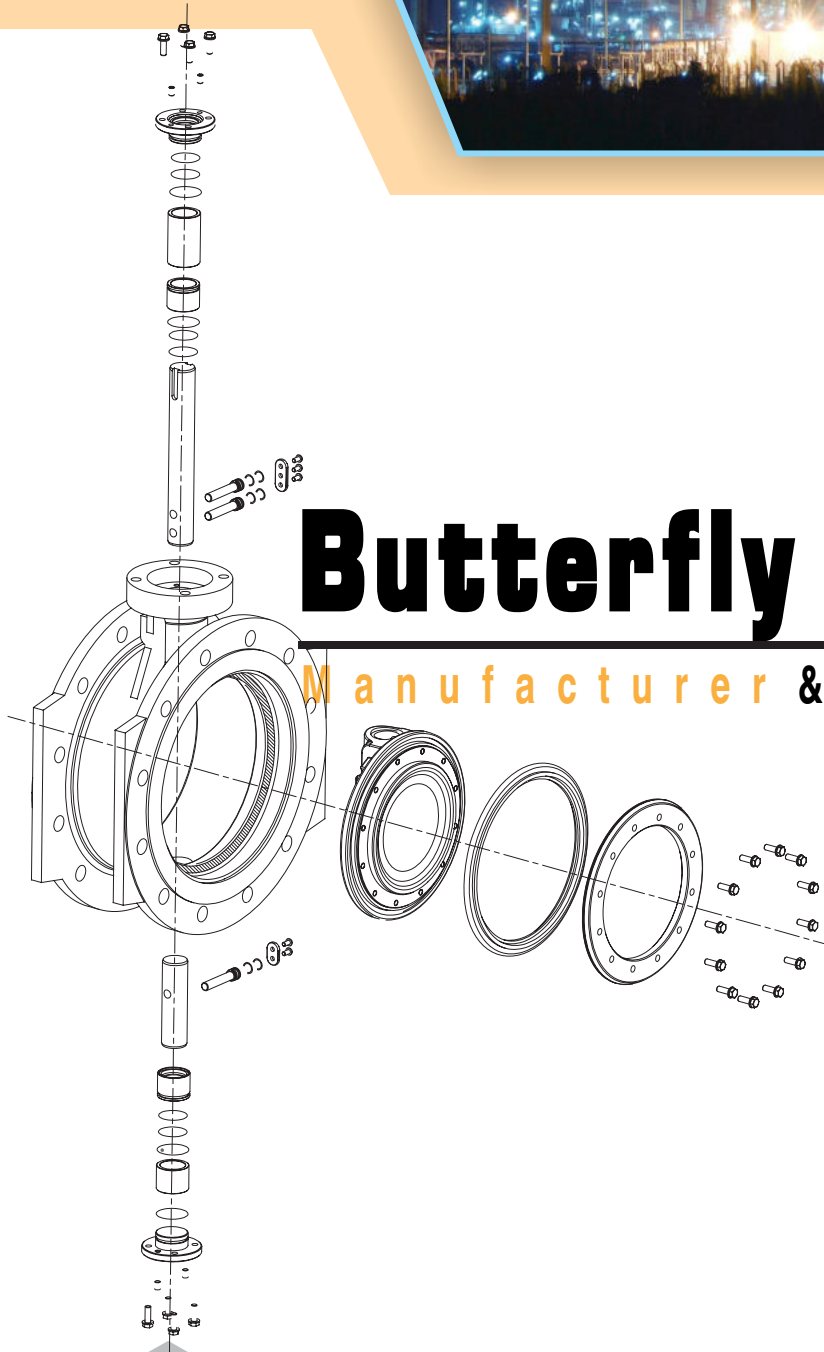




Butterfly Valves

Manufacturer & Exporter

**J.R.
INDUSTRIES®**

India's first choice in quality valves

- **ISO** (International Organization for Standardization)
- **IBR** (Indian Boiler Regulations)
- **IEC** (Import Export Code)



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SPECIFICATIONS

Valves must meet MSS SP-68, API 609 for high pressure butterfly valves with offset seat, disc and stem design.

The valve must meet the latest ASTM, ANSI and API standards for material, design and testing specifications. Stem bearings must be constructed of PTFE and stainless steel material.

The valve seat must be supported by a stainless steel spring and energized by line pressure for a bubble tight seal. Stem is to be one piece design, with disc attached by two seal-welded stainless steel taper pins.

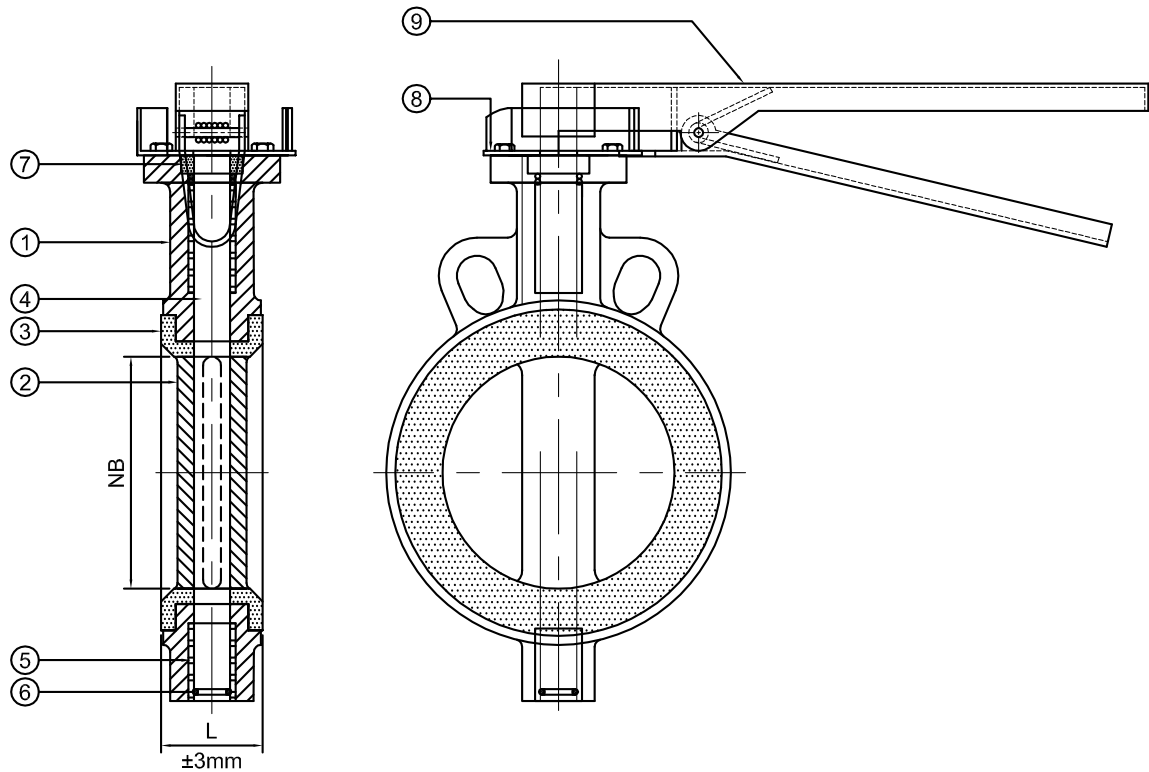
Packing must have an adjustable, two-bolt pull down design.

Lugged valve must be capable of fully rated double dead-end service.



INSPECTION BY THE PURCHASER

If inspection by the purchaser is specified in the purchase order and a detailed procedure is not included, inspection shall be in accordance with API Standard 598. If inspection is not specified in the purchase order, the valve shall be capable of meeting the inspection requirements described in API Standard 598.



150#		
SIZE	NB	L
1½"	38	33
2"	50	43
2½"	65	46
3"	75	46
4"	100	52
5"	125	56
6"	150	56
8"	200	60
10"	250	68
12"	300	78
14"	337	78
16"	387	102

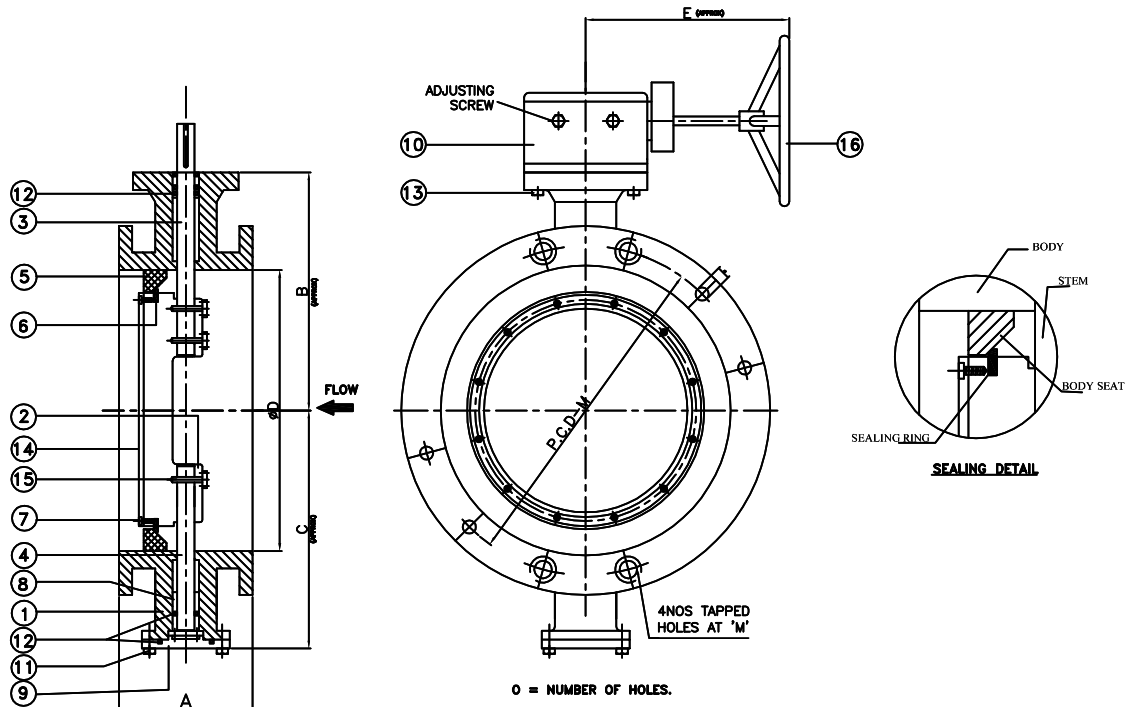
BILL OF MATERIALS		
SR. No.	PARTS NAME	MATERIALS SPECIFICATION
1	BODY	S.G. IRON
2	DISC	S.S. 304
3	SEAT	FEP (PTFE)
4	STEM {SHAFT}	S.S.
5	BEARING BUSH	PTFE
6	'O' RING	NITRIL
7	GLAND BUSH	PTFE
8	SCALE PLATE	M.S. FABRICATED
9	HAND LEVER	M.S. FABRICATED

all dimensions are in mm.

Gear Operated Optional as per Requirements.

- **Special Requirements:** Special Material Customer Specific design & Internal Parts Provide as per Requirement & on Request.

BUTTERFLY VALVES



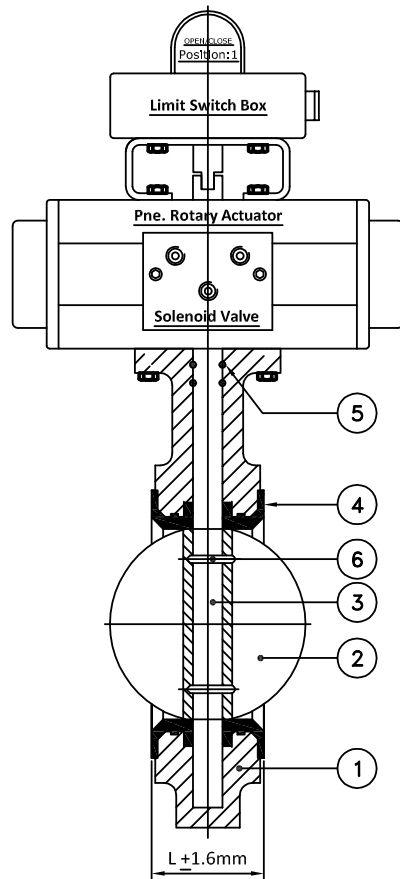
mm	Inch	A	B	C	D	E
350	14	190	320	308	355	268
400	16	216	360	343	404	263
450	18	222	390	373	454	312
500	20	229	420	408	504	359
600	24	267	500	464	606	463
700	28	292	565	532	706	430
800	32	318	630	650	806	615
900	36	330	695	735	908	930
1000	40	410	745	765	1008	930
1200	48	470	855	880	1210	645
1400	56	530	990	1015	1410	930
1600	64	600	1070	1190	1610	735

No.	Description	Material
01	Body	SS/MS Fabricated
02	Disc	S.G. Iron SS304 SS316
03	Stem Upper	SS410 SS304 Ss316
04	Stem Lower	SS410 SS304 Ss316
05	Body Seat	SS304 SS316
06	Sealing Ring	Nitrile E.P.D.M Silicon Viton Hypalon
07	Hex Cap Screw	SS304 SS316
08	Lower Stem Bearings	Standard
09	Bottom Cap	Stainless Steel
10	Gear Box	Cast Iron
11	Hex Screw	Stainless Steel
12	O-Ring	Nitrile
13	Hex Screw & Spiring Washer	Stainless Steel
14	Disc Clamping Ring	SS304 Ss316
15	Hex Bolt	SS304 SS316
16	Hand Wheel	SS/MS Fabricated

Seat Type	Min.	Max.
Nitrile	-13 °F (-25°C)	212 °F (100°C)
EPDM	-13 °F (-25°C)	250 °F (121°C)
Silicon	-58 °F (-50°C)	356 °F (180°C)
Viton	-23 °F (-30.6°C)	392 °F (200°C)
Hypalon	-4 °F (-20°C)	250 °F (121°C)

Conformity Codes & Standards

- 1) General Design & Manufacturing : BS 5155 | API 609 | EN 593 | IS 13095 | SP67
- 2) Valve Face to Face Dimension : BS 5155 | ISO 5752 | API 609
- 3) Top Flange Drilling : ISO 5211
- 4) Valve Inspection & Testing : BS 6755 -1 | API 598 | EN 12266-1
- 5) Flange Standard Conformity : ANSI 150 | ANSI 125 | BS 10 Table D & E
: IS 6392 PN-0.6 | PN-1.0 | PN-1.6



TOP FLANGE DRILLING : ISO 5211

F To F Dimension : BS 5155/API-609/ISO 5752

General Design&Mfg. : BS 5155/API-609/EN 593/IS 13095

Pressure Rating : PN 10/PN 16

Body Design : Wafer Type

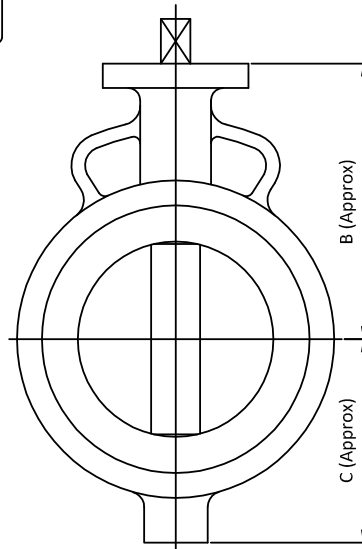
End Connection : Wafer Type To Suit Between

ANSI B 16.5/BS 10/DIN Flanges

End Connection : Flangeless, Sandwich, Wafer Type

FEATURES

- * Zero Leakage, Tight Shut Off
- * Lower Torque, Smooth Operation
- * Available In Different Combination Of Body, Disc & Seat.
- * Universal Design To Fit Between Pipe Flanges
- * Long Life, Easy Operatoin & Installation



Design Standard : BS 5155/API 609

Dimensions [PN 10 / PN 16]

SIZE	40	50	65	80	100	125	150	200	250	300
L	36	43	46	46	52	56	56	60	68	78
B	92	103	110	118	148	164	176	230	266	300
C	52	70	76	85	105	115	130	156	196	230

All Dimensions Are In mm

Testing Standard : BS 6755-I

Test Pressure in PSIG / BAR / KG./CM ²						
Test	Hydrostatic					
Pr. Rating	PN10			PN16		
Body	425	15.1	14.8	340	23.9	23.4
Seat	300	10.2	10	230	16.1	15.8

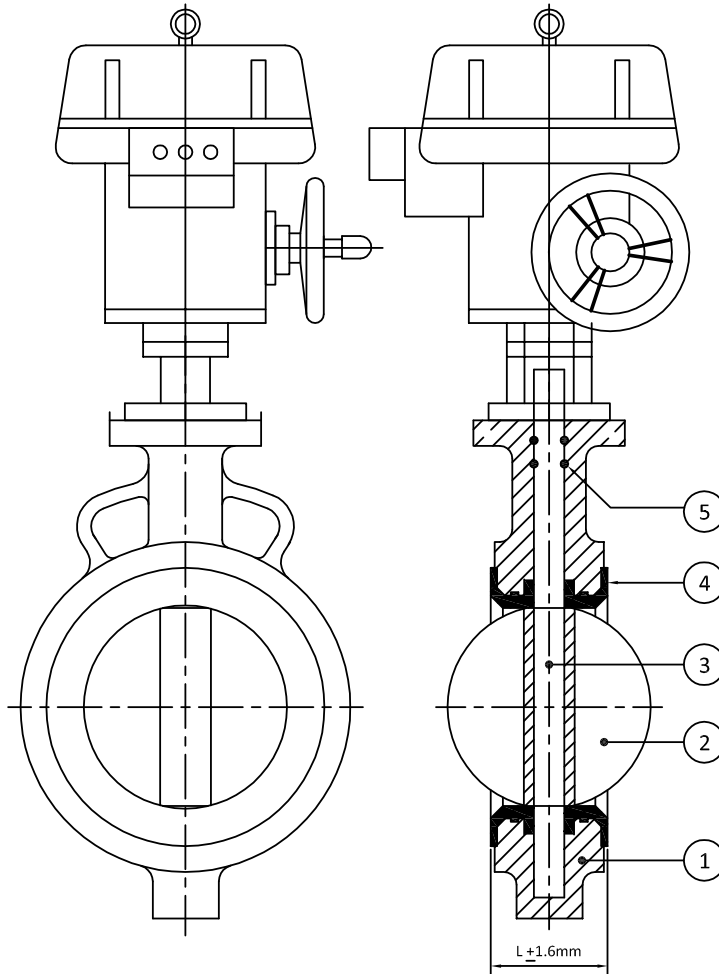
SEAT TYPE	TEMERATURE RANGE	
	Min.	Max.
NITRILE	-13°F(-25°C)	212°F(100°C)
EPDM	-13°F(-25°C)	250°F(120°C)
SILICON	-58°F(-50°C)	356°F(180°C)
VITON	-23°F(-5°C)	392°F(200°C)
HYPALON	-4°F(-20°C)	250°F(120°C)

all dimensions are in mm.

Gear Operated Optional as per Requirements.

- **Special Requirements:** Special Material Customer Specific design & Internal Parts Provide as per Requirement & on Request.

BUTTERFLY VALVES



Design Standard: BS 5155/API 609

DIMENSIONS [PN 10]

SIZE	50	65	80	100	125	150	200	250	300
L	43	46	46	52	56	56	60	68	78

All Dimensions Are In mm

Testing Standard : API 598

Test Pressure In PSIG / Kg./Cm ²				
Test	Hydrostatic		Air	
Shell	210	15		
Seat	140	10	78	5.6
Others				

SEAT TYPE	TEMPERATURE RANGE	
	Min.	Max.
NITRILE	-13°F(-25°C)	212°F(100°C)
EPDM	-13°F(-25°C)	250°F(120°C)
SILICON	-58°F(-50°C)	356°F(180°C)
VITON	-23°F(-5°C)	392°F(200°C)
HYPALON	-4°F(-20°C)	250°F(120°C)

OPERATING MECHANISMS

Levers, gear operators, handwheel, and automatic actuators shall be equipped with provisions to prevent movement of the disc from the desired set position during normal operating conditions. Normal operating conditions include throttling service when specified by the purchaser.

RETAINING RING: Two point adjustable packing load for easy adjustment, stainless steel materials for corrosion resistance.

BUSHING: Provides additional stem retention for blowout proof safety.

Packing: Minimize stem emissions and maintenance over thousands of cycles.

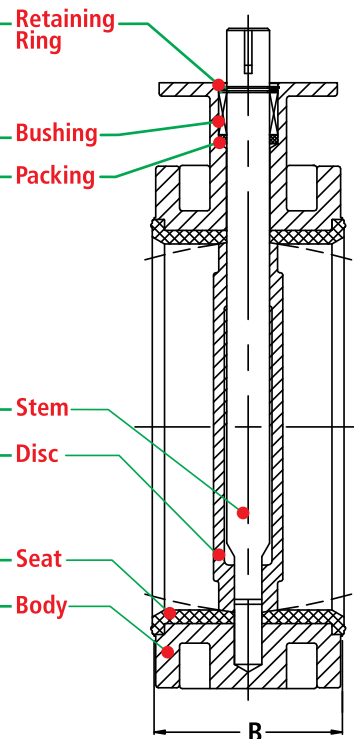
STEM SHAFT: One piece design provides rigid support and alignment for the disc.

DISC: CF8M stainless steel, double-offset design ensures low operating torque and provides positive bi-directional sealing and extended life.

SEAT: Bi-directional shut off with stainless steel spring for improved sealing life (standard RPTFE, available in PTFE)

BODY MATERIALS AND TYPES:

- WCB (carbon steel)
- CF8M (stainless steel)
- ANSI Class 150
- ANSI Class 300
- Wafer styles
- Lug styles



STANDARD SPECIFICATION

Design Standard : API 609 | BS 5155 | Sp67

Testing Standard : API 598

Pressure Rating : 150# | 300# | PN 10 | PN 16

Types : Wafer | Lug | Flanged

End to End : API 609 | BS 5155

End Connections : Wafer Type Suitable to ANSI B16.5
Flanged Ends & Lug Types.



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