STAINLESS STEEL DOUBLE FLANGE BUTTERFLY VALVE

SS304 PN16 F13C16-50
SS316 PN16 F13C16-51

FEATURES & SPECIFICATIONS

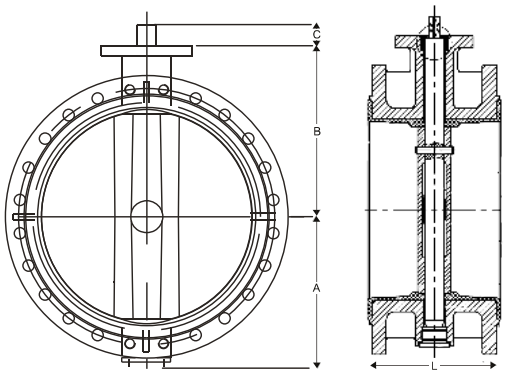
- Concentric double flange
- Comply with BS EN593 / BS 5155 (Double flange short body) / ISO 5752 / EN 558-1 Basic Series 13 (Double flange short body)
- Higher strength for disc with pinned single shaft ensure optimal alignment
- Can be installed at horizontal or vertical pipe line
- Flange drilled to EN1092-2 PN16 / ANSI Class 150 / JIS10K / AS 2129 Table E (Specify on order)

PRESSURE & TEMPERATURE RATINGS

Working Pressure	16bar
Shell Test Pressure (x1.5)	24bar
Seat Test Pressure (x1.1)	17.6 bar
Working Temperature	-20°C ... 110°C
Suitable Media	Water, Oil & Gas

MATERIAL SPECIFICATIONS

Part	Material
Body	Stainless Steel 304
	Stainless Steel 316
Disc	Stainless Steel 304
	Stainless Steel 316
Stem	Stainless Steel 410
Seat Ring	EPDM
O-Ring	EPDM



DIMENSIONS

(mm)

DN (mm)	50	65	80	100	125	150	200	250	300	350	400	450	500	600
DN (inch)	2	2½	3	4	5	6	8	10	12	14	16	18	20	24
A	80	90	88	108	123	140	178	198	230	260	290	330	290	435
B	130	140	157	165	180	200	212	280	310	325	370	392	431	505
C	25	25	25	28	28	28	35	40	40	40	50	55	65	70
L	108	112	114	127	140	140	152	165	178	190	216	222	229	267

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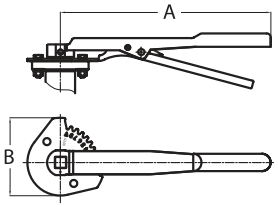
DIMENSIONS - VALVE OPERATOR

Malleable Iron / Stainless Steel Lever
Stainless Steel SUS304 Top Indicator Plate

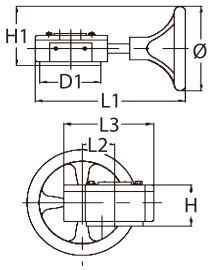
(mm)

DN (mm) (inch)	50-80 2-3	100-125 4-5	150 6	200 8
A	195	266	328	386
B	95	109	109	164



Cast Iron 1-Stage Worm Gear and Handwheel
Carbon Steel Gear Box Shaft

VALVE DIAMETER	D1	ø	H	H1	L1	L2	L3
DN50 - DN150	108	145	65	113	212	45	129
DN200 - DN250	146	285	70	182	305	62	171
DN300 - DN350	165	285	77	182	300	85	198
DN400 - DN450	234	385	103	247	423	120	280
DN500 - DN600	276	385	143	270	490	122	316



INSTALLATION & OPERATION GUIDE

1. Ensure sufficient space for valves for easy installation, operation, maintenance and replacement.
2. Verify the valves are suitable for the operating condition such as medium, operating pressure / temperature, etc.
3. Check the I.D. of the flange and pipe to ensure free disc movement.
4. Valves shall be mounted on flanges only after the counter flanges have been welded to pipe and cooled down to the atmospheric temperature. Welding heat may damage the rubber seat of the valves. Never weld the flanges with valves installed. No gasket is required for installation of rubber seated butterfly valves.
5. Position the valves carefully between flanges. Accurate centering between flanges is essential to prevent any damages and problems during operation.
6. Valves should be installed by placing bolts through the hole and tightening carefully, ensuring even contact between the flange and seat. Too tight of space may cause damages to the seat and should be avoided.
7. Cross tighten all the bolts diagonally to distribute the loads evenly over the valves.
8. Turning the valves to ensure sufficient disc clearance.
9. Valves equipped with manual operators must be operated manually. Excessive external force on the operation of valve may damage the valve and / or operator.
10. Blind flange with short pipe should be used for dead end installation.

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