

# BUTTERFLY VALVE

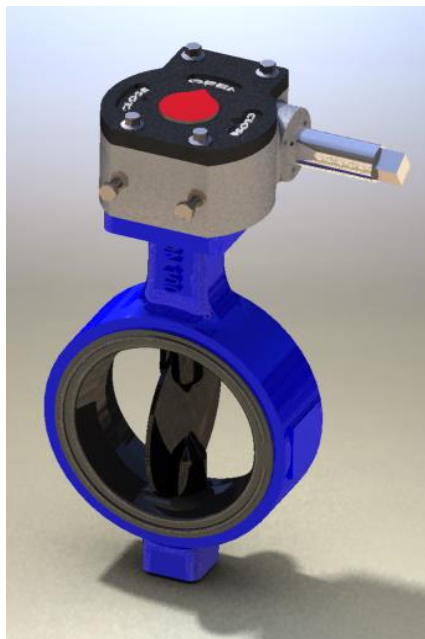
## WAFER TYPE MANUAL BUTTERFLY VALVES

- Wide Size range (DN50-DN900)
- Operated by Lever/Gear Box
- 90 deg opening/closing operation
- Ductile Iron Body with powder coating.
- Stainless Steel Disc.
- Wafer type Connection



### GENERAL

The BS-HWC4 Manual Butterfly Valves is designed for Chilled & Hot Water to be operated by Hand lever or Gear Box



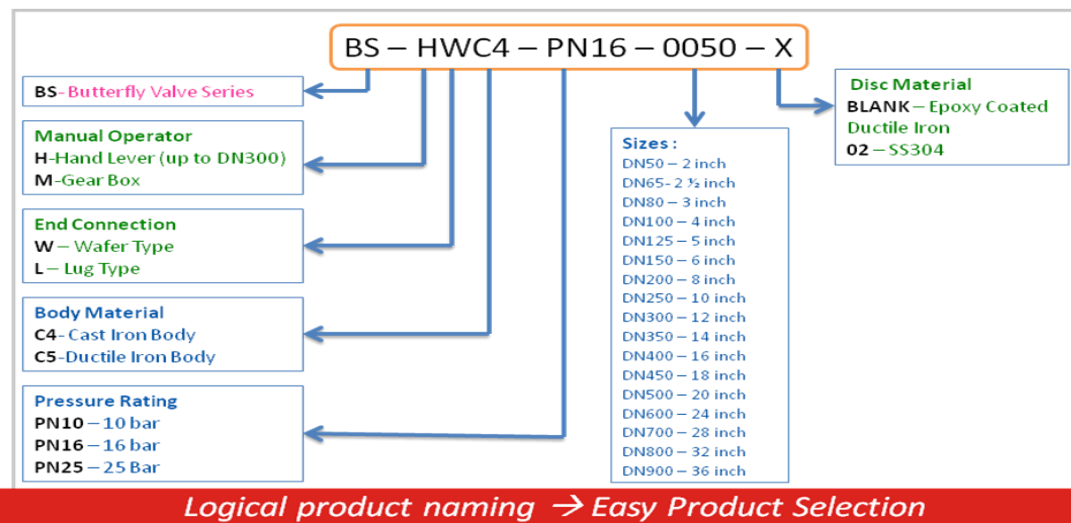
### Technical Specification

Sizes	DN50-DN900
Nominal pressure	Nominal pressure PN25
Medium Temperature	-10°C ~ +110°C Maximum
Body Material	D.I.
Stem Material	ASTM A276, GR SS 410
Disc Material	S.S.
Lever	CRCA SHEET
Leakage Rate	No visible leakage
Medium Type	Water
Flange standard	IS 1538
Shell Test pressure	37.5bar
Seal Test pressure	27.5bar

DIMENSIONS (mm)					
Size	Model Number	Max. Kvs	Manual Operator	Operator	Total Weight
DN50	BS-HWC4-PN25-0050	115	Gear Box	0.270	2.6
DN65	BS-HWC4-PN25-0065	196	Gear Box	0.270	3.1
DN80	BS-HWC4-PN25-0080	302	Gear Box	0.460	3.8
DN100	BS-HWC4-PN25-0100	600	Gear Box	0.460	5.4
DN125	BS-HWC4-PN25-0125	1,022	Gear Box	0.630	7.1
DN150	BS-HWC4-PN25-0150	1,579	Gear Box	0.630	8.3
DN200	BS-HWC4-PN25-0200	3,136	Gear Box	0.630	14.7

\*More Models please refers to the labeling method in figure.

The labeling system for manual butterfly valves is as follows:

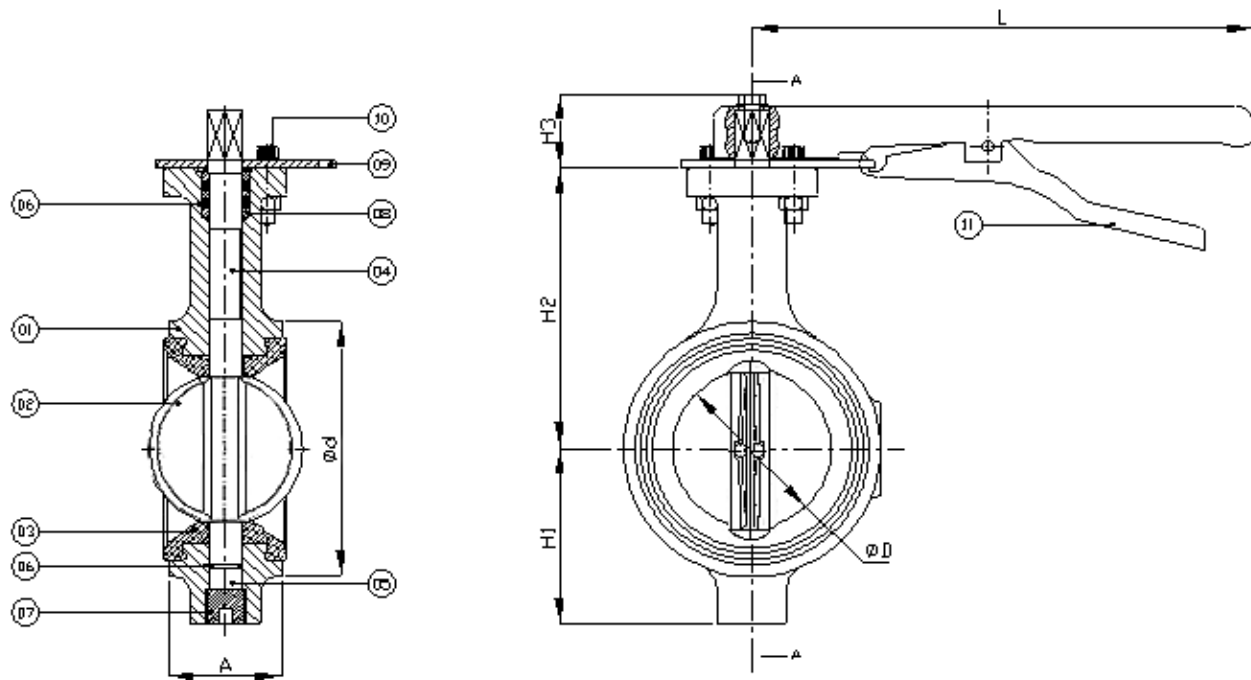


e.g. BS-HWC4-PN16-0050: Butterfly Valve Series, Hand lever Operator, End connection Wafer Type, Cast Iron Body, Nominal Pressure 16 bar, Size DN50-2 inch., Epoxy Coated Ductile Iron Disc.

e.g. BS-MWC5-PN25-0100-02: Butterfly Valve Series, Gear Box Operator, End connection Wafer Type, Cast Iron Body, Nominal Pressure 25 bar, Size DN80-4 inch., SS304 Disc.

## Part Description & Outside Dimension (mm)

### a. Valve Size DN50...200 with Gear Box Operator (PN16)



### Part Descriptions

PT No.	01	02	03	04	05	06	07	08	09	10
Parts	Body	Disc	Liner	Stem	O-Ring	Plug	Bush	Notch Plate	Fastener	Hand Lever
Material	D.I.	S.S.	EPDM	ASTM A 276, Gr SS410	EPDM	M.S (Chrome Plated)	PTFE	M.S. (Powder Coating )	S.S.	M.S. (Powder Coating )

### Outside Dimension (mm)

SIZE	A	H1	H2	H3	L	L1	ØD	Ød
DN50	43	67	110	28	175	115	50.5	94
DN65	46	75	118	34	216	115	65	110
DN80	46	82	130	34	216	115	80	127
DN100	52	100	145	39	267	115	100	150
DN125	56	114	156	39	267	115	123	175
DN150	56	135	176	39	267	115	148.5	205
DN200	60	161	220	45	350	115	197	265

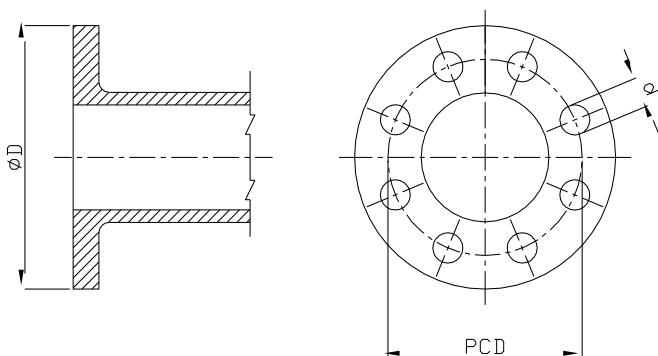
- Piping Connection Flange meets IS:1538
- It can be operated by lever or Gear Box.

**Table (2) Hydraulic Characteristics**

The below table shows the Kvs at different opening angles:

DIMENSIONS (mm)									
Size	Kvs at Disk Opening Angle								
	10°	20°	30°	40°	50°	60°	70°	80°	90°
50	0.1	5	12	24	45	64	90	125	115
65	0.2	8	20	37	65	98	144	204	196
80	0.3	12	22	39	70	116	183	275	302
100	0.5	17	36	78	139	230	364	546	600
125	0.8	29	61	133	237	392	620	930	1,022
150	2	45	95	205	366	605	958	1,437	1,579
200	3	89	188	408	727	1,202	1,903	2,854	3,136

**Table (3) Flange Dimensions (As per IS: 1538)**



Outside Dimension (mm)				
SIZE	Flange ØD	PCD	Hole Dia (d)	No. Of Holes
50	165	125	19	4
65	185	145	19	4
80	200	160	19	4
100	220	180	19	8
125	250	210	19	8
150	285	240	23	8
200	395	295	23	8
250	395	350	23	12
300	445	400	23	12
350	315	450	23	16
400	565	515	28	16
450	615	565	28	20
500	670	620	28	20
600	780	725	31	20
700	895	840	31	24
800	1015	950	34	24
900	1115	1050	34	28

For more information,  
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