

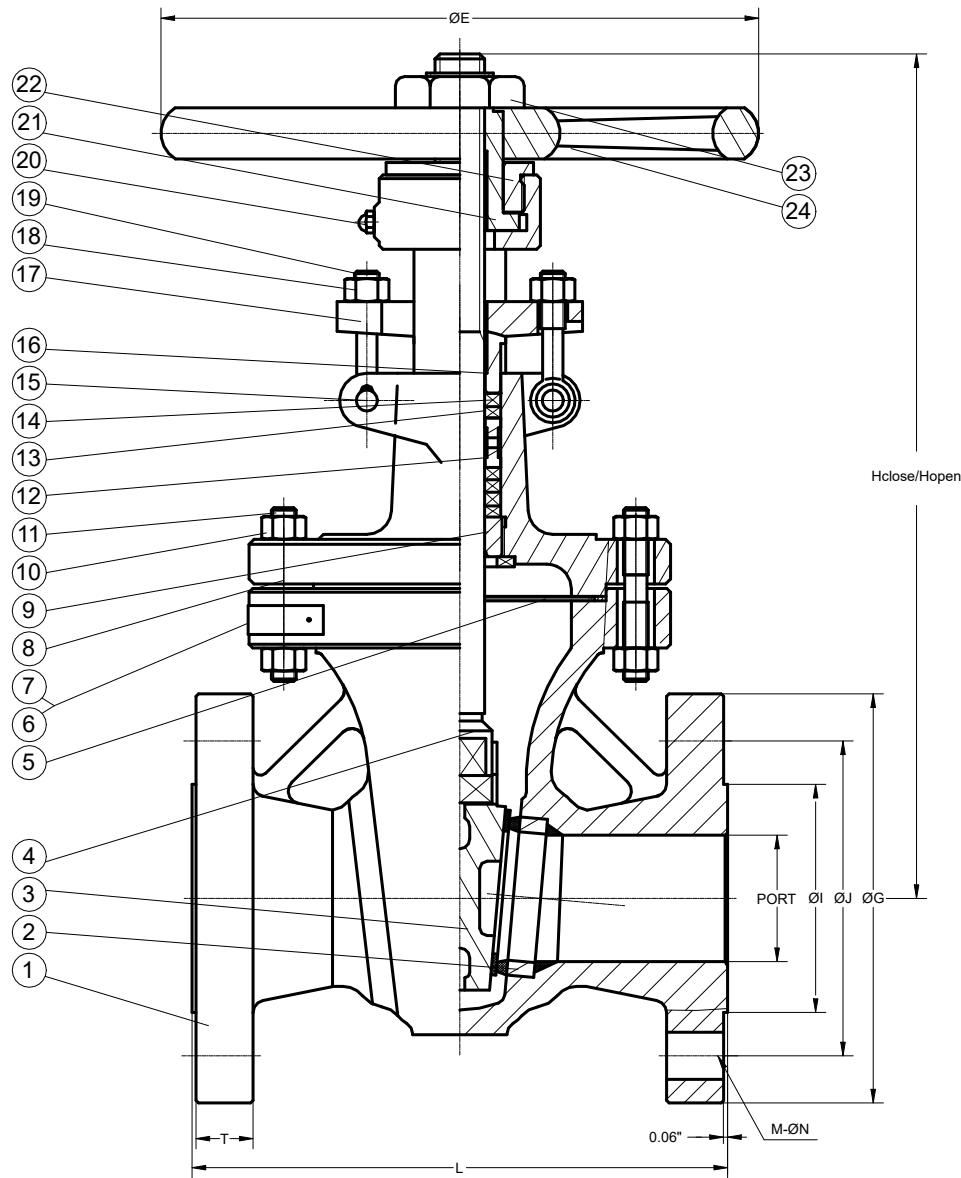
APPLICABLE STANDARDS:
SHELL WALL THICKNESS:ASME B16.34
Face to Face:ASME B16.10
End Flanges:ASME B16.5

MATERIALS LIST

NO.	NAME PARTS	MATERIALS
1	BODY	ASTM A216 Gr.WCB
2	SEAT RING	ASTM A105+STL 6#
3	WEDGE	ASTM A216 WCB+13Cr(4" & below ASTM A217 Gr. CA15) (FLEXIBLE WEDGE)
4	STEM	ASTM A182 Gr.F6a CL3
5	GASKET	GRAPHITE+304 (SPIRAL WOUNDED)
6	NAMEPLATE	ASTM A666 Gr. 304
7	RIVET	ASTM A666 Gr. 304
8	BONNET	ASTM A216 Gr.WCB
9	BACK SEAT RING	ASTM A182 Gr. F6a CL3
10	BONNET NUT	ASTM A194 Gr. 2H (HEAVY)
11	BONNET BOLT	ASTM A193 Gr. B7
12	PACKING WASHER	ASTM A182 Gr. F6a CL2
13	PACKING	BRAIDED GRAPHITE (Cup and Cone Design)
14	PACKING	FLEXIBLE GRAPHITE (Cup and Cone Design)
15	EYE BOLT PIN	ASTM A29 Gr.1035
16	GLAND	ASTM A182 Gr. F6a CL2
17	GLAND FLANGE	ASTM A105
18	EYE BOLT NUT	ASTM A194 Gr. 2H (HEAVY)
19	EYE BOLT	ASTM A193 Gr. B7
20	OIL FILLER	ASTM A570 Gr. A
21	STEM NUT	ASTM A439 Gr. D-2
22	RETAINING NUT	ASTM A29 Gr.1035
23	HANDWHEEL NUT	ASTM A29 Gr.1035
24	HANDWHEEL	NODULAR CAST IRON (ASW 60-40-18)

unit:inch

SIZE	PORT	L	ØE	Hclose	Hopen	ØG	ØJ	ØI	T	M	ØN	Weight(lbs)	Cv's(GPM)	Torque(lbf-in)	
DN50	2"	2.00	8.50	7.87	12.12	14.49	6.50	5.00	3.62	0.81	8	0.75	59.58	60.3	177
DN65	2-1/2"	2.50	9.50	7.87	13.54	16.30	7.50	5.88	4.12	0.94	8	0.875	83.43	74.7	221
DN80	3"	3.00	11.10	9.84	14.25	17.60	8.25	6.62	5.00	1.04	8	0.875	109.26	108.7	354
DN100	4"	4.00	12.00	9.84	16.18	20.59	10.00	7.88	6.19	1.19	8	0.875	164.79	188.2	575
DN125	5"	5.00	15.00	11.81	21.97	27.68	11.00	9.25	7.31	1.31	8	0.875	238.3	273.4	929
DN150	6"	6.00	15.88	13.78	23.13	29.98	12.50	10.62	8.50	1.38	12	0.875	288.33	423.4	1328
DN200	8"	8.00	16.50	15.75	29.65	38.50	15.00	13.00	10.62	1.56	12	1.00	469.63	752.7	2390
DN250	10"	10.00	18.00	17.71	35.47	46.28	17.50	15.25	12.75	1.81	16	1.125	633.33	1176.1	3938
DN300	12"	12.00	19.75	19.69	41.97	54.96	20.50	17.75	15.00	1.94	16	1.25	969.63	1683.1	5797



	APPROVED BY.	CHECK BY.	DRAWN BY.	DRAWINGNO.		MATERIAL		UNIT	DESCRIPTION	
SIGN	Daniel	Eddie	JQZ	WARREN-1305C-8		MATERIALS LIST		inch	OKWA	CARBON STEEL GATE VALVES FLANGE END, ASME CLASS 300
DATE	01/03/2023	01/03/2023	01/03/2023	REVISION	04	SCALE	FREE			