

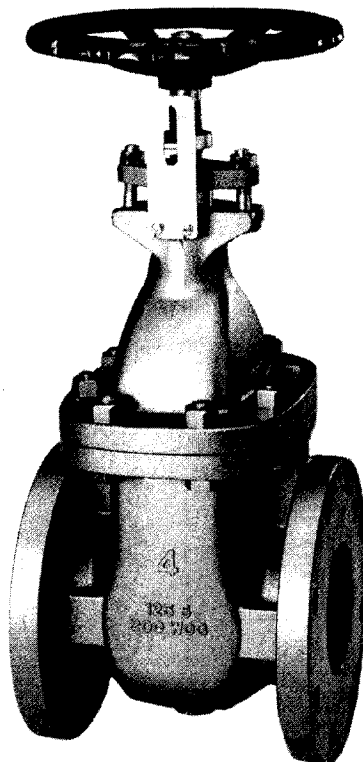
RED-WHITE



# 125-POUND CAST IRON GATE VALVES

## MSS Specification Valves

Inside screw, non-rising stem,  
bolted bonnet, solid wedge disc,  
bronze trimmed, flanged ends.



### Pressure-Temperature Ratings

Service Temperature		Sizes 2" to 12"	
°F	°C	Psig	Bar
-20 to 150	-29 to 66	200	13.7
200	93	190	13.1
225	107	180	12.4
250	121	175	12.0
275	135	170	11.7
300	149	165	11.3
325	163	155	10.6
353(5)	178	150	10.3
375	191	145	10.0
406(6)	208	140	9.6
425	218	130	8.9
450	232	125	8.6
Hydrostatic test pressure	Shell	350	24.1
	Seat	220	15.2

1. Pressure-temperature ratings extracted from ANSI B16.1-1975 apply to cast iron flanged end valves designed for primary working pressures in class 125.
2. Pressure ratings specified above are used for cast iron valves with metal-to-metal seating surfaces. Pressure temperature ratings for cast iron valves with non-metallic seat materials must be limited to reflect the physical characteristics of these materials at each temperature and may be lower, but in no case higher than values shown in the above table.
3. The temperature shown to a corresponding pressure rating shall be the metal temperature of pressure containing parts. It shall be assumed that the metal temperature will be the temperature of the contained fluid. Application of a pressure rating at a metal temperature other than that of the contained fluid is strictly limited to the responsibility of the user.
4. The pressure rating in service shall be restricted to the minimum temperature of -20°F (-29°C) as shown above.
5. 353°F (Max.) to reflect the temperature of saturated steam at 125 psig.
6. 406°F (Max.) to reflect the temperature of saturated steam at 250 psig.

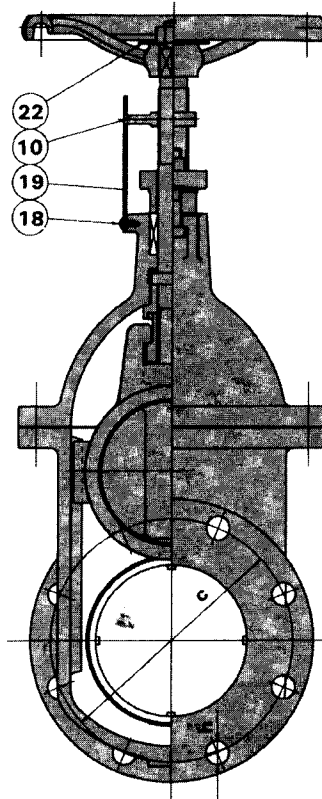
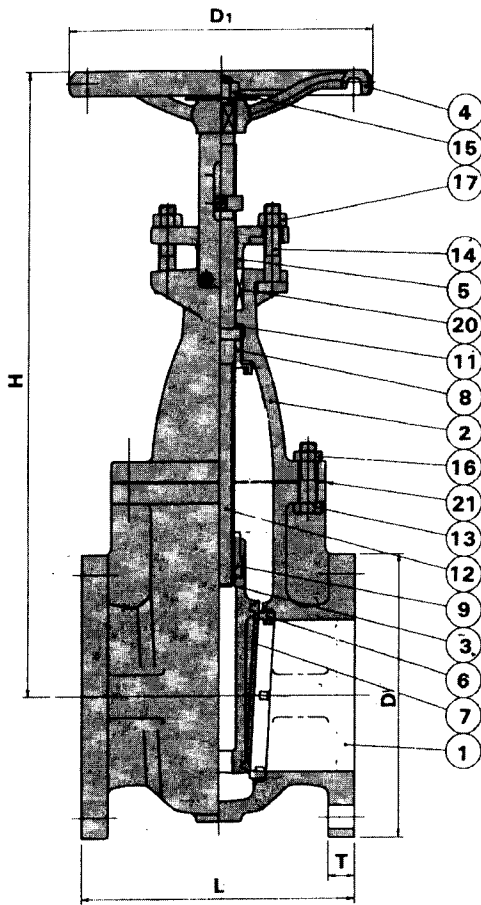
### Materials

No.	Name of parts	ASTM Specifications	
1	Body	Cast iron	A126 Class B
2	Bonnet	Cast iron	A126 Class B
3	Disc	Cast iron	A126 Class B
4	Handwheel	Ductile iron	A536 Grade 65-45-12
5	Gland	Ductile iron	A536 Grade 60-40-18
6	Body seat ring	Cast bronze	B62-C83600
7	Disc seat ring	Cast bronze	B62-C83600
8	Bonnet bush	Cast bronze	B62-C83600
9	Stem nut	Cast bronze	B62-C83600
10	Indicator	Cast bronze	B62-C83600
11	Thrust washer	Forged brass	B124-C37700
12	Stem	Forged brass	B124-C37700
13	Bonnet bolt	Steel*	A307 Grade B
14	Gland bolt	Steel*	A307 Grade B
15	Wheel nut	Steel*	A563 Grade A
16	Bonnet bolt nut	Steel*	A563 Grade A
17	Gland bolt nut	Steel*	A563 Grade A
18	Set screw	Steel*	A307 Grade B
19	Indicator plate	Aluminium plate	B209-1100
20	Gland packing	Non-asbestos packings	
21	Gasket	Non-asbestos sheet	
22	Name plate	Aluminium plate	B209-1100

\*Zinc plated

\*Design and materials are subject to change without notice.

FIG. NO. 415AE



BOLT DIA .....G  
NUMBER.....N

Marking on the body

6  
125S  
200WOG



One side

Other side

**Note:**

1. Face-to-face dimensions conform to ANSI B16.10.
2. End flange dimensions and drilling conform to ANSI B16.1. End flanges are fully flat faced and smooth finished on the joint side in accordance with MSS SP-6.
3. Disc seat rings in all sizes are pressed into discs.
4. Stem nut is bushing style in sizes 10" to 12"
5. For size 4" to 12", By-pass bosses are provided at A,B,E & F positions in accordance with MSS SP-45.
6. Valves conform to MSS SP-70.

**Dimensions**

Size	Mark	L	H	D <sub>1</sub>	Flanges					
					D	C	T	N	h	G
2	in.	7	12.6	7.1	6.00	4.75	0.62	4	0.75	0.62
	mm	178	319	180	152	121	15.9		19.0	15.9
2½	in.	7.5	13.8	7.1	7.00	5.50	0.69	4	0.75	0.62
	mm	190	350	180	178	140	17.5		19.0	15.9
3	in.	8	15.8	7.9	7.50	6.00	0.75	4	0.75	0.62
	mm	203	401	200	191	152	19.0		19.0	15.9
4	in.	9	18.0	9.8	9.00	7.50	0.94	8	0.75	0.62
	mm	229	457	250	229	191	23.8		19.0	15.9
5	in.	10	20.6	11.0	10.00	8.50	0.94	8	0.88	0.75
	mm	254	523	280	254	216	23.8		22.2	19.0
6	in.	10.5	23.7	11.8	11.00	9.50	1.00	8	0.88	0.75
	mm	267	602	300	279	241	25.4		22.2	19.0
8	in.	11.5	28.0	14.2	13.50	11.75	1.12	8	0.88	0.75
	mm	292	711	360	343	299	28.6		22.2	19.0
10	in.	13	33.1	15.7	16.00	14.25	1.19	12	1.00	0.88
	mm	330	842	400	406	362	30.2		25.4	22.2
12	in.	14	37.0	17.7	19.00	17.00	1.25	12	1.00	0.88
	mm	356	941	450	483	432	31.8		25.4	22.2

**Weight**

lb.	kg.
33	15.1
45	20.3
58	26.4
93	42.3
127	57.5
175	79.5
273	124.0
420	191.0
592	269.0