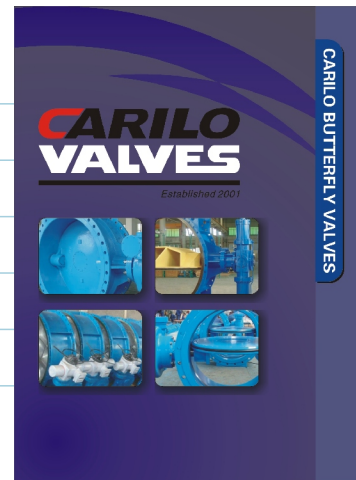
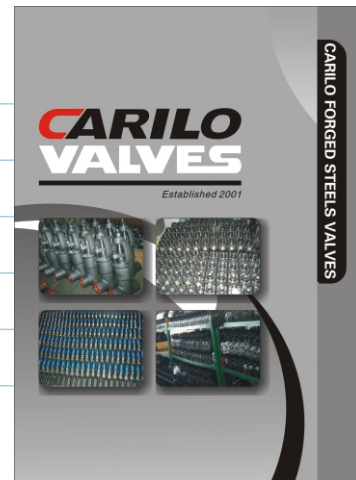


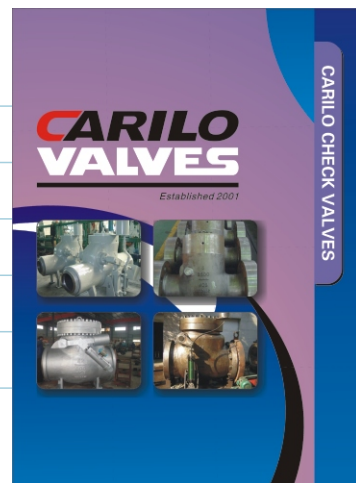
GATE VALVES



BUTTERFLY VALVES



FORGED STEELS VALVES



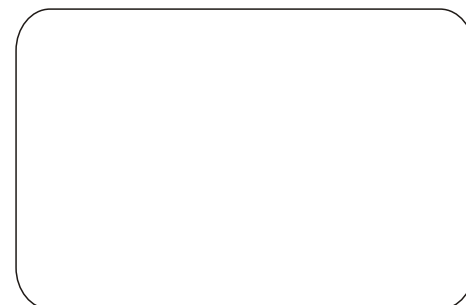
CHECK VALVES



BALL VALVES

**CARILLO**  
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**CARILLO**  
**VALVES**

*Established 2001*



**CARILLO GLOBE VALVES**

**API Globe Valve**

**API Globe Valve**

**Standards**

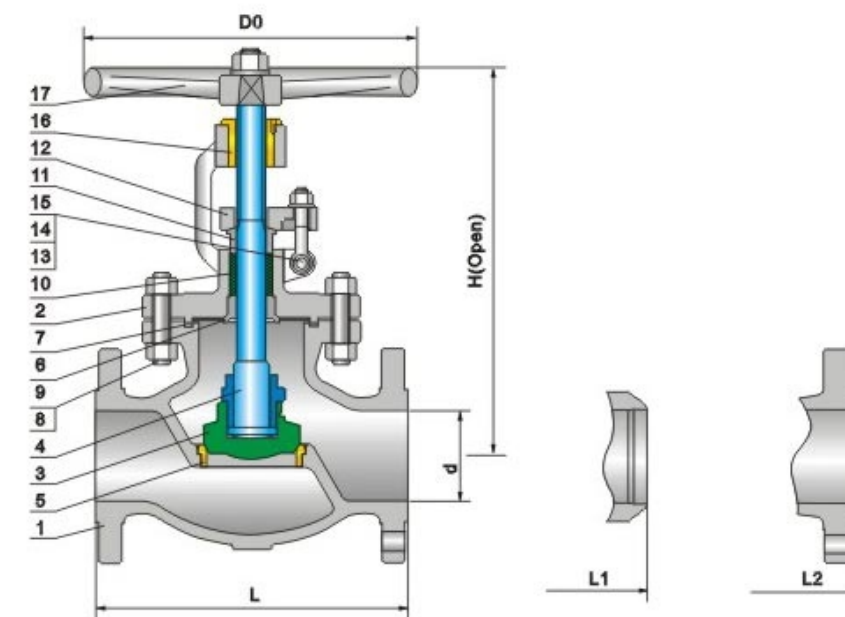
Design and manufacture as BS1873,ANSI B16.34  
Face to face dimensions as ANSI B16.10  
End flange dimension as per ANSI B16.5  
Pressure-temperature ratings as ANSI B16.34  
Pressure test as API 598

**Test Pressure**

Test Item		Shell Test		Seal Test		Back Seal Test		Air Seal Test	
Medium		Water						Air	
Unit		MPa	lbf/in <sup>2</sup>	MPa	lbf/in <sup>2</sup>	MPa	lbf/in <sup>2</sup>	MPa	lbf/in <sup>2</sup>
Pressure (Class)	150	3.1	450	2.2	315	2.2	315	0.5-0.7	60-100
	300	7.8	1125	5.6	815	5.6	815		
	400	10.3	1500	7.6	1100	7.6	1100		
	600	15.3	2225	11.2	1630	11.2	1630		
	900	23.1	3350	16.8	2440	16.8	2440		

**Materials for Main Parts**

Name	Material									
Body Bonnet Wedge	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	
Stem	A182 F6	A182 F304				A182 F316	A182 F304L	A351 CF3M		
Stem Nut	ZcuAl10Fe3 Bronze									
Handwheel	KTH350-10									
Bonnet Bolt	A193-B7 A320-L7 A193-B8									
Nut	A194-2H A194-7 A194-8									



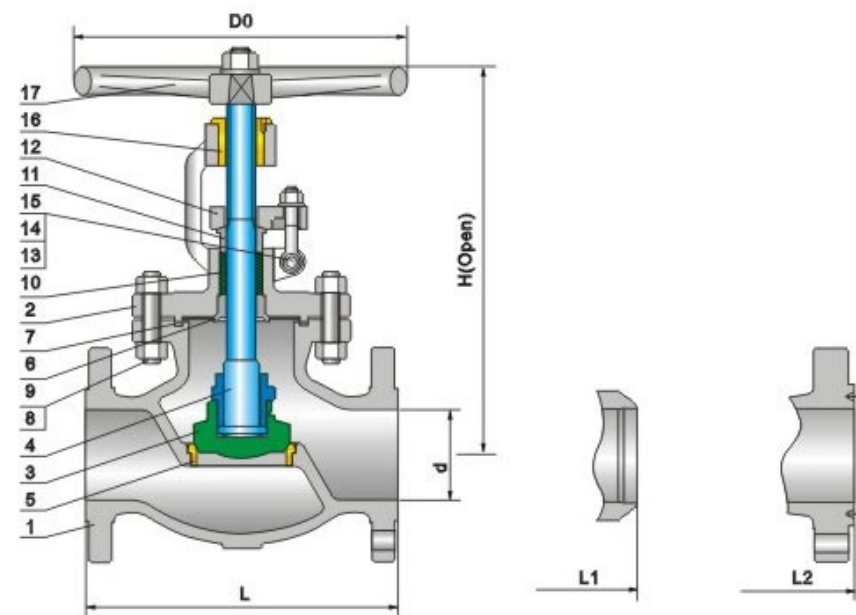
**Parts and Material List**

Parts No .	Parts Name	Materials				
		WCB/Trim1	WCB/Trim5	WCB/Trim8	CF8/304	CF8M/316
1	Body	ASTM A216 WCB			ASTM A351 CF8	ASTM A351 CF8M
2	Seat ring	A105+13Cr	A105+STL	A105+STL	ASTM A351 CF8	ASTM A351 CF8M
3	Disc	ASTM A216 WCB+13Cr	ASTM A216 WCB+STL	ASTM A216 WCB+13Cr	ASTM A351 CF8	ASTM A351 CF8M
4	Stem	ASTM A182 F6a			ASTM A182 F304	ASTM A182 F316
5	Disc nut	ASTM A216 WCB			ASTM A351 CF8	ASTM A351 CF8M
6	Bonnet nut	ASTM A194 2H			ASTM A194 8	ASTM A194 8M
7	Bonnet bolt	AST A193 B7			ASTM A193 B8	ASTM A193 B8M
8	Gasket	304 SHEET+Graphite			304+Graphite	316+graphite
9	Backseat bushing	ASTM A182 F6a			ASTM A351 CF8	ASTM A351 CF8M
10	Bonnet	ASTM A216 WCB			ASTM A351 CF8	ASTM A351 CF8M
11	Packing	Graphite			graphite	graphite
12	Eyebolt pin	ASTM A36			304ss	316ss
13	Gland eyebolt	ASTM A193 B7			ASTM A193 B8	ASTM A193 B8M
14	Gland	ASTM A182 F6a			ASTM A182 F304	ASTM A182 F316
15	Gland flange	ASTM A216 WCB			ASTM A351 CF8	ASTM A351 CF8M
16	Eyebolt nut	ASTM A194 2H			ASTM A194 8	ASTM A194 8M
17	stem nut	AST A439 D2			ASTM A439 D2	ASTM A439 D2
18	Hand wheel	Ductile iron			Ductile iron	Ductile iron
19	Hand wheel nut	Carbon steel			Carbon steel	Carbon steel

Note: The chart above only lists out some common composition of steel check valve parts. We may provide other different parts material composition according to the customer's request or the actual valve working condition.

**API Globe Valve**

**API Globe Valve**



**Materials of parts**

No .	Part Name	ASTM Material		
		Carbon Steel	1 1/4Cr-1/2Mo	18Cr-9Ni-2Mo
1	Body	216-WCB	A217-WC6	A352-LCB
2	Bonnet	A21-WCB	A217-WC6	A352-LCB
3	Disc	A105+CR13	A217-WC6+HF	A350-LF2+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	A276-420	Carbon Steel
14	Eyebolt	Carbon Steel	A193-B7	Carbon Steel
15	Eyebolt Nut	Carbon Steel	A194-2H	Carbon Steel
16	Yokesleeve	Aluminum-Bronze1)		
17	Handwheel	Malleable Iron		

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	in	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600
ANSI Class 150Lb														
L/L1 (RF/BW)	in	8.00	8.50	9.50	11.50	16.00	19.50	24.50	27.50	31.00	36.00	38.46	38.46	50.98
	mm	203	216	241	292	406	495	622	698	787	914	977	977	1295
L2(RTJ)	in	8.00	8.50	9.50	11.50	16.00	19.50	24.50	27.50	31.00	36.00	-	-	-
	mm	203	216	241	292	406	495	622	698	787	914	-	-	-
H(Open)	in	15.00	21.00	17.50	20.25	22.00	24.25	32.00	35.88	48.38	57.00	41.98	43.97	50.98
	mm	380	535	445	515	560	615	815	910	1230	1450	1066	1117	1295
(d)	mm	50	63	76	100	150	200	250	300	360	387	438	488	590
D0	in	7	10	11	11	13	13	16	16	20	24	28.34	28.34	33.46
	mm	180	240	280	280	320	320	400	450	500	600	720	720	850
WT(Kg)	in	18	30	41	64	66	110	280	380	510	740	1160	1650	2200
	mm	14	22	33	43	72	88	245	345	450	665	-	-	-

NPS	in	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600
ANSI Class 300Lb														
L/L1 (RF/BW)	in	10.50	11.50	12.50	14.00	17.50	22.00	24.50	28.00	32.99	32.99	38.46	40.00	52.99
	mm	267	292	318	356	444	559	622	711	838	863	977	1016	1346
L2(RTJ)	in	11.12	12.12	13.12	14.62	18.12	22.62	25.12	28.62	-	-	-	-	-
	mm	282	308	333	371	460	575	638	727	-	-	-	-	-
H(Open)	in	16.75	19.00	19.88	22.50	25.25	33.25	35.50	38.62	-	53.97	57.99	61.96	70.98
	mm	425	485	505	570	640	845	900	980	-	1371	1473	1574	1803
(d)	in	50	63	76	100	150	200	250	300	336	387	431	482	584
D0	mm	8	10	11	13	16	18	20	24	33.85	24.01	24.01	28.34	28.34
	in	200	240	280	320	400	450	500	600	860	610	610	720	720
WT(Kg)	mm	25	32	38	56	96	150	360	550	876	1200	1600	2100	3150
	in	20	22	27	41	75	117	310	492	-	-	-	-	-

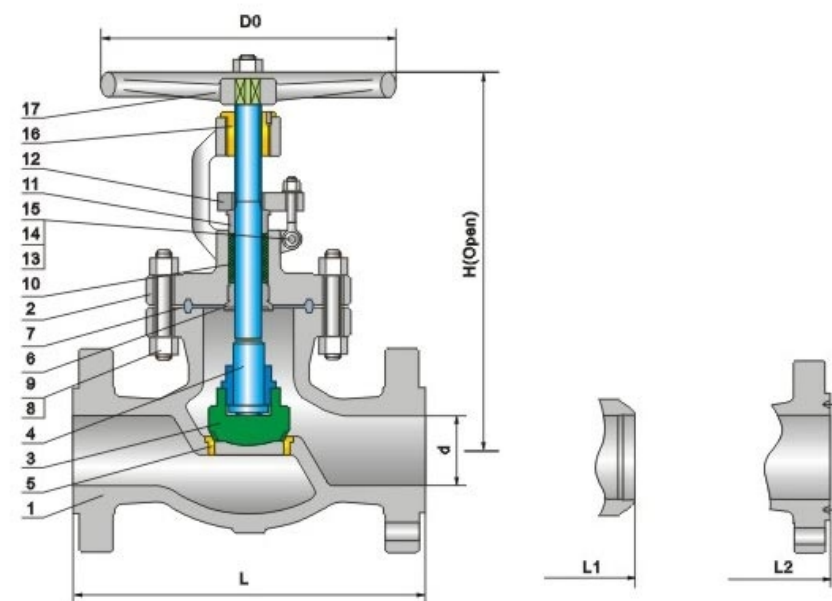
NPS	in	2	2 1/2	3	4	6	8	10	12
DN	mm	50	65	80	100	150	200	250	300
ANSI Class 600Lb									
L/L1 (RF/BW)	in	11.50	13.00	14.00	17.00	22.00	26.00	31.00	33.00
	mm	292	330	356	432	559	660	787	838
L2(RTJ)	in	11.62	13.12	14.12	17.12	22.12	26.12	31.12	33.12
	mm	295	333	359	435	562	663	790	841
H(Open)	in	17.50	19.75	21.00	24.50	29.50	36.50	44.88	53.12
	mm	445	502	533	622	750	927	1140	1350
(d)	in	50	63	76	100	150	199	247	298
D0	mm	10	11	13	16	18	20	24	24
	in	240	280	320	400	450	500	600	600
WT(Kg)	mm	35	50	60	110	230	410	770	1140
	in	27	34	42	84	192	350	680	1030

NPS	in	2	2 1/2	3	4	6	8	10
DN	mm	50	65	80	100	150	200	250
ANSI Class 900Lb								
L/L1 (RF/BW)	in	14.50	16.50	15.00	18.00	24.00	29.00	33.00
	mm	368	419	381	457	610	737	838
L2(RTJ)	in	14.62	16.62	15.12	18.12	24.12	29.12	33.12
	mm	371	422	384	460	613	740	841
H(Open)	in	22.00	23.25	25.25	31.88	41.38	53.50	61.88
	mm	560	590	640	810	1050	1380	1570
(d)	in	47	57	72	98	146	190	238
D0	mm	11	13	16	18	20	24	24
	in	280	320	400	450	500	600	600
WT(Kg)	mm	57	82	92	168	365	665	1250
	in	41	53	58	117	238	538	1060



**API Globe Valve**

**API Globe Valve**



**Materials of parts**

No .	Part Name	ASTM Material		
		Carbon Steel	1 1/4Cr-1/2Mo	18Cr-9Ni-2Mo
1	Body	216-WCB	A217-WC6	A352-LCB
2	Bonnet	A21-WCB	A217-WC6	A352-LCB
3	Disc	A105+CR13	A217-WC6+HF	A350-LF2+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	A276-420	Carbon Steel
14	Eyebolt	Carbon Steel	A193-B7	Carbon Steel
15	Eyebolt Nut	Carbon Steel	A194-2H	Carbon Steel
16	Yokesleeve	Aluminum-Bronze1)		
17	Handwheel	Malleable Iron		

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.

NPS	in	2	2 1/2	3	4	6	8
DN	mm	50	65	80	100	150	200
ANSI Class 1500Lb							
L/L1 (RF/BW)	in	14.50	16.50	18.50	21.50	27.75	32.75
	mm	368	419	470	546	705	832
L2(RTJ)	in	14.62	16.62	18.62	21.62	28.00	33.12
	mm	371	422	473	549	711	841
H(Open)	in	22.00	23.25	29.50	36.00	48.62	65.00
	mm	560	590	750	915	1235	1650
(d)	in	47	57	69	92	136	177
D0	mm	13	16	18	20	24	28
	in	320	400	450	500	600	700
WT(Kg)	mm	68	97	116	215	445	795
	in	57	81	95	184	347	635

NPS	in	2	2 1/2	3	4	6
DN	mm	50	65	80	100	150
ANSI Class 2500Lb						
L/L1 (RF/BW)	in	17.75	20.00	22.75	26.50	36.00
	mm	451	508	578	673	914
L2(RTJ)	in	17.88	20.50	23.00	26.88	36.50
	mm	454	514	584	683	927
H(Open)	in	25.50	28.12	32.50	47.00	70.50
	mm	650	715	825	1195	1790
(d)	in	38	47	57	72	111
D0	mm	16	18	20	24	28
	in	400	450	500	600	700
WT(Kg)	mm	97	138	167	305	633
	in	72	95	108	196	351