

# CAST STEEL GATE VALVE

**CLASS 150 MODEL NO. FH 411-CT 150**

## DESIGN DESCRIPTION

- Outside Screw and Yoke
- Bolted Bonnet
- Flexible Wedge, Fully Guided
- Renewable Seat Rings
- Rising Stem and Non-Rising Handwheel
- Available with Gear Operator
- Flanged Ends
- Buttwelding Ends

## APPLICABLE STANDARDS

- Gate Valves, API 600
- Steel Valves, ANSI B16.34
- Face to Face, ANSI B16.10
- End Flanges, ANSI B16.5
- Buttwelding Ends, ANSI B16.25
- Inspection and Test, API 598

## TEST PRESSURE TO API 598

Shell Test (Water)	Seat Test (Water)	Seat Test (Air)
450 (32 kg/cm <sup>2</sup> )	314 (22 kg/cm <sup>2</sup> )	80 (6 kg/cm <sup>2</sup> )

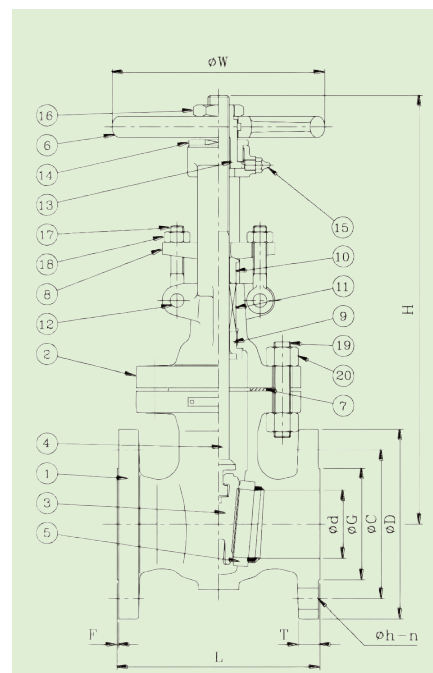
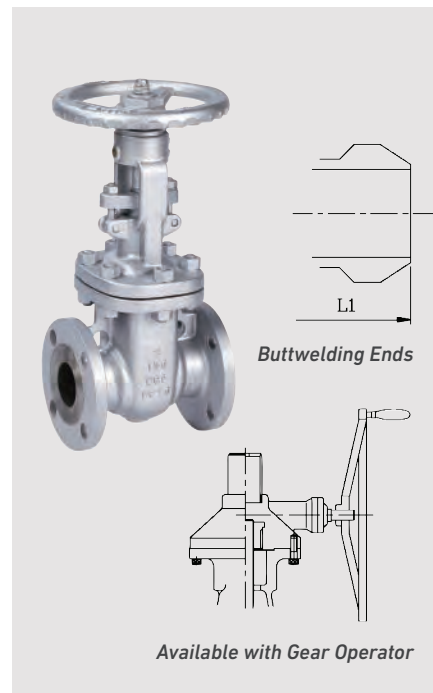
## PARTS AND MATERIALS

No	Parts	Materials		
		WCB	WC6	LCB
1	Body	A216-WCB	A217-WC6	A352-LCB
2	Bonnet	A216-WCB	A217-WC6	A352-LCB
3	Disc	A216-WCB+H/F 410	A217-WC6+H/F 410	A352-LCB+H/F 410
4	Stem		A182-F6a	
5	Seat	A105+ H/F STL#6	A182-F11+H/F STL#6	A350-LF2+H/F STL#6
6	Hand Wheel		A536	
7	Gasket		Grafoil+316 Sheet	
8	Gland flange		A216-WCB	
9	Bonnet Bush		A276-410	
10	Gland		A276-410	
11	Gland packing		Graphite	
12	Eye Bolt Pin		A276-410	
13	Stem Nut		A439-D2	
14	Retainer Nut		A36	
15	Nipple		Brass	
16	Wheel Nut		A36	
17	Eye Bolt		A307 B	
18	Eye Bolt Nut		A194-2H	
19	Bonnet Bolt	A193-B7	A193-B7	A193-B7M
20	Bonnet Bolt Nut	A194-2H	A194-2H	A194-2HM
21	Name Plate		A666-304	

## DIMENSION

DN	NPS	Ø d	L	L1	H	H (Open)	Ø W	T	F	Ø D	Ø C	Ø G	Ø h	n	Wt (kg)
50	2	50.8	178	216	343	406	200	15.8	1.6	152.4	120.7	92.0	19.0	4	20
65	2½	63.5	191	241	413	492	250	17.5	1.6	177.8	139.7	104.7	19.0	4	29
80	3	76.2	203	282	442	530	250	19.1	1.6	190.5	152.4	127.0	19.0	4	32
100	4	101.6	229	305	496	612	300	23.9	1.6	228.6	190.5	157.2	19.0	8	51
150	6	152.4	267	403	640	802	350	25.4	1.6	279.4	241.3	215.9	22.3	8	86
200	8	203.2	292	419	780	998	350	28.5	1.6	342.9	298.5	269.8	22.3	8	130
250	10	254.0	330	457	964	1228	400	30.3	1.6	406.4	362.0	323.9	25.4	12	216
300	12	304.8	356	502	1134	1450	450	31.8	1.6	482.6	431.8	381.0	25.4	12	312
350	14	336.6	381	572	1384	1745	500	35.1	1.6	533.4	476.3	412.8	28.5	12	445
400	16	387.4	406	610	1602	2020	600	36.6	1.6	596.9	539.8	469.9	28.5	16	540
450	18	438.2	432	660	1715	2183	700	39.7	1.6	635.0	577.9	533.4	31.8	16	700
500	20	489.0	458	711	1974	2488	800	43.0	1.6	698.5	635.0	584.2	31.8	20	900
600	24	590.6	508	813	2248	2872	900	47.8	1.6	812.8	749.3	692.2	35.0	20	1120

**FH-411-CT-150-R0** [Disclaimer] The information, specifications and technical data contained in this catalogue are subjected to change without prior notice. User should verify all technical data and specifications prior to use. The manufacturer does not warrant that the information in this catalogue is current or correct and assumes no responsibility for the use or misuse of any such material and information by the user.



Other materials are available upon request.

# CAST STAINLESS STEEL GATE VALVE

**CLASS 150 MODEL NO. FH 411-CTS 150**

## DESIGN DESCRIPTION

- Outside Screw and Yoke
- Bolted Bonnet
- Flexible Wedge, Fully Guided
- Integral Seats
- Rising Stem and Non-Rising Handwheel
- Available with Gear Operator
- Flanged Ends
- Buttwelding Ends

## APPLICABLE STANDARDS

- Gate Valves, API 603
- Steel Valves, ANSI B16.34
- Face to Face, ANSI B16.10
- End Flanges, ANSI B16.5
- Buttwelding Ends, ANSI B16.25
- Inspection and Test, API 598

## TEST PRESSURE TO API 598

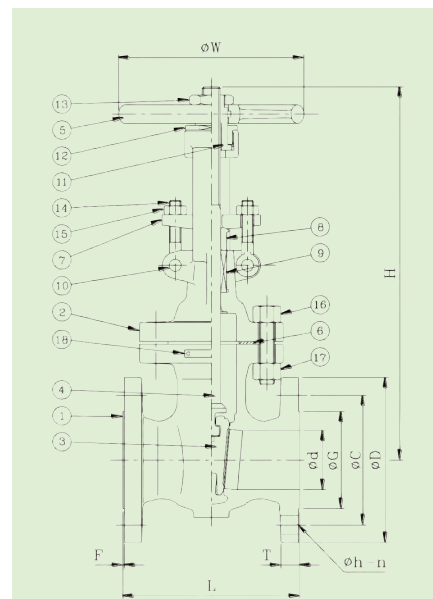
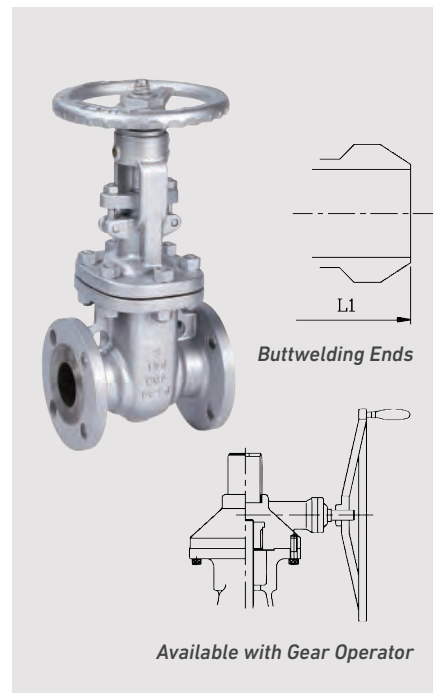
Shell Test (Water)	Seat Test (Water)	Seat Test (Air)
450 (32 kg/cm <sup>2</sup> )	314 (22 kg/cm <sup>2</sup> )	80 (6 kg/cm <sup>2</sup> )

## PARTS AND MATERIALS

No	Parts	Materials		
		CF8	CF8M	CF3M
1	Body	A351-CF8	A351-CF8M	A351-CF3M
2	Bonnet	A351-CF8	A351-CF8M	A351-CF3M
3	Disc	A351-CF8	A351-CF8M	A351-CF3M
4	Stem	A182-F304	A182-F316	A182-F316L
5	Hand Wheel	A536		
6	Gasket	PTFE / Grafoil+316 Sheet		
7	Gland flange	A351-CF8		
8	Gland	A351-CF8M		
9	Gland packing	PTFE / Graphite		
10	Eye Bolt Pin	A276-304		
11	Stem Nut	A439-D2 / Bronze		
12	Retainer Nut	A351-CF8		
13	Wheel Nut	A351-CF8 / B16		
14	Eye Bolt	A193-B8		
15	Eye Bolt Nut	A194-8		
16	Bonnet Bolt	A193-B8		
17	Bonnet Bolt Nut	A194-8		
18	Name Plate	A666-304		

## DIMENSION

DN	NPS	Ø d	L	L1	H	H (Open)	Ø W	T	F	Ø D	Ø C	Ø G	Ø h	n	Wt (kg)
15	½	12.7	108	108	184	202	100	10.0	1.6	88.9	60.5	35.1	16.0	4	4.5
20	¾	19.0	117	117	195	220	100	10.5	1.6	98.6	69.9	43.0	16.0	4	6
25	1	25.4	127	127	208	238	150	11.2	1.6	108.0	79.2	50.8	16.0	4	7.5
40	1½	38.1	165	165	236	286	150	14.3	1.6	127.0	98.6	73.2	16.0	4	11
50	2	50.8	178	216	278	338	150	15.8	1.6	152.4	120.7	92.0	19.0	4	13
65	2½	63.5	191	241	322	398	200	17.5	1.6	177.8	139.7	104.7	19.0	4	19
80	3	76.2	203	282	366	455	200	19.1	1.6	190.5	152.4	127.0	19.0	4	25
100	4	101.6	229	305	430	545	300	23.9	1.6	228.6	190.5	157.2	19.0	8	38
150	6	152.4	267	403	572	740	300	25.4	1.6	279.4	241.3	215.9	22.3	8	63
200	8	203.2	292	419	727	943	350	28.5	1.6	342.9	298.5	269.8	22.3	8	112
250	10	254.0	330	457	873	1145	350	30.3	1.6	406.4	362.0	323.9	25.4	12	168
300	12	304.8	356	502	1025	1348	400	31.8	1.6	482.6	431.8	381.0	25.4	12	288
350	14	336.6	381	572	1138	1482	450	35.1	1.6	533.4	476.3	412.8	28.5	12	362
400	16	387.4	406	610	1279	1869	500	36.6	1.6	596.9	539.8	469.9	28.5	16	516
450	18	438.2	432	660	1492	1964	550	39.7	1.6	635.0	577.9	533.4	31.8	16	626
500	20	489.0	458	711	1612	2129	600	43.0	1.6	698.5	635.0	584.2	31.8	20	838
600	24	590.6	508	813	1936	2565	700	47.8	1.6	812.8	749.3	692.2	35.0	20	1120



Other materials are available upon request.