**Working pressures**

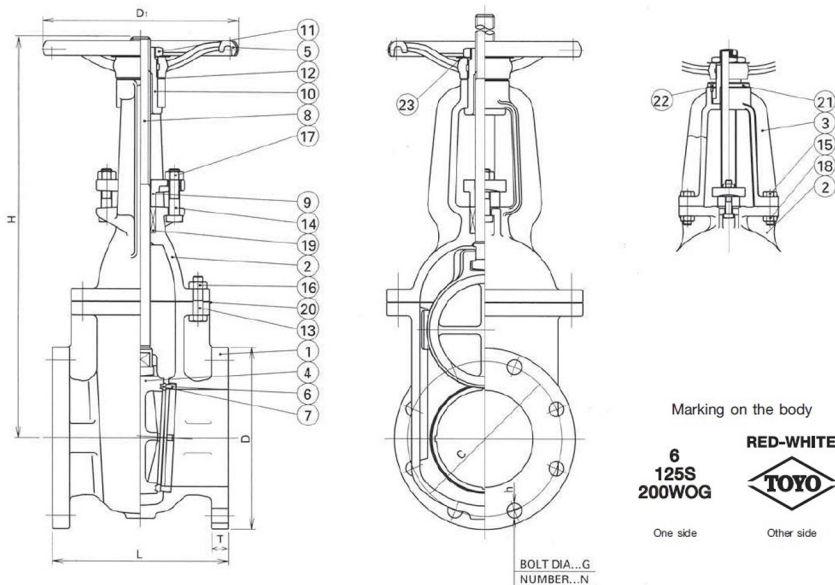
Service Temperature		Sizes 2" to 12"	
oF	oC	Psig	Bar
-20 to 150	-29 to 66	200	13.7
200	93	190	13.1
225	107	180	12.4
250	121	175	12
275	135	170	11.7
300	149	165	11.3
325	163	155	10.6
353(5)	178	150	10.3
375	191	145	10
406(6)	208	140	9.6
425	218	130	8.9
450	232	125	8.6
Hydrostatic test pressure	Shell	350	24.1
	Seat	200	15

1. Pressure-temperature ratings extracted from ASME B16. 1 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 psi. 6. 406 F (Max.) to reflect the temperature of saturated steam at 250 psi. 7. valves conform to the requirements of MSS SP-70.

Material

No.	Name of parts	ASTM Specifications
1	Body	Cast iron A126 Class B
2	Bonnet	Cast iron A126 Class B
3	Yoke	Cast iron A126 Class B
4	Disc	Cast iron A126 Class B
5	Handwheel	Ductile iron A536 Grade 60-40-18
6	Body seat ring	Cast bronze B62-C83600
7	Disc seat ring	Cast bronze B62-C83600
8	Stem	Forged brass B124-C37700
9	Gland	Ductile iron A536 Grade 60-40-18
10	Yoke sleeve	Cast brnze B62-C83600
11	Wheel nut	Steel* A36
12	Washer	brass plate B62-C83600
13	Bonnet bolt	Steel* A307 Grade B
14	Gland bolt	Steel* A307 Grade B
15	Yoke bnnet blt nut	Steel* A307 Grade B
16	Bonnet bolt nut	Steel* A563 Grade A
17	Gland boit nut	Steel* A563 Grade A
18	Yoke bonnet boit nut	Steel* A563 Grade A
19	Gland packing	Non-asbestos packings
20	Gasket	Non-asbestos sheet
21	Sleeve nut	Cast iron A126 Class B
22	Knock pin	Steel* A36
23	Name plated	Aluminum plate A209-1100

Fig.No. 421AE 125-POUND CAST IRON GATE VALVES



Note: 1. Face-to-face dimensions conform to ASME B 16. 10. 2. End flange dimensions and drillings conform to ASME B 16.1 End flanges are fully flat faced and smoothly finished in accordance with MSS SP-6. 3. Disc seat rings in all sizes are pressed into disc. 4. Body seat rings in all sizes are screwed into bodies. 5. Bodies are reinforced with a lateral rib in sizes 10" to 12" 6. Drain boss is provided in all sizes and by-pass bosses are provided in sizes 4" to 12" -inch valves at A, B, E & F positions in accordance with MSS SP-45. 7. Valves conform to MSS SP-70.

Size	Mark	L	H	D1	Flanges D	C	T	N	h	G
2	in.	7	14.1	7.1	6.00	4.75	0.62	4	0.75	0.62
	mm	178	357	180	152	121	15.9	4	19.0	15.9
2.5	in.	7.5	16.2	7.1	7.00	5.50	0.69	4	0.75	0.62
	mm	190	412	180	178	140	17.5	4	19.0	15.9
3	in.	8	19	7.9	7.50	6.00	0.75	4	0.75	0.62
	mm	203	482	200	191	152	19.0	4	19.0	15.9
4	in.	9	22.4	9.8	9.00	7.50	0.94	8	0.75	0.62
	mm	229	569	250	229	191	23.8	8	19.0	15.9
5	in.	10	26.5	11	10.00	8.50	0.94	8	0.88	0.75
	mm	254	672	280	254	216	23.8	8	22.2	19.0
6	in.	10.5	30.8	11.8	11.00	9.50	1.00	8	0.88	0.75
	mm	267	783	300	279	241	25.4	8	22.2	19.0
8	in.	11.5	38.8	14.0	13.50	11.75	1.12	8	0.88	0.75
	mm	292	985	355	343	299	28.6	8	22.2	19.0
10	in.	13	47.1	15.7	16.00	14.25	1.19	12	1.00	0.88
	mm	330	1196	400	406	392	30.2	12	25.4	22.2
12	in.	14	54.8	17.7	19.00	17.00	1.25	12	1.00	0.88
	mm	356	1390	450	483	432	31.8	12	25.4	22.2

Weight

lb.	kg.
34	15.6
46	20.8
59	27.0
98	44.3
432	60.2
182	82.7
290	132.0
438	199.0
561	254.0