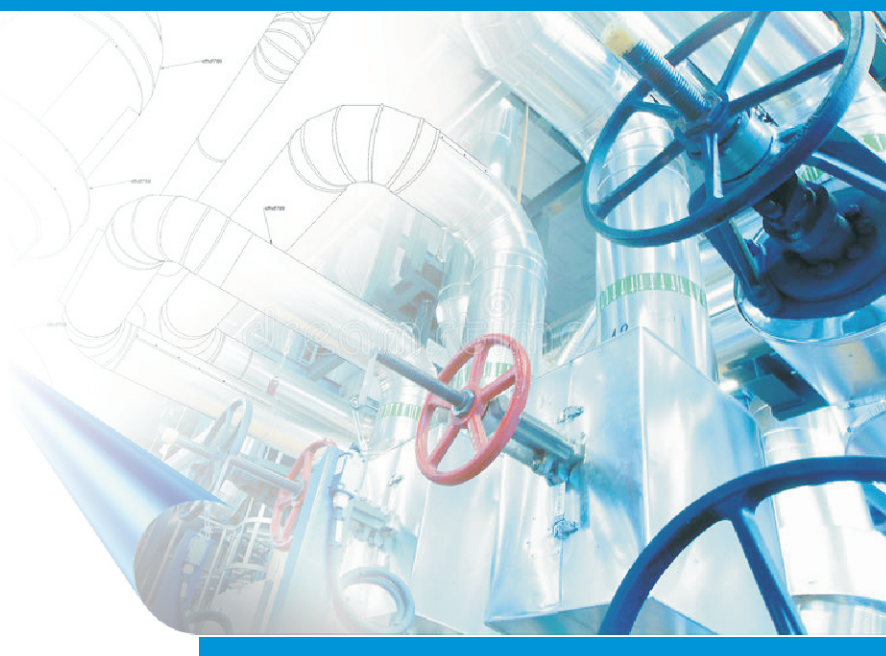


TECHINAL BOOK



ALLIED INDUSTRIAL PRODUCTS

REGISTERED & CORPORATE OFFICE :
3237, Bearing Bazar, Kadiakui Corner,
Relief Road, Ahemdabad - 380001

FACTORY WORKS 1 :
Mohammadi Estate, Near Rehan Masjid,
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ALLIED INDUSTRIAL PRODUCTS

We KING VALVES INDIA also known as LEVEL VALVE PRODUCTS the valve manufacturer over 25 Years experience supplying of industrial valves. KING VALVES INDIA is professional manufacturer of industrial valves located in ahmedabad as a famous hometown of valves in india, "KING VALVES INDIA" is valves manufacturer and exporter.

We Manufacture Quality Valves for a Wide Spectrum of Users in the Process & Chemicals, Refineries & Petrochemicals, Drugs & Pharmaceuticals, Slurry & Ash Handling, Onshore & Offshore Platforms, Dyes & Intermediates, Breweries & Distilleries, Pulp & Papers, Water Works (Water Treatment Plants, Effluent Treatment Plants and Sewage Treatment Plants), Fertilizers, Thermal Power Stations, Textiles and Sugars.

Our Company Has Always Been Devoted To Research, Development, Manufacturing and Distribution of High Quality Specialized INDUSTRIAL VALVES. Our Main Products Include Cast Iron, Cast Steel, Stainless Steel, Investment Casting As Well As Alloy Steel in GATE VALVE, GLOBE VALVE, CHECK VALVE, BUTTERFLY VALVE, KNIFE EDGE GATE VALVE, PULP VALVE, BALL VALVE, STRAINERS, WAFER CHECK VALVE, FLANGES & FITTINGS Which are all Made in Accordance With Customer Requirements and Specifications in API, ASME, MSS SP 81, DIN, BS, EN, GB and etc.

KING VALVES INDIA Manufacturing Equipped Machinery. The Company has Sophisticates Testing Facilities For Raw Materials and HYDRO TESTING Unit for final Products that Assure High Quality Standards For The Products Of the company.

We Invite Your Inquiries as well as The Future Opportunity to Assist You With Our Products and we look Forward to work with You.

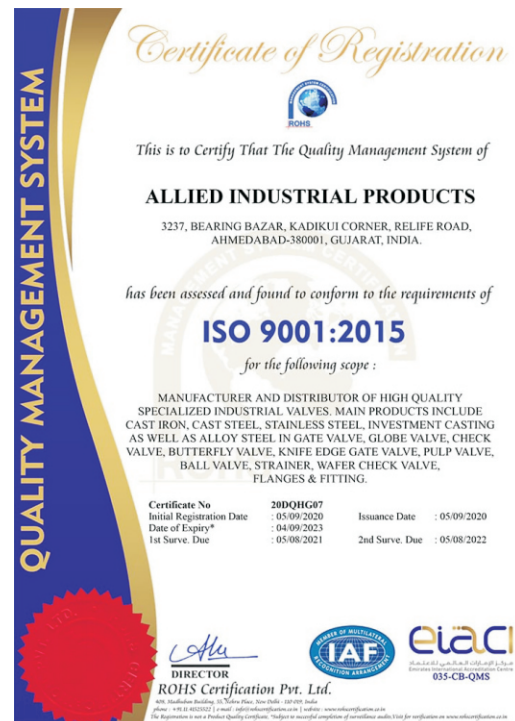


Quality Policy

"Allied Industrial Products" - LEVEL MARK is one of the leading manufacturers of Industrial Valves like, Ball Valve, Gate Valve, Globe valve, Butterfly valve, Swing check valve, Wafer Check Valve, Dual Plate Check Valve, Knife Edge Gate Valve Strainer, Flanges and Fitting etc. **Allied Industrial Products** has been servicing the Oil Industries, Petro Chemical Industries, Pharmaceuticals Unit, Power Plants, Refineries, Paper Industries, Cement Plants, and Thermal Power Plants with product range in size 15 mm to 600 mm and pressure rating up to 2500 class.

"Allied Industrial Products" - LEVEL MARK designs systems, processes, products and organizational structure are geared towards ensuring that every product to the customers passes through our stringent systemic quality measures. This quality policy believes in stretching innovative thinking to its limits while exhibiting a no-compromise attitude towards quality.

Nizamuddin Bastawala
Proprietor





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CLASS
150 / 300



GATE VALVE

PAGE NO.
01

TECHNICAL DATA

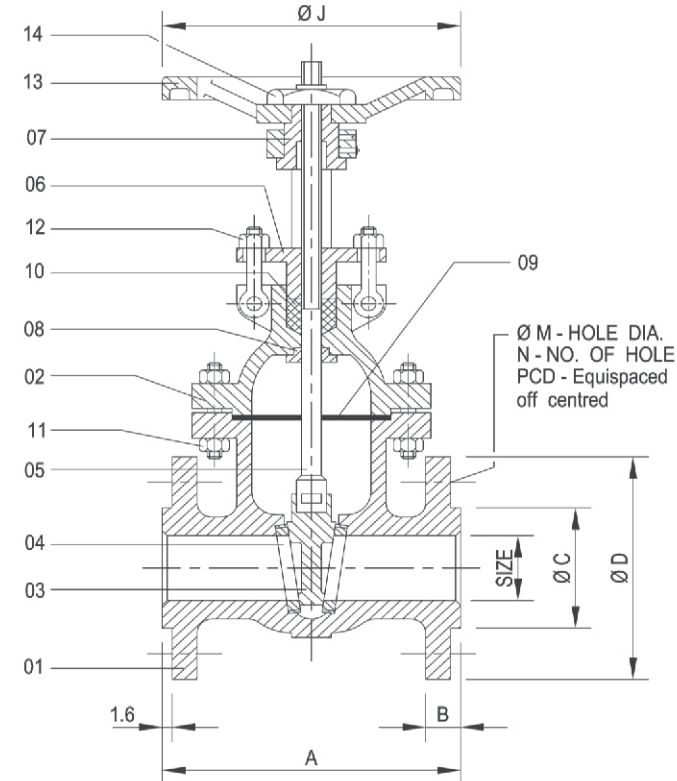
MANUFACTURING STD. : API 600

TESTING & INSPECTION STD. : API 598

FACE TO FACE : AS PER ANSI B 16.10

SHELL WALL THICKNESS : ANSI B 16.34

END CONNECTIONS : FLANGED AS PER ANSI B 16.5



PRIMARY SERVICE RATING & TEST PRESSURE				
CLASS	WORKING PRESS.	TEMP.	HYD. TEST PRESS.	
			BODY	SEAT
150	150 PSIG	500°F	425 PSIG	300 PSIG
300	300 PSIG	800°F	1100 PSIG	800 PSIG
AIR TEST - SEAT 80 PSIG ±10 PSIG				

NO.	DESCRIPTION	MATERIAL	QTY.
01	BODY	ASTM A 216 Gr. WCB	1
02	BONNET	ASTM A 216 Gr. WCB	1
03	WEDGE	AISI 304 / AISI 316 / 13% CR. S.S.	1
04	SEAT RING	AISI 304 / AISI 316 / 13% CR. S.S.	2
05	STEM	AISI 304 / AISI 316 / 13% CR. S.S.	1
06	GLAND	CARBON STEEL	1
07	YOKE SLEEVE	AL. BRONZE / NI - RESIST	1
08	BACK SEAT BUSH	AISI 410	1
09	GASKET	SPIRAL WOUND METALIC GASKET	1
10	GLAND PACKING	METALIC WIRE REINFORCED GRAPHITED ASBESTOS	--
11	BONNET STUD & NUT	ASTM A 193 Gr. B7 ASTM A 194 Gr. 2H	--
12	EYE BOLT & NUT	ASTM A 193 Gr. B7 ASTM A 194 Gr. 2H	2 SET
13	HAND WHEEL	C.I. / C.S.	1
14	HAND WHEEL NUT	CARBON STEEL	1

SUITABLE FOR				
STEAM	WATER	OIL	AIR	GASES
●	●	●		

SIZE		CLASS - 150							
IN.	M.M.	A	B	Ø C	Ø D	Ø M	N	PCD	Ø J
1"	25	127.0	11.0	51	108.0	16	4	79.2	123
1.1/2"	40	165.1	14.2	73	127.0	16	4	98.5	152
2"	50	177.8	15.7	92	152.0	19	4	120.6	203
2.1/2"	65	190.5	17.5	105	178.0	19	4	139.7	203
3"	80	203.2	19.0	127	190.5	19	4	152.4	254
4"	100	228.6	24.0	157	229.0	19	8	190.5	305
5"	125	254.0	24.0	186	254.0	22	8	215.9	305
6"	150	266.7	25.0	216	279.0	22	8	241.3	356
8"	200	292.1	28.5	270	343.0	22	8	298.4	356
10"	250	330.2	30.0	324	406.0	25	12	362.0	406
12"	300	355.6	32.0	381	483.0	25	12	431.8	457
14"	350	381.0	35.0	413	534.0	28	12	476.2	508
16"	400	406.4	36.5	470	597.0	28	16	539.7	508

SIZE		CLASS - 300							
IN.	M.M.	A	B	Ø C	Ø D	Ø M	N	PCD	Ø J
1.1/2"	40	190.5	20.5	73	155.4	22	4	114.3	152
2"	50	215.9	22.0	92	165.0	19	8	127.0	203
2.1/2"	65	241.3	25.0	105	190.5	22	8	149.3	203
3"	80	282.5	28.5	127	209.5	22	8	168.1	254
4"	100	304.8	32.0	157	254.0	22	8	200.1	305
5"	125	381.0	35.0	186	279.4	22	8	234.9	356
6"	150	403.2	36.5	216	317.5	22	12	269.7	356
8"	200	419.1	41.0	270	381.0	25	12	330.2	406
10"	250	457.2	48.0	324	444.5	29	16	387.3	457
12"	300	501.6	51.0	381	520.7	32	16	450.8	508
14"	350	762.0	54.0	413	584.2	32	20	514.3	508
16"	400	838.2	57.0	470	647.7	35	20	571.5	508

ALL DIMENSION ARE IN MM

CLASS
150 / 300



GLOBE VALVE

PAGE NO.
02

TECHNICAL DATA

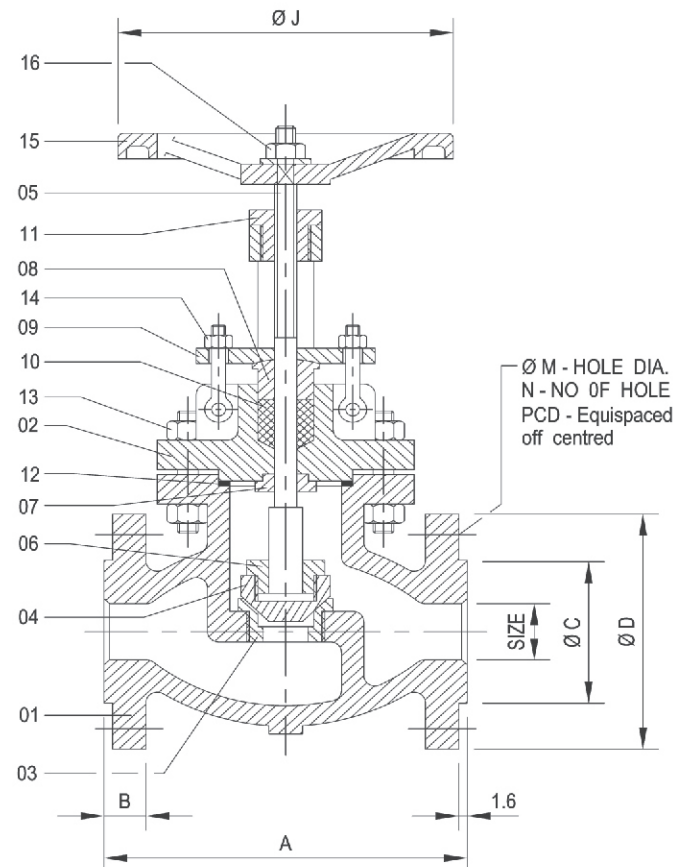
MANUFACTURING STD.: BS 1873

TESTING & INSPECTION STD.: API 598

FACE TO FACE: ANSI B 16.10

END CONNECTIONS: FLANGED AS PER ANSI B 16.5

SHELL WALL THICKNESS: ANSI B 16.34



PRIMARY SERVICE RATING & TEST PRESSURE				
CLASS	WORKING PRESS.	TEMP.	HYD. TEST PRESS.	SEAT
150	150 PSIG	500°F	425 PSIG	300 PSIG
300	300 PSIG	800°F	1100 PSIG	800 PSIG
AIR TEST - SEAT 80 PSIG ±10 PSIG				

NO.	DESCRIPTION	MATERIAL	QTY.
01	BODY	ASTM A 216 Gr. WCB	1
02	BONNET	ASTM A 216 Gr. WCB	1
03	SEAT RING	AISI 304 / AISI 316 / 13% CR. S.S.	1
04	DISC	AISI 304 / AISI 316 / 13% CR. S.S.	1
05	STEM	AISI 304 / AISI 316 / 13% CR. S.S.	1
06	DISC NUT	AISI 304 / AISI 316 / 13% CR. S.S.	1
07	BACK SEAT BUSH	AISI 410 / 304 / 316	1
08	GLAND BUSH	AISI 410 / 304 / 316	1
09	GLAND FLANGE	CARBON STEEL	1
10	GLAND PACKING	METALIC WIRE REINFORCED GRAPHITED ASBESTOS	--
11	YOKE SLEEVE	AL. BRONZE / NI - RESIST	1
12	BONNET GASKET	COMPRESSED ASBESTOS FIBRE / SOFT STEEL	1
13	BONNET STUD & NUT	ASTM A 193 Gr. B7 ASTM A 194 Gr. 2H	--
14	EYE BOLT & NUT	ASTM A 193 Gr. B7 ASTM A 194 Gr. 2H	2 SET
15	HAND WHEEL	CAST IRON	1
16	HAND WHEEL NUT	CARBON STEEL	1

SUITABLE FOR				
STEAM	WATER	OIL	AIR	GASES
●		●		

SIZE		CLASS - 150							
IN.	M.M.	A	B	Ø C	Ø D	Ø M	N	PCD	Ø J
1"	25	127	11.0	51	108.0	16	4	79.2	100
1.1/2"	40	165	14.2	73	127.0	16	4	98.5	135
2"	50	203	15.7	92	152.0	19	4	120.6	200
2.1/2"	65	216	17.5	105	178.0	19	4	139.7	250
3"	80	241	19.0	127	190.5	19	4	152.4	250
4"	100	292	24.0	157	229.0	19	8	190.5	300
5"	125	356	24.0	186	254.0	22	8	215.9	350
6"	150	406	25.0	216	279.0	22	8	241.3	350
8"	200	495	28.5	270	343.0	22	8	298.4	400
10"	250	622	30.0	324	406.0	25	12	362.0	450
12"	300	698	32.0	381	483.0	25	12	431.8	500

SIZE		CLASS - 300							
IN.	M.M.	A	B	Ø C	Ø D	Ø M	N	PCD	Ø J
1"	25	203.0	17.5	51	124.0	19	4	89.0	135
1.1/2"	40	229.0	20.5	73	155.5	22	4	114.3	200
2"	50	267.0	22.0	92	165.0	19	8	127.0	200
2.1/2"	65	292.0	25.0	105	190.5	22	8	149.3	200
3"	80	317.5	28.5	127	209.5	22	8	168.0	300
4"	100	356.0	32.0	157	254.0	22	8	200.0	350
5"	125	400.0	35.0	186	279.4	22	8	235.0	350
6"	150	444.5	36.5	216	317.5	22	12	269.7	400
8"	200	559.0	41.0	270	381.0	25	12	330.2	550
10"	250	622.0	47.5	324	444.5	28	16	387.4	600
12"	300	711.0	51.0	381	521.0	32	16	450.8	600

ALL DIMENSION ARE IN MM

CLASS
150 / 300



SWING CHECK VALVE

PAGE NO.
03

TECHNICAL DATA

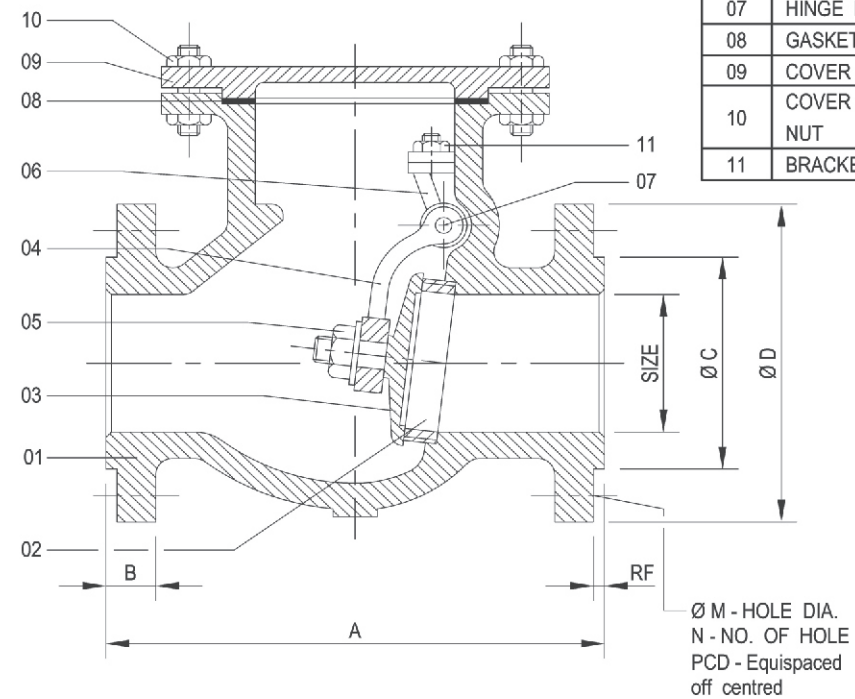
MANUFACTURING STD.: API 6D / BS 1868

TESTING & INSPECTION STD.: API 598 / API 6D

FACE TO FACE : AS PER ANSI B 16.10

SHELL WALL THICKNESS: ANSI B 16.34

END CONNECTIONS : FLANGED AS PER ANSI B 16.5



NO.	DESCRIPTION	MATERIAL	QTY.
01	BODY	ASTM A 216 Gr. WCB	1
02	SEAT RING	CARBON STEEL WITH 13% CR.	1
03	DISC	ASTM A 216 Gr. WCB WITH 13% CR.	1
04	HINGE	ASTM A 216 Gr. WCB	1
05	DISC NUT	ASTM A 193 Gr. B7 ASTM A 194 Gr. 2H	1
06	BRACKET	ASTM A 216 Gr. WCB	1
07	HINGE PIN	S.S. AISI 410	1
08	GASKET	COMPRESSED ASBESTOS FIBRE	1
09	COVER	ASTM A 216 Gr. WCB	1
10	COVER STUD & NUT	ASTM A 193 Gr. B7 ASTM A 194 Gr. 2H	--
11	BRACKET STUD / NUT	ASTM A 216 Gr. WCB	1

SIZE		CLASS - 150						
IN.	M.M.	A	B	Ø C	Ø D	Ø M	N	PCD
1.1/2"	40	165	14.2	73	127.0	16	4	98.5
2"	50	203	15.7	92	152.0	19	4	120.6
2.1/2"	65	216	17.5	105	178.0	19	4	139.7
3"	80	241	19.0	127	190.5	19	4	152.4
4"	100	292	24.0	157	229.0	19	8	190.5
5"	125	330	24.0	186	254.0	22	8	215.9
6"	150	356	24.0	216	279.0	22	8	241.3
8"	200	495	28.5	270	343.0	22	8	298.4
10"	250	622	30.0	324	406.0	25	12	362.0
12"	300	699	32.0	381	483.0	25	12	431.8
14"	350	787	35.0	413	533.0	28	12	476.2
16"	400	864	36.5	470	597.0	28	16	539.8

SIZE		CLASS - 300						
IN.	M.M.	A	B	Ø C	Ø D	Ø M	N	PCD
1.1/2"	40	241.3	20.5	73	156.0	22	4	114.3
2"	50	266.7	22.0	92	165.0	19	8	127.0
2.1/2"	65	292.0	25.0	105	190.5	22	8	149.3
3"	80	317.5	28.5	127	209.5	22	8	168.0
4"	100	355.6	32.0	157	254.0	22	8	200.0
5"	125	400.0	35.0	186	279.4	22	8	235.0
6"	150	444.5	36.5	216	317.5	22	12	269.7
8"	200	533.4	41.0	270	381.0	25	12	330.2
10"	250	622.3	47.5	324	444.5	28	16	387.4
12"	300	711.2	51.0	381	521.0	32	16	450.8
14"	350	838.0	54.0	413	584.0	32	20	514.3
16"	400	863.6	57.0	470	648.0	35	20	571.5

SUITABLE FOR				
STEAM	WATER	OIL	AIR	GASES
●	●	●		

HYDROSTATIC TEST PRESSURE			SERVICE RATING	
CLASS	BODY	SEAT	PRESSURE	TEMP.
150	425 PSIG	300 PSIG	150 PSIG	500° F
300	1100 PSIG	800 PSIG	300 PSIG	800° F
600	2175 PSIG	1600 PSIG	600 PSIG	800° F
AIR TEST - SEAT			80 PSIG ±10 PSIG	

ALL DIMENSION ARE IN MM

ND
16/40



GLOBE VALVE

PAGE NO.
04

TECHNICAL DATA

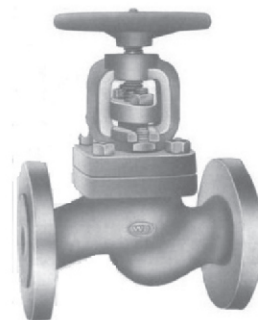
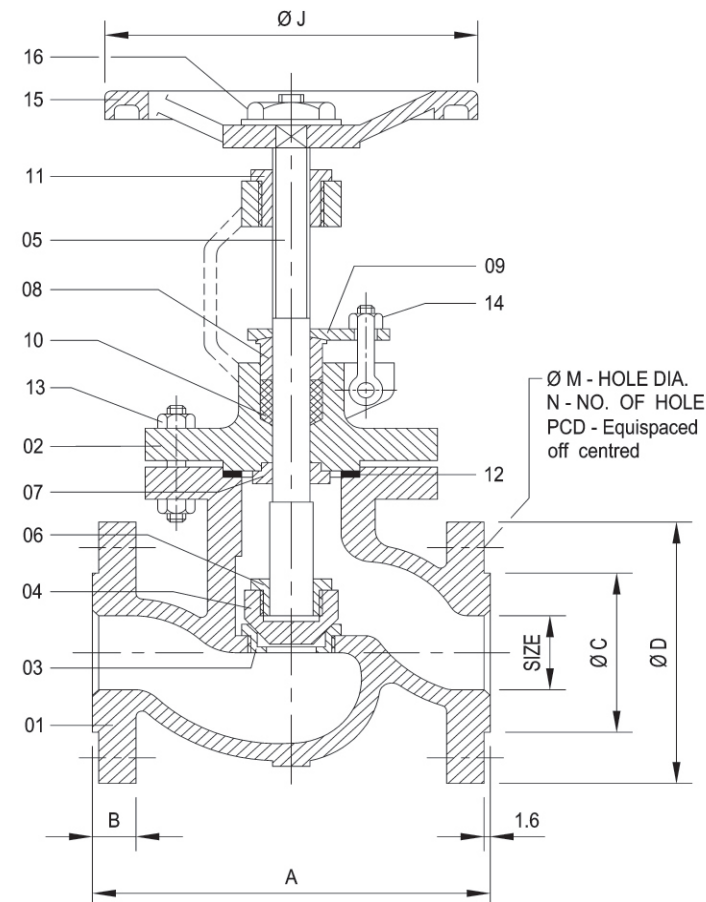
MANUFACTURING STD.: BS 1873

TESTING & INSPECTION STD.: API 598

FACE TO FACE: AS PER DIN ND - 16 / ND - 40

SHELL WALL THICKNESS: ANSI B 16.34

END CONNECTIONS: FLANGED AS PER
DIN 2533 / 2543 / 2535 / 2545



HYDRAULIC TEST PRESSURE			
STD	BODY	SEAT	AIR
ND 16	32 kg. / cm2	16 kg. / cm2	6 kg. / cm2
	464 PSIG	232 PSIG	80 PSIG
ND 40	80 kg. / cm2	40 kg. / cm2	6 kg. / cm2
	1160 PSIG	580 PSIG	80 PSIG

NO.	DESCRIPTION	MATERIAL	QTY.
01	BODY	ASTM A 216 Gr. WCB	1
02	BONNET	ASTM A 216 Gr. WCB	1
03	SEAT RING	AISI 304 / AISI 316 / 13% CR. S.S.	1
04	DISC	AISI 304 / AISI 316 / 13% CR. S.S.	1
05	STEM	AISI 304 / AISI 316 / 13% CR. S.S.	1
06	DISC NUT	AISI 304 / AISI 316 / 13% CR. S.S.	1
07	BACK SEAT BUSH	AISI 410 / 304 / 316	1
08	GLAND BUSH	AISI 410 / 304 / 316	1
09	GLAND FLANGE	CARBON STEEL	1
10	GLAND PACKING	METALIC WIRE REINFORCED	--
		GRAPHITED ASBESTOS	
11	YOKE SLEEVE	AL. BRONZE / NI - RESIST	1
12	BONNET GASKET	COMPRESSED ASBESTOS FIBRE / SOFT STEEL	1
13	BONNET STUD & NUT	ASTM A 193 Gr. B7	--
		ASTM A 194 Gr. 2H	
14	EYE BOLT & NUT	ASTM A 193 Gr. B7	2 SET
		ASTM A 194 Gr. 2H	
15	HAND WHEEL	CAST IRON	1
16	HAND WHEEL NUT	CARBON STEEL	1

SUITABLE FOR				
STEAM	WATER	OIL	AIR	GASES
●		●		

PRIMARY SERVICE RATING & TEST PRESSURE		
ND 16	16 kg. / cm2	220° C
ND 40	40 kg. / cm2	400° C

SIZE		A	B	Ø C	Ø D	Ø M	N	PCD	Ø J
IN.	M.M.								
1"	25	160	18	68	115	14	4	85	125
1.1/2"	40	200	20	88	150	18	4	110	175
2"	50	230	20	102	165	18	4	125	175
2.1/2"	65	290	22	122	185	18	8	145	225
3"	80	310	24	138	200	18	8	160	225
4"	100	350	26	162	235	22	8	190	250
5"	125	400	28	188	270	26	8	220	250
6"	150	480	30	218	300	26	8	260	312
8"	200	600	34	285	375	30	12	320	375
10"	250	730	42	345	450	33	12	385	500

ALL DIMENSION ARE IN MM

ND
16/40



LIFT TYPE NON RETURN VALVE

PAGE NO.
05

TECHNICAL DATA

MANUFACTURING STD.: BS 1873

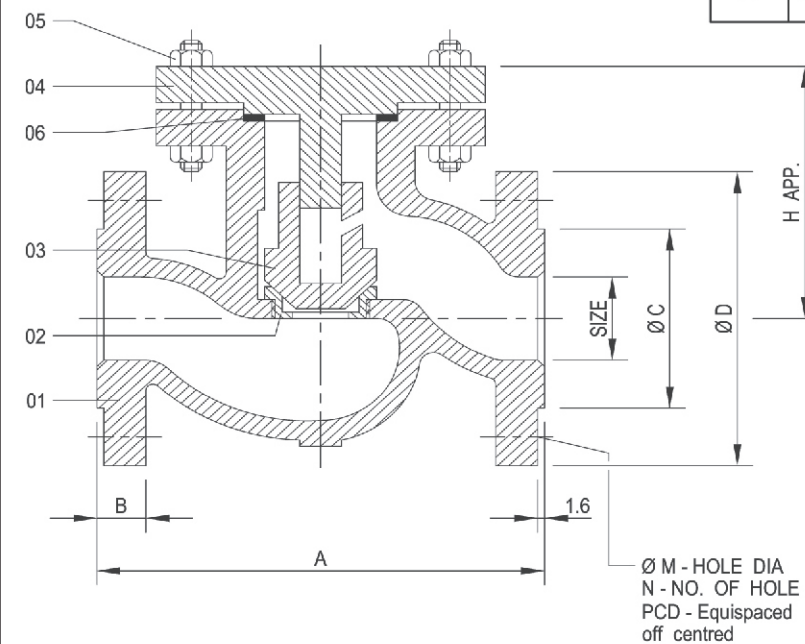
TESTING & INSPECTION STD.: API 598

FACE TO FACE: DIN ND - 16 / ND - 40

END CONNECTION: DIN 2533 / 2543 / 2535 / 2545 / BS 1560

SHELL WALL THICKNESS: ANSI B 16.34

NO.	DESCRIPTION	MATERIAL	QTY.
01	BODY	ASTM A 216 Gr. WCB	1
02	SEAT RING	AISI 410	1
03	DISC	AISI 410	1
04	COVER	ASTM A 216 Gr. WCB	1
05	COVER STUD & NUT	ASTM A 193 Gr. B7	--
		ASTM A 194 Gr. 2H	
06	GASKET	COMPRESSED ASBESTOS	1
		FIBRE	



HYDRAULIC TEST PRESSURE			
STD	BODY	SEAT	AIR
ND 16	32 kg. / cm2	16 kg. / cm2	6 kg. / cm2
	464 PSIG	232 PSIG	80 PSIG
ND 40	80 kg. / cm2	40 kg. / cm2	6 kg. / cm2
	1160 PSIG	586 PSIG	80 PSIG

SUITABLE FOR				
STEAM	WATER	OIL	AIR	GASES
●	●	●		

PRIMARY SERVICE RATING & TEMPERATURE		
ND 16	16 kg. / cm2	220°C
ND 40	40 kg. / cm2	440°C

SIZE		A	B	Ø C	Ø D	H	Ø M	N	PCD
IN.	M.M.								
1"	25	160	18	68	115	88	14	4	85
1.1/2"	40	200	20	88	150	105	18	4	110
2"	50	230	20	102	165	118	18	4	125
2.1/2"	65	290	22	122	185	128	18	8	145
3"	80	310	24	138	200	140	18	8	160
4"	100	350	26	162	235	158	22	8	190
5"	125	400	28	188	270	175	26	8	220
6"	150	480	30	218	300	195	26	8	250
8"	200	600	34	285	375	243	30	12	320
10"	250	730	42	345	450	334	33	12	385

ALL DIMENSION ARE IN MM

CLASS
150 / 300



Y - TYPE STRAINER

PAGE NO.
06

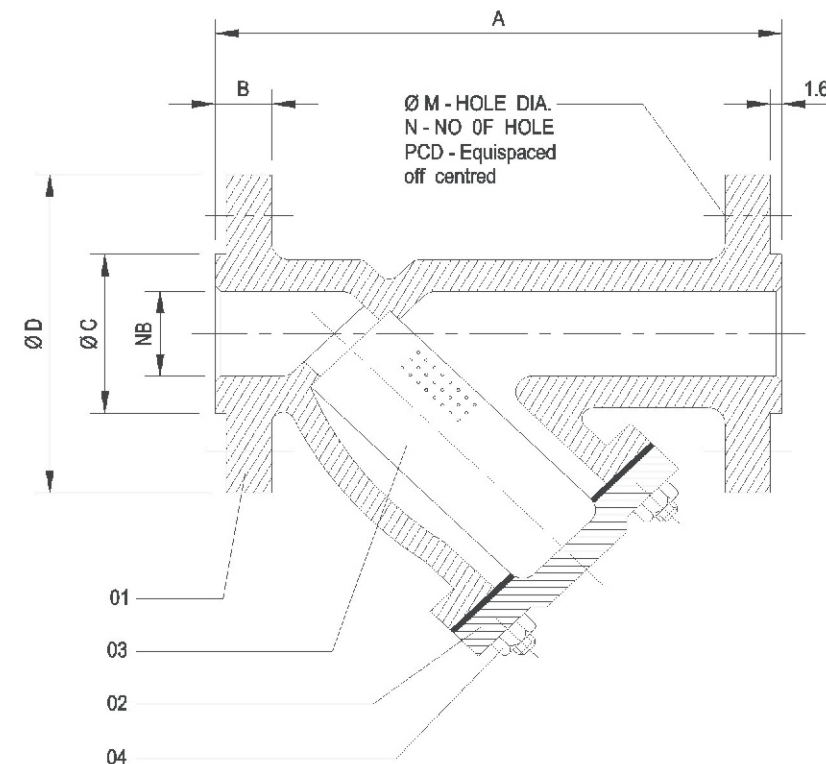
TECHNICAL DATA

FACE TO FACE : AS PER DIN ND - 40 TYPE / ANSI B 16.10

END CONNECTIONS : FLANGED AS PER ANSI B 16.5

SHELL WALL THICKNESS : ANSI B 16.34

NO.	DESCRIPTION	MATERIAL	QTY.
01	BODY	ASTM A 216 Gr. WCB	1
02	COVER	ASTM A 216 Gr. WCB	1
03	SCREEN	S.S.304 / S.S.316 / G.M.	1
04	COVER STUD & NUT	ASTM A 193 Gr. B7	--
		ASTM A 194 Gr. 2H	



SERVICE RATING	
40 kg / cm2	400° C
580 PSIG	
HYDRAULIC TEST PRESSURE	
BODY	80 kg / cm2
	1160 PSIG

SUITABLE FOR				
STEAM	WATER	OIL	AIR	GASES
●	●	●	●	●

SIZE		CLASS - 150							
IN.	M.M.	NB	A	B	Ø C	Ø D	Ø M	N	PCD
1"	25	25	127	11.0	51	108.0	16	4	79.2
1.1/2"	40	38	165	14.2	73	127.0	16	4	98.5
2"	50	51	203	15.7	92	152.0	19	4	120.6
2.1/2"	65	64	216	17.5	105	178.0	19	4	139.7
3"	80	76	241	19.0	127	190.5	19	4	152.4
4"	100	102	292	24.0	157	229.0	19	8	190.5
5"	125	126	356	24.0	186	254.0	22	8	215.9
6"	150	152	406	25.0	216	279.0	22	8	241.3
8"	200	203	495	28.5	270	343.0	22	8	298.4
10"	250	254	622	30.0	324	406.0	25	12	362.0

SIZE		ND - 40							
IN.	M.M.	NB	A	B	Ø C	Ø D	Ø M	N	PCD
1"	25	25	160	18	68	115	14	4	85
1.1/2"	40	38	200	18	88	150	18	4	110
2"	50	51	230	20	102	165	18	4	125
2.1/2"	65	64	290	22	122	185	18	8	145
3"	80	76	310	24	138	200	18	8	160
4"	100	102	350	24	162	235	23	8	190
5"	125	126	400	26	180	270	27	8	220
6"	150	152	480	28	218	300	27	8	250
8"	200	203	600	35	285	375	30	12	320
10"	250	254	730	38	345	450	30	12	385



ALL DIMENSION ARE IN MM

CLASS
800



FORGED STEEL GLOBE VALVE

PAGE NO.
07

TECHNICAL DATA

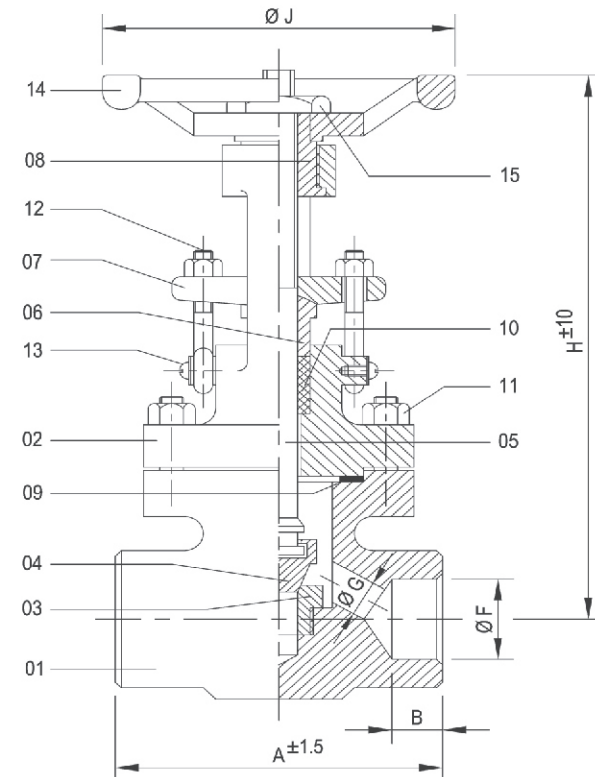
MANUFACTURING STD.: BS 5352

TESTING & INSPECTION STD.: API 598

SOCKET WELD AND THREADED TO: ANSI B 16.11 / ANSI B 1.20.1

FLANGED TO: ANSI B 16.5

FLANGE TO FLANGE DISTANCE: ANSI B 16.10



NO.	DESCRIPTION	MATERIAL	QTY.
01	BODY	FORGE STEEL A 105	1
02	BONNET	FORGE STEEL A 105	1
03	SEAT RING	AISI 304 / AISI 316 / 13% CR. S.S.	1
04	DISC	AISI 304 / AISI 316 / 13% CR. S.S.	1
05	STEM	AISI 304 / AISI 316 / 13% CR. S.S.	1
06	GLAND BUSH	AISI 304 / AISI 316 / 13% CR. S.S.	1
07	GLAND FLANGE	ASTM A 105	1
08	YOKE SLEEVE	AL. BRONZE / NI - RESIST	1
09	BONNET GASKET	SPIRAL WOUND S.S. 304 WITH CAF	1
10	GLAND PACKING	S.S. METAL WIRE BRAIDED ASBESTOS	--
11	BONNET STUD & NUT	ASTM A 193 Gr. B7 ASTM A 194 Gr. 2H	4 SET
12	EYE BOLT & NUT	FORGED C.S.	2 SET
13	SCREW & WASHER	M.S. GALVANISED	2 SET
14	HAND WHEEL	CAST IRON / C.S.	1
15	HAND WHEEL NUT	CARBON STEEL	1

TEST PRESSURE	
BODY	SEAT
3000 PSIG	2000 PSIG
AIR TEST OF SEAT AT 100 PSIG	

SUITABLE FOR				
STEAM	WATER	OIL	AIR	GASES
●		●		

SIZE		SCREWED / SOCKET WELD						
IN.	M.M.	A	B	E	Ø F	Ø G	H	Ø J
1/2"	15	85	10	13	22.0	9.0	150	78
3/4"	20	90	13	13	27.5	12.0	165	78
1"	25	105	13	15	34.0	17.5	185	100
1.1/2"	40	128	13	25	48.6	29.5	239	142
2"	50	142	16	25	61.1	35.0	248	142



ALL DIMENSION ARE IN MM

CLASS
800



FORGED STEEL GATE VALVE

PAGE NO.
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TECHNICAL DATA

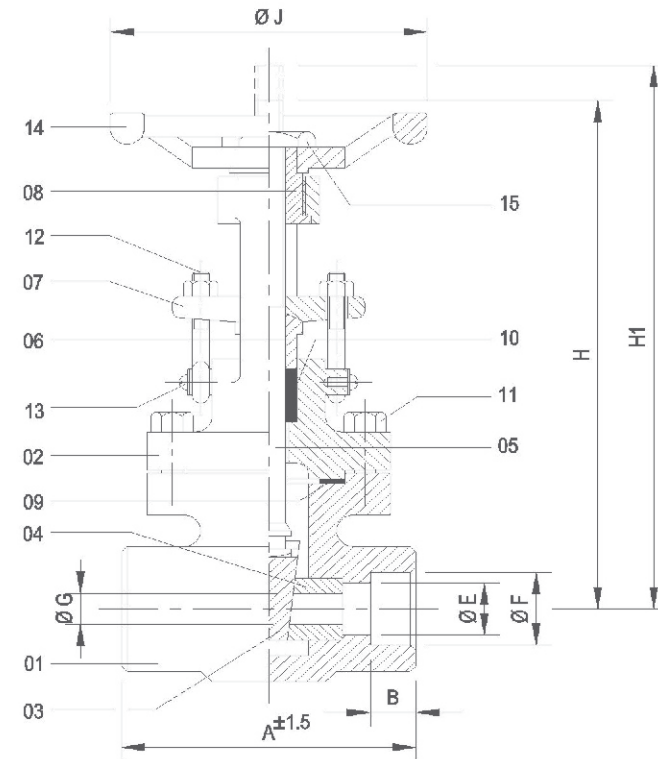
MANUFACTURING STD.: API 602

TESTING & INSPECTION STD.: API 598

SOCKET WELD AND THREADED TO: ANSI B 16.11 / ANSI B 1.20.1

FLANGED TO: ANSI B 16.5

FLANGE TO FLANGE DISTANCE: ANSI B 16.10



NO.	DESCRIPTION	MATERIAL	QTY.
01	BODY	FORGE STEEL A 105	1
02	BONNET	FORGE STEEL A 105	1
03	WEDGE	AISI 304 / AISI 316 / 13% CR. S.S.	1
04	SEAT RING	AISI 304 / AISI 316 / 13% CR. S.S.	2
05	STEM	AISI 304 / AISI 316 / AISI 410	1
06	GLAND BUSH	AISI 304 / AISI 316 / AISI 410	1
07	GLAND FLANGE	ASTM A 105	1
08	YOKE SLEEVE	AL. BRONZE / NI - RESIST	1
09	BONNET GASKET	SPIRAL WOUND S.S. 304 WITH CAF	1
10	GLAND PACKING	S.S. METAL WIRE BRAIDED ASBESTOS	--
11	BONNET STUD & NUT	ASTM A 193 Gr. B7 ASTM A 194 Gr. 2H	4 SET
12	EYE BOLT & NUT	FORGED C.S.	2 SET
13	SCREW & WASHER	M.S. GALVANISED	2 SET
14	HAND WHEEL	CAST IRON / C.S.	1
15	HAND WHEEL NUT	CARBON STEEL	1

TEST PRESSURE	
BODY	SEAT
3000 PSIG	2000 PSIG
AIR TEST OF SEAT AT 100 PSIG	

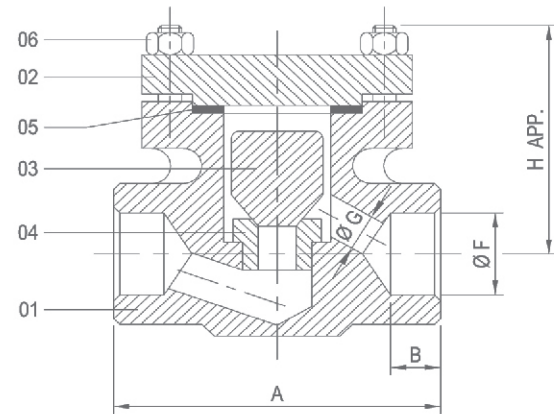
SUITABLE FOR				
STEAM	WATER	OIL	AIR	GASES
●	●	●		

SIZE		SCREWED / SOCKET WELD								
IN.	M.M.	A	B	Ø E	Ø F	Ø G	H	H1	DT	Ø J
1/2"	15	85	10	13	22.0	9.0	154	174	13	94
3/4"	20	90	13	15	27.5	14.0	160	185	13	94
1"	25	105	13	22	34.0	18.0	168	198	15	98
1.1/2"	40	128	13	36	48.6	32.0	231	274	25	142
2"	50	142	16	45	61.1	42.0	242	287	25	142



ALL DIMENSION ARE IN MM

TECHNICAL DATA
MANUFACTURING STD.: BS 5352
TESTING & INSPECTION STD.: API 598
SOCKET WELD AND THREADED TO: ANSI B 16.11 / ANSI B 1.20.1
FLANGED TO: ANSI B 16.5
FLANGE TO FLANGE DISTANCE: ANSI B 16.10



NO.	DESCRIPTION	MATERIAL	QTY.
01	BODY	FORGE STEEL A 105	1
02	COVER	FORGE STEEL A 105	1
03	VALVE	AISI 304 / AISI 316 / AISI 410	1
04	SEAT RING	AISI 304 / AISI 316 / AISI 410	1
05	BONNET GASKET	SPIRAL WOUND S.S. 304 WITH CAF	1
06	COVER STUD & NUT	ASTM A 193 GR. B7 ASTM A 194 GR. 2H	4 SET

TEST PRESSURE	
BODY	SEAT
3000 PSIG	2000 PSIG
AIR TEST OF SEAT 100 PSIG	

SUITABLE FOR				
STEAM	WATER	OIL	AIR	GASES
●	●	●		

SIZE		SCREWED / SOCKET WELD					
IN.	M.M.	A	B	E	Ø F	Ø G	H
1/2"	15	85	10	13	22.0	9.0	50
3/4"	20	90	13	13	27.5	12.0	62
1"	25	105	13	15	34.0	17.5	68
1.1/2"	40	128	13	25	48.6	29.5	100
2"	50	142	16	25	61.1	61.1	100

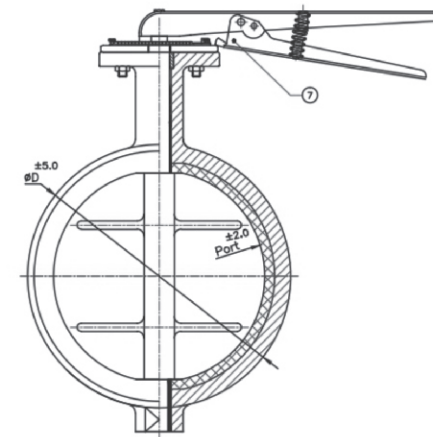
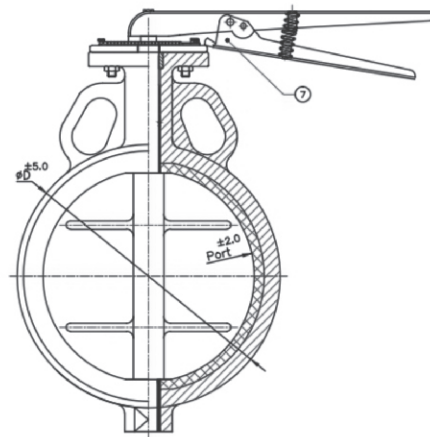


TECHNICAL DATA:-**Design And Manufacturing :****Valve Face To Face Dimension:****Flange Standard Conformity :****Inspection & Testing :****Top Flange Drilling :****API 609 Category A / IS: 13095 /****BS EN 593****Short Wafer As Per ISO 5752-TAB 5****/ISO 5752 TAB 5 (API 609-BS 5155)****ASME B 16.5 Class 150****API 598 / BS EN 12266-1****ISO 5211**

7	1	Handle	Standard
6	2	Bush	PTFE
5	2	Bearing Bush	Metal Bush PTFE Coated
4	2	Shaft	SS 410
3	1	Seat	NBR/EPDM/HYPLON/VITON
2	1	Disc	ASTM A536 Gr. 65-45-12 (S.G. IRON)
			ASTM A351 Gr. CF8M
			ASTM A351 Gr. CF8
1	1	Body	C.I. IS 210 Gr. FG220
			ASTM A536 Gr. 65-45-12 (S.G. IRON)
P.No.	Qty.	Nomenclature	Material
BILL OF MATERIAL			

Butterfly Valve Detail:-

Pressure Rating	:	PN-10 / 16
Seat Leakage	:	Tight Shut Off
Valve Type	:	Centric Disc Butterfly Valve
Body Type	:	Wafer (Sandwiched Between Flanges)
Seat Type	:	Bonded With The Body

**All dimensions are in M.M.**

SIZE	40	50	65	80	100	125	150	200
Port	40	50	65	80	100	125	150	200
L	33	43	46	46	52	56	56	60
ØD	80	95	108	124	150	186	205	259

TEST PRESSURE		
TESTING	BODY	SEAT
HYDRAULIC	15 Kg/Cm ²	10 Kg/Cm ²
	24 Kg/Cm ²	16 Kg/Cm ²

CLASS
150



WAFER TYPE CHECK VALVE

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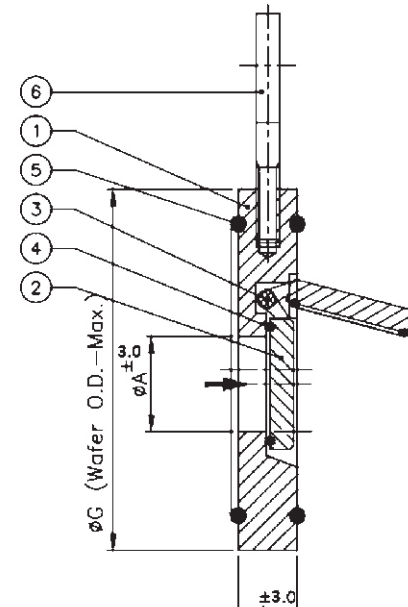
TECHNICAL DATA

DESIGN & MANUFACTURING STD.: API 6D / 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, VTION,	2 + 1
		SILICON, PTFE	
04	HINGE PIN	AISI 304, 316	1



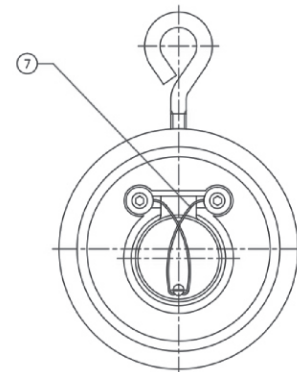
DIMENSIONS IN (MM) SERIES - 40 (SIZE 2" - 6")

Valve size	A	B	C				
			PN 10	PN 16	BS10D	BS10E	ANSI#150
25	14	16	72	72	69	69	64
40	22	19	93	93	86	86	86
50	30	19	108	108	97	97	104
65	40	19	128	128	110	110	123
80	52	19	143	143	129	129	136
100	71	19	163	163	161	161	174
125	93	19	193	193	193	193	196
150	114	19	219	219	218	215	221

DIMENSIONS IN (MM) SERIES - 40 (SIZE 8" - 24")

Valve size	A	B	C				
			PN 10	PN 16	BS10D	BS10E	ANSI#150
200	157	28.5	274	274	274	272	278
250	195	28.5	329	329	335	335	339
300	230	38	379	385	385	383	409
350	270	44.5	438	444	446	446	449
400	310	51	489	496	496	496	512
450	360	60.5	538	555	559	559	545
500	406	63.5	593	616	616	616	605
600	490	70	695	733	727	724	714

* VALVE SIZE ABOVE 24" CAN BE SUPPLIED AS PER CUSTOMER REQUIREMENTS



DESIGN FEATURES

Body Type single Thin Plate, Short Type

Suitable For Horizontal and Vertical Mounting

Shorter overall length, mounting requires minimum space

Low pressure Drop

Easy to install

Less weight

Size Range: 1"to 42"

Pressure Rating : PN-10/PN-16

Seat Leakage : Zero Leakage, Tight Shut Off

Temperature Range : 25°C to + 200°C

CLASS
150



DUAL PLATE CHECK VALVE

PAGE NO.
12

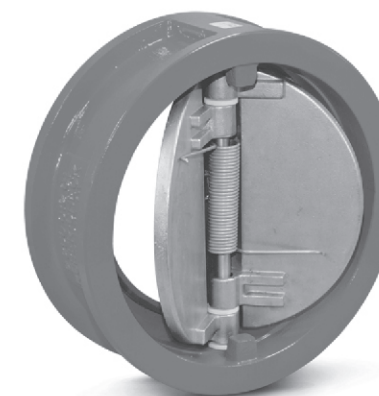
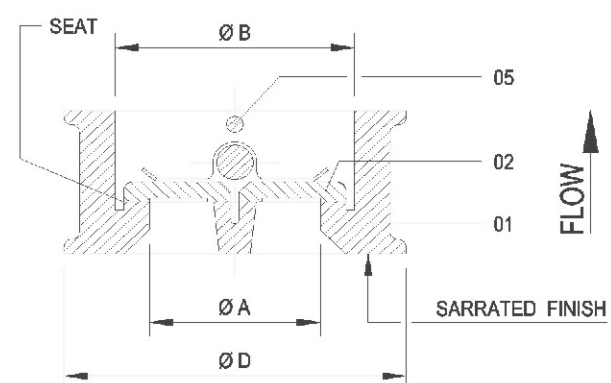
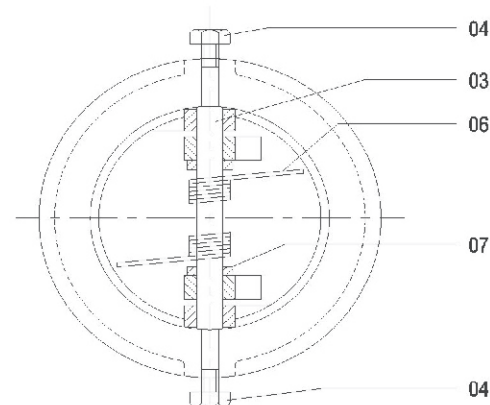
TECHNICAL DATA

MANUFACTURING STD.: API 594

TESTING & INSPECTION STD.: API 598

FACE TO FACE: API 594

NO.	DESCRIPTION	MATERIAL	QTY.
01	BODY	C.I. - IS:210 GR. FG 200 /	1
		ASTM A 216 GR. WCB	
02	DISC	A 351 GR. CF8 / G.M.	2
03	HINGE PIN	AISI 304 / AISI 316	1
04	PLUG	AISI 304 / AISI 316	2
05	STOP PIN	AISI 304 / AISI 316	1
06	SPRING	AISI 304 / AISI 316	2
07	BEARING	AISI 304 / AISI 316	1



SUITABLE FOR				
STEAM	WATER	OIL	AIR	GASES
	●	●		

SIZE		Ø A	Ø B	Ø D
IN.	M.M.			
2"	50	50	60	105
2.1/2"	65	65	75	124
3"	80	76	90	134
4"	100	100	115	172
5"	125	125	135	196
6"	150	150	165	220
8"	200	200	220	276
10"	250	250	265	338
12"	300	300	320	407
14"	350	350	350	448
16"	400	400	400	514
18"	450	450	450	549
20"	500	500	500	603
24"	600	600	600	718

TEST PRESSURE BAR		
CLASS	SHELL	SEAT
150	21	11

ALL DIMENSION ARE IN MM

CLASS
150



NON SLAM CHECK VALVE

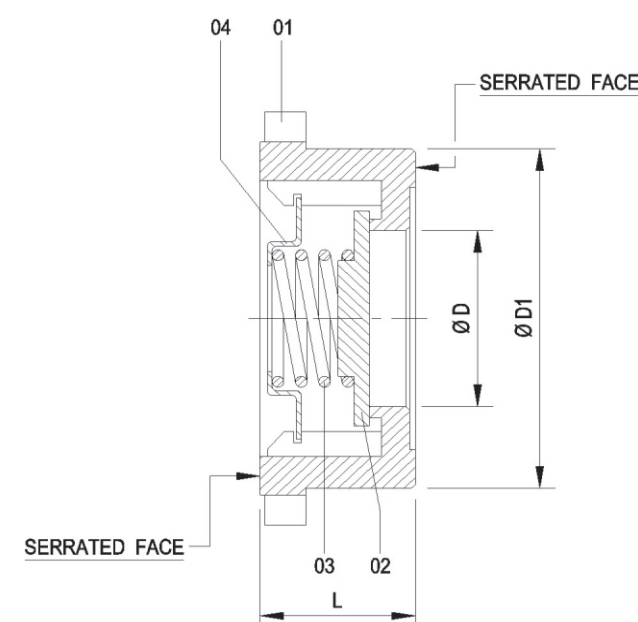
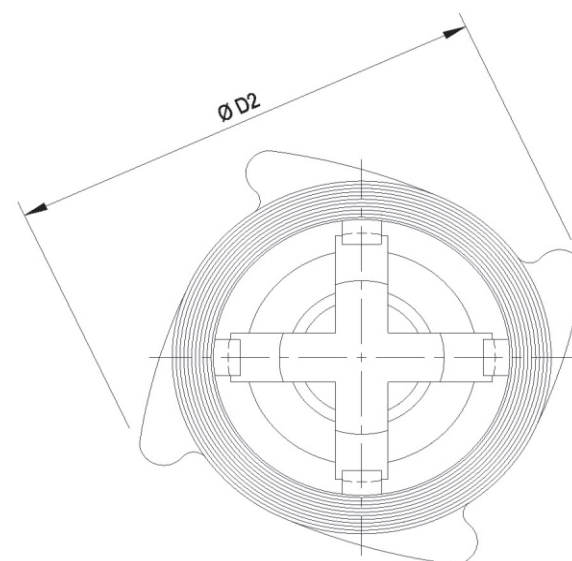
PAGE NO.
13

TECHNICAL DATA

TESTING & INSPECTION STD.: API 598 / BS 5146

FLANGE STANDARDS: BS 10 TABLES E AND H,
PN 16, PN 25, AND PN 40

NO.	DESCRIPTION	MATERIAL	QTY.
01	BODY	ASTM A 216 GR. WCB / ASTM A 351 - CF8 ASTM A 351 - CF8M	1
02	DISC	S.S. 304 / S.S. 316	1
03	SPRING	S.S. 304 / S.S. 316	1
04	SPRING WASHER	AISI 304 / AISI 316	1



SUITABLE FOR				
STEAM	WATER	OIL	AIR	GASES
●	●	●		●

PRIMARY SERVICE RATING & TEST PRESSURE				
CLASS	WORKING PRESS.	HYD. TEST PRESSURE		
		BODY	SEAT	TEMP.
PN 40	40 kg / cm ²	77 kg / cm ²	56 kg / cm ²	300°C

SIZE		CLASS - PN 40			
IN.	M.M.	Ø D	Ø D1	Ø D2	L
1/2"	15	15.0	38	60	16
3/4"	20	20.0	47	70	20
1"	25	24.0	55	80	22
1.1/2"	40	39.0	75	100	32
2"	50	50.0	93	115	40
2.1/2"	65	65.0	109	142	46
3"	80	76.0	127	154	50
4"	100	98.0	148	184	60
6"	150	150.0	202	230	74

ALL DIMENSION ARE IN MM

Technical Data:

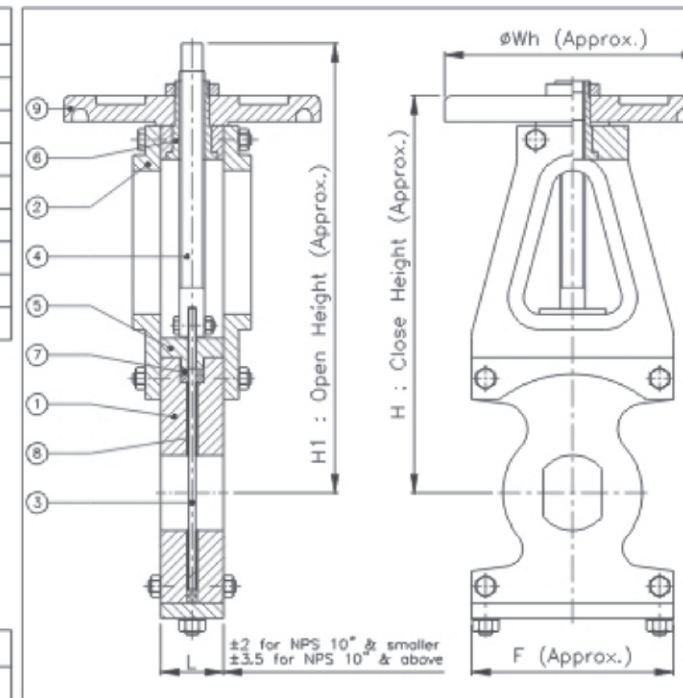
Manufacturing Std. : Generally Conforming to MSS-SP 81

End Connection : Wafer to Suit BS 10 Table-`D'/ANSI B16.1 (125#)

Inspection and Testing Std. : Generally Conforming to MSS-SP 81

Max. C.W.P. : 100 PSIG

P. No.	Qty.	Nomenclature	Material
1	1	BODY	C.I. IS 210 Gr. FG200
2	2	YOKES	C.I. IS 210 Gr. FG200
3	1	GATE	SS 304 PLATE
4	1	STEM	AISI 304
5	2	GLAND PLATES	C.I. IS 210 Gr. FG200
6	1	STEM NUT	G.M.
7	Req.	GLAND PACKINGS	GRAPHITED ASBESTOS
8	1	GASKET	CAF
9	1	HAND WHEEL	C.I./M.I.



HYDROSTATIC TEST PRESSURE

Body	9 Kg/Cm ²
------	----------------------

All dimensions are in M.M.

SIZE	L	H	H1	F	ϕW_h
40	46	232	350	126	185
50	46	305	375	147	185
65	46	305	395	165	185
80	49	315	415	180	185
100	49	350	485	185	185
125	56	408	530	210	225
150	56	435	610	243	225
200	56	500	690	285	225
250	62	610	890	336	405
300	78	715	1000	392	405
350	78	785	1185	525	500
400	102	960	1440	575	500
450	110	985	1460	650	600
500	127	1130	1710	675	600
600	154	1240	1890	785	750
700	165	1415	2165	900	900
750	190	1475	2275	950	900
800	190	1630	2505	1000	900
900	203	1800	2775	1100	950
1000	216	2000	3100	1200	950



CLASS
150



BI-DIRECTIONAL KNIFE EDGE GATE VALVE

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Technical Data :

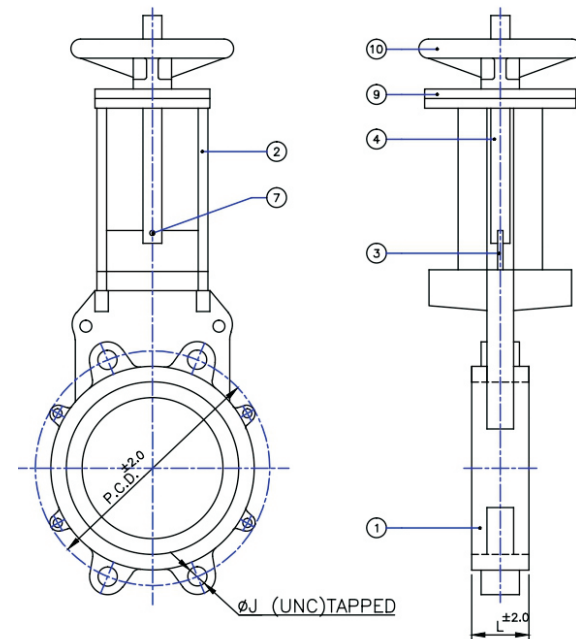
Manufacturing Std. : Generally Conforming to MSS-SP 81

End Connection : Wafer to Suit ASME B16.5 150#

Inspection and Testing Std. : Generally Conforming to MSS-SP 81

HYDROSTATIC TEST PRESSURE

BODY	5 Kg/Cm ²
SEAT	2.8 Kg/Cm ²



All dimensions are in M.M.

SIZE	40	50	65	80	100	125	150	200
L	48	48	48	51	51	57	57	70
ØJ(UNC)	1/2"	5/8"	5/8"	5/8"	5/8"	3/4"	3/4"	3/4"
P.C.D.	98.4	120.7	139.7	152.4	190.5	215.9	241.3	298.5

All dimensions are in M.M.

SIZE	250	300	350	400	450	500	600
L	70	76	76	89	89	114	114
ØJ(UNC)	7/8"	7/8"	1"	1"	1.1/8"	1.1/8"	1.1/4"
P.C.D.	362	431.8	476.3	539.8	577.9	635	749.3

10	1	HAND WHEEL	C.I. IS 210 Gr. FG200
9	1	SLEEVE RETAINER	SS 304/CARBON STEEL
8	1	YOKE SLEEVE (NOT SHOWN)	S.G. IRON
7	1	HINGE PIN (SLOTTED TYPE)	STD.
6	Req.	PACKINGS (NOT SHOWN)	PTFE-IMPREGNATED ASBESTOS LAYERED WITH MOULDED RUBBER
5	Req.	BODY SEAL (NOT SHOWN)	NITRILE RUBBER/METAL TO METAL
4	1	STEM	SS 410/304/316
3	1	GATE	SS 304/316
2	4	PILLARS	CARBON STEEL
1	2	BODY	C.I./ASTM A216 Gr. WCB/ASTM A351 Gr. CF8/CF8M
P. No.	Qty.	Nomenclature	Material

CLASS
150



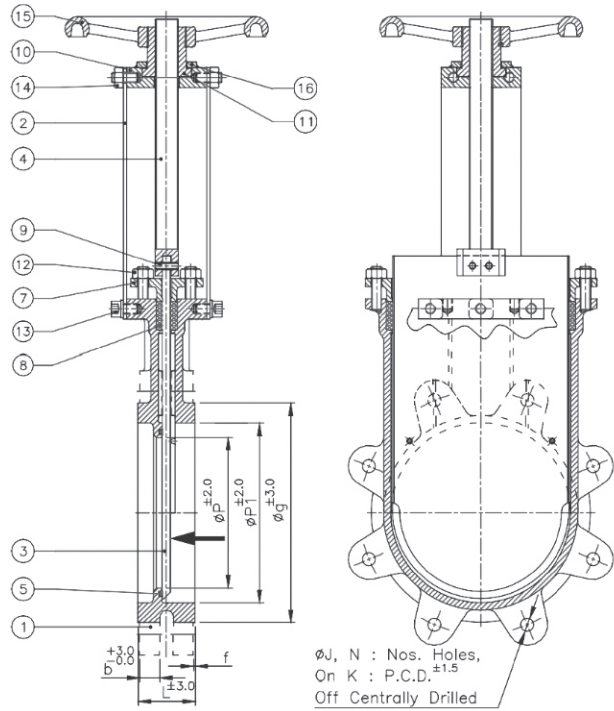
KNIFE EDGE
GATE VALVE

PAGE NO.
16

Manufacturing Std. : MSS SP - 81
End Connection : Wafer Lugged to Suit ASME B16.5 150#
Inspection and Testing Std. : MSS SP - 81

TECHNICAL DATA :
Manufacturing Std. : Generally Conforming to MSS-SP 81
End Connection : Wafer to Suit BS 10 Table-'D' / ASA 150 Class
Inspection and Testing Std. : Generally Conforming to MSS-SP 81
Max. C.W.P. : 100 PSIG

UNI DIRECTIONAL



16	1	SLEEVE RETAINER	CARBON STEEL
15	1	HAND WHEEL	C.I./WCB
14	4-4	YOKE PLATE STUDS & NUTS	CARBON STEEL/SS 304/316
13	6	BODY ALLEN BOLTS	CARBON STEEL/SS 304/316
12	6-6	GLAND STUDS & NUTS	CARBON STEEL/SS 304/316
11	1	YOKE SLEEVE	S.G. IRON (ASTM A395)
10	1	YOKE PLATE	CARBON STEEL
9	2	HINGE PIN	STD.
8	Req.	GLAND PACKING	PTFE
7	1	GLAND	ASTM A216 Gr. WCB/ASTM A351 Gr. CF8/CF8M
6	-	--	--
5	1	'D' RING	NITRILE RUBBER/M- AL TO METAL
4	1	SPINDLE	SS 410/304/316
3	1	KNIFE GATE	SS 304/316
2	2	YOKE ARMS	CARBON STEEL
1	1	BODY	ASTM A216 Gr. WCB/ASTM A351 Gr. CF8/CF8M
P.No.	Qty.	Nomenclature	Material



All dimensions are in M.M.

SIZE	50	65	80	100	125	150	200
øP	46	61	63.5	85	123	139	185
øP1	62	81	88	115	186	171	221
L Face to Face-RF	48	48	51	51	58	58	70
b	15	17	15	15	22	22	24.5
øJ	19.05	19.05	19.05	19.05	22.2	22.2	22.2
N	4	4	4	8	8	8	8
K:PCD.	120.7	139.7	152.4	190.5	215.9	241.3	298.5

All dimensions are in M.M.

SIZE	250	300	350	400	450	500	600
øP	236	277	309	375	410	460	562
øP1	276	327	359	400	457	510	612
L Face to Face-RF	70	76	76	76	89	114	114
b	24.5	24.5	25	25	30	35	35
øJ	25.4	25.4	28.6	28.6	31.75	31.75	34.9
N	12	12	12	16	16	20	20
K:PCD.	362	431.8	476.3	539.8	577.9	635	749.3

HYDROSTATIC TEST PRESSURE	
BODY	5 Kg/Cm ²
SEAT	2.8 Kg/Cm ²

CLASS
150



FORGED STEEL BALL VALVE

PAGE NO.
17

TECHNICAL DATA

DESIGN & MANUFACTURING STD.: BS 5351, API 602

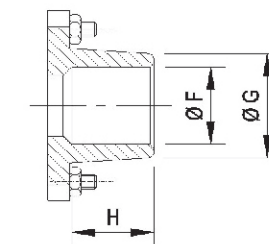
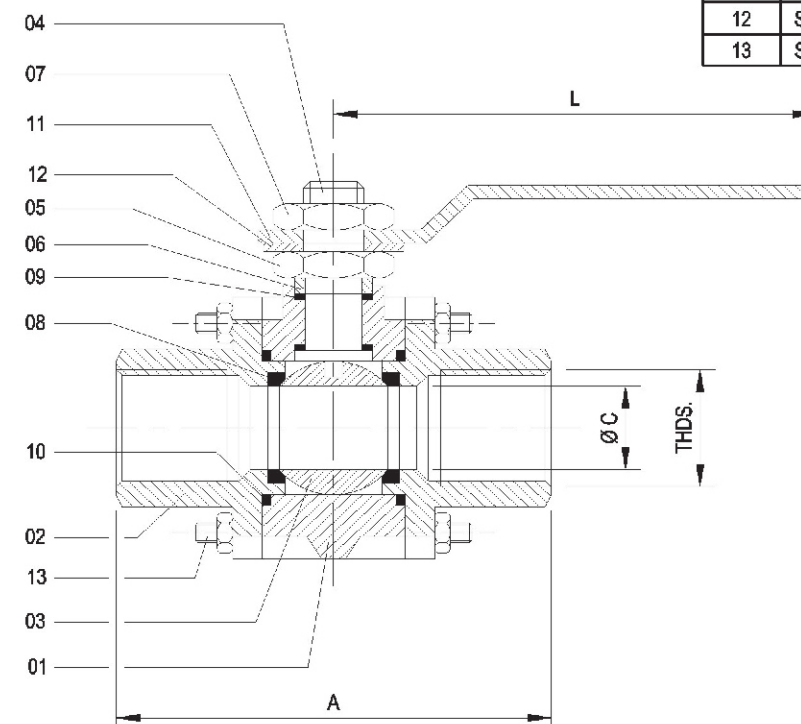
TESTING & INSPECTION STD.: API 598

END CONNECTIONS: BSP, BSPT, NPT, SOCKET WELD

SOCKET WELD & THREADED TO: ANSI B 16.11 / ANSI B 1.20.1

THREE PIECE (SCREW END)

NO.	DESCRIPTION	MATERIAL	QTY.
01	BODY	C.I. / C.S. / S.S.304 /	1
02	BODY CONNECTOR	S.S.316 / ASTM A 105	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	2
11	WRENCH	M.S. / S.S.	1
12	STOP	M.S.	1
13	STUD & NUT	C.S. / S.S.	4



SOCKET WELD END

SUITABLE FOR				
STEAM	WATER	OIL	AIR	GASES
●	●	●		



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
800	800 PSIG	3000 PSIG	2000 PSIG	200°F
AIR TEST - SEAT 80 PSIG ±10 PSIG				

CLASS - 150								
SIZE		A	Ø C	L	THDS. BSP / BSPT / NPT	F	G	H
IN.	M.M.							
1/2"	15	90	13	155	1/2"	21.8	29	12.7
3/4"	20	95	19	160	3/4"	27.3	35	19.0
1"	25	100	25	160	1"	34.1	43	22.0
1.1/4"	32	110	32	160	1.1/4"	43.0	54	22.0
1.1/2"	40	120	38	178	1.1/2"	49.0	58	22.0
2"	50	130	50	178	2"	61.3	71	23.0

CLASS - 800								
SIZE		A	Ø C	L	THDS. BSP/ BSPT / NPT	F	G	H
IN.	M.M.							
1/2"	15	68	12	115	1/2"	21.8	29	12.7
3/4"	20	79	16	122	3/4"	27.3	35	19.0
1"	25	95	18	153	1"	34.1	43	22.0
1.1/4"	32	107	24	178	1.1/4"	43.0	54	22.0
1.1/2"	40	117	32	178	1.1/2"	49.0	58	22.0
2"	50	130	37	178	2"	61.3	71	23.0

ALL DIMENSION ARE IN MM

CLASS
150



3 PIECE BALL VALVE

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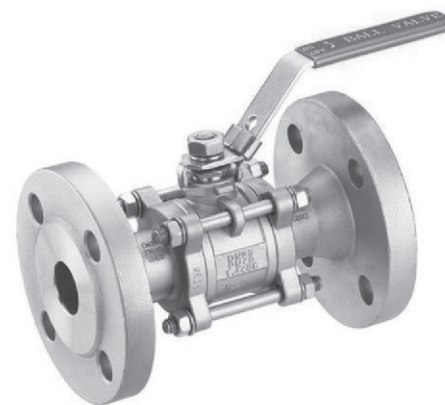
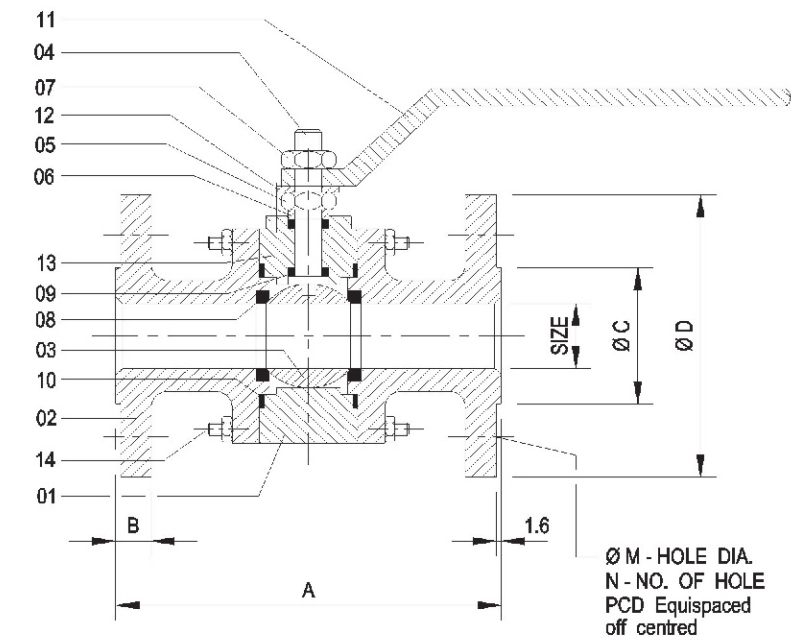
TECHNICAL DATA

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

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				

THREE PIECE (FLANGE END)

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	2
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	2
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.	--

SUITABLE FOR				
STEAM	WATER	OIL	AIR	GASES
●	●	●		

SIZE		CLASS - 150						
IN.	M.M.	A	B	Ø C	Ø D	Ø M	N	PCD
1/2"	15	108	10.0	35	89.0	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	16	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	4	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	267	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	Ø C	Ø D	Ø M	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

CLASS
150



2 PIECE BALL VALVE

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TECHNICAL DATA

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

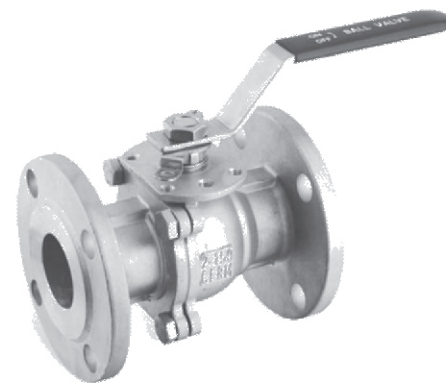
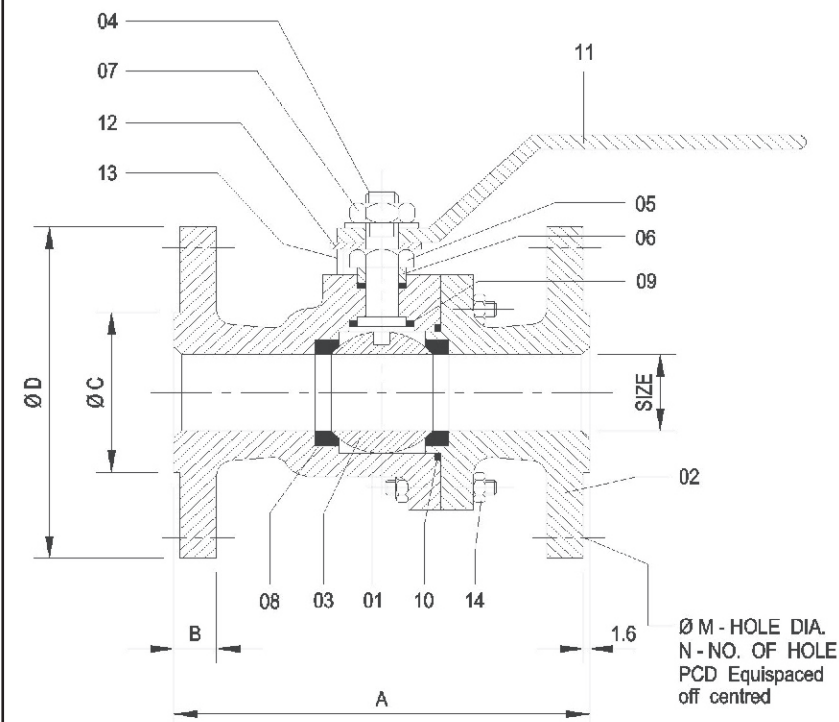
TESTING & INSPECTION STD.: API 598

FACE TO FACE: AS PER ANSI B 16.10

END CONNECTIONS: ANSI B 16.5

DRILLING: TABLE D, E, F, ASA 150 #, ASA 300 #

FOR FLANGE DIM. REFER TO PAGE NO. 32, 33 & 34



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				

TWO PIECE (FLANGE END)

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	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.	-

SUITABLE FOR				
STEAM	WATER	OIL	AIR	GASES
●	●	●		

SIZE		CLASS - 150						
IN.	M.M.	A	B	Ø C	Ø D	Ø M	N	PCD
1/2"	15	108	10.0	35	89.0	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	16	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	4	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	267	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	Ø C	D	Ø M	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

CLASS
150



SINGLE PIECE BALL VALVE

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TECHNICAL DATA

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

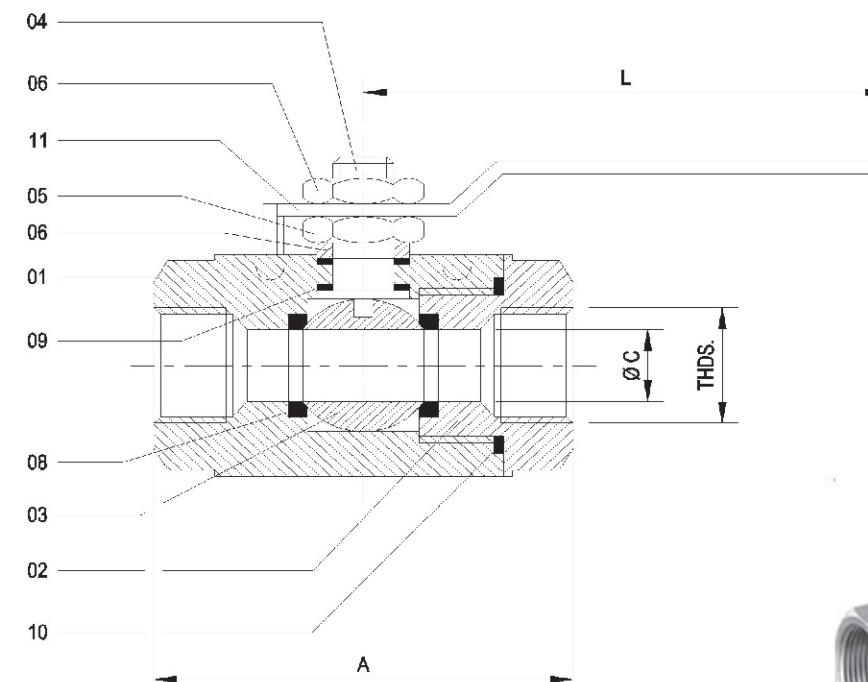
TESTING & INSPECTION STD.: API 598

FACE TO FACE: AS PER ANSI B 16.10

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

SINGLE PIECE (SCREW END)

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	M.S. / S.S.	1



SUITABLE FOR

STEAM	WATER	OIL	AIR	GASES
	●	●		

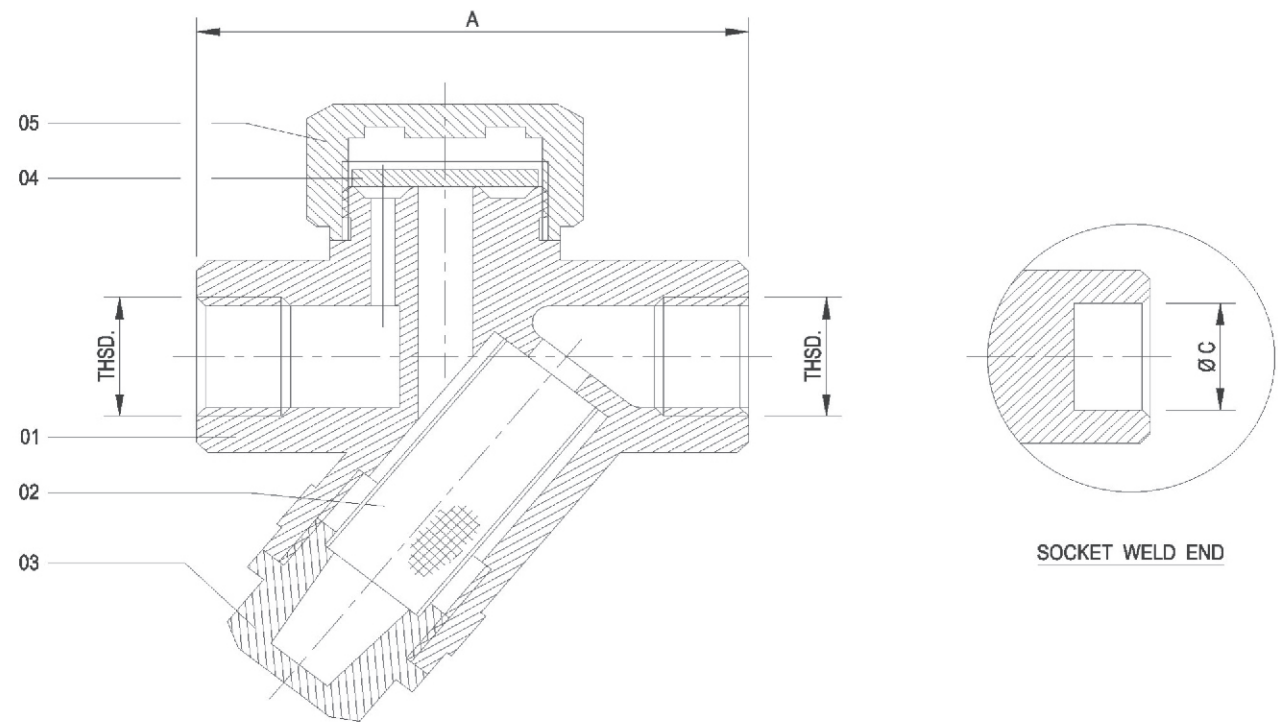
PRIMARY SERVICE RATING & TEST PRESSURE				
CLASS	WORKING PRESS.	HYD. TEST PRESSURE		
		BODY	SEAT	TEMP.
150	150 PSIG	500 PSIG	230 PSIG	200°F
AIR TEST - SEAT 80 PSIG ±10 PSIG				

SIZE		A	Ø C	L	THDS. BSP / 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

TECHNICAL DATA
SCREW END : ANSI B 1.20.1
SOCKET WELD END : ANSI B 16.11

NO.	DESCRIPTION	MATERIAL	QTY.
01	BODY	BRONZE / S.S. CF8 / CF8M / CA 40	1
02	SCREEN	S.S. 304 (20 / 40 MESH)	1
03	PLUG	S.S. CF8 / CF8M / CA 40	1
04	DISC	S.S. CF8 / CF8M / CA 40	1
05	BODY COVER	S.S. CF8 / CF8M / CA 40	1

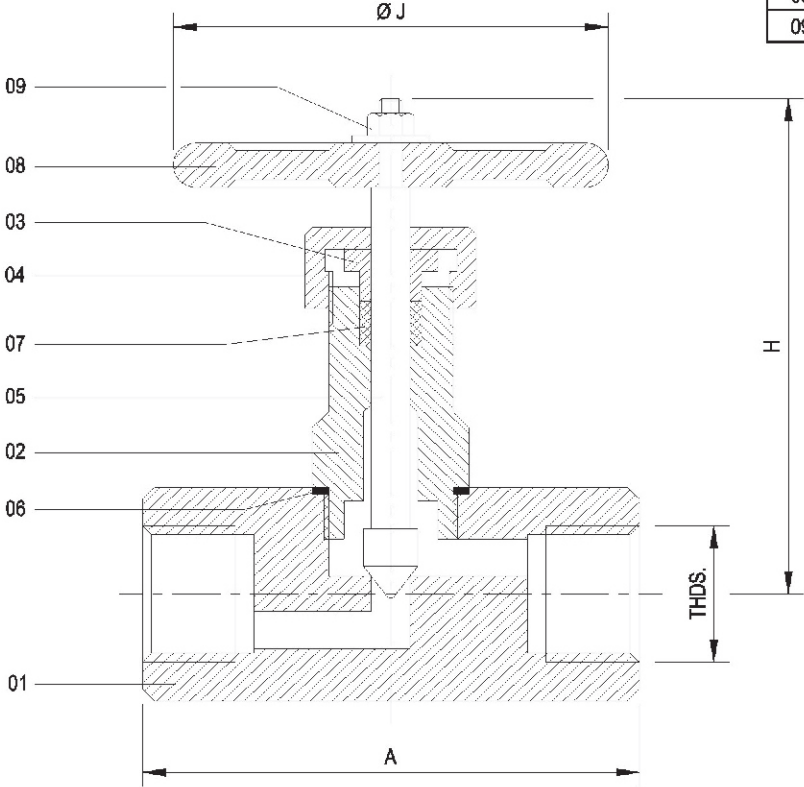


SUITABLE FOR				
STEAM	WATER	OIL	AIR	GASES
●			●	

SIZE		A	THDS.	Ø C
IN.	M.M.			
1/2"	15	76	1/2" BSP / BSPT / NPT	22.0
3/4"	20	76	3/4" BSP / BSPT / NPT	27.5
1"	25	90	1" BSP / BSPT / NPT	34.0

ALL DIMENSION ARE IN MM

NO.	DESCRIPTION	MATERIAL	QTY.
01	BODY	AISI 304 / AISI 316 / M.S.	1
02	BONNET	AISI 304 / AISI 316 / M.S.	1
03	GLAND	AISI 304 / AISI 316	1
04	GLAND NUT	AISI 304 / AISI 316	1
05	STEM	AISI 304 / AISI 316	1
06	BODY GASKET	PTFE	--
07	GLAND PACKING	PTFE	1
08	HAND WHEEL	BACKELITE	1
09	HAND WHEEL NUT	M.S.	1



SUITABLE FOR				
STEAM	WATER	OIL	AIR	GASES
			●	●

SIZE	A	THDS.		H	Ø J
1/8"	45	1/8"	BSP - BSPT - NPT	75	50
1/4"	50	1/4"	BSP - BSPT - NPT	75	50
3/8"	50	3/8"	BSP - BSPT - NPT	75	50
1/2"	57	1/2"	BSP - BSPT - NPT	75	50
3/4"	65	3/4"	BSP - BSPT - NPT	75	65
1"	70	1"	BSP - BSPT - NPT	75	65
1.1/2"	102	1.1/2"	BSP - BSPT - NPT	140	102
2"	115	2"	BSP - BSPT - NPT	140	102

ALL DIMENSION ARE IN MM