



Design

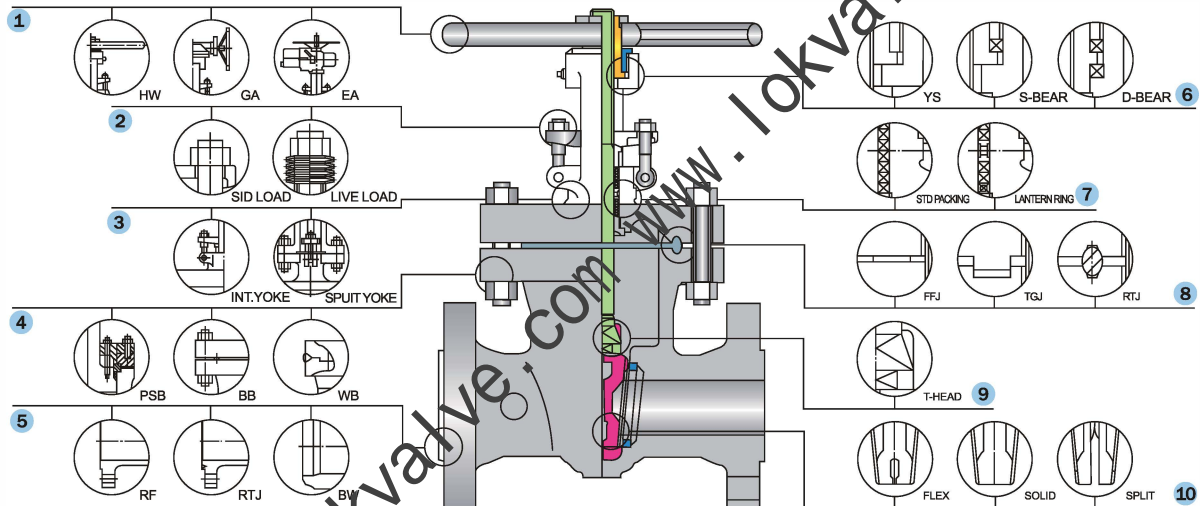
Cast steel gate valve are designed and manufactured to provide maximum service life and dependability. All gate valves are full ported and meet the design requirements of American petroleum Institute Standard API 600 & API 6D, British Standard BS 1414 & BS EN 1984 and generally conform to American Society of Mechanical Engineers Standard ASME B 16.34. Valves are available in a complete range of body/bonnet materials and trims.

Range of Materials

Standard body/bonnet materials include nine grades of carbon, low alloy and stainless steels. For special applications they can be supplied in other grades of alloy and stainless steel. There's a full range of trim materials to match any service. Optional packing and gasket materials are available for a full range of service conditions.

Available Modifications For Cast Steel Valves

- * Trim changes
- * End connection Modifications
- * Packing and Gasket Changes
- * Operator Mounting
- * Handwheel Extensions
- * Pressure Equalizing
- * By-pass
- * Customer specified Coatings
- * Weld End Bore Changes
- * Oxygen & Chlorine Cleaning & Packaging



1 Operating

Large hand wheels for easy operation. Also available with gearing, motor actuators, pneumatic or hydraulic actuators for more difficult services.

3 OS & Y

Outside Screw and Yoke. Cast steel gate valve yoke. Integral with bonnet for 150lb-8", 300lb-8", 600lb-6", 900lb-4" & Small.

5 End Connections

A choice of Flanged, RTJ flanged or Butt welding end for piping flexibility

7 Lantern Ring and Double Packing set

Lantern ring with leak-off fitting connection and double packing stack is optionally available for critical services.

9 Stem

All wedge gate valves are provided with upset forged T-head stems. By forging the T-head, the stem at the stem-wedge connection is strengthened. This design also allows the wedge to self-align, eliminating the possibility of a bent stem jamming the wedge.

2 Live Load Packing 4 BB

In services requiring frequent cycling or with high pressure/temperature variations, live loading extends the service life between maintenance periods by requiring less frequent packing gland adjustments. Belleville springs are employed to provide constant packing gland stress.

Bolted bonnet. Welding bonnet and pressure seal bonnet in services requiring frequent cycling or with high pressure/temperature variations.

6 Yoke Sleeve

Extra long thread engagement between yoke sleeve and stem provide long thread life. Valves of sizes larger than 150lb-12", 300lb-10", 600lb-6", 900lb/1500lb/2500lb-4" are regularly provided with roll bearing yokes.

8 Body-to-Bonnet Joint 10 Wedge

A flat face gasket joint is used in the 150lb valves. A male and female joint is used in 300lb to 600lb valves. Ring joint is used in the body to bonnet connection in 900lb & higher rated valves.

Integral guide rib faces assure self-centering of wedge. Flexible wedge gate valve has a one-piece, twin-disc wedge, which is designed so that each half flexes independently. Available in solid, flex split and HIS designs.

CAST STEEL GATE VALVE

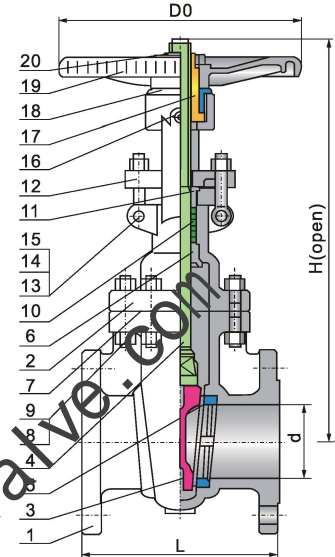
150lb

Applicable standards:

STEEL GATE VALVES, API 600/API 6D
 STEEL GATE VALVES, ISO 10434/ISO 14313
 STEEL VALVES, ASME B 16.34
 FACE TO FACE, ASME B 16.10
 END FLANGES, ASME B 16.5
 BUTTWELDING ENDS, ASME B 16.25
 INSPECTION AND TEST, API 598/API 6D

Design description:

FULL PORT DESIGN
 OS & Y, OUTSIDE SCREW AND YOKE
 BB, BOLTED BONNET
 FLEXIBLE WEDGE, FULLY GUIDED
 CHOICE OF SOLID OR SPLIT WEDGE
 RENEWABLE SEAT RINGS
 FORGED T-HEAD STEM
 RISING STEM AND NON-RISING HANDWHEEL
 FLANGED OR BUTTWELDING ENDS
 AVAILABLE WITH BG OPERATOR

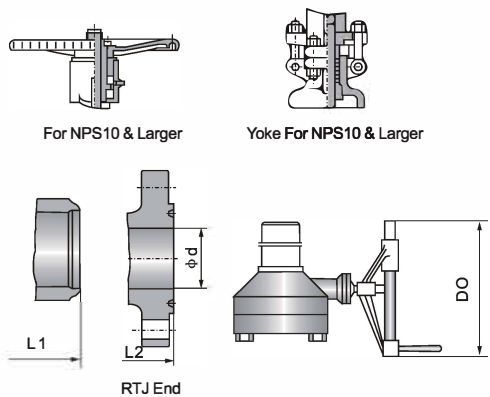


Materials of parts

No	Part Name	ASTM Material		
		Carbon Steel	1 1/4Cr-1/2Mo	Carbon Steel
1	Body	A216-WCB	A217-WC6	A352-LCB
2	Bonnet	A216-WCB	A217-WC6	A352-LCB
3	Wedge	A216-WCB+CR13	A217-WC6+HF	A352-LCB+CR13
4	Stem	A182-F6a	CR-MO-V	A182-F6a
5	Seat Ring	A105+CR13	A182-F11+HF	A350-LF2+CR13
6	Stem Back Seat	A276-420	A276-304	A276-420
7	Bonnet Gasket	Spiral Wound (Graphite+304)		
8	Bonnet Stud	A193-B7	A193-B16	A320-L7
9	Bonnet Stud Nut	A194-2H	A194-7	A194-4
10	Packing	Graphite		
11	Gland	A276-420	A276-304	A276-420
12	Gland Flange	A216-WCB	A217-WC6	A352-LCB
13	Eyebolt Pin	Carbon Steel	A276-304	Carbon Steel
14	Eyebolt	Carbon Steel	A193-B7	Carbon Steel
15	Eyebolt Nut	Carbon Steel	A194-2H	Carbon Steel
16	Grease Fitting	Brass+Steel		
17	Yokesleeve	Aluminum-Bronze ¹⁾		
18	Yokesleeve Jam Nut	Carbon Steel		
19	Handwheel	Malleable Iron		
20	Handwheel Nut	Carbon Steel		

Note: 1). Ductile Ni-Resist optional

2). Wedge and seat ring may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.



Dimensions data

NPS	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	26	28	30	32	36	40	42	48	in
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750	800	900	1000	1050	1200	mm

ANSI Class 150Lb

L (RF)	7.00	7.50	8.00	9.00	10.50	11.50	13.00	14.00	15.00	16.00	17.00	18.00	20.00	22.00	24.00	24.00	28.00	28.00	32.00	32.00	42.00	in
	178	191	203	229	267	292	330	356	381	406	432	457	508	559	610	610	711	711	813	813	1067	mm
L1 (BW)	8.5	9.50	11.12	12.00	15.88	16.50	18.00	19.75	22.50	24.00	26.00	28.00	32.00	34.00	36.00	36.00	38.00	40.00	42.00	45.00	53.97	in
	216	241	283	305	403	419	457	502	572	610	660	711	813	864	914	914	965	1016	1067	1143	1371	mm
L2 (RTJ)	7.48	7.99	8.50	9.48	10.98	12.00	13.50	14.48	15.51	16.49	17.51	18.50	20.51	-	-	24.48	-	28.50	-	-	-	in
	190	203	216	241	279	305	343	368	394	419	445	470	521	-	-	622	-	724	-	-	-	mm
H (OPEN)	15.25	17.00	18.88	23.00	30.50	37.62	45.50	53.12	59.38	67.00	74.50	83.50	98.25	110.50	116.50	124.00	129.00	146.50	130.00	136.96	161.70	in
	386	434	480	584	765	956	1149	1350	1508	1703	1892	2119	2500	2806	2960	3150	3280	3720	3302	3479	3962	mm
(d)	50	63	76	100	150	200	250	300	336	387	438	488	590	641	692	743	781	876	-	-	-	mm
D0	8	8	10	12	12	14	16	18	20	22	24	26	29	29	32	32	38	40	40.15	40.15	40.15	in
	200	200	250	300	300	350	400	450	500	550	600	640	720	720	800	800	950	1000	1020	1020	1020	mm
WT (kg)	18	25	32	50	77	121	178	265	363	463	621	792	1190	1521	1838	2261	2490	3310	4650	5100	6500	RF
	15	18	26	41	69	108	156	248	330	424	587	752	1144	1570	1900	3310	2540	3380	-	-	-	BW
Toqure	13	13	15	27	36	63	84	131	151	235	285	341	602	-	-	1079	-	1497	-	-	-	mm

CAST STEEL GATE VALVE

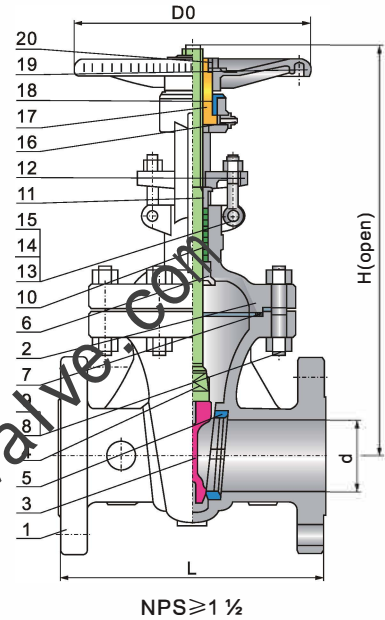
300Lb

Applicable standards:

STEEL GATE VALVES, API 600/API 6D
 STEEL GATE VALVES, ISO 10434/ISO 14313
 STEEL VALVES, ASME B 16.34
 FACE TO FACE, ASME B 16.10
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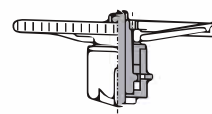


Materials of parts

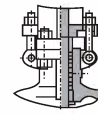
No	Part Name	ASTM Material		
		Carbon Steel	1 1/4Cr-1/2Mo	Carbon Steel
1	Body	A216-WCB	A217-WC6	A352-LCB
2	Bonnet	A216-WCB	A217-WC6	A352-LCB
3	Wedge	A216-WCB+CR13	A217-WC6+HF	A352-LCB+GM3
4	Stem	A182-F6a	CR-MO-V	A182-F6a
5	Seat Ring	A105+CR13	A182-F11+HF	A350-LF2+CR13
6	Stem Back Seat	A276-420	A276-304	A276-420
7	Bonnet Gasket	Spiral Wound (Graphite+304)		
8	Bonnet Stud	A193-B7	A193-B16	A320-L7
9	Bonnet Stud Nut	A194-2H	A194-7	A194-4
10	Packing	Graphite		
11	Gland	A276-420	A276-304	A276-420
12	Gland Flange	A216-WCB	A217-WC6	A352-LCB
13	Eyebolt Pin	Carbon Steel	A276-420	Carbon Steel
14	Eyebolt	Carbon Steel	A193-B7	Carbon Steel
15	Eyebolt Nut	Carbon Steel	A194-2H	Carbon Steel
16	Grease Fitting	Brass+Steel		
17	Yokesleeve	Aluminum-Bronze ¹⁾		
18	Yokesleeve Jam Nut	Carbon Steel		
19	Handwheel	Malleable Iron		
20	Handwheel Nut	Carbon Steel		

Note: 1) Ductile Ni-Resist optional

2) Wedge and seat ring may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.



For NPS10 & Larger



Yoke For NPS10 & Larger



RTJ End

Dimensions data

NPS	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	26	28	30	32	36	40	42	48	in
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750	800	900	1000	1050	1200	mm

ANSI Class 300Lb

L/L1 (RF/BW)	8.50	9.50	11.12	12.00	15.88	16.50	18.00	19.75	30.00	33.00	36.00	39.00	45.00	49.00	53.00	55.00	60.00	68.00	76.96	80.00	90.00	in
	216	241	283	305	403	419	457	502	762	838	914	991	1143	1245	1346	1397	1524	1727	1955	2032	2286	mm
L2 (RTJ)	9.12	10.12	11.75	12.62	16.50	17.12	18.62	20.38	30.62	33.62	36.62	39.75	45.88	50.00	54.00	56.00	61.12	69.12	-	-	-	in
	232	257	298	321	419	435	473	518	778	854	930	1010	1165	1270	1372	1422	1553	1756	-	-	-	mm
H (OPEN)	16.12	17.88	20.00	24.00	31.75	59.38	47.62	55.75	62.25	67.88	77.12	86.38	102.00	117.00	122.00	126.00	130.00	152.00	146.18	154.17	177.20	in
	410	453	509	612	805	1000	1210	1415	1580	1725	1960	2195	2590	2975	3100	3200	3300	3860	3713	3916	4501	mm
(d)	50	63	76	100	150	200	250	300	336	387	431	482	584	635	686	737	781	876	-	-	-	mm
D0	8	8	10	12	14	16	18	20	22	24	26	29	32	38	40	40	40	40	28.34	28.34	28.34	in
	200	200	250	300	350	400	450	500	550	550	600	640	720	720	800	800	950	1000	720	720	720	mm
WT (kg)	23	35	50	71	144	209	322	482	683	950	1145	1635	2660	3090	3310	3595	3720	3985	8100	9750	13050	RF/RTJ
	17	26	39	53	113	164	256	390	565	805	965	1410	2305	2540	2725	3055	3360	3630	-	-	-	BW
Toqure	16	18	21	42	86	128	215	289	423	537	649	1009	1451	-	-	3140	-	4239	-	-	-	mm

CAST STEEL GATE VALVE

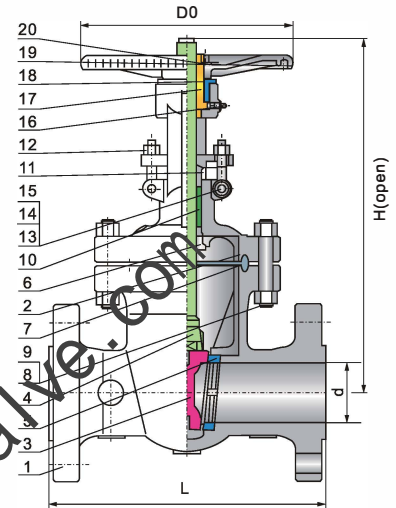
600Lb

Applicable standards:

STEEL GATE VALVES, API 600/API 6D
 STEEL GATE VALVES, ISO 10434/ISO 14313
 STEEL VALVES, ASME B 16.34
 FACE TO FACE, ASME B 16.10
 END FLANGES, ASME B 16.5
 BUTTWELDING ENDS, ASME B 16.25
 INSPECTION AND TEST, API 598/API 6D

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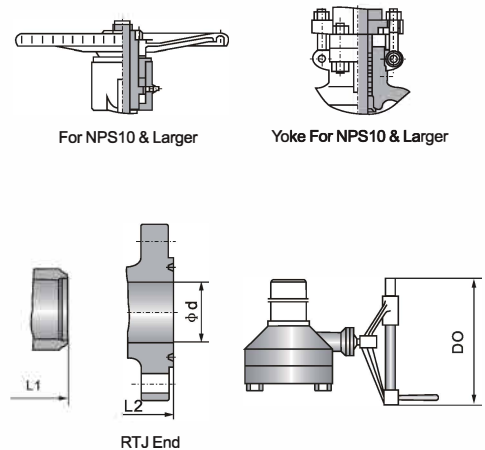


Materials of parts

No	Part Name	ASTM Material		
		Carbon Steel	1 1/4Cr-1/2Mo	Carbon Steel
1	Body	A216-WCB	A217-WC6	A352-LCB
2	Bonnet	A216-WCB	A217-WC6	A352-LCB
3	Wedge	A216-WCB+CR13	A217-WC6+HF	A352-LCB+CR13
4	Stem	A182-F6a	CR-MO-V	A182-F6a
5	Seat Ring	A105+CR13	A182-F11+HF	A352-LCB+CR13
6	Stem Back Seat	A276-420	A276-304	A276-420
7	Bonnet Gasket	Steel Ring	304SS Ring	Steel Ring
8	Bonnet Stud	A193-B7	A193-B16	A320-L7
9	Bonnet Stud Nut	A194-2H	A194-7	A194-4
10	Packing		Graphite	
11	Gland	A276-420	A276-304	A276-420
12	Gland Flange	A216-WCB	A217-WC6	A352-LCB
13	Eyebolt Pin	Carbon Steel	A276-420	Carbon Steel
14	Eyebolt	Carbon Steel	A193-B7	Carbon Steel
15	Eyebolt Nut	Carbon Steel	A194-2H	Carbon Steel
16	Grease Fitting		Brass+Steel	
17	Yokesleeve		Aluminum-Bronze ¹⁾	
18	Yokesleeve Jam Nut		Carbon Steel	
19	Handwheel		Malleable Iron	
20	Handwheel Nut		Carbon Steel	

Note: 1). Ductile Ni-Resist optional

2). Wedge and seat ring may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.



Dimensions data

NPS	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	26	28	30	32	36	40	42	48	in
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750	800	900	1000	1050	1200	mm

ANSI Class 600Lb

L/L1 (RF/BW)	11.50	13.00	14.00	17.00	22.00	26.00	31.00	33.00	35.00	39.00	43.00	47.00	55.00	57.00	61.00	65.00	70.00	82.00	84.60	88.97	105.00	in
	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	1448	1549	1651	1778	2083	2149	2260	2667	mm
L2 (RTJ)	11.62	13.12	14.12	17.12	22.12	26.12	31.12	33.12	35.12	39.12	43.12	47.25	55.38	57.50	61.50	65.50	70.62	82.62	-	-	-	in
	295	333	359	435	562	664	791	841	892	994	1095	1200	1407	1461	1562	1664	1794	2099	-	-	-	mm
H (OPEN)	16.50	18.75	20.38	25.50	33.00	40.38	48.38	57.00	62.00	70.62	76.00	87.00	101.50	105.00	109.50	114.00	124.00	140.00	141.73	155.51	181.10	in
	418	476	518	646	840	1025	1230	1450	1575	1795	1930	2210	2580	2665	2780	2895	3150	3560	3600	3950	4600	mm
(d)	50	63	76	100	150	199	247	298	326	374	419	463	558	603	648	695	781	876	-	-	-	mm
D0	8	10	10	12	18	20	24	24	24	24	26	26	29	29	32	32	38	40	28.34	28.34	28.34	in
	200	250	250	300	450	500	600	600	600	600	640	640	720	720	800	800	950	1000	720	720	720	mm
WT (kg)	36	52	67	112	170	393	610	890	1245	1530	1965	2450	2995	3475	3725	4045	4185	4480	14300	16400	22900	RTJ
	29	42	53	83	125	310	472	730	1055	1240	1625	2030	2590	2855	3065	3440	3780	4085	-	-	-	BW
Toqure	23	-	50	68	183	270	479	650	988	1243	1512	2185	3053	-	-	5452	-	7675	-	-	-	mm

Applicable standards:

STEEL GATE VALVES, API 600/API 6D
 STEEL GATE VALVES, ISO 10434/ISO 14313
 STEEL VALVES, ASME B 16.34
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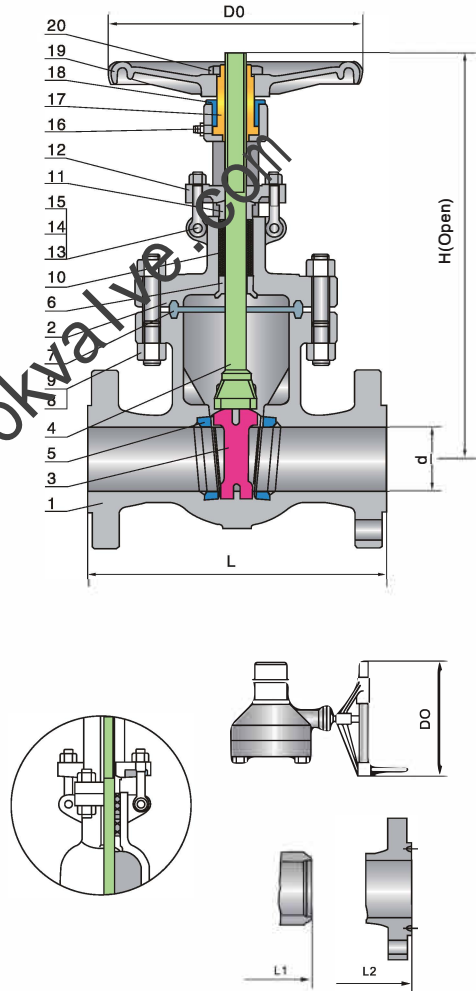
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2	Bonnet	A216-WCB	A217-WC6	A352-LCB
3	Wedge	A216-WCB+CR13	A217-WC6+HF	A352-LCB+CR13
4	Stem	A182-F6a	CR-MO-V	A182-F6a
5	Seat Ring	A105+CR13	A182-F11+HF	A352-LCB+CR13
6	Stem Back Seat	A276-420	A276-304	A276-420
7	Bonnet Gasket	Steel Ring	304SS Ring	Steel Ring
8	Bonnet Stud	A193-B7	A193-B16	A320-L7
9	Bonnet Stud Nut	A194-2H	A194-7	A194-4
10	Packing	Graphite		
11	Gland	A276-420	A276-304	A276-420
12	Gland Flange	A216-WCB	A217-WC6	A352-LCB
13	Eyebolt Pin	Carbon Steel	A276-420	Carbon Steel
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Dimensions data

NPS	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	in
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	mm

ANSI Class 900Lb

L/L1 (RF/BW)	14.50	16.50	15.50	18.00	24.00	29.00	33.00	38.00	40.50	44.50	48.00	52.00	61.00	in
	368	419	381	457	610	737	838	965	1029	1130	1219	1321	1549	mm
L2 (RTJ)	14.62	16.62	15.12	18.12	24.12	29.12	33.12	38.12	40.88	44.88	48.50	52.50	61.75	in
	371	422	384	460	613	740	841	968	1038	1140	1232	1334	1568	mm
H (OPEN)	19.62	21.50	22.50	26.62	35.50	43.50	53.00	60.00	74.88	81.00	87.00	101.00	104.00	in
	498	547	573	678	900	1103	1345	1525	1900	2055	2215	2565	2640	mm
(d)	47	57	72	98	146	190	238	282	311	355	400	444	533	mm
D0	10	10	12	18	20	24	26	29	32	32	38	38	40	in
	250	250	300	450	500	600	640	720	800	800	950	950	1000	mm
WT (kg)	74	131	101	172	335	640	1100	1600	2250	2850	3060	3935	4900	RF/RTJ
	54	105	78	135	260	515	920	1380	2010	2565	2485	3250	4065	BW
Toquire	39	56	64	118	243	427	783	1163	1331	-	-	-	-	mm

CAST STEEL GATE VALVE

1500lb

Applicable standards:

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Design description:

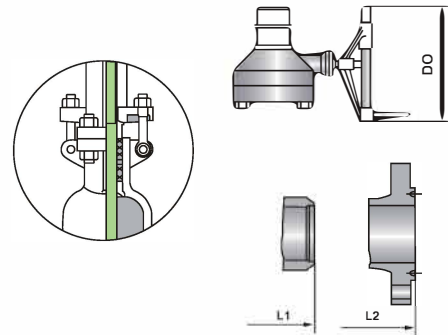
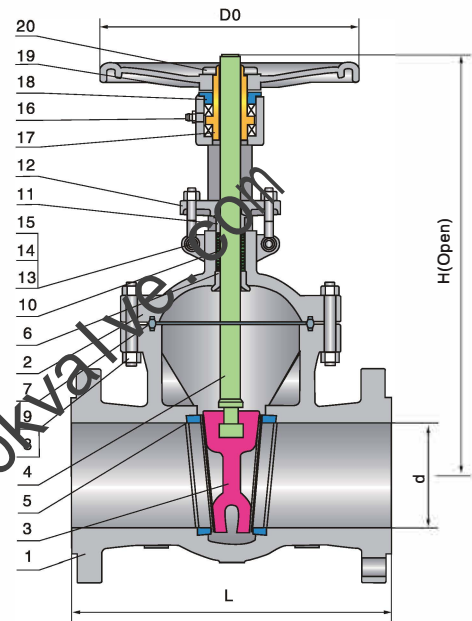
FULL PORT DESIGN
 OS & Y, OUTSIDE SCREW AND YOKE
 BB, BOLTED BONNET
 FLEXIBLE WEDGE, FULLY GUIDED
 CHOICE OF SOLID OR SPLIT WEDGE
 RENEWABLE SEAT RINGS
 FORGED T-HEAD STEM
 RISING STEM AND NON-RISING HANDWHEEL
 FLANGED OR BUTTWELDING ENDS
 AVAILABLE WITH BG OPERATOR

Materials of parts

No	Part Name	ASTM Material		
		Carbon Steel	1 1/4Cr-1/2Mo	Carbon Steel
1	Body	A216-WCB	A217-WC6	A352-LCB
2	Bonnet	A216-WCB	A217-WC6	A352-LCB
3	Wedge	A216-WCB+CR13	A217-WC6+HF	A352-LCB+CR13
4	Stem	A182-F6a	CR-MO-V	A182-F6a
5	SeatRing	A105+CR13	A182-F11+HF	A352-LCB+CR13
6	Stem Back Seat	A276-420	A276-304	A276-420
7	Bonnet Gasket	Steel Ring	304SS Ring	Steel Ring
8	Bonnet Stud	A193-B7	A193-B16	A320-L7
9	Bonnet Stud Nut	A194-2H	A194-7	A194-4
10	Packing	Graphite		
11	Gland	A276-420	A276-304	A276-420
12	Gland Flange	A216-WCB	A217-WC6	A352-LCB
13	Eyebolt Pin	Carbon Steel	A276-420	Carbon Steel
14	Eyebolt	Carbon Steel	A193-B7	Carbon Steel
15	Eyebolt Nut	Carbon Steel	A194-2H	Carbon Steel
16	Grease Fitting	Brass+Steel		
17	Yokesleeve	Aluminum-Bronze ¹⁾		
18	Yokesleeve Jam Nut	Carbon Steel		
19	Handwheel	Malleable Iron		
20	Handwheel Nut	Carbon Steel		

Note:1). Ductile Ni-Resist optional

2). Wedge and seat ring may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.



Dimensions data

NPS	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	in
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	mm

ANSI Class 1500Lb

L/L1 (RF/BW)	14.50	16.50	18.50	21.50	27.75	32.75	39.00	44.50	49.50	54.50	60.50	65.50	76.50	in
	368	419	470	546	705	832	991	1130	1257	1384	1537	1664	1943	mm
L2 (RTJ)	15.50	16.62	18.62	21.62	28.00	33.12	39.38	45.12	50.25	55.38	61.38	66.38	77.62	in
	371	422	473	549	711	841	1000	1146	1276	1407	1559	1686	1972	mm
H (OPEN)	24.25	26.00	30.00	34.12	39.50	45.00	54.00	61.00	74.88	80.50	93.75	101.50	114.75	in
	615	658	760	868	1005	1145	1370	1550	1900	2050	2380	2580	2915	mm
(d)	47	57	69	92	136	177	222	263	288	330	371	415	498	mm
D0	10	12	18	20	24	18	18	24	24	24	24	24	24	in
	250	300	450	500	600	460	460	600	600	600	600	600	600	mm
WT (kg)	116	166	209	296	510	920	1910	3145	4100	6200	8965	13100	15860	RF/RTJ
Toqure	105	150	188	265	412	760	1640	2755	3200	5300	8070	11790	14275	BW
	54	76	108	167	426	801	1268	2078	2392	-	-	-	-	mm

CAST STEEL GATE VALVE

2500lb

Applicable standards:

STEEL GATE VALVES, API 600/API 6D
 STEEL GATE VALVES, ISO 10434/ISO 14313
 STEEL VALVES, ASME B 16.34
 FACE TO FACE, ASME B 16.10
 END FLANGES, ASME B 16.5
 BUTTWELDING ENDS, ASME B 16.25
 INSPECTION AND TEST, API 598/API 6D

Design description:

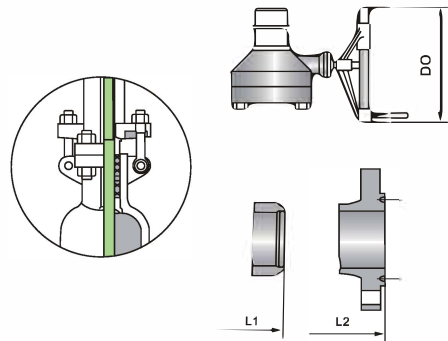
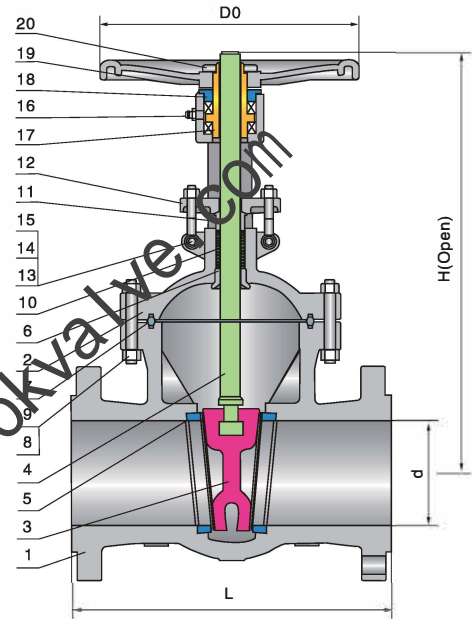
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15	Eyebolt Nut	Carbon Steel	A194-2H	Carbon Steel
16	Grease Fitting		Brass+Steel	
17	Yokesleeve		Aluminum-Bronze ¹⁾	
18	Yokesleeve Jam Nut		Carbon Steel	
19	Handwheel		Malleable Iron	
20	Handwheel Nut		Carbon Steel	

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Dimensions data

NPS DN	2 50	2 1/2 65	3 80	4 100	6 150	8 200	10 250	12 300	in mm
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ANSI Class 2500Lb

L/L1 (RF/BW)	17.75 451	20.00 508	22.75 578	26.50 673	36.00 914	40.25 1022	50.00 1270	56.00 1422	in mm
L2 (RTJ)	17.88 454	20.50 514	23.00 584	26.88 683	36.50 927	40.88 1038	50.88 1292	56.88 1445	in mm
H (OPEN)	24.88 631	29.00 736	35.00 890	41.50 1055	57.00 1450	63.38 1610	81.75 2075	89.75 2280	in mm
(d)	38	47	57	72	111	146	184	218	mm
D0	12 300	18 450	20 500	20 500	24 600	24 600	24 600	24 600	in mm
WT (kg)	155 124	210 160	310 245	580 460	1600 1310	2450 2010	4570 3800	7150 6000	RF/RTJ BW