160
BOD - 100	100	4"	127	220	158	3	18	08	180
BOD - 150	150	6"	140	285	212	3	22	08	240
BOD - 200	200	8"	152	340	268	3	22	12	295
BOD - 250	250	10"	165	405	320	3	26	12	355
BOD - 300	300	12"	178	460	378	4	26	12	410
BOD - 350	350	14"	190	520	438	4	26	16	470
BOD - 400	400	16"	216	580	490	4	30	16	525
BOD - 450	450	18"	222	640	490	4	30	20	585
BOD - 500	500	20"	229	715	610	4	33	20	650
BOD - 600	600	24"	267	840	725	5	36	20	770
BOD - 650	650	26"	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BOD - 700	700	28"	292	910	795	5	36	24	840
BOD - 750	750	30"	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
BOD - 800	800	32"	318	1025	900	5	39	24	950
BOD - 900	900	36"	330	1125	1000	5	39	28	1050
BOD - 1000	1000	40"	410	1255	1115	5	42	28	1170
BOD - 1200	1200	48"	470	1485	1330	5	48	32	1390

Dimensions :

AWWA C - 207

(All Dimensions are in mm)

Valve Model	Valve Size		L AWWA C - 504	ØD	b	ØJ	N	K:PCD
	MM	Inch						
BOD - 65	65	2.1/2"	127	180	16	19.05	4	139.7
BOD - 80	80	3"	127	190	16	19.05	4	152.4
BOD - 100	100	4"	127	228.6	16	19.05	8	190.5
BOD - 125	125	5"	127	254	16	19.05	8	215.9
BOD - 150	150	6"	127	279.4	17.5	22.35	8	241.3
BOD - 200	200	8"	152	343	17.5	22.35	8	298.45
BOD - 250	250	10"	203	406.4	17.5	25.4	12	361.95
BOD - 300	300	12"	203	482.6	20.6	25.4	12	431.8
BOD - 350	350	14"	203	533.4	23.8	28.45	12	476.25
BOD - 400	400	16"	203	596.9	25.5	28.45	16	539.75
BOD - 450	450	18"	203	635	27	31.75	16	577.85
BOD - 500	500	20"	203	698.5	28.5	31.75	20	635
BOD - 600	600	24"	203	812.8	30.2	35.05	20	749.3
BOD - 650	650	26"	305	869.9	31.5	35.05	24	806.45
BOD - 700	700	28"	305	927.1	35.5	35.05	28	863.6
BOD - 750	750	30"	305	984.25	35.5	35.05	28	914.4
BOD - 800	800	32"	305	1060.45	38	41.15	28	977.9
BOD - 850	850	34"	305	1111.25	38	41.15	32	1028.7
BOD - 900	900	36"	305	1168.4	41	41.15	32	1085.85
BOD - 1000	1000	40"	305	1289	41	41.15	36	1200.15
BOD - 1050	1050	42"	305	1346.2	44.5	41.15	36	1257.3
BOD - 1200	1200	48"	381	1511.3	47.5	41.15	44	1422.4