

BALL VALVE

SINGLE PIECE (SCREW END)

**CLASS
150**

TECHNICAL DATA

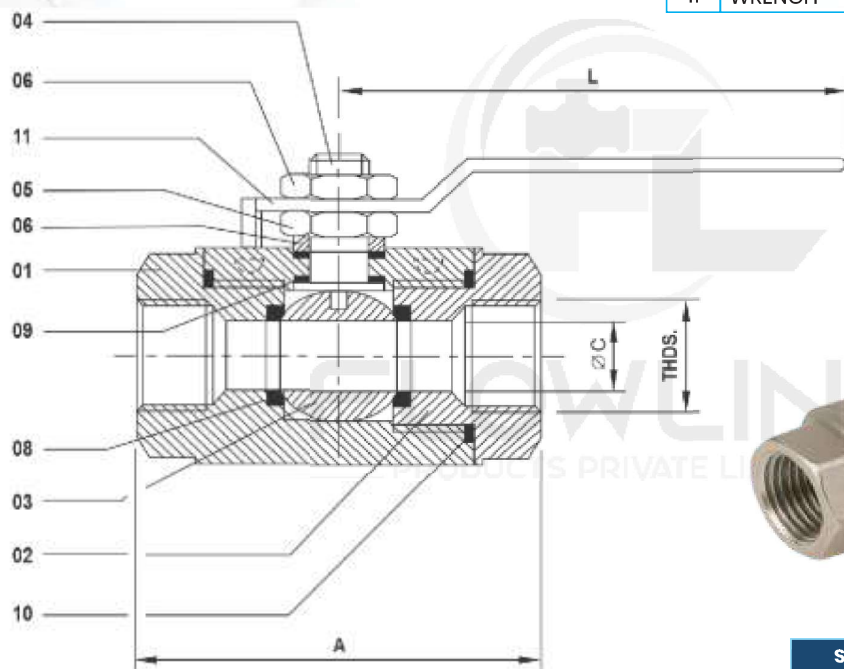
DESIGN & MANUFACTURING STD. : BS 5351, 602, IS:9890

TESTING & INSPECTION STD. : API 598

FACE TO FACE: AS PER ANSI B 16.10

END CONNECTIONS : SCREWED : (BSP, BSPT, NPT)

NO.	DESCRIPTION	MATERIAL	QTY
01	BODY	C.I. / C.S. / S.S. 304 / S.S.316	1
02	BODY CONNECTOR	C.I. / C.S. / S.S. 304 / S.S.316	1
03	BALL	AISI 304 / AISI 316	1
04	STEM	AISI 304 / AISI 316	1
05	GLAND NUT	AISI 304 / AISI 316	1
06	GLAND BUSH	AISI 304 / AISI 316	1
07	LOCK NUT	AISI 304 / AISI 316	1
08	SEAT RING	PTFE	2
09	STEM SEAL	PTFE	2
10	BODY SEALENT RING	PTFE	1
11	WRENCH	M.S. / S.S.	1



PRIMARY SERVICE RATING & TEST PRESSURE				
CLASS	WORKING PRESS.	HYD. TEST PRESSURE		
		BODY	SEAT	TEMP.
150	150 PSIG	500 PSIG	230 PSIG	200°F
AIR TEST - SEAT		80 PSIG ± 10 PSIG		

SIZE		A	ØC	L	THDS. BSIP / BSPT / NPT
IN.	M.M.				
1/2"	15	72	12	125	1/2"
3/4"	20	77	18	125	3/4"
1"	25	87	25	125	1"
1.1/4"	32	101	32	175	1.1/4"
1.1/2"	40	117	38	175	1.1/2"
2"	50	127	50	175	2"
2.1/2"	65	151	63	252	2.1/2"
3"	80	171	75	252	3"

ALL DIMENSION ARE IN MM

BALL VALVE

THREE PIECE (FLANGE END)

**CLASS
150/300**

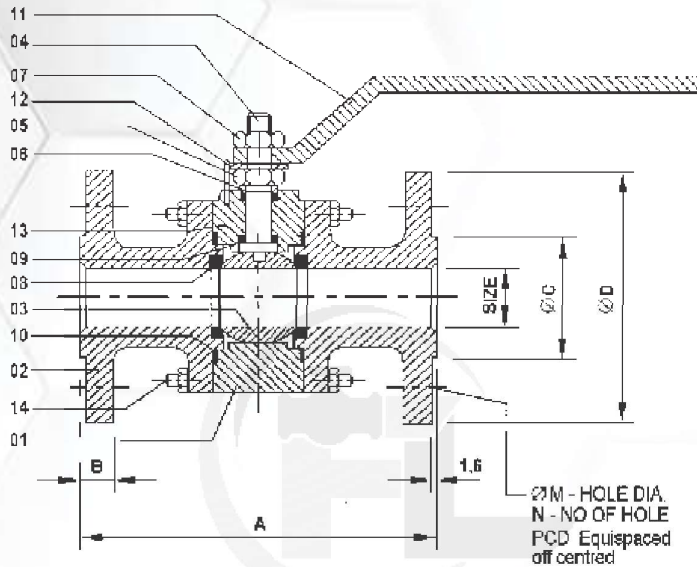
TECHNICAL DATA

DESIGN & MANUFACTURING STD. : BS 5351, API 6D,

TESTING & INSPECTION STD. API 598

FACE TO FACE: AS PER ANSI B 16.10

END CONNECTIONS : FLANGED AS PER ANSI B 16.5



PRIMARY SERVICE RATING & TEST PRESSURE				
CLASS	WORKING PRESS.	HYD. TEST PRESSURE		
		BODY	SEAT	TEMP.
150	150 PSIG	425 PSIG	300 PSIG	200°F
300	300 PSIG	1100 PSIG	800 PSIG	200°F
AIR TEST - SEAT		80 PSIG ± 10 PSIG		

NO.	DESCRIPTION	MATERIAL	QTY
01	BODY	C.I. / C.S. / S.S. 304 / S.S. 316	1
02	BODY CONNECTOR	C.I. / C.S. / S.S. 304 / S.S. 316	1
03	BALL	AISI 304 / AISI 316	1
04	STEM	AISI 304 / AISI 316	1
05	GLAND NUT	AISI 304 / AISI 316	1
06	GLAND BUSH	AISI 304 / AISI 316	1
07	LOCK NUT	AISI 304 / AISI 316	1
08	SEAT RING	PTFE	2
09	STEM SEAL	PTFE	2
10	BODY SEALANT RING	PTFE	1
11	WRENCH	C.S. / S.S. 304 / S.S. 316	1
12	STOP	C.S. / S.S. 304 / S.S. 316	1
13	STOPPER PIN	C.S. / S.S. 304 / S.S. 316	1
14	STUD & NUT	C.S. / S.S.	-

SIZE		CLASS - 150							
IN	M.M.	A	B	ØC	ØD	ØM	N	PCD	
1/2"	15	108	10.0	35	88.0	16	4	60.4	
3/4"	20	118	10.5	43	98.0	16	4	69.8	
1"	25	127	11.0	51	108.0	16	4	79.2	
1 1/4"	32	140	12.7	64	117.0	16	4	88.9	
1 1/2"	40	165	14.2	73	127.0	19	4	98.5	
2"	50	178	15.7	92	152.0	19	4	120.6	
2 1/2"	65	191	17.5	105	178.0	19	4	139.7	
3"	80	203	19.0	127	190.5	19	14	152.4	
4"	100	229	24.0	157	229.0	19	8	190.5	
5"	125	254	24.0	186	254.0	22	8	215.9	
6"	150	287	25.0	216	279.0	22	8	241.3	
8"	200	292	28.5	270	343.0	22	8	298.4	
10"	250	330	30.0	324	406.0	25	12	362.0	

SIZE		CLASS - 300							
IN	M.M.	A	B	ØC	ØD	ØM	N	PCD	
1/2"	15	140.0	14.2	35	95.0	16	4	66.5	
3/4"	20	152.0	15.7	43	117.0	19	4	82.5	
1"	25	165.0	17.5	51	124.0	19	4	88.9	
1 1/4"	32	178.0	19.0	64	133.0	19	4	98.5	
1 1/2"	40	190.5	20.5	73	155.5	22	4	114.3	
2"	50	216.0	22.0	92	165.0	19	8	127.0	
2 1/2"	65	241.0	25.0	105	190.5	22	8	149.3	
3"	80	282.5	28.5	127	209.5	22	8	168.0	
4"	100	305.0	32.0	157	254.0	22	8	200.0	
5"	125	381.0	35.0	186	279.4	22	8	235.0	
6"	150	403.0	36.5	216	317.5	22	12	269.7	
8"	200	419.0	41.0	270	381.0	25	12	330.2	
10"	250	457.0	47.5	324	444.5	28	16	387.4	

ALL DIMENSION ARE IN MM

WAFER TYPE CHECK VALVE

**CLASS
150**

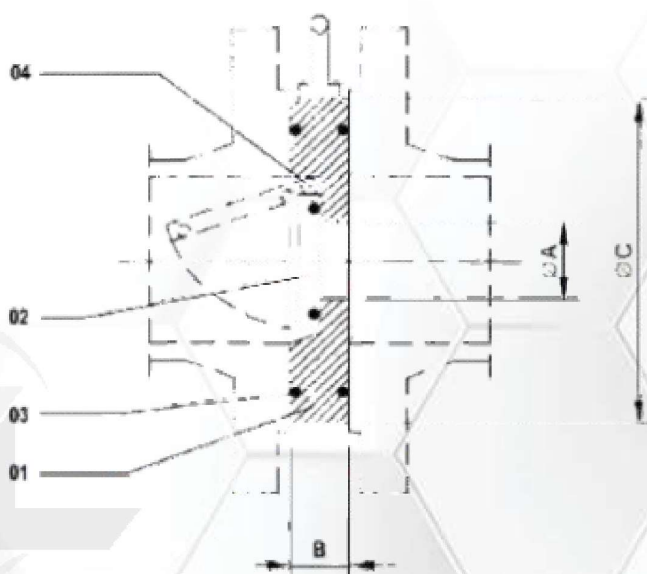
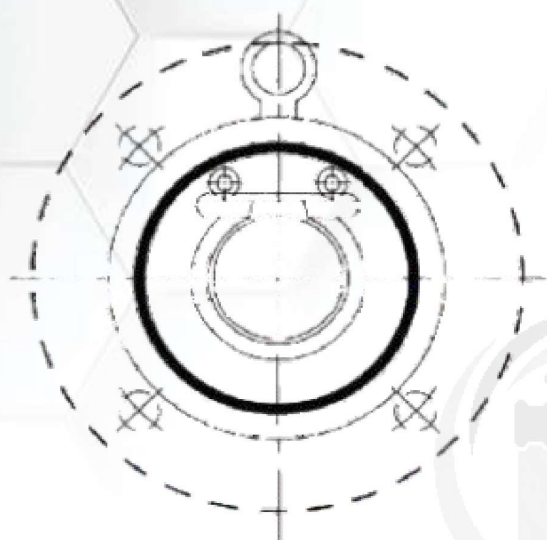
TECHNICAL DATA

DESIGN & MANUFACTURING STD.: API 60 / ANSI B 16.34

TESTING & INSPECTION STD.: API 598

PRESSURE CLASS : DN ND 10, ND 16 &
ND 40, ASA 150, 300

NO.	DESCRIPTION	MATERIAL	QTY
01	BODY	C.I. - IS:210 GR. FG 200	1
		C.S. - ASTM A216 GR. WCB	
		S.S. - ASTM A 351 CF8/CF8M	
02	DISC	C.I. - IS:210 GR. FG 200	1
		C.S. - ASTM A216 GR. WCB	
		S.S. - ASTM A 351 CF8/CF8M	
03	'O' RING	NITRILE, EPDM, VITON,	2 + 1
		SILICON, PTFE	
04	HINGE PIN	AISI 304, 316	1



PRIMARY SERVICE RATING & TEST PRESSURE			
CLASS	WORKING TEMP.	HYD. TEST PRESSURE	
		BODY	SEAT
150	20°C TO 180°C	225 PSIG	150 PSIG

SIZE	IN.	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
	M.M.	50	65	80	100	125	150	200	250	300
ØA		30	40	52	71.5	93	114	157	195	240
B		19	19	19	19	19	19	29	29	38
ØC		105	124	137	175	197	222	279	340	410

ALL DIMENSION ARE IN MM

BUTTERFLY VALVE

**WAFER TYPE
/ LUG TYPE**

TECHNICAL DATA

DESIGN & MANUFACTURING STD. : API 609 / IS : 13095

TESTING & INSPECTION STD. : API 598 / IS : 13095

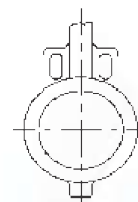
SIZE RANGE : 50 TO 600 M.M.

PRESSURE RATING: 10 BAR MAX (140 PSI)

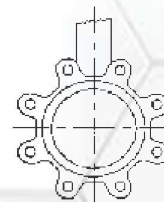
TEMP. RATING : MATERIAL WILL BE SELECTED

ACCORDING TO SERVICE.

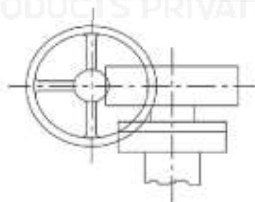
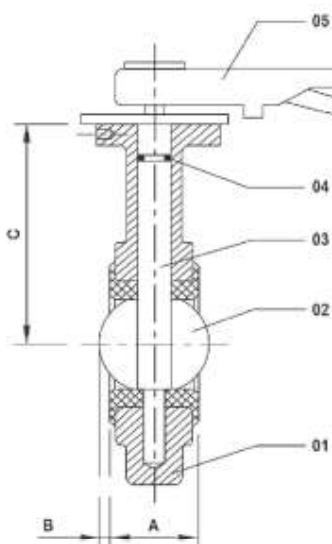
NO.	DESCRIPTION	MATERIAL	QTY
01	BODY	CAST IRON IS:210 GR. FG. 200 MIN. / S.S. 304 / S.S. 316 WITH INTEGRALLY MOULDED	1
02	DISC	CAST IRON / S.S. 304 S.S. 316 APOXY NYLON COATED	1
03	STEM	S.S. 410	1
04	'O' RING	NITRILE RUBBER	1
05	LEVER BRACKET	S.S.	1
06	LEVER	M.S. / CAST IRON	1



**VALVE WITH WAFER
FLANGELESS DESIGN**



**VALVE WITH WAFER
FLANGELESS DESIGN**



**GEAR BOX MOUNTING
AVAILABLE ON REQUEST**

SEAT

EPDM	-20° C + 120° C
NBR	-10° C + 80° C
HYDALON	-20° C + 135° C
VITON	-18° C + 150° C
SILIKON	-20° C + 180° C

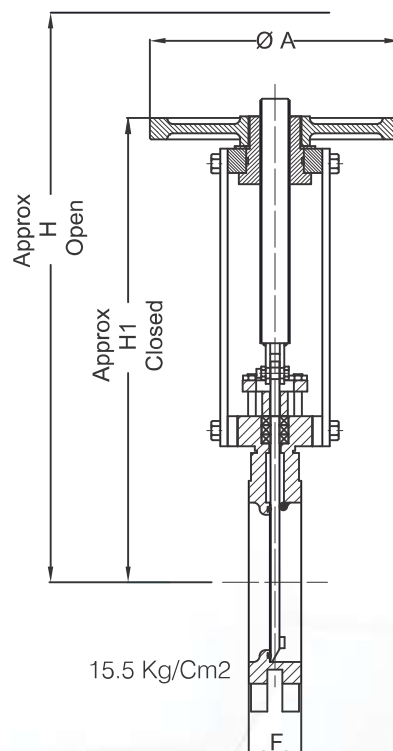
TEST PRESSURE - BAR	
BODY / DISC	SEAT
24	17,6

SIZE		A	B	C
IN.	M.M.			
2"	50	43	4	99
2 1/2"	65	46	10	110
3"	80	46	16	116
4"	100	52	23	134
5"	125	56	32	164
6"	150	56	45	177
8"	200	60	67	235
10"	250	68	88	259
12"	300	78	106	284
14"	350	92	128	318
16"	400	102	144	384

ALL DIMENSION ARE IN MM

Knife Edge Valve

WAFER TYPE
/ LUG TYPE



Hydrostatic Test Pressures Kg/Cm2 :

Scope	Size Range	Manufacturing Standard and Pressure Rating	Hydrostatic test Pressures Kg/Cm2:	
			Body	Seat
Standard Supply	50 mm-1000mm	PN 10 as per MSS SP81	15.5 kg/cm ²	2.8 Kg/Cm ²
Optional	For Higher Pressure ratings can be supplied on case to case basis.			

Material of Construction :

Scope	Body/Gland	Gate	Stem	Gland Packing	Seat
Standard	CI IS:210 Gr. FG260	SS 304	SS ASTM A276 Type 410	PTFE	EPDM
Optional	CI IS:210 GR FG260, CS ASTM A216 Gr WCB/ SS ASTM A351 Gr CF8/CF8M CF3/CF3M	MS, SS 316	SS ASTM A276 Type 304/316/431	PTFE	St.St.304 316 Buna -N Viton

Note : 1. For special material of construction ,Contact Design Office.

2. Protective coating for Body as per requirement.

Technical Specifications :

Design and Manufacturing Standard	MSS SP 81
Testing Standard	MSS SP 81
Size Range	50 mm - 1000 mm
Pressure Rating	PN 10

Note: 1. For Higher Pressure Rating contact Design Office.