

DN 50 (2") ÷ DN 900 (32")
Class 150 ÷ Class 1500

Gate Valves (ANSI)

Design

- Casted body and bonnet
- Bolted bonnet (BB)
- Rising stem (RS), outside screw and yoke (OS&Y)
- Wedge may be one-piece flexible, solid or split wedge type

Applications

- Power plant, Chemical, Petrochemical, Refining

Media

- Depending on the valve materials: water, steam, gas, oil and oil derivatives and other non aggressive media

Advantages

- Long service life
- Respect to emission standards
- Easy handling and maintenance
- Stem packing replacement in working conditions

Materials

- Carbon, heat resistant alloy and stainless steels

Pressure and temperature

- Class 150 ÷ Class 1500
- Temperature up to 600

Options

- Electric, hydraulic or pneumatic actuator
- Position indicator
- Extended stem
- Locking device
- Non rising stem and solid wedge
- Hole in the wedge (overpressure safety design)
- Spring loaded stuffing box
- With equalizing pipe
- With bypass Valve
- With equalizing pipe and bypass valves
- Flanges and welding ends according to: EN, DIN, GOST, etc.
- Other paint finishes are available upon customer's request
- Gate valve complete with counter flanges, bolting and gaskets.

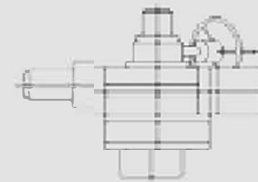
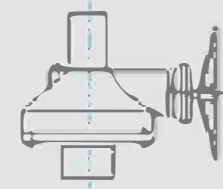
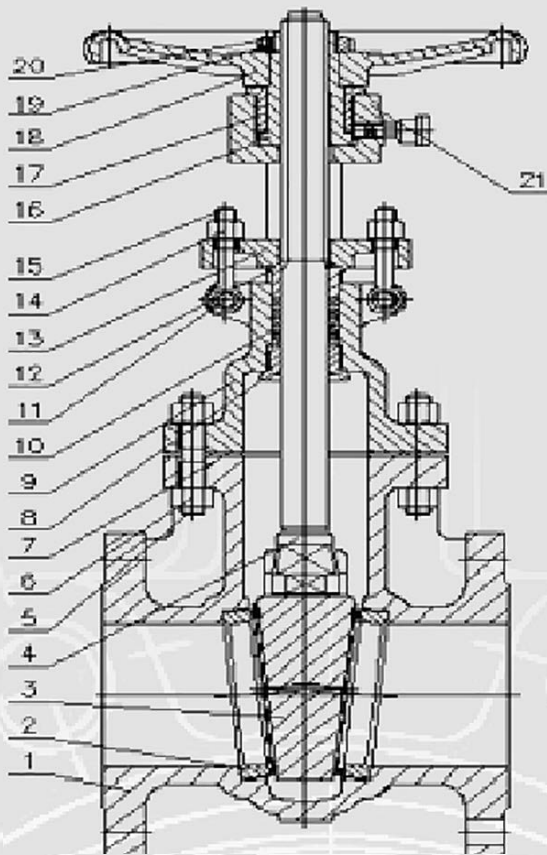
Testing

- Every produced valve was tested according to API598

Gate valve according to API 600	Class 150 ÷ Class 1500
Face-to-face (FTF) and End-to-end (ETE) dimensions acc. to	ASME B16.10
Flanged ends according to	ASME B16.5
Welding ends according to	ASME B16.25

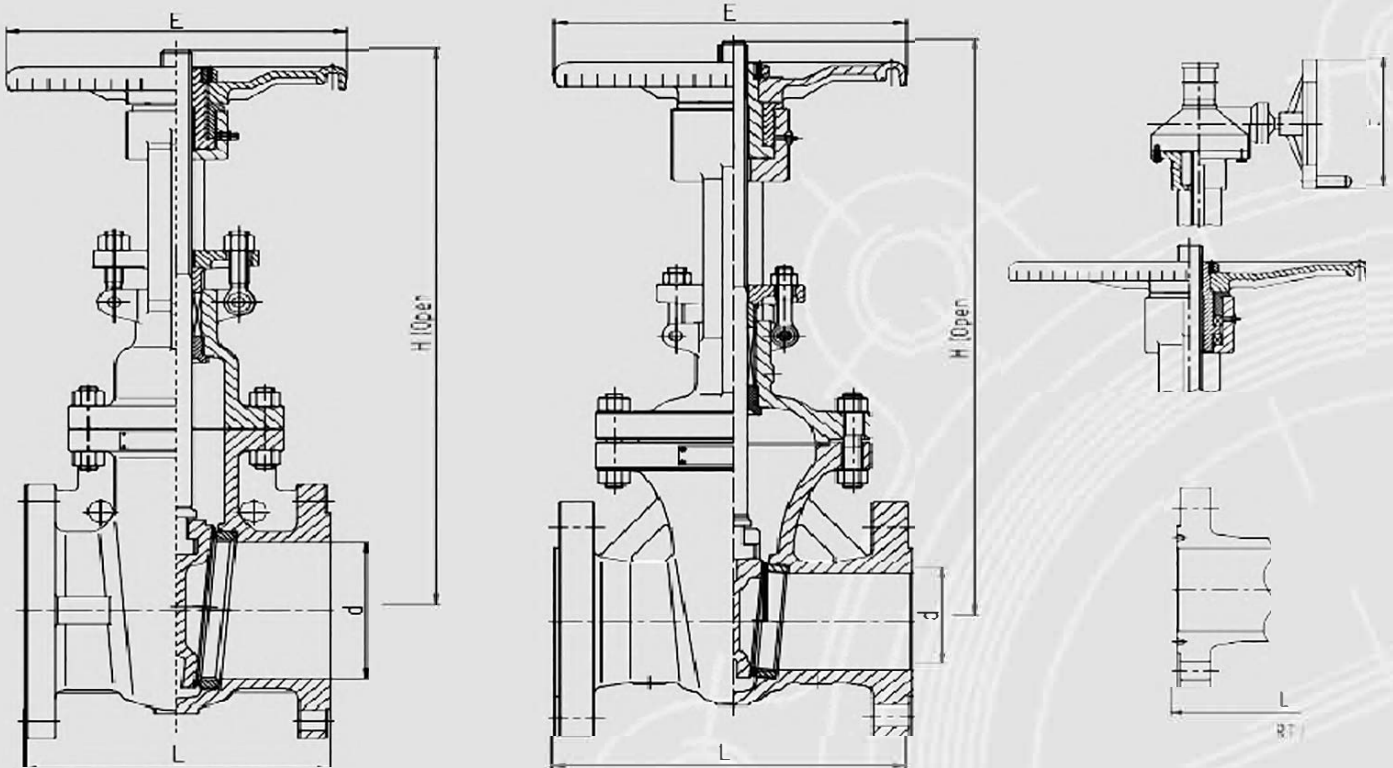


Gate Valves (ANSI)



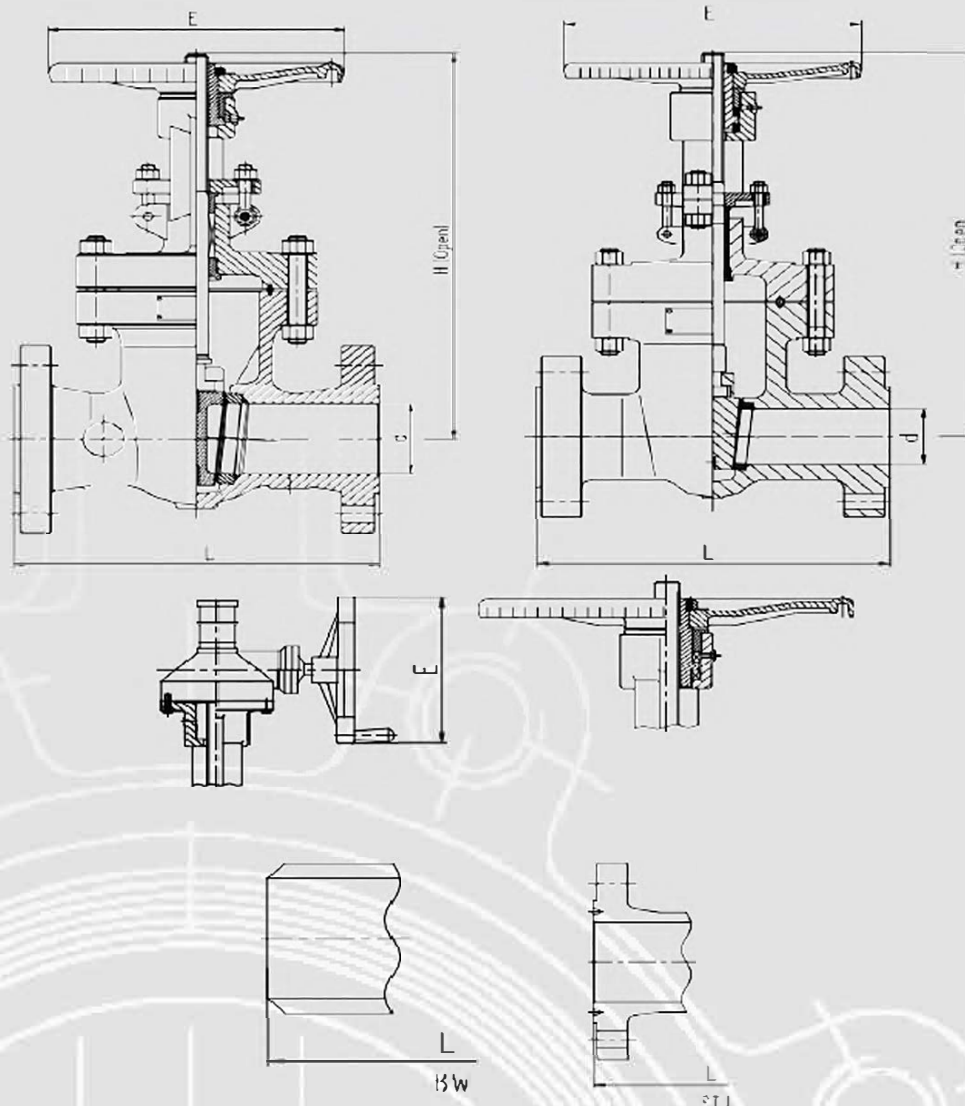
NO. Parts		Materials Standard	Low Temperature		High Temperature		
1	Body	A216 WCB	A352 LCB	A352 LC2	A217 WC6	A217 WC9	A217 C5
2	Seat	A105	A182 F304	A182 F304	A182 F11	A182 F22	A182 F5a
3	Wedge Gate	A216 WCB	A352 LCB	A352 LC2	A217 WC6	A217 WC6	A217 C5
4	Stem	A276 410	A276 304	A276 304	A276 410	A276 410	A276 410
5	Bonnet Bolt	A193 B7	A320 L7	A320 L7	A193 B16	A193 B16	A193 B16
6	Bonnet Nut	A1942H	A194 4	A194 4	A194 4	A194 4	A194 4
7	Gasket	Graphite+304	Graphite+304	Graphite+304	Graphite+304	Graphite+304	Graphite+304
8	Backseat	A276 410	A276 304	A276 304	A276 410	A276 410	A276 410
9	Bonnet	A216 WCB	A352 LCB	A352 LC2	A217 WC6	A217 WC9	A217 C5
10	Packing	Graphite+304	Graphite+304	Graphite+304	Graphite+304	Graphite+304	Graphite+304
11	Eyebolt Pin	ASTM A29	ASTM A29	ASTM A29	ASTM A29	ASTM A29	ASTM A29
12	Gland	A276 410	A276 304	A276 304	A276 410	A276 410	A276 410
13	Cland Flange	CS	CS	CS	CS	CS	CS
14	Cland Nut	A1942H	A194 4	A194 4	A194 4	A194 4	A194 4
15	Gland Bolt	A193 B7	A320 L7	A320 L7	A193 B16	A193 B16	A193 B16
16	Stem Nut	Bronze / A439 D2	Bronze / A439 D2	Bronze / A439 D2	Bronze / A439 D2	Bronze / A439 D2	Bronze / A439 D2
17	Stem Nut Retainer	ASTM A29	ASTM A29	ASTM A29	ASTM A29	ASTM A29	ASTM A29
18	Handwheel	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron
19	Set Screw	CS	CS	CS	CS	CS	CS
20	Handwheel Nut	ASTM A29	ASTM A29	ASTM A29	ASTM A29	ASTM A29	ASTM A29
21	Yoke	A216 WCB	A352 LCB	A352 LC2	A217 WC6	A217 WC9	A217 C5
22	Bearing	Assembly	Assembly	Assembly	Assembly	Assembly	Assembly

Gate Valves (ANSI)



Class		150																
NPS(in)		2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24	28	30	36
Dimensions(mm)	d	51	64	76	102	127	152	203	254	305	337	387	438	489	591	686	737	876
	L RF	178	190	203	229	254	267	292	330	356	381	406	432	457	508	610	610	711
	BW	216	241	283	305	381	403	419	457	502	572	610	660	711	813	914	914	1016
	RTJ	191	203	216	241	267	279	305	343	368	394	419	445	470	521	—	—	—
	H	387	435	481	585	681	765	956	1149	1351	1508	1703	1892	2119	2500	2960	3148	3721
Weights(kg)	E	200	200	250	280	280	300	350	400	450	500	550	600	600	650	610	610	610
	RF	18	25	32	50	64	77	121	178	265	362	463	621	792	1190	1838	2261	3310
	BW	15	18	26	41	58	69	108	156	248	330	424	587	752	1144	1900	3310	3380
Class		300																
NPS(in)		2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24	26	28	30
Dimensions(mm)	d	51	64	76	102	127	152	203	254	305	337	387	438	489	591	635	686	737
	L RF	178	190	203	229	254	267	292	330	356	381	406	432	457	508	610	610	711
	BW	216	241	283	305	381	403	419	457	502	572	610	660	711	813	914	914	1016
	RTJ	191	203	216	241	267	279	305	343	368	394	419	445	470	521	—	—	—
	H	387	435	481	585	681	765	956	1149	1351	1508	1703	1892	2119	2500	2960	3148	3721
Weights(kg)	E	200	200	250	280	280	300	350	400	450	500	550	600	600	650	610	610	610
	RF	23	35	50	71	100	144	209	322	482	683	950	1145	1634	2660	3090	3312	3597
	BW	17	26	39	53	79	113	164	256	390	565	805	964	1412	2304	2540	2725	3057

Gate Valves (ANSI)



Class NPS(in)		600													
		2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
Dimensions(mm)	d	51	64	76	102	127	152	203	254	305	337	387	438	489	591
	L RF	292	330	356	432	508	559	660	787	838	889	991	1092	1194	1397
	BW/RTJ	295	333	359	435	511	562	663	790	841	892	994	1095	1200	1407
	H	418	476	518	646	770	839	1024	1229	1450	1574	1797	1931	2207	2582
	E	200	250	280	300	400	450	500	600	650	610	610	610	610	610
Weights(kg)		RF	36	52	67	112	170	234	393	610	890	1245	1530	1967	2450
		BW	29	42	53	83	125	177	310	472	729	1054	1242	1626	2032
Class NPS(in)		900							1500						
		2	2 1/2	3	4	6	8	10	2	2 1/2	3	4	6	8	10
Dimensions(mm)	d	51	64	76	102	152	203	254	51	64	76	102	146	194	241
	L RF	368	419	381	457	610	737	838	368	419	470	546	705	832	991
	BW/RTJ	371	422	384	460	613	740	841	371	422	473	549	711	842	1000
	H	498	547	573	678	900	1103	1345	487	572	603	700	984	1146	1371
	E	280	300	300	350	550	600	610	280	300	350	400	550	460	460
Weights(kg)		RF	74	131	101	172	335	640	74	131	165	248	510	921	1910
		BW	54	105	78	135	260	517	54	105	129	197	412	761	1640