

An ISO 9001-2000 Company

Butterfly Valves Dedicated to Process Industries & Water Services

MICON



APPLICATION FIELDS

Valves dedicated to process applications :

Chemical, Nuclear, Mining, Metallurgical, Paper Making and Food
Car Making Industries, Transport Material, and Filtration Material...

The problems due to the resitancy and the longevity of the fluids can be
solved by combining different materials (and coatings) of liners and disc.

Dimensional Details

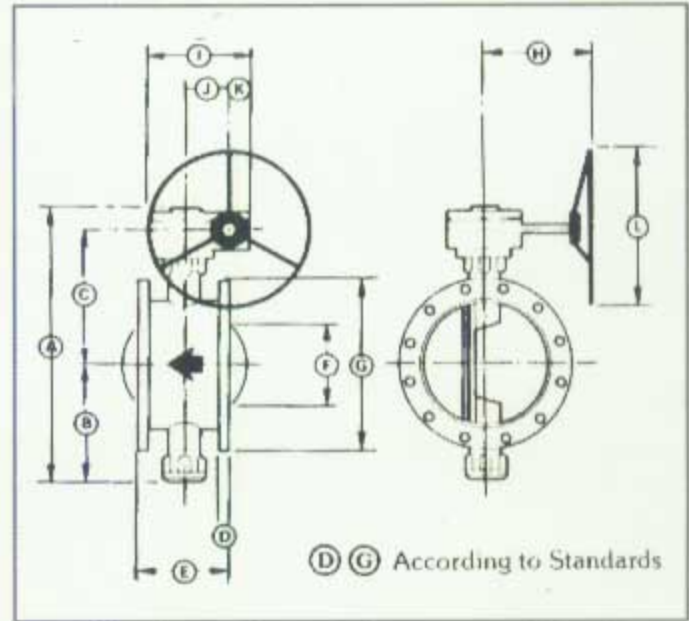
TEST PRESSURE (Hydrostatic)

Body : 1.5 times the nominal pressure rating

Seat : At nominal pressure rating.

NOTE :

1. Some of the bolt holes in cast valves will be tapped
2. Data given herein are subject to change



DIMENSION (mm) CAST IRON VALVES

Size	A	B	C	E	F	H	I	J	K	L
350	715	310	345	203	260	260	270	105	45	250
400	775	340	375	203	320	260	270	105	45	250
450	835	360	415	203	378	260	270	105	45	250
500	875	380	435	203	434	206	270	105	45	250
600	1115	460	595	203	492	290	310	150	45	390
750	1335	570	705	305	656	290	310	150	45	390
900	1665	700	865	305	818	440	460	215	70	650
1000	1715	740	975	305	924	440	460	215	70	650
1200	1965	840	1025	381	1100	440	460	215	70	650
1400	2335	970	1265	381	1310	620	460	215	70	650
1600	2595	1080	1415	457	1495	620	460	215	70	650
1800	2905	1200	1450	457	1690	680	500	250	80	700

These dimensions are for reference only, for installation purposes, request certified drawing.

Note :

Valves in other intermediary size in the above range as also larger size valves (1800 mm to 2400mm) can be supplied. Dimensions for steel valves will be furnished on request.

An ISO 9001-2000 Certified Quality Management Company.

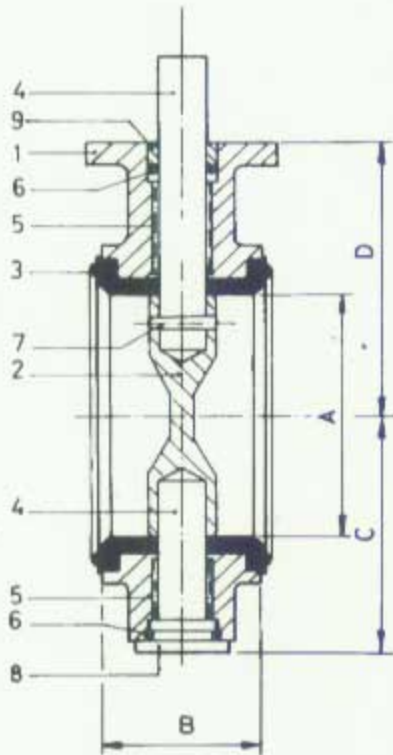


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Butterfly Valves For P



DIN Mm	A	B	C	D	Weight kg
50	50	43	74	113	6
65	65	46	81	121	7
80	80	46	89	128	8
100	100	52	105	146	11
125	125	56	117	158	15
150	150	56	140	174	16
200	200	60	165	198	26
250	250	68	205	245	40
300	300	78	230	270	52
350	336	78	255	288	56
400	386	102	310	350	77
450	436	114	335	380	94
500	486	127	370	410	120
600	586	154	420	490	152

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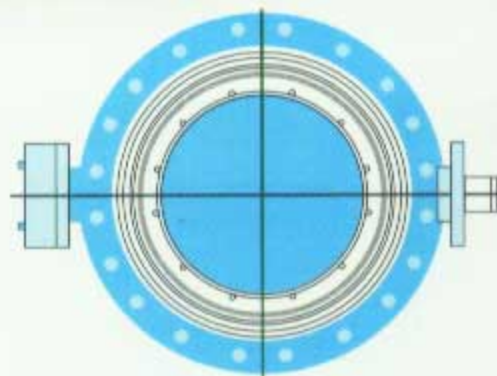
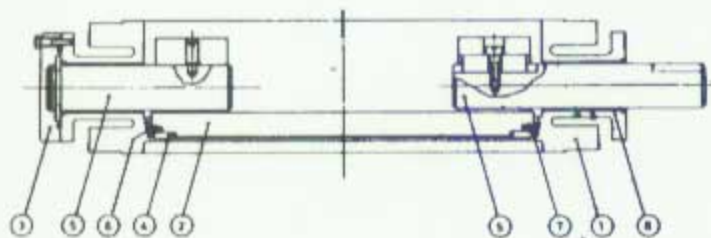
Item	Part	Material options
1.	Body	Cast iron I.S.210 Grade FG200/ GG 25; Ductile cast iron GGG40, Cast carbon steel ASTM A-216 Grade WCB; Cast stainless steel CF8 & CF8M
2	Disk	Cast iron I.S.210 Grade FG200/ Gg25; Ductile cast iron GGG40, Cast carbon steel ASTM A-216 Grade WCB; Cast stainless steel CF8 & CF8M
3	Seal	Nitril, EPDM, Viton, Silicone
4	Shaft	AISI 410 / 316
5	Bearing	Steel / PTFE
6	O-ring	Nitrile EPDM, VITON, SILICONE
7	Taper pin	AISI 410/316
8	Plug	Steel
9	Bush	MICON OPHITE / PTFE

Other materials available on request.

Temperature range --20 to 180°c

-Pressure range : PN 10 & PN 16 Face to Face distance : as per ISO 5752 wafer short / BS 5155 wafer short / API 609

-suitable for mounting between flanges to ANSI, DIN and BS standards.



MATERIAL SPECIFICATION

Name of Part	MV 3000	MV 2000
1. Body	Carbon Steel	Heavy Duty Cast iron
2. Disc	Carbon Steel	Heavy Duty Cast iron
3. (Top & Bottom) Cover	Carbon Steel	Cast iron
4. Retainer plate	Carbon Steel	
5. Top & Bottom Shaft	13% Cr. Stainless Steel	
6. Body Seat	Stainless Steel	
7. Disc Seal	Nitrile Rubber	
8. Bearing	Miconophite / Phosphor Bronze	
9. Bolting	Internal Stainless Steel- External Steel	

DISK SHAFT ARRANGEMENT

The disc shaft arrangement is of eccentric type and instead of a single shaft 2 stub shafts are used. These construction features also facilitate easier operation. The drive from the shaft is transmitted to the disk by means of key which is locked in position with grub screw. This arrangement is better than any other conventional method. The body dick design is such that they provide uniform flow with least turbulence and hence minimum pressure drop.

METHOD OF OPERATION

Valves can be operated by manual gear unit or electric actuator.

STANDARDS

Face to face dimensions for MV-3000 and MV-2000 conform to AWWA C 504-00 MV-2000 Valve and flange dimension and drilling conform to ANSI B 16.1 Class 125. Face to face dimension for MV-3000 could be in conformance with BS 5155 Double Flanges Short Pattern Series Fabricated Carbon Steel Valves (MV 3000) construction conform to IS. 2825 Unfired Pressure Vessel Code.

SIZE RANGE PRESSURE RATING

	Steel Valve	Cast Iron Valve
Size	350 mm to	350 mm to
Range	1800 mm	1800 mm
Pressure	2.5 to	Upto 900 mm 10 Bar
Rating	25 Bar	Above 900 mm- 5 Bar
Model No	MV 3000	MV - 2000



Valve Type	ASME Class	Design Standard	Size
Gate	150	API 600/BS 1414	2" NB TO 48" NB
	300		2" NB TO 36" NB
	600		2" NB TO 36" NB
	900		2" NB TO 24" NB
	1500		2" NB TO 24" NB
Globe	150	BS 1872	2" NB TO 24" NB
	300		2" NB TO 20" NB
	600		2" NB TO 18" NB
	900		2" NB TO 12" NB
	1500		2" NB TO 12" NB
Swing Check	150	BS 1868 / API 6D	2" NB TO 36" NB
	300		2" NB TO 36" NB
	600		2" NB TO 30" NB
	900		2" NB TO 30" NB
	1500		2" NB TO 24" NB
Lift Check	150	BS EN ISO 15761	1/2" NB TO 1 1/2" NB
	300		
	600		
Conduit Gate	150	API 6D	2" NB TO 36" NB
	300		2" NB TO 36" NB
	600		2" NB TO 30" NB
Ball	150	BS EN ISO 17292 / BS 5351 / API 6D	1/2" NB TO 24" NB
	300		1/2" NB TO 24" NB
	600		1/2" NB TO 24" NB
	900		1/2" NB TO 24" NB
Forged Steel Gate	800	API 602 / ASME B16.34	1/4" NB TO 2" NB
	1200		1/4" NB TO 1 1/2" NB
	2500		1/4" NB TO 2" NB
Forged Steel Globe	800	BS EN ISO 15761 / ASME B16.34	1/4" NB TO 2" NB
	1200		1/4" NB TO 1 1/2" NB
	2500		1/4" NB TO 1 1/2" NB
Forged Steel Lift Check	800	BS EN ISO 15761 / ASME B16.34	1/4" NB TO 2" NB
	1500		1/4" NB TO 1 1/2" NB
	2500		

Note: Applicable standard are referred where size range exceeds design standard

Valve Shell Materials

Besides its Standard material ASTM A216 (WCB)/A 105, Micon cast steel, Forged steel & Alloy Steel Valves are optionally available with the material listed below.

ASTM Cast	ASTM Forged	Material Designation	Working Temperature F / °C ASME B16.34
A216 WCB	A 105	Carbon Steel	800 / 875 Maximum
A217 WC1	A812 F1	C-0.5 Mo	875
A217 WC6	A812 F11	1.25 Cr-0.5 Mo	100 / 693 Maximum
A217 WC9	A812 F22	2.25 Cr-1 Mo	
A217 C5	A812 F5	5 Cr-0.5 Mo	1200 / 649 Maximum
A217 C12	A812 F9	9 Cr-1 Mo	
A352 LC8	A35J LF2	Carbon Steel	-50 / -46 Minimum
A352 LCC		Carbon Steel	
A352 LL1		C-0.5 Mo	-75 / -55 Minimum
A352 LC2		2.5 Ni	100 / 73 Minimum
A352 LC3		3.5 Ni	-150 / -101 Minimum
A351 CF8M	A13C F316	13 Cr 0 Ni	1500 / 816 Maximum
A351 CF8	A152 F304	13 Cr 8 Ni	1000 / 516 Maximum
A351 CF3M	A182 F316L	16 Cr 12Ni 2Mo	850 / 454 Maximum
A351 CF3	A162 F304L	18 Cr 8 Ni	800 / 427 Maximum
A351 CN7M	ALL OY 20	20Ni 20.5Cr-3.6Cu 2.6 Mo	300 / 149 Maximum
CD4M-CU	F51	25Cr-5Ni-2Mo-3Cu	NOT TO BE USED OVER 600°F
A890 Cr, 4L, 5A	F51	25Cr-5Ni-2Mo-3Cu	NOT TO BE USED OVER 600°F

