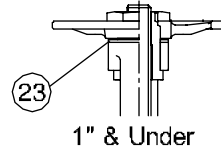
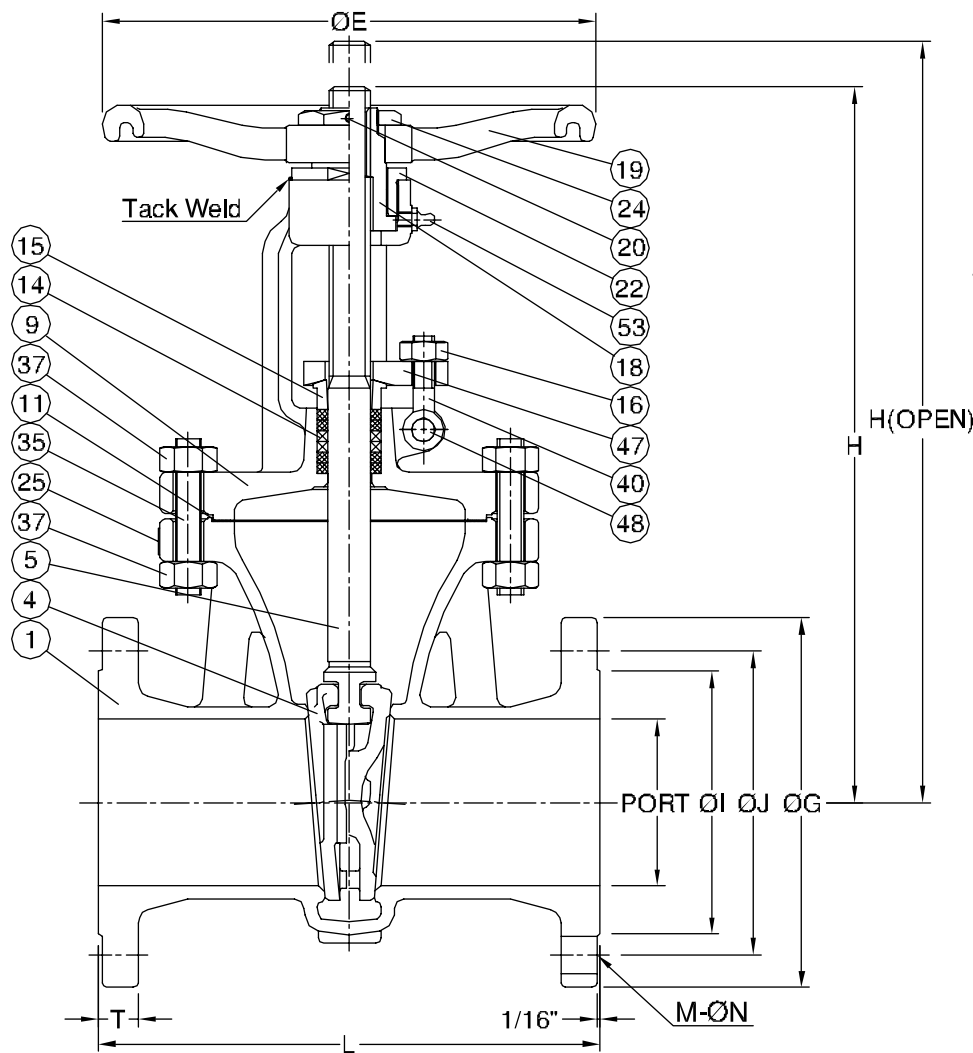


Fig No: WARREN-1306



MATERIALS LIST

NO.	NAME PARTS	MATERIALS
1	BODY	ASTM A351 Gr.CF8M
4	WEDGE	ASTM A351 Gr.CF8M (FLEXIBLE WEDGE)
5	STEM	ASTMA276 Gr.316
9	BONNET	ASTM A351 Gr.CF8M
11	GASKET	S.S SPIRAL WOUND+PTFE.
14	PACKING	PTFE.
15	GLAND	ASTM A351 Gr.CF8M
16	EYE BOLT NUT	ASTM A194 Gr.8 (HEAVY)
18	SLEEVE	ASTM A394 Gr.D2C
19	HANDWHEEL	ASTM A536 DUCTILE IRON
20	SET SCREW	ASTM A193 Gr.B8
22	STEM NUT	ASTM A351 Gr.CF8 (1-1/2" ~ 6")
23	WASHER	ASTM A276 Gr.304 (1" UNDER)
24	HANDWHEEL NUT	ASTM A351 Gr.CF8
25	NAME PLATE	ASTM A666-304
35	BONNET STUD	ASTM A193 Gr.B8 CLASS 2
37	BONNET NUT	ASTM A194 Gr.8 (HEAVY)
40	EYE BOLT	ASTM A193 Gr.B8
47	GLAND FLANGE	ASTM A351 Gr.CF8
48	EYE BOLT PIN	ASTM A276 Gr.304
53	GREASE FITTING	ANSI 304 (1-1/2" ABOVE)

DIMENSIONS

SIZE	PORT	L	ØE	H	H(OPEN)	ØG	ØJ	ØI	T	M	ØN	unit:inch Wc/g ht(lbs)
DN15	1/2"	0.59	5.50	3.94	7.20	7.91	3.75	2.62	1.38	0.56	4	5/8 9
DN20	3/4"	0.75	6.00	3.94	7.95	8.86	4.62	3.25	1.69	0.62	4	3/4 12
DN25	1"	1.00	6.50	5.91	9.41	10.55	4.88	3.50	2.00	0.69	4	3/4 19
DN40	1-1/2"	1.50	7.50	7.87	10.55	12.24	6.12	4.50	2.88	0.81	4	7/8 32
DN50	2"	2.00	8.50	7.87	11.85	14.17	6.50	5.00	3.62	0.88	8	3/4 39
DN65	2-1/2"	2.50	9.49	7.87	13.15	16.02	7.50	5.88	4.13	1.00	8	7/8 56
DN80	3"	3.11	11.13	11.81	14.49	17.91	8.25	6.62	5.00	1.12	8	7/8 87
DN100	4"	4.00	12.00	11.81	17.17	21.57	10.00	7.88	6.19	1.25	8	7/8 123
DN150	6"	6.00	15.88	--	--	--	12.50	10.62	8.50	1.44	12	7/8 --
DN200	8"	8.00	16.50	--	--	--	15.00	13.00	10.62	1.62	12	1 --

APPLICABLE STANDARDS:
 Gate Valve:API 603
 Shell Wall Thickness:ANSI B16.34
 Face to Face:ANSI B16.10
 End Flanges:ANSI B16.5
 Inspection Per API 598

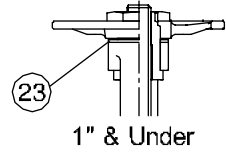
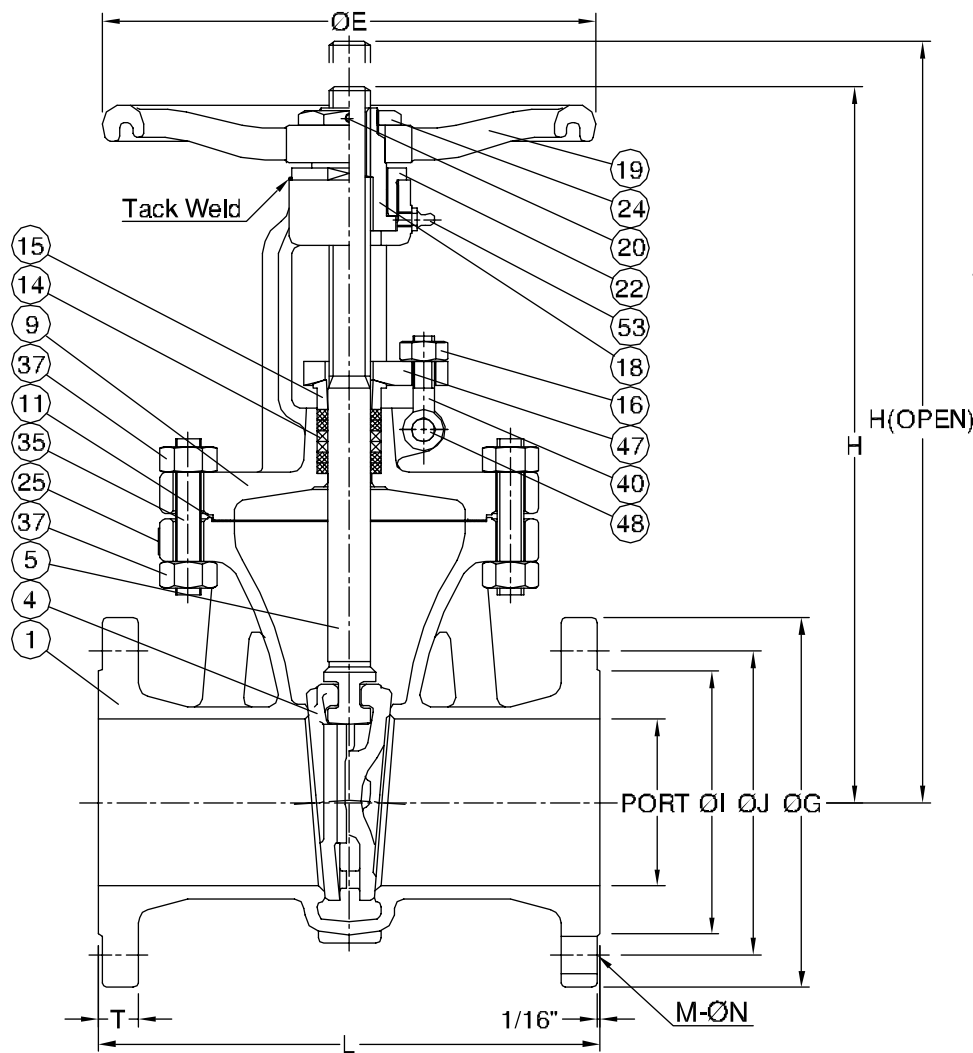
TEST PRESSURE:
 Shell (by Water),1080 Psig
 Seat (by Water),792 Psig
 (by Air),80 Psig

BODY MARK (EXAMPLE)
 WARREN
 2
 300
 CF8M



	APPROVED BY.	CHECK BY.	DRAWN BY.	DRAWINGNO.	MATERIAL	UNIT	DESCRIPTION
SIGN	TONY	MICHAEL	SAYA	WARREN-1306	MATERIAL LIST	inch	GATE VALVES ANSI CLASS 300
DATE	04/12/2009	04/12/2009	04/12/2009	REVISION 02	SCALE	FREE	

Fig No:WARREN-1306PG



MATERIALS LIST

NO.	NAME PARTS	MATERIALS
1	BODY	ASTM A351 Gr.CF8M
4	WEDGE	ASTM A351 Gr.CF8M (FLEXIBLE WEDGE)
5	STEM	ASTMA276 Gr.316
9	BONNET	ASTM A351 Gr.CF8M
11	GASKET	GRAPHITE
14	PACKING	GRAPHITE
15	GLAND	ASTM A351 Gr.CF8M
16	EYE BOLT NUT	ASTM A194 Gr.8 (HEAVY)
18	SLEEVE	ASTM A394 Gr.D2C
19	HANDWHEEL	ASTM A536 DUCTILE IRON
20	SET SCREW	ASTM A193 Gr.B8
22	STEM NUT	ASTM A351 Gr.CF8 (1-1/2" ~ 6")
23	WASHER	ASTM A276 Gr.304 (1" UNDER)
24	HANDWHEEL NUT	ASTM A351 Gr.CF8
25	NAME PLATE	ASTM A666-304
35	BONNET STUD	ASTM A193 Gr.B8 CLASS 2
37	BONNET NUT	ASTM A194 Gr.8 (HEAVY)
40	EYE BOLT	ASTM A193 Gr.B8
47	GLAND FLANGE	ASTM A351 Gr.CF8
48	EYE BOLT PIN	ASTM A276 Gr.304
53	GREASE FITTING	ANSI 304 (1-1/2" ABOVE)

DIMENSIONS

SIZE		PORT	L	ØE	H	H(OPEN)	ØG	ØJ	ØI	T	M	ØN	unit:inch Wc:q ht:(lbs)
DN15	1/2"	0.59	5.50	3.94	7.20	7.91	3.75	2.62	1.38	0.56	4	5/8	9
DN20	3/4"	0.75	6.00	3.94	7.95	8.86	4.62	3.25	1.69	0.62	4	3/4	12
DN25	1"	1.00	6.50	5.91	9.41	10.55	4.88	3.50	2.00	0.69	4	3/4	19
DN40	1-1/2"	1.50	7.50	7.87	10.55	12.24	6.12	4.50	2.88	0.81	4	7/8	32
DN50	2"	2.00	8.50	7.87	11.85	14.17	6.50	5.00	3.62	0.88	8	3/4	39
DN65	2-1/2"	2.50	9.49	7.87	13.15	16.02	7.50	5.88	4.13	1.00	8	7/8	56
DN80	3"	3.11	11.13	11.81	14.49	17.91	8.25	6.62	5.00	1.12	8	7/8	87
DN100	4"	4.00	12.00	11.81	17.17	21.57	10.00	7.88	6.19	1.25	8	7/8	123
DN150	6"	6.00	15.88	--	--	--	12.50	10.62	8.50	1.44	12	7/8	--
DN200	8"	8.00	16.50	--	--	--	15.00	13.00	10.62	1.62	12	1	--

APPLICABLE STANDARDS:
 Gate Valve:API 603
 Shell Wall Thickness:ANSI B16.34
 Face to Face:ANSI B16.10
 End Flanges:ANSI B16.5
 Inspection Per API 598

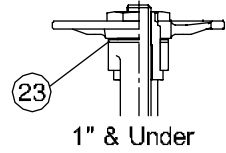
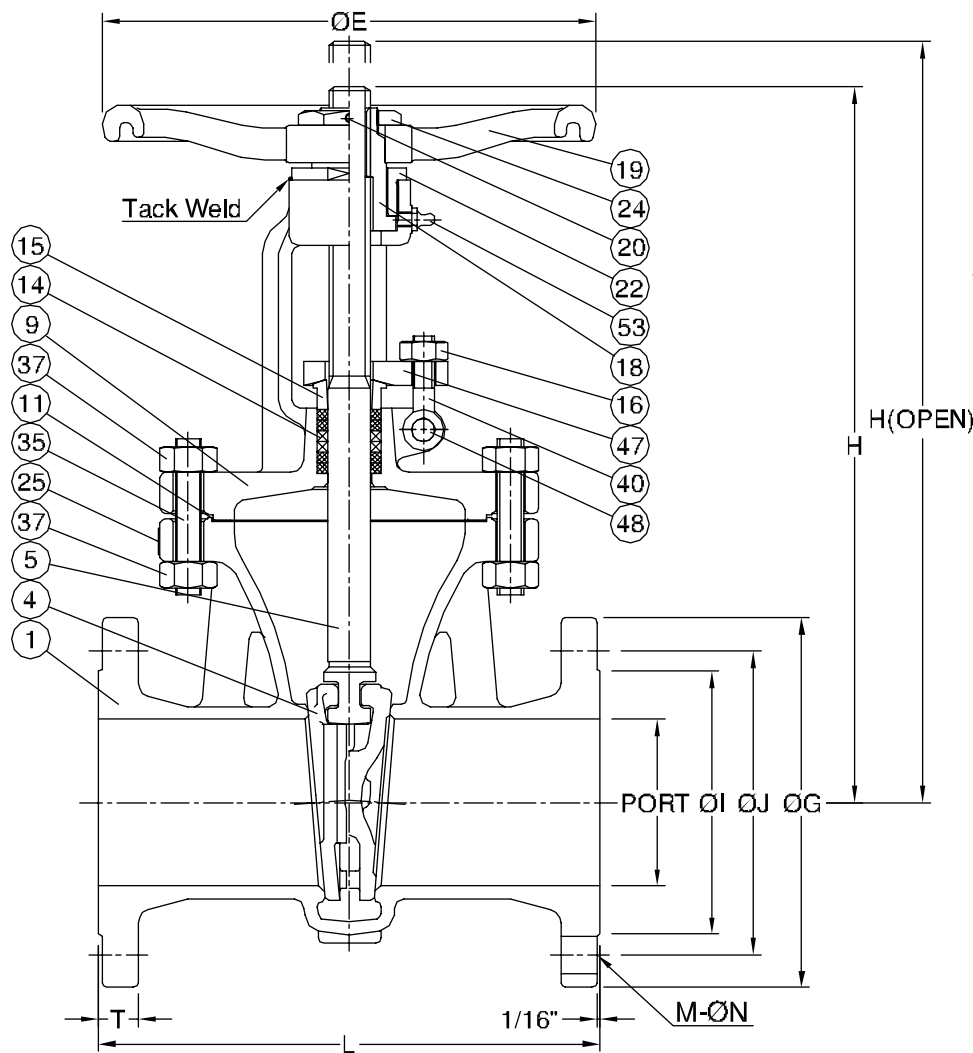
TEST PRESSURE:
 Shell (by Water),1080 Psig
 Seat (by Water),792 Psig
 (by Air),80 Psig

BODY MARK (EXAMPLE)
 WARREN
 2
 300
 CF8M



	APPROVED BY.	CHECK BY.	DRAWN BY.	DRAWINGNO.	MATERIAL	UNIT	DESCRIPTION
SIGN	TONY	MICHAEL	SAYA	WARREN-1306PG	MATERIAL LIST	inch	GATE VALVES ANSI CLASS 300
DATE	04/12/2009	04/12/2009	04/12/2009	REVISION 02	SCALE	FREE	

Fig No: WARREN-1307



MATERIALS LIST

NO.	NAME PARTS	MATERIALS
1	BODY	ASTM A351 Gr.CG8M
4	WEDGE	ASTM A351 Gr.CG8M (FLEXIBLE WEDGE)
5	STEM	ASTM A276 Gr.317
9	BONNET	ASTM A351 Gr.CG8M
11	GASKET	S.S SPIRAL WOUND+PTFE.
14	PACKING	PTFE.
15	GLAND	ASTM A351 Gr.CG8M
16	EYE BOLT NUT	ASTM A194 Gr.8 (HEAVY)
18	SLEEVE	ASTM A394 Gr.D2C
19	HANDWHEEL	ASTM A536 DUCTILE IRON
20	SET SCREW	ASTM A193 Gr.B8
22	STEM NUT	ASTM A351 Gr.CF8 (1-1/2" ~ 6")
23	WASHER	ASTM A276 Gr.304 (1" UNDER)
24	HANDWHEEL NUT	ASTM A351 Gr.CF8
25	NAME PLATE	ASTM A666-304
35	BONNET STUD	ASTM A193 Gr.B8 CLASS 2
37	BONNET NUT	ASTM A194 Gr.8 (HEAVY)
40	EYE BOLT	ASTM A193 Gr.B8
47	GLAND FLANGE	ASTM A351 Gr.CF8
48	EYE BOLT PIN	ASTM A276 Gr.304
53	GREASE FITTING	ANSI 304 (1-1/2" ABOVE)

DIMENSIONS

SIZE	PORT	L	OE	H	H(OOPEN)	OG	OJ	OI	T	M	ON	unit:inch Wc:q ht(lbs)
DN15	1/2"	0.59	5.50	3.94	7.20	7.91	3.75	2.62	1.38	0.56	4	9
DN20	3/4"	0.75	6.00	3.94	7.95	8.86	4.62	3.25	1.69	0.62	4	12
DN25	1"	1.00	6.50	5.91	9.41	10.55	4.88	3.50	2.00	0.69	4	19
DN40	1-1/2"	1.50	7.50	7.87	10.55	12.24	6.12	4.50	2.88	0.81	4	32
DN50	2"	2.00	8.50	7.87	11.85	14.17	6.50	5.00	3.62	0.88	8	39
DN65	2-1/2"	2.50	9.49	7.87	13.15	16.02	7.50	5.88	4.13	1.00	8	56
DN80	3"	3.11	11.13	11.81	14.49	17.91	8.25	6.62	5.00	1.12	8	87
DN100	4"	4.00	12.00	11.81	17.17	21.57	10.00	7.88	6.19	1.25	8	123
DN150	6"	6.00	15.88	--	--	--	12.50	10.62	8.50	1.44	12	--
DN200	8"	8.00	16.50	--	--	--	15.00	13.00	10.62	1.62	12	--

APPLICABLE STANDARDS:
 Gate Valve:API 603
 Shell Wall Thickness:ANSI B16.34
 Face to Face:ANSI B16.10
 End Flanges:ANSI B16.5
 Inspection Per API 598

BODY MARK
(EXAMPLE)

WARREN

2
300
CG8M

TEST PRESSURE:
 Shell (by Water),1080 Psig
 Seat (by Water),792 Psig
 (by Air),80 Psig



	APPROVED BY.	CHECK BY.	DRAWN BY.	DRAWING NO.	MATERIAL	UNIT	DESCRIPTION
SIGN	TONY	MICHAEL	SAYA	WARREN-1307	MATERIAL LIST	inch	GATE VALVES ANSI CLASS 300
DATE	04/12/2009	04/12/2009	04/12/2009	REVISION 02	SCALE	FREE	