

FIG. I
SIZE : UPTO 150MM DIA

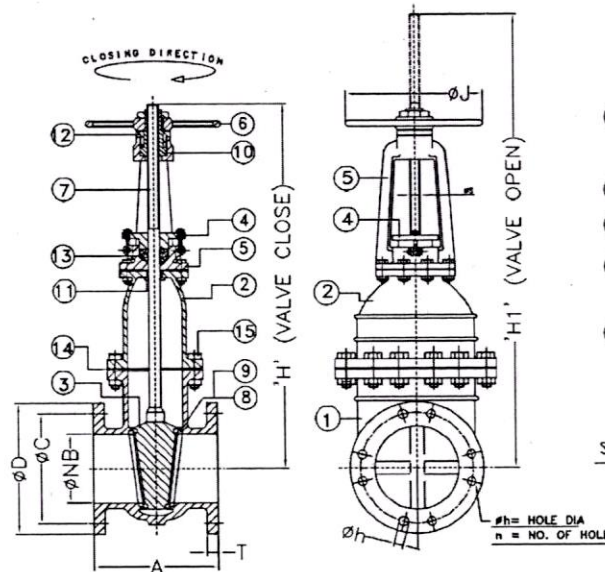


FIG. II
SIZE : 200MM TO 300MM DIA

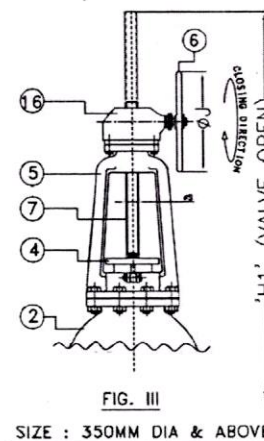


FIG. III
SIZE : 350MM DIA & ABOVE

PN-1.0 Rating

02	50	178±2	165	125	18	18	4	22	460	510	225
01	65	190±2	185	145	18	18	4	22	495	560	225
02	80	203±2	200	160	20	18	8	22	530	610	225
09	100	229±2	220	180	20	18	8	27	620	720	320
11	150	267±2	285	240	22	22	8	27	800	950	320
08	200	292±2	340	295	24	22	8	32	1000	1200	360
05	250	330±3	395	350	26	22	12	36	1190	1440	400
12	300	356±3	445	400	26	22	12	36	1375	1675	400
05	350	381±3	505	460	28	22	16	37	1550	1900	450
15	400	406±3	565	515	32	26	16	42	1670	2070	450
10	450	432±3	615	565	32	26	20	47	1800	2250	500
08	500	457±3	670	620	36	26	20	47	1930	2430	500
Nos.	NB	A	#D	#C	T	#H	n	#S	H	H1	#J
QTY.	VALVE FACE TO SIZE	FACE	FLANGE DIMENSIONS				STEM DIA	HEIGHT (oppx)	H/WHEEL DIA		

MATERIALS OF CONSTRUCTION

ITEM	DESCRIPTION	MATERIAL	SPECIFICATION
1	BODY	CAST IRON	IS:210 Gr. FG-260
2	BONNET		
3	WEDGE DISC (Solid)		
4	GLAND		
5	STUFFING BOX WITH YOKE	STAINLESS STEEL	AISI-410 (13% Cr. Steel)
6	HAND WHEEL		
7	STEM	GUN METAL	IS:318 Gr. LTB 2
8	BODY SEAT RING		
9	WEDGE FACE RING	CARBON STEEL/G.M.	EN-19
10	YOKE SLEEVE NUT	STAINLESS STEEL	AISI-410 (13% Cr. Steel)
11	BACK SEAT BUSH	CARBON STEEL	IS:2062 Gr. A
12	SLEEVE LOCK NUT	JUTE & HEMP	IS:5414
13	STEM PACKING	RUBBER	IS:638 Type-B
14	BONNET GASKET	CARBON STEEL	IS:1367 Class-4.8&4
15	BOLTS & NUTS	CAST IRON	IS:210 Gr. FG-260
16	BEVEL GEAR HOUSING	S.G. IRON	IS:1865 Gr. 500/7
17	GEAR WHEEL	ALLOY STEEL	IS:1570 (Part-3)
18	PINION & PINION SHAFT	MILD STEEL	IS:2062 Gr. B (Not shown in Drg.)
19	COMPANION FLANGES		

HYDROSTATIC TEST PRESSURE for PN-1.0 Rating Valves :-

BODY TEST PRESSURE :- 15 Kg./Sq.Cm.(g) WITH WATER - DURATION 5 MIN.

SEAT TEST PRESSURE :- 10 Kg./Sq.Cm.(g) WITH WATER - DURATION 2 MIN.

NOTES :-

- ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE STATED.
- GATE VALVE WILL BE BOLTED BONNET, SOLID WEDGE, RISING STEM OUTSIDE SCREWED TYPE SUITABLE FOR MANUALLY OPERATED.
- FACE TO FACE DIMENSION GENERALLY CONFORMING TO IS:14846/2000 (PD).
- FLANGED ENDS WILL BE FLAT FACED & DRILLED TO IS:6392/71 (Table-17 & 11)
- VALVE SHOULD CLOSE WITH CLOCKWISE ROTATION OF HAND WHEEL. DIRECTION OF 'OPEN' & 'SHUT' MARK SHOULD BE CAST ON HAND WHEEL.
- PAINTING :-
A) PRIMER- 2 (TWO) COATS OF RED OXIDE PRIMER, 40-50 MICRONS EACH COAT.
B) FINISH - 2 (TWO) COATS OF BLACK BITUMINOUS PAINTS, 35-40 MICRONS EACH COAT.
TOTAL DFT 150-180 MICRONS
- MARKING:- BRAND NAME/ SIZE/ PN-RATING / HEAT NO. & TAG. NO.
- A PAIR OF COMPANION FLANGES, NUTS, BOLTS & GASKET (NITRILE RUBBER) WILL BE PROVIDED WITH EACH VALVE.
- TESTING STD. GENERALLY CONFORMING TO IS:14846/2000.

SUPER

MANUFACTURER	SBU-NAME	TITLE
DATA SHEETS AND G.A. DRAWINGS FOR		
GATE VALVES		
CHECKED	P.R.	APPROVED
DESIGNED	K.D.	P.HAZRA
DRAWN	K.D.	33.07.2025
DRAWING NO.	SVMC/SV/05/2025-2026	REV. NO 0



DEPT.	INITIALS	DATE	SIGNATURE	DATE
CIVIL				
MECH.				
ELEC.				
INST.				