

BUTTERFLY VALVE

Wafer Type Gear Operated Valve

GENERAL

The Butterfly Valves are designed for Chilled & Hot Water to be operated by gearbox.



PRODUCT DATA

FEATURES	
SIZE	DN50-DN600
BODY	Cast Iron (DN50-DN250) Ductile Iron (DN300-DN600)
DISC	Ductile Iron / Stainless Steel
CONNECTION TYPE	Wafer
	Tight shut-off type
	No visible leakage
	90° Opening/Closing Operation
SEAT TYPE	DN50-125 (Renewable) DN150-300 (Integral) DN350-600 (Removable Backup Ring Design)

SPECIFICATIONS	
MEDIUM	Water
MEDIUM TEMP	-10°C to 110°C
NOMINAL PRESSURE	PN16

STANDARDS AND CODES	
DESIGN STD	IS:13095
TESTING STD	IS:13095
SUITABLE FOR INSERTION BETWEEN FLANGES	IS: 1538, ISO: 7005-2, ASME B16.5, ASME B16.1, BS EN 1092-2.

HYDROSTATIC TEST PRESSURE	
SHELL TEST	24 Bar
SEAT TEST	17.6 Bar

PAINT DETAIL	
POWDER COATING	DN50-125 (Body)
EPOXY PAINT	DN150-600 (Body)
POWDER COATING	DN50-600(DI Disc)
SILVER PAINT	DN300-600 (SS Disc)

GENERAL VIEW OF DN450

Note:

1. Upper & Lower stem will be used in DI Disc till size DN200, above DN200 Sizes Single stem will be use.
2. Upper & Lower Stem will be used in SS Disc size from DN40 to DN600

PART DESCRIPTIONS

SR. NO.	NAME	MATERIAL	SPECIFICATION	QTY
1	BODY	CAST IRON / DUCTILE IRON(SG IRON)	IS:210 Gr. FG260 / IS:1865 Gr.400/15(DI)	1
2	DISC	DUCTILE IRON(SG IRON) / STAINLESS STEEL	IS:1865 Gr.400/15(DI) /ASTM A351 CF8	1
3	UPPER STEM	STAINLESS STEEL	ASTM A276 Gr, SS 410	1
4	LOWER STEM	STAINLESS STEEL	ASTM A276 Gr, SS 410	1
5	SEAT	RUBBER	EPDM	1
6	BODY BUSH	NYLON	NYLON	TO SUIT
7	O-RINGS	RUBBER	EPDM	TO SUIT
8	BOTTOM PLUG	MILD STEEL (ZINC PLATED)	IS 2062	1
9	NAMEPLATE	ALUMINIUM	-----	1
10	GEAR BOX	CAST IRON	IS.210 Gr. FG200	1
11	FASTENERS	MILD STEEL	ISO-898-1 Gr.8/8.8	TO SUIT

OUTSIDE DIMENSIONS (mm)

SIZE DN	F±2	H1±5	H2±5	H3±5	H4±5	ØD±3	Ød±10
50	41.5	67	111	50.5	62	97	220
65	44.5	74	118	50.5	62	111	220
80	44.5	85	127	50.5	62	128	220
100	50.5	101	145	50.5	64	160	220
125	54.5	120	162	50.5	68	192	220
150	54.5	134	174	50.5	68	213	220
200	59	162	220	51	82	271	220
250	66.5±3	225	285	65	118	325	311
300	76.5±3	240	315	65	124	376	311

DN350-DN600 (Backup Ring Design):

PART DESCRIPTIONS

SR. NO.	NAME	MATERIAL	SPECIFICATION	QTY
1	BODY	DUCTILE IRON (SG IRON)	IS:1865 Gr.400/15(DI)	1
2	DISC	DUCTILE IRON(SG IRON) / STAINLESS STEEL	IS:1865 Gr.400/15(DI) /ASTM A351 CF8	1
3	STEM	STAINLESS STEEL	ASTM A276 Gr, SS 410	1
4	PIN	STAINLESS STEEL	-----	TO SUIT
5	SEAT	RUBBER + ALUMINIUM	EPDM	1
6	BODY BUSH	NYLON	NYLON	TO SUIT
7	O-RINGS	RUBBER	EPDM	TO SUIT
8	BOTTOM PLUG	MILD STEEL (ZINC PLATED)	IS 2062	1
9	NAMEPLATE	ALUMINIUM	-----	1
10	GEAR BOX	CAST IRON	IS.210 Gr. FG200	1
11	FASTENERS	MILD STEEL	ISO-898-1 Gr.8/8.8	TO SUIT

OUTSIDE DIMENSIONS (mm)

SIZE DN	F±2	H1±5	H2±5	H3±5	H4±5	ØD±3	Ød±10
350	90.5	296	373	80	152	440	355
400	101.5	325	420	80	170	493	472.5
450	112.5	358	427	82	157	542	472.5
500	125.5	380	460	90	170	594	512
600	152.5±4	456	545	85	202	690	512

OUTSIDE DIMENSIONS (mm)

SIZE	KV AT DISC OPENING ANGLE (M ³ HR)								
	10°	20°	30°	40°	50°	60°	70°	80°	90°
DN50	0.08	4.0	10	19	36	51	72	101	109
DN65	0.16	6.4	16	30	52	79	116	164	177
DN80	0.24	9.7	18	31	56	93	147	221	243
DN100	0.40	14	29	63	112	185	293	439	483
DN125	0.64	23	49	107	191	315	499	748	822
DN150	1.6	36	76	165	294	487	771	1156	1270
DN200	2.4	72	153	332	591	977	1547	2321	2550
DN250	3.3	123	260	564	1006	1664	2634	3951	4342
DN300	4.1	190	402	872	1554	2571	4070	6104	6708
DN350	5	292	618	1340	2388	3951	6254	9380	10308
DN400	7	401	850	1842	3284	5434	8600	12900	14176
DN450	10	532	1126	2441	4389	7197	11390	17085	18775
DN500	12	684	1448	3138	5592	9254	14645	21968	24140
DN600	19	1057	2232	4848	8640	14297	22626	33939	37295

MODEL TABLE FOR DI DISC

SIZE	MODEL NUMBER	DESCRIPTION
DN50	BS-MWC4-PN16-0050	DN50 Manual Butterfly Valve, Gear Operated, Wafer, CI Valve Body and Powder Coated DI Disc, PN16
DN65	BS-MWC4-PN16-0065	DN65 Manual Butterfly Valve, Gear Operated, Wafer, CI Valve Body and Powder Coated DI Disc, PN16
DN80	BS-MWC4-PN16-0080	DN80 Manual Butterfly Valve, Gear Operated, Wafer, CI Valve Body and Powder Coated DI Disc, PN16
DN100	BS-MWC4-PN16-0100	DN100 Manual Butterfly Valve, Gear Operated, Wafer, CI Valve Body and Powder Coated DI Disc, PN16
DN125	BS-MWC4-PN16-0125	DN125 Manual Butterfly Valve, Gear Operated, Wafer, CI Valve Body and Powder Coated DI Disc, PN16
DN150	BS-MWC4-PN16-0150	DN150 Manual Butterfly Valve, Gear Operated, Wafer, CI Valve Body and Powder Coated DI Disc, PN16
DN200	BS-MWC4-PN16-0200	DN200 Manual Butterfly Valve, Gear Operated, Wafer, CI Valve Body and Powder Coated DI Disc, PN16
DN250	BS-MWC4-PN16-0250	DN250 Manual Butterfly Valve, Gear Operated, Wafer, CI Valve Body and Powder Coated DI Disc, PN16
DN350	BS-MWC4-PN16-0300	DN300 Manual Butterfly Valve, Gear Operated, Wafer, DI Valve Body and Powder Coated DI Disc, PN16
DN350	BS-MWC4-PN16-0350	DN350 Manual Butterfly Valve, Gear Operated, Wafer, DI Valve Body and Powder Coated DI Disc, PN16
DN400	BS-MWC4-PN16-0400	DN400 Manual Butterfly Valve, Gear Operated, Wafer, DI Valve Body and Powder Coated DI Disc, PN16
DN450	BS-MWC4-PN16-0450	DN450 Manual Butterfly Valve, Gear Operated, Wafer, DI Valve Body and Powder Coated DI Disc, PN16
DN500	BS-MWC4-PN16-0500	DN500 Manual Butterfly Valve, Gear Operated, Wafer, DI Valve Body and Epoxy Coated DI Disc, PN16
DN600	BS-MWC4-PN16-0600	DN600 Manual Butterfly Valve, Gear Operated, Wafer, DI Valve Body and Epoxy Coated DI Disc, PN16

MODEL TABLE FOR SS DISC

SIZE	MODEL NUMBER	DESCRIPTION
DN50	BS-MWC4PN16-050-2	DN50 Manual Butterfly Valve, Gear Operated, Wafer, CI Valve Body and SS Disc, PN16
DN65	BS-MWC4PN16-065-2	DN65 Manual Butterfly Valve, Gear Operated, Wafer, CI Valve Body and SS Disc, PN16
DN80	BS-MWC4PN16-080-2	DN80 Manual Butterfly Valve, Gear Operated, Wafer, CI Valve Body and SS Disc, PN16
DN100	BS-MWC4PN16-0100-2	DN100 Manual Butterfly Valve, Gear Operated, Wafer, CI Valve Body and SS Disc, PN16
DN125	BS-MWC4PN16-0125-2	DN125 Manual Butterfly Valve, Gear Operated, Wafer, CI Valve Body and SS Disc, PN16
DN150	BS-MWC4PN16-0150-2	DN150 Manual Butterfly Valve, Gear Operated, Wafer, CI Valve Body and SS Disc, PN16
DN200	BS-MWC4PN16-0200-2	DN200 Manual Butterfly Valve, Gear Operated, Wafer, CI Valve Body and SS Disc, PN16
DN250	BS-MWC4PN16-0250-2	DN250 Manual Butterfly Valve, Gear Operated, Wafer, CI Valve Body and SS Disc, PN16
DN350	BS-MWC4PN16-0300-2	DN300 Manual Butterfly Valve, Gear Operated, Wafer, DI Valve Body and SS Disc, PN16
DN350	BS-MWC4PN16-0350-2	DN350 Manual Butterfly Valve, Gear Operated, Wafer, DI Valve Body and SS Disc, PN16
DN400	BS-MWC4PN16-0400-2	DN400 Manual Butterfly Valve, Gear Operated, Wafer, DI Valve Body and SS Disc, PN16
DN450	BS-MWC4PN16-0450-2	DN450 Manual Butterfly Valve, Gear Operated, Wafer, DI Valve Body and SS Disc, PN16
DN500	BS-MWC4PN16-0500-2	DN500 Manual Butterfly Valve, Gear Operated, Wafer, DI Valve Body and SS Disc, PN16
DN600	BS-MWC4PN16-0600-2	DN600 Manual Butterfly Valve, Gear Operated, Wafer, DI Valve Body and SS Disc, PN16

For more information,

<https://honeywellbuildings.in>

Tel: +91 124 4975000

Email: BuildingAutomation.BMSIndia@honeywell.com

Honeywell Building Automation

Unitech Trade Center, 5th Floor, Sector-43,

Block C, Sushant Lok Phase - I,

Gurgaon - 122 002, Haryana, India

<https://www.honeywellbuildings.in/>

Honeywell