

BODY MARK  
 WARREN  
 2  
 600  
 CF8M

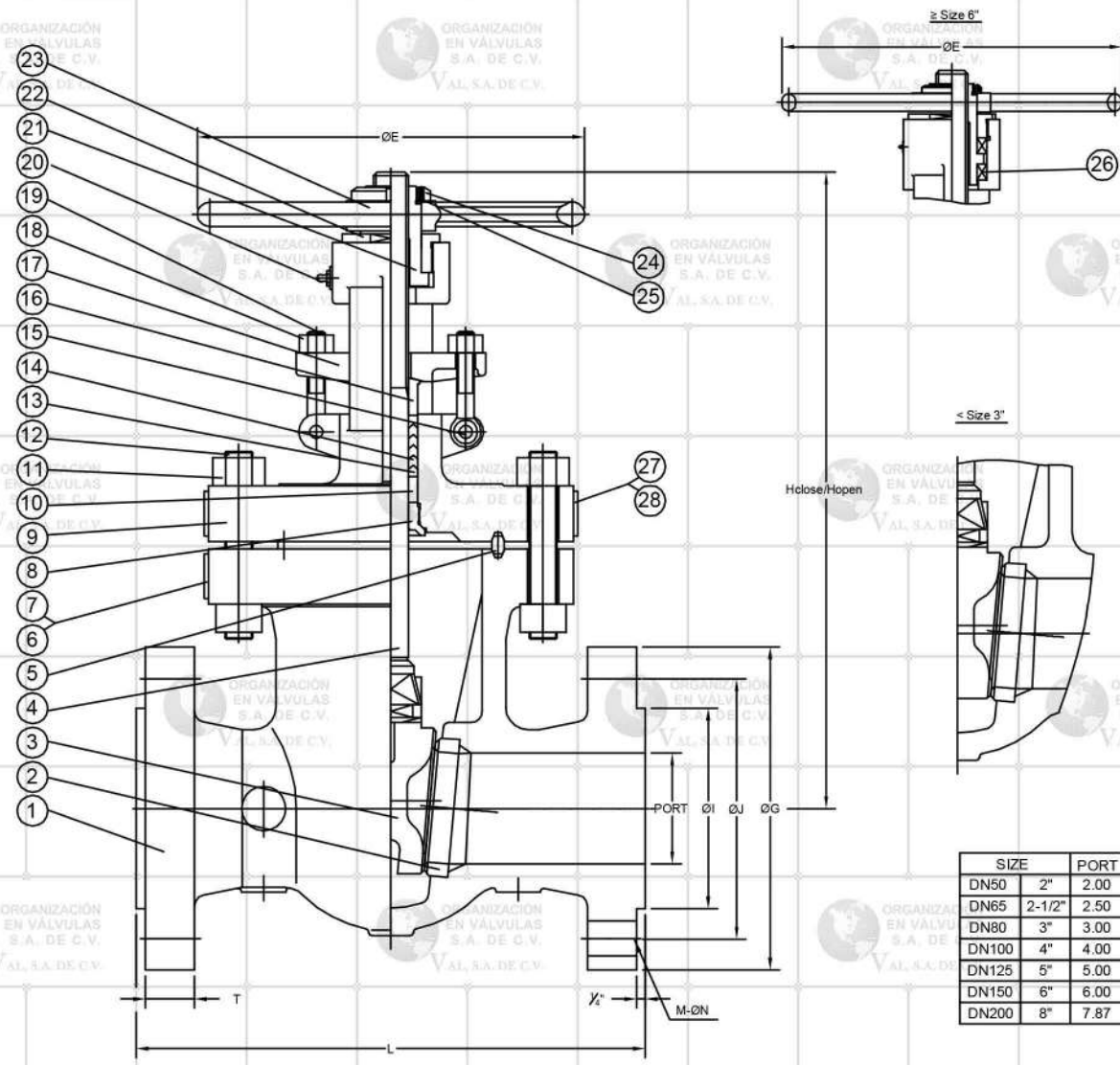
TEST PRESSURE:  
 Test inspection Per API 598  
 Shell (by Water): 2175Psig  
 Seat (by Water): 1584Psig  
 (by Air): 80Psig  
 Low Emission: ISO 15848-2, 50PPM

APPLICABLE STANDARDS:  
 Gate Valve: API 600  
 Shell Wall Thickness: API 600  
 Face to Face: ANSI B16.10  
 End Flanges: ANSI B16.5  
 NACE MR-01-75

# Fig No.: WARREN-1606-12N

## MATERIALS LIST

NO.	NAME PARTS	MATERIALS
1	BODY	ASTM A351 Gr. CF8M
2	SEAT RING	ASTM A182 Gr. F316+STL 6#
3	WEDGE	ASTM A351 Gr. CF8M
4	STEM	ASTM A182 Gr. F316
5	SEAL RING	ASTM A182 Gr. F316
6	NAMEPLATE	ASTM A666 Gr. 304
7	RIVET	ASTM A666 Gr. 304
8	BACK SEAT RING	ASTM A276 Gr. 316
9	BONNET	ASTM A351 Gr. CF8M
10	PACKING WASHER	ASTM A276 Gr. 316
11	BONNET NUT	ASTM A194 Gr. 8M (HEAVY)
12	BONNET BOLT	ASTM A193 Gr. B8M CL 2
13	PACKING	BRAIDED GRAPHITE (Cup and Cone Design)
14	PACKING	FLEXIBLE GRAPHITE (Cup and Cone Design)
15	EYE BOLT PIN	ASTM A276 Gr. 410
16	GLAND	ASTM A276 Gr. 316
17	GLAND FLANGE	ASTM A351 Gr. CF8
18	EYE BOLT NUT	ASTM A194 Gr. 8M (HEAVY)
19	EYE BOLT	ASTM A193 Gr. B8M
20	OIL FILLER	ASTM A276 Gr. 304
21	STEM NUT	ASTM A439 Gr. D-2C
22	RETAINING NUT	ASTM A276 Gr. 420
23	HANDWHEEL	ASTM A536 Gr. 65-45-12
24	HANDWHEEL NUT	ASTM A276 Gr. 420
25	SCREW	ASTM A666 Gr. 316
26	THRUST BEARING	UNS 52100
27	LOW EMISSION NAMEPLATE	ASTM A666 Gr. 304
28	RIVET	ASTM A666 Gr. 304



## DIMENSIONS

SIZE	PORT	L	ØE	Hclose	Hopen	ØG	ØJ	ØI	T	M	ØN	Weight(lbs)	Cv's(GPM)	Torque(lb-in)	
DN50	2"	2.00	11.50	7.87	14.17	16.61	6.50	5.00	3.62	1.00	8	0.75	72.8	60.3	283.2
DN65	2-1/2"	2.50	13.00	9.84	16.46	19.49	7.50	5.88	4.12	1.12	8	0.88	112.4	75.4	354.0
DN80	3"	3.00	14.00	11.81	15.94	19.29	8.25	6.62	5.00	1.26	8	0.88	154.3	109.7	770.0
DN100	4"	4.00	17.00	11.81	21.97	26.69	10.75	8.50	6.19	1.50	8	1.00	280.0	190.0	1274.5
DN125	5"	5.00	20.00	15.75	23.78	27.87	13.00	10.50	7.31	1.75	8	1.12	440.9	342.0	2088.8
DN150	6"	6.00	22.00	19.69	26.14	32.56	14.00	11.50	8.50	1.89	12	1.12	445.3	427.5	3080.1
DN200	8"	7.87	26.00	23.62	30.76	39.09	16.50	13.75	10.62	2.20	12	1.26	763.9	752.2	4823.6



	APPROVED BY.	CHECK BY.	DRAWN BY.	DRAWING NO.	MATERIAL	UNIT
SIGN	CN Chen	Ji Zhuping	Wang Wei	WARREN-1606-12N	MATERIALS LIST	inch
DATE	11/17/2014	11/17/2014	11/17/2014	REVISION 02	SCALE	FREE

DESCRIPTION  
**STAINLESS STEEL GATE VALVES**  
**FLANGE END, ANSI CLASS 600**

BODY MARK  
 WARREN  
 10  
 600  
 CF8M

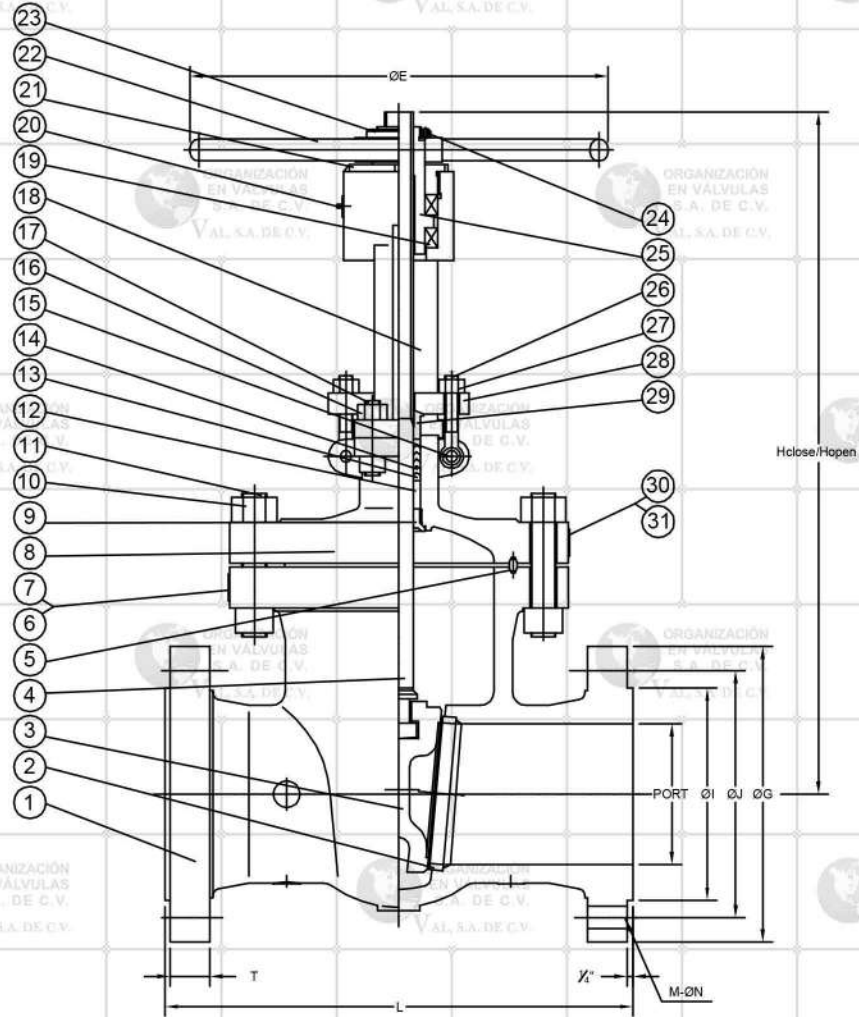
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APPLICABLE STANDARDS:  
 Gate Valve:API 600  
 Shell Wall Thickness:API 600  
 Face to Face:ANSI B16.10  
 End Flanges:ANSI B16.5  
 NACE MR-01-75

# Fig No.:WARREN-1606-12N

## MATERIALS LIST

NO.	NAME PARTS	MATERIALS
1	BODY	ASTM A351 Gr.CF8M
2	SEAT RING	ASTM A182 Gr.F316+STL 6#
3	WEDGE	ASTM A351 Gr.CF8M (FLEXIBLE WEDGE)
4	STEM	ASTM A182 Gr.F316
5	SEAL RING	ASTM A182 Gr.F316
6	NAMEPLATE	ASTM A666 Gr. 304
7	RIVET	ASTM A666 Gr. 304
8	BONNET	ASTM A351 Gr.CF8M
9	BACK SEAT RING	ASTM A276 Gr.316
10	BONNET NUT	ASTM A194 Gr. 8M (HEAVY)
11	BONNET BOLT	ASTM A193 Gr. B8M CL.2
12	PACKING WASHER	ASTM A276 Gr.316
13	PACKING	BRAIDED GRAPHITE (Cup and Cone Design)
14	PACKING	FLEXIBLE GRAPHITE (Cup and Cone Design)
15	EYE BOLT PIN	ASTM A276 Gr.420
16	YOKE NUT	ASTM A194 Gr. 8M (HEAVY)
17	YOKE BOLT	ASTM A193 Gr. B8M CL.2
18	YOKE	ASTM A216 Gr. WCB
19	THRUST BEARING	UNS 52100
20	OIL FILLER	ASTM A276 Gr.304
21	RETAINING NUT	ASTM A276 Gr.420
22	HANDWHEEL	ASTM A536 Gr.65-45-12
23	HANDWHEEL NUT	ASTM A276 Gr.420
24	SCREW	ASTM A666 Gr. 316
25	STEM NUT	ASTM A439 Gr. D-2C
26	EYE BOLT	ASTM A193 Gr. B8M
27	EYE BOLT NUT	ASTM A194 Gr. 8M (HEAVY)
28	GLAND FLANGE	ASTM A351 Gr.CF8
29	GLAND	ASTM A276 Gr.316
30	LOW EMISSION NAMEPLATE	ASTM A666 Gr. 304
31	RIVET	ASTM A666 Gr. 304



## DIMENSIONS

unit:inch

SIZE	PORT	L	ØE	Hclose	Hopen	ØG	ØJ	ØI	T	M	ØN	Weight(lbs)	Cv's(GPM)	Torque(lb·in)	
DN250	10"	9.75	31.00	23.62	36.54	46.89	20.00	17.00	12.75	2.50	16	138	1675.5	1158.8	8921.5
DN300	12"	11.75	33.00	23.62	43.35	55.75	22.00	19.25	15.00	2.64	20	138	2160.5	1686.9	14577.2
DN350	14"	12.87	35.00	28.35	51.10	65.43	23.75	20.75	16.23	2.76	20	150	2733.7	2018.9	19276.9



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SIGN	CN Chen	Ji Zhuping	Wang Wei	WARREN-1606-12N	MATERIALS LIST	inch
DATE	11/17/2014	11/17/2014	11/17/2014	REVISION 02	SCALE	FREE

STAINLESS STEEL GATE VALVES  
 FLANGE END, ANSI CLASS 600