



## CAST CARBON STEEL WEDGE GATE VALVES

Warren Valve’s line of Cast Carbon Steel Gate Valves are offered in classes 150, 300, 600, 900, and 1500. For oil and gas refineries and petrochemical plants, Warren’s carbon steel valves are an economical and quality choice.

Warren Valves are subject to rigorous quality inspections.

Our comprehensive evaluation includes on-site audits, inspection at the source, receiving inspections, and destructive material testing. Mill test reports are always available.

CLASS	FIGURE NUMBER
150#	1155
300#	1305
600#	1605
900#	1905
1500#	1505

### PRODUCT OVERVIEW

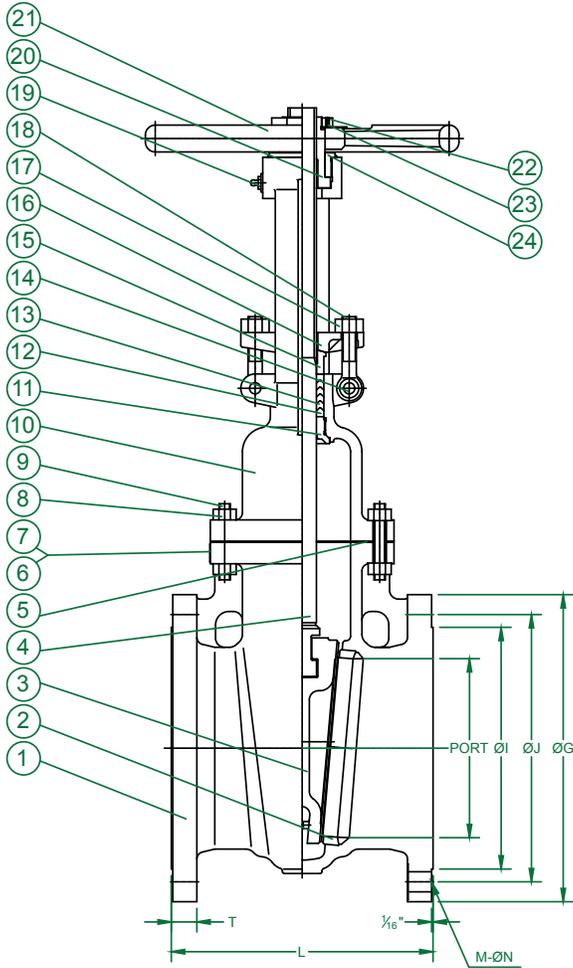
SIZE RANGE	2" - 48"
MATERIAL GRADES	WCB & LCC
TRIM MATERIALS	Trim 5, 8, 12, 16, & Special Materials
END CONFIGURATIONS	Raised Face & RTJ
OPTIONS	NACE, Bevel Gears, Actuation Ready Mounting Pads, Thermal Relief DTR Systems, Double Lead Stem for Quick Run Time
FEATURES	OS&Y, Rising Stem, Flexible Wedge, Bolted Bonnet, Packing & Gasket (Low Fugitive Emission) <i>*Also available in our Contractor Series 2" - 12"</i>

GENERAL DESIGN FEATURES	
Testing	598 Hydro 1
Pressure Temperature Rating	ANSI B16.34
Face-to-Face Dimensions	ANSI B16.10
End Flange Dimensions	ANSI B16.512
Visual Inspection of Castings	MSS-SP-55

<sup>1</sup> Every Warren Valve is 100% pressure tested according to 598 test requirements. MTRs are available upon request.

<sup>2</sup> Valves 26" and larger according to ANSI B16.47 Series A (MSS SP-44) and Series B

ANSI CLASS 150 - 300 - 600 - 900 - 1500



MATERIAL LIST

NO.	NAME PARTS	MATERIALS
1	BODY	ASTM A216 Gr. WCB
2	SEAT RING	ASTM A105+STL 6#
3	WEDGE	ASTM A216 Gr. WCB+13Cr (FLEXIBLE WEDGE)
4	STEM	ASTM A182 Gr.F6a
5	GASKET	GRAPHITE+304
6	NAMEPLATE	ASTM A666 Gr. 304
7	RIVET	ASTM A666 Gr. 304
8	BONNET NUT	ASTM A194 Gr. 2HM (HEAVY)
9	BONNET BOLT	ASTM A193 Gr. B7M
10	BONNET	ASTM A216 Gr. WCB
11	BACK SEAT RING	ASTM A276 Gr.410
12	PACKING	BRAIDED GRAPHITE (Cup and Cone Design)
13	PACKING	FLEXIBLE GRAPHITE (Cup and Cone Design)
14	EYE BOLT PIN	AISI 1045
15	GLAND	ASTM A276 Gr.410
16	GLAND FLANGE	ASTM A216 Gr. WCB
17	EYE BOLT NUT	ASTM A194 Gr. 2HM (HEAVY)
18	EYE BOLT	ASTM A193 Gr. B7M
19	OIL FILLER	CARBON STEEL
20	STEM NUT	ASTM A439 Gr. D-2
21	HANDWHEEL	ASTM A536 65-45-12
22	HANDWHEEL NUT	AISI 1035
23	SCREW	AISI 1035
24	RETAINING NUT	AISI 1035

**\*OTHER BODY AND TRIM MATERIALS AVAILABLE.\***

Please contact Warren Valve or your Warren Valve representative for more details.

FIGURE NUMBER 1155

SIZE	PORT	L	φG	φJ	φI	T	M	φN
2"	2.00	7.00	6.00	4.75	3.62	0.63	4	0.75
2-1/2"	2.50	7.50	7.00	5.50	4.12	0.69	4	0.75
3"	3.00	8.00	7.50	6.00	5.00	0.94	4	0.75
4"	4.00	9.00	9.00	7.50	6.18	0.94	8	0.75
5"	5.00	10.00	10.00	8.50	7.32	0.94	8	0.88
6"	6.00	10.50	11.00	9.50	8.50	1.00	8	0.88
8"	8.00	11.50	13.50	11.75	10.63	1.12	8	0.88
10"	10.00	13.00	16.00	14.25	12.75	1.19	12	1.00
12"	12.00	14.00	19.00	17.00	15.00	1.25	12	1.00
14"	13.25	15.00	21.00	18.75	16.26	1.38	12	1.14
16"	15.25	16.00	23.50	21.26	18.50	1.46	16	1.12
18"	17.25	17.00	25.00	22.75	21.00	1.56	16	1.25
20"	19.25	18.00	27.50	25.00	23.00	1.69	20	1.25
24"	23.25	20.00	32.00	29.50	27.25	1.89	20	1.38
24"	23.25	20.00	32.00	29.50	27.25	1.89	20	1.38
30"	29.25	24.00	38.75	36.00	33.75	2.95	28	1.38
36"	34.49	28.00	46.00	42.75	40.25	3.56	32	1.63

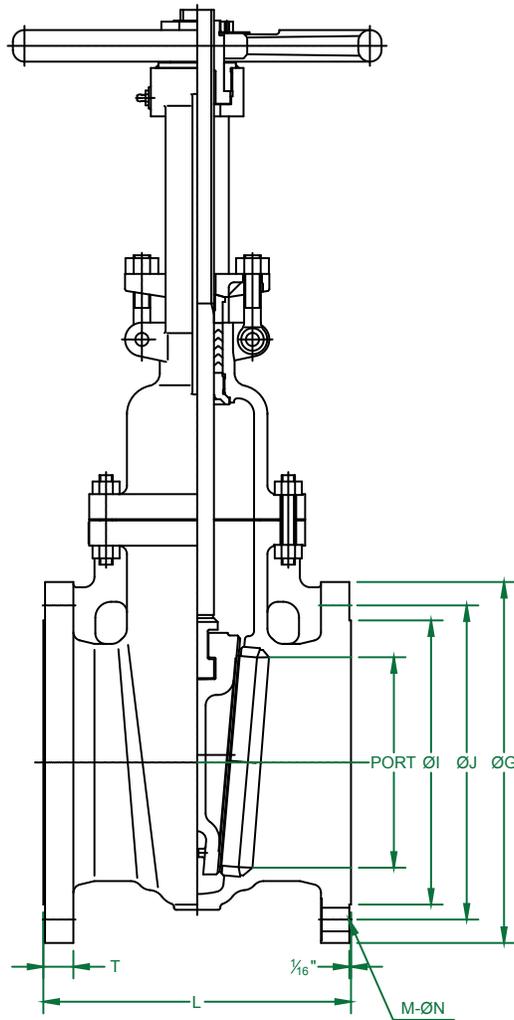


FIGURE NUMBER 1305

SIZE	PORT	L	φG	φJ	φI	T	M	φN
2"	2.00	8.50	6.50	5.00	3.62	0.89	8	0.75
2-1/2"	2.50	9.50	7.50	5.88	4.12	1.00	8	0.88
3"	3.00	11.12	8.25	6.62	5.00	1.12	8	0.88
4"	4.00	12.00	10.00	7.88	6.18	1.25	8	0.88
5"	5.00	15.00	11.00	9.25	7.31	1.38	8	0.88
6"	6.00	15.88	12.50	10.62	8.50	1.46	12	0.88
8"	8.00	16.50	15.00	13.00	10.63	1.63	12	1.00
10"	10.00	18.00	17.50	15.25	12.75	1.87	16	1.20
12"	12.00	19.75	20.50	17.75	15.00	2.01	16	1.25
14"	13.50	30.00	23.00	20.25	16.25	2.12	20	1.25
16"	15.25	33.00	25.50	22.50	18.50	2.25	20	1.38
18"	17.00	36.00	28.00	24.75	21.00	2.38	24	1.38
20"	19.00	39.00	30.50	27.00	23.00	2.50	24	1.38
24"	23.00	45.00	36.00	32.00	27.24	2.76	24	1.63
30"	29.00	55.00	43.00	39.25	33.75	3.62	28	1.87
36"	34.49	68.00	50.00	46.00	40.25	4.13	32	2.13

FIGURE NUMBER **1605**

SIZE	PORT	L	$\phi G$	$\phi J$	$\phi I$	T	M	$\phi N$
2"	2.00	11.50	6.50	5.00	3.62	1.00	8	0.75
2-1/2"	2.50	13.00	7.50	5.88	4.12	1.12	8	0.88
3"	3.00	14.00	8.25	6.62	5.00	1.26	8	0.88
4"	4.00	17.00	10.75	8.50	6.19	1.50	8	1.00
5"	5.00	20.00	13.00	10.50	7.31	1.75	8	1.12
6"	6.00	22.00	14.00	11.50	8.50	1.89	12	1.12
8"	7.87	26.00	16.50	13.75	10.62	2.20	12	1.26
10"	9.75	31.00	20.00	17.00	12.75	2.50	16	1.38
12"	11.75	33.00	22.00	19.25	15.00	2.64	20	1.38
14"	12.87	35.00	23.75	20.75	16.23	2.76	20	1.50
16"	14.75	39.00	24.02	23.75	18.50	3.00	20	1.62
18"	16.50	43.00	24.02	23.75	21.00	3.27	20	1.75
20"	18.25	47.00	24.02	28.50	23.03	3.50	24	1.75
24"	22.00	55.00	24.02	33.00	27.25	4.00	24	2.00
30"	27.37	65.00	39.37	4.25	33.75	4.50	28	2.13
36"	33.00	82.00	39.37	47.00	40.25	4.88	28	2.63

FIGURE NUMBER **1905**

SIZE	PORT	L	$\phi G$	$\phi J$	$\phi I$	T	M	$\phi N$
2"	1.87	14.50	8.50	6.50	3.62	1.50	8	1.00
3"	2.87	15.00	9.50	7.50	5.00	1.50	8	1.00
4"	3.87	18.00	11.50	9.25	6.19	1.77	8	1.25
5"	4.75	22.00	13.75	11.00	7.31	2.00	8	1.38
6"	5.75	24.00	15.00	12.50	8.50	2.20	12	1.25
8"	7.50	29.00	18.50	15.50	10.63	2.50	12	1.50
10"	9.37	33.00	21.50	18.50	12.75	2.76	16	1.50
12"	11.12	38.00	23.62	21.00	15.00	3.13	20	1.50
14"	12.25	45.50	24.02	22.00	16.26	3.39	20	1.63
16"	14.00	44.50	31.50	24.25	18.50	3.50	20	1.75
18"	15.75	48.00	31.89	27.00	21.00	4.00	20	2.00
24"	21.00	61.00	31.89	35.50	27.25	5.51	20	2.64

FIGURE NUMBER **1505**

SIZE	PORT	L	$\phi G$	$\phi J$	$\phi I$	T	M	$\phi N$
2"	1.87	14.50	8.50	6.50	3.62	1.50	8	1.00
3"	2.75	18.50	10.50	8.00	5.00	1.89	8	1.35
4"	3.62	21.50	12.25	9.50	6.19	2.13	8	1.38
6"	5.37	27.75	15.50	12.50	8.50	3.25	12	1.50
8"	7.00	32.75	19.00	15.50	10.63	3.62	12	1.75
10"	8.75	39.00	27.95	19.00	12.75	4.25	12	2.00
12"	10.37	44.50	24.02	22.50	15.00	4.88	16	2.13
14"	11.37	49.50	31.89	25.00	16.26	5.25	16	2.38
16"	13.00	54.50	31.89	27.75	18.50	5.75	16	2.62