

**The Flow Control Expert
for the 21st Century**

QUALITY VALVE
RELIABLE
AND GLOBAL SERVICE



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Code No. C02-1905

VIZA

**The Flow
Control Expert
For The
21st Century**

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**QUALITY VALVE
RELIABLE
AND GLOBAL SERVICE**



**GATE VALVE
GLOBE VALVE
CHECK VALVE**

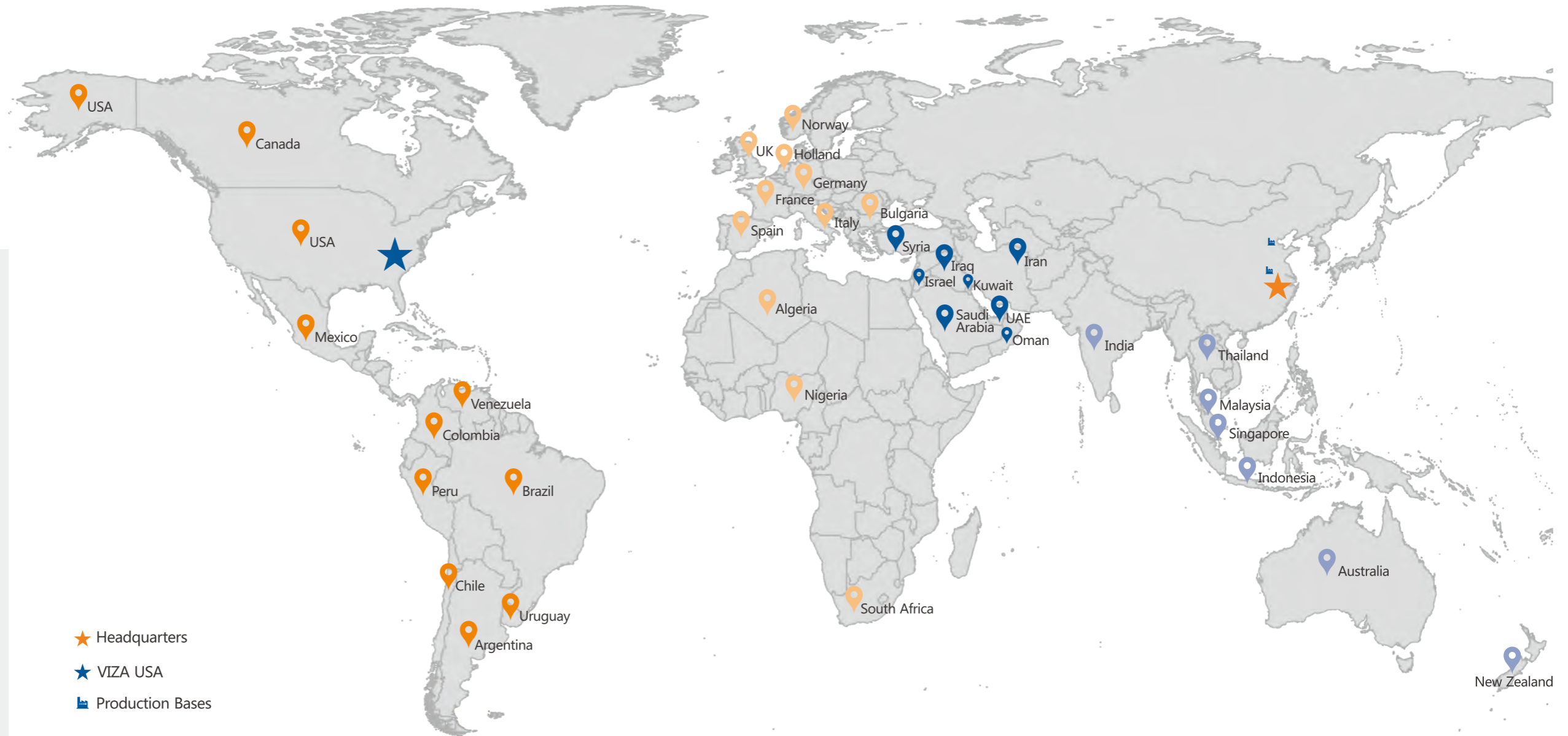


Code No. C02-1905

VIZA SERVICE

VIZA Valves has been serving for many global End users and EPCs for more than 10 years and has set a reliable, professional reputation among the valve industry. VIZA can offer more economic customized valve solutions for customers to respond to different working conditions.

VIZA can offer a series of service ranging from valve installation, onsite maintenance, onsite inspection to onsite technical and operation training, VIZA has a global service team that can offer easy and quick response through professional knowledge.



The Flow Control Expert for the 21st Century



GGC VALVE

COOPERATIVE PARTNER

- 📍 NORTH & SOUTH AMERICA
- 📍 EUROPE & AFRICA
- 📍 MIDDLE EAST
- 📍 ASIA PACIFIC

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**QUALITY VALVE
RELIABLE
AND GLOBAL SERVICE**

COMPANY OVERVIEW

www.vizavalve.com
 QUALITY VALVE, RELIABLE AND GLOBAL SERVICE

VIZA VALVES

VIZA Valves is China's leading manufacturer of industrial valves. The head office, Suzhou VIZA Valve Co., Ltd., is located in Kunshan and has been manufacturing top-quality valves for more than 10 years. From its early days, VIZA Valves has always been an export-oriented manufacturer. All valves are designed, produced, and tested under rigorous international standards such as API, ANSI, ASTM, NACE, ISO, EN, BS, DIN, UNI, MSS, AWWA and JIS. VIZA Valves products are 100% exported to North America, Western Europe, Middle East, Australia and other Regions and are widely used in industries like Oil & Gas, Pipeline Transmission, Refining, Chemical and Petrochemical, Power Generation, Water and Waste Water Treatment etc.

VIZA VALVES' GOAL

VIZA Valves' goal is to produce a zero defect product with a long and reliable service life and minimize cost for all customers, EPCs and End users through VIZA's professional work. VIZA Valves is dedicated to serving the global energy industry and working towards a sustainable new world.

10+

has been manufacturing top-quality valves for more than 10 years.



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FIGURE NUMBERS

VIZA Valve

Example:

12	GA	9	R	CB	5	Ga	-B
1	2	3	4	5	6	7	8

i.e.

12"OS&Y BB Gate Valve, Class 900, Raised Face Flange End, ASTM A216 WCB Body/Bonnet Trim5, Bevel Gear Type A Actuator, with By Pass

1 Valve Size

NPS	2"	2 1/2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	30"	32"	36"	40"	42"	48"
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	700	750	800	900	1000	1050	1200
Symbol	2	2.5	3	4	6	8	10	12	14	16	18	20	24	28	30	32	36	40	42	48

2 Valve Type

Type	Gate	Globe	Swing Check	Y-Strainer
Symbol	GA	GL	CH	ST

3 Nominal Pressure

Class	150	300	600	900	1500	2500
Symbol	1	3	6	9	15	25
PN	16	25	40	63	100	160
Symbol	16	25	40	63	100	160

4 End Type

Type	Raised Face Flange	Ring Joint Flange	Groove Face Flange	Butt Welding End	Socket Welding End	Screwed End
Symbol	R	J	G	B	S	N

5 Body/Bonnet Material

Material	WCB	WC1	WC6	WC9	C5	C12	LCB	LCC	LC2	LC3	CF8	CF8M	CF3	CF3M	CF8C	CN7M
Symbol	CB	C1	C6	C9	C5	C12	LB	LC	L2	L3	F8	8M	F3	3M	8C	7M
Symbol Temperature	°C	-29 to 427	-29 to 468	-29 to 593	-29 to 649	-29 to 649	-46 to 343	-73 to 343	-101 to 343	-254 to 649	-254 to 649	-254 to 427	-254 to 454	-29 to 649	-29 to 316	
	°F	-20 to 800	-20 to 875	-20 to 1100	-20 to 1200	-20 to 1200	-50 to 650	-100 to 650	-150 to 650	-425 to 1200	-425 to 1200	-425 to 800	-425 to 850	-20 to 1200	-20 to 600	
	ASTM	A216	A217	A217	A217	A217	A352	A352	A352	A351	A351	A351	A351	A351	A351	A351
Standard	150-600#	8	8	8	8	8	2,10,12	2,10,12	2,10,12	2,10,12	2,10,12	2,10,12	2,10,12	2,10,12	2,10,12	2,10,12
Trim No.	900-2500#	5	5	5	5	5	16	16	16	16	16	16	16	16	16	16

6 Trim Material

trim number	1	2	5	8	9	10	12	13	16	17	20
Symbol	1	2	5	8	9	10	12	13	16	17	20
Seat Surface	13Cr	304	HF	HF	Monel	316	HF	Alloy20	HF	HF	Bronze
Disc Surface	13Cr	304	HF	13Cr	Monel	316	316	Alloy20	HF	HF	Bronze
Stem	F6a	F304	F6a	F6a	Monel	F316	F316	B473	F316	F347	Bronze
Back Seat Ring	410	304	410	410	Monel	316	316	B473	316	347	Bronze

Note

- 1.Trim number 1 to 17 are same as API 600 table 3
- 2.HF: Hardfaced with Stellite 6 (Co-Cr-W alloy)or equivalent
- 3.B473: ASTM B473 N08020
4. The trim Symbol of Y-Stainer is none

7 Valve Actuator

Type	Handwheel	Gear	Electrical Actuator	Pneumatic	Bare Stem
Symbol	None	G	E	P	B

8 Special Code

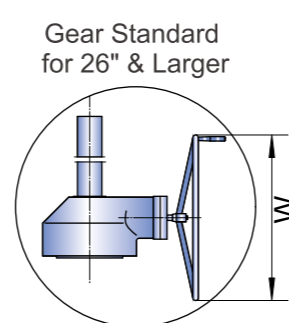
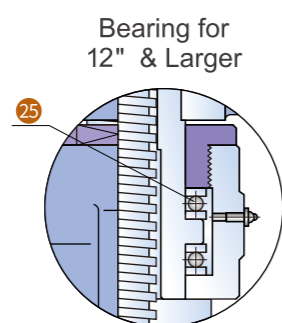
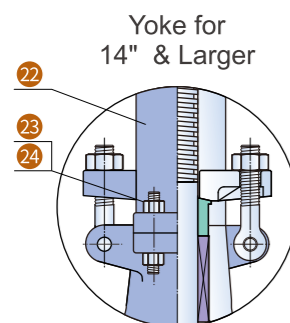
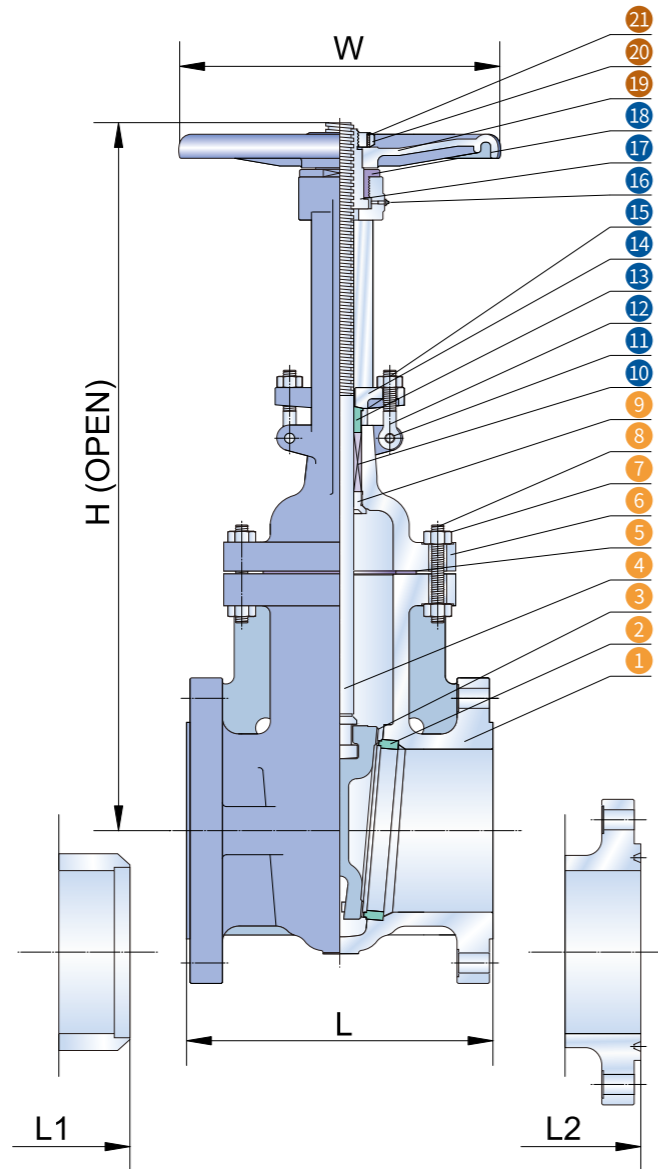
Description	Gate/Globe: OS&Y BB, Swing Check Type 1	Angel Type Globe	Swing Check Type 2	Piston Check	Non Rising Stem	Pressure Seal		
Symbol	None	A	T	I	N	P		
Description	By Pass	Locking device	Stem Protection	Water Seal	Bellows Seal	Extended Bonnet	Reduce Bore	Other
Symbol	B	L	S	W	G	E	R	O

Note: If one valve has two or more special codes the symbol shall sort by letter

Cast Steel Gate Valve

Class 150

Figure No. GA1RCB8 / GA1BCB8 / GA1JCB8



STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A216 GR.WCB+13Cr Faced
4	Stem	ASTM A182 GR.F6a
5	Gasket	SS+ Graphite
6	Bonnet	ASTM A216 GR.WCB
7	Bonnet Bolt Nuts	ASTM A194 GR.2H
8	Bonnet Bolts	ASTM A193 GR.B7
9	Backseat Bushing	ASTM A276 Type 410
10	Stem Packing	Braided Graphite & Die formed Graphite Ring
11	Eye Bolt Pins	Carbon Steel
12	Gland Eye Bolts	ASTM A307 GR.B
13	Gland	ASTM A276 Type 410
14	Gland Flange	ASTM A216 GR.WCB
15	Eye Bolt Nuts	ASTM A563
16	Grease Nipple	Carbon Steel
17	Stem Nut	ASTM A439 GR.D-2
18	Retaining Nut	Carbon Steel
19	Handwheel	Ductile Iron
20	Handwheel Nut	Carbon Steel
21	Screw	Carbon Steel
22	Yoke	ASTM A 216 GR.WCB
23	Yoke Pan Bolt Nuts	ASTM A563
24	Yoke Pan Bolts	ASTM A307 B
25	Bearing	Steel

FEATURES

- OS & Y, Rising Stem
- Bolted Bonnet
- Flexible Wedge
- Extended Bonnet For Cryogenic Services
- By Pass On Request
- Locking Device Optional

SPECIFICATIONS

Design	ASME B16.34/API 600
Face To Face	ASME B16.10
End To End	ASME B16.10
End Flange	ASME B16.5/B16.47
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

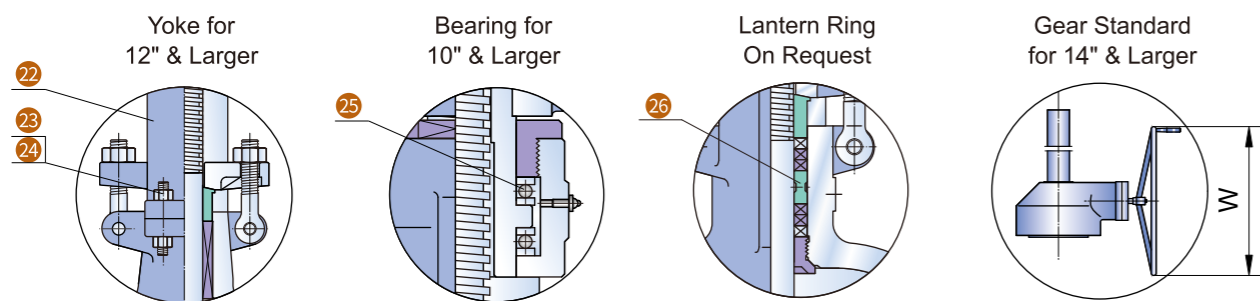
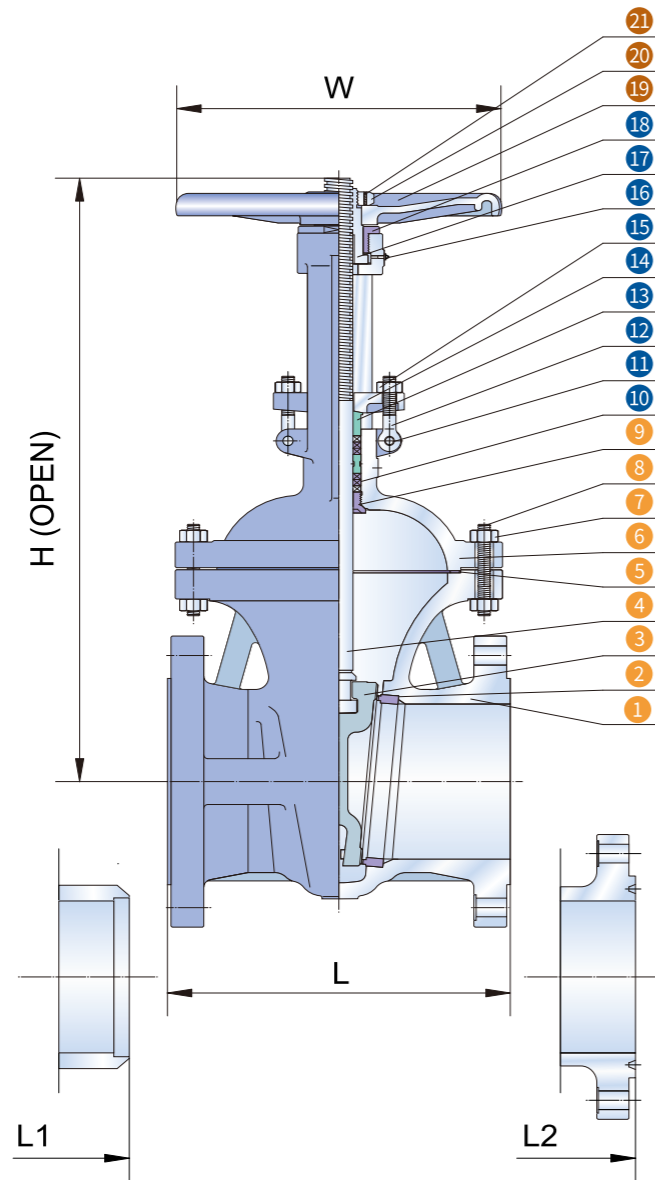
Dimensions And Weights

SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	36"	40"	42"	48"
mm	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750	800	900	1000	1050	1200	
L	in	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	30.00	31.00	34.00
mm	178	191	203	229	267	292	330	356	381	406	432	457	508	559	610	610	660	711	762	787	864	
L1	in	8.50	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	43.00	46.00
mm	216	241	283	305	403	419	457	502	572	610	660	711	813	864	914	914	965	1016	1067	1092	1168	
L2	in	7.50	8.00	8.50	9.50	11.00	12.00	13.50	14.50	15.50	16.50	17.50	18.50	20.50	-	-	-	-	-	-	-	-
mm	191	203	216	241	279	305	343	368	394	419	445	470	521	-	-	-	-	-	-	-	-	
H	in	15.31	17.28	19.69	23.43	30.59	38.39	45.67	54.72	61.22	71.30	82.80	90.55	102.72	109.45	130.98	141.97	145.98	154.49	168.50	175.39	193.31
mm	389	439	512	603	777	975	1160	1390	1520	1700	1876	2127	2526	2780	2991	3141	3312	3700	4280	4455	4910	
W	in	8	8	10	10	14	14	16	18	22	24	25	27	30	24	24	24	24	24	24	32	32
mm	200	200	250	250	350	350	400	450	500	560	640	680	760	810	610	610	610	610	610	610	810	810
WEIGHT	Kg	17	23	29	47	80	129	192	287	410	571	720	1170	1466	1699	1931	2380	2490	3600	4580	4710	6500

Cast Steel Gate Valve

Class 300

Figure No. GA3RCB8 / GA3BCB8 / GA3JCB8



STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR. WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A216 GR.WCB+13Cr Faced
4	Stem	ASTM A182 GR.F6a
5	Gasket	SS+ Graphite
6	Bonnet	ASTM A216 GR.WCB
7	Bonnet Bolt Nuts	ASTM A194 GR.2H
8	Bonnet Bolts	ASTM A193 GR.B7
9	Backseat Bushing	ASTM A276 Type 410
10	Stem Packing	Braided Graphite & Die formed Graphite Ring
11	Eye Bolt Pins	Carbon Steel
12	Gland Eye Bolts	ASTM A307 GR.B
13	Gland	ASTM A276 Type 410
14	Gland Flange	ASTM A216 GR.WCB
15	Eye Bolt Nuts	ASTM A563
16	Grease Nipple	Carbon Steel
17	Stem Nut	ASTM A439 GR.D-2
18	Retaining Nut	Carbon Steel
19	Handwheel	Ductile Iron
20	Handwheel Nut	Carbon Steel
21	Screw	Carbon Steel
22	Yoke	ASTM A 216 GR.WCB
23	Yoke Pan Bolt Nuts	ASTM A563
24	Yoke Pan Bolts	ASTM A307 B
25	Bearing	Steel
26	Lantern Ring On Request	ASTM A276 Type 410

FEATURES

- OS & Y, Rising Stem
- Bolted Bonnet
- Flexible Wedge
- Extended Bonnet For Cryogenic Services
- By Pass On Request
- Locking Device Optional

SPECIFICATIONS

Design	ASME B16.34/API 600
Face To Face	ASME B16.10
End To End	ASME B16.10
End Flange	ASME B16.5/B16.47
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

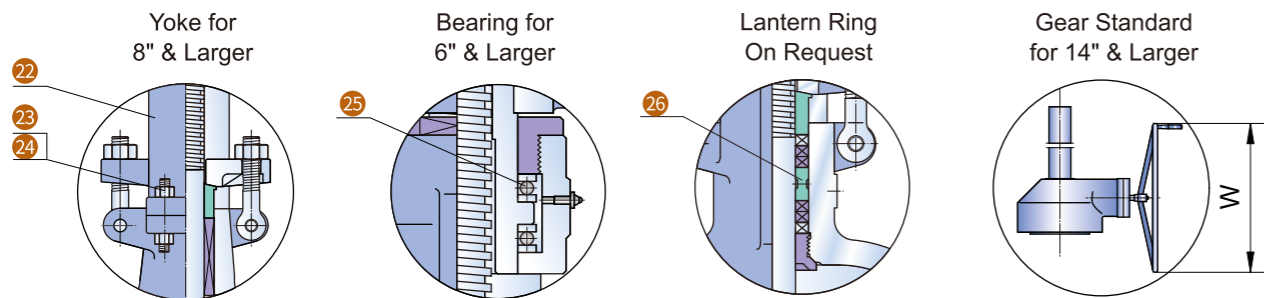
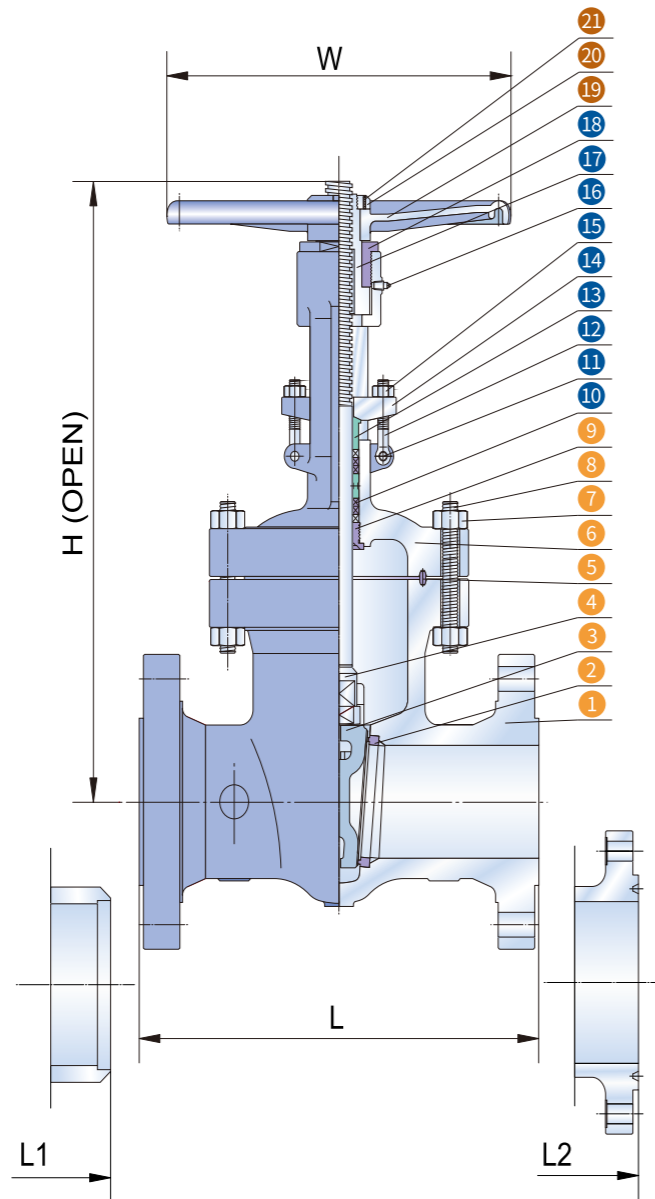
Dimensions And Weights

SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	26"	28"	30"	32"	36"
mm	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750	800	900	
L/L1	in	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
mm	216	241	283	305	403	419	457	502	762	838	914	991	1143	1245	1346	1397	1524	1727	
L2	in	9.12	10.12	11.74	12.62	16.50	17.12	18.62	20.37	30.62	33.62	36.62	39.75	45.88	50.00	54.00	56.00	61.12	69.12
mm	232	257	298	321	419	435	473	517	778	854	930	1010	1165	1270	1372	1422	1552	1756	
H	in	16.93	19.88	20.87	24.80	31.50	39.69	48.82	57.87	64.76	72.48	77.13	86.38	102.28	110.24	122.05	130.71	140.16	153.94
mm	430	505	565	630	820	1008	1240	1420	1543	1725	1959	2257	2654	2800	3100	3320	3560	3910	
W	in	8	10	10	10	14	16	18	20	24	24	24	24	24	24	24	32	32	32
mm	200	250	250	250	350	400	450	500	560	640	610	610	610	610	610	610	810	810	810
WEIGHT RF	Kg	30	45	57	88	147	219	368	522	694	1080	1235	1655	2320	3100	3893	4930	5230	6885

Cast Steel Gate Valve

Class 600

Figure No. GA6RCB8 / GA6BCB8 / GA6JCB8



STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR. WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A216 GR.WCB+13Cr Faced
4	Stem	ASTM A182 GR.F6a
5	Ring Joint	Soft Iron
6	Bonnet	ASTM A216 GR.WCB
7	Bonnet Bolt Nuts	ASTM A194 GR.2H
8	Bonnet Bolts	ASTM A193 GR.B7
9	Backseat Bushing	ASTM A276 Type 410
10	Stem Packing	Braided Graphite & Die formed Graphite Ring
11	Eye Bolt Pins	Carbon Steel
12	Gland Eye Bolts	ASTM A307 GR.B
13	Gland	ASTM A276 Type 410
14	Gland Flange	ASTM A216 GR.WCB
15	Eye Bolt Nuts	ASTM A563
16	Grease Nipple	Carbon Steel
17	Stem Nut	ASTM A439 GR.D-2
18	Retaining Nut	Carbon Steel
19	Handwheel	Ductile Iron
20	Handwheel Nut	Carbon Steel
21	Screw	Carbon Steel
22	Yoke	ASTM A 216 GR.WCB
23	Yoke Pan Bolt Nuts	ASTM A563
24	Yoke Pan Bolts	ASTM A307 B
25	Bearing	Steel
26	Lantern Ring On Request	ASTM A276 Type 410

FEATURES

- Os & Y, Rising Stem
- Bolted Bonnet
- Flexible Wedge
- Extended Bonnet For Cryogenic Services
- By Pass On Request
- Locking Device Optional

SPECIFICATIONS

Design	ASME B16.34/API 600
Face To Face	ASME B16.10
End To End	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

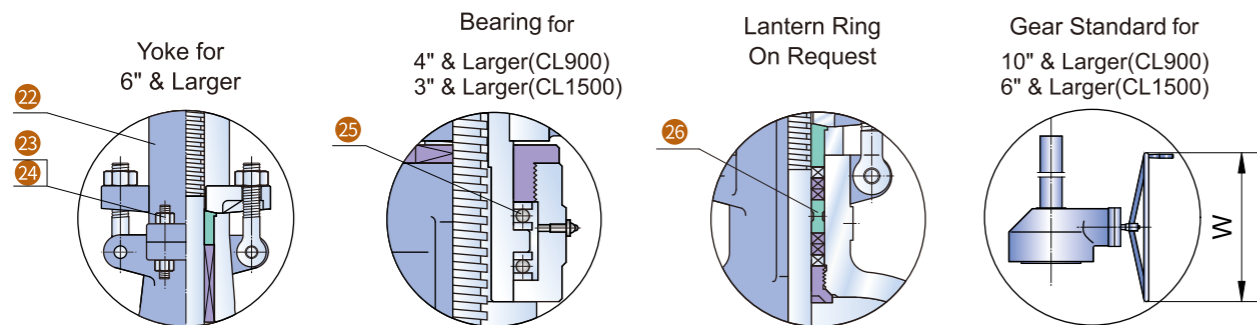
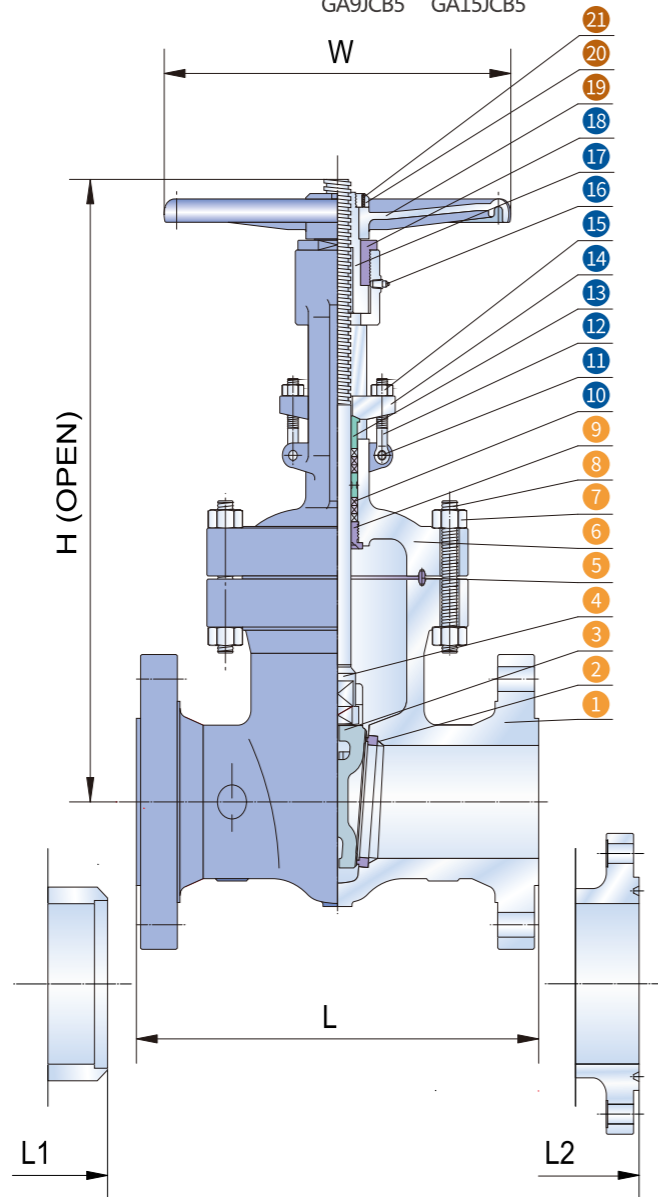
Dimensions And Weights

SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
mm	50	65	80	100	150	200	250	300	350	400	450	500	600	
L/L1	in	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
mm	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	
L2	in	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
mm	295	333	359	435	562	663	790	841	892	994	1095	1200	1407	
H	in	17.91	23.14	21.65	27.17	35.83	41.93	49.49	57.80	63.90	71.50	88.98	106.50	110.63
mm	455	588	550	690	910	1065	1257	1468	1745	1860	2194	2328	2810	
W	in	10	10	10	14	18	20	25	27	24	24	24	24	24
mm	250	250	300	350	450	500	640	680	610	610	610	610	610	
WEIGHT RF	Kg	45	55	76	127	277	485	754	936	1316	1672	2070	2405	4550

Cast Steel Gate Valve

Class 900~1500

Figure No. GA9RCB5 GA15RCB5
GA9BCB5 GA15BCB5
GA9JCB5 GA15JCB5



STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR. WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A216 GR.WCB+Stellite Faced
4	Stem	ASTM A182 GR.F6a
5	Ring Joint	Soft Iron
6	Bonnet	ASTM A216 GR.WCB
7	Bonnet Bolt Nuts	ASTM A194 GR.2H
8	Bonnet Bolts	ASTM A193 GR.B7
9	Backseat Bushing	ASTM A276 Type 410
10	Stem Packing	Braided Graphite & Die formed Graphite Ring
11	Eye Bolt Pins	Carbon Steel
12	Gland Eye Bolts	ASTM A307 GR.B
13	Gland	ASTM A276 Type 410
14	Gland Flange	ASTM A216 GR.WCB
15	Eye Bolt Nuts	ASTM A194 GR.2H
16	Grease Nipple	Carbon Steel
17	Stem Nut	ASTM A439 GR.D-2
18	Retaining Nut	Carbon Steel
19	Handwheel	Ductile Iron
20	Handwheel Nut	Carbon Steel
21	Screw	Carbon Steel
22	Yoke	ASTM A 216 GR.WCB
23	Yoke Pan Bolt Nuts	ASTM A563
24	Yoke Pan Bolts	ASTM A307 B
25	Bearing	Steel
26	Lantern Ring On Request	ASTM A276 Type 410

FEATURES

- OS & Y, Rising Stem
- Bolted Bonnet
- Flexible Wedge
- Extended Bonnet For Cryogenic Services
- By Pass On Request
- Locking Device Optional

SPECIFICATIONS

Design	ASME B16.34/API 600
Face To Face	ASME B16.10
End To End	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

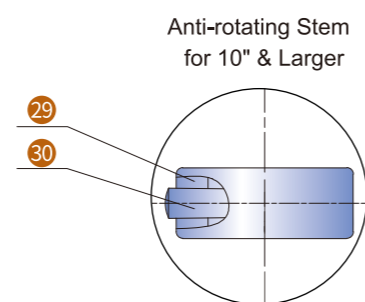
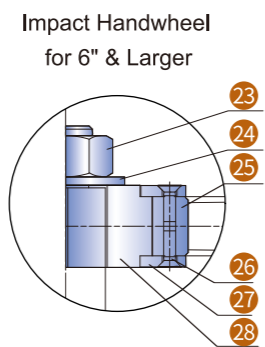
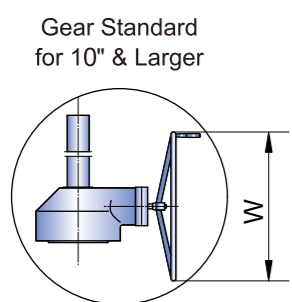
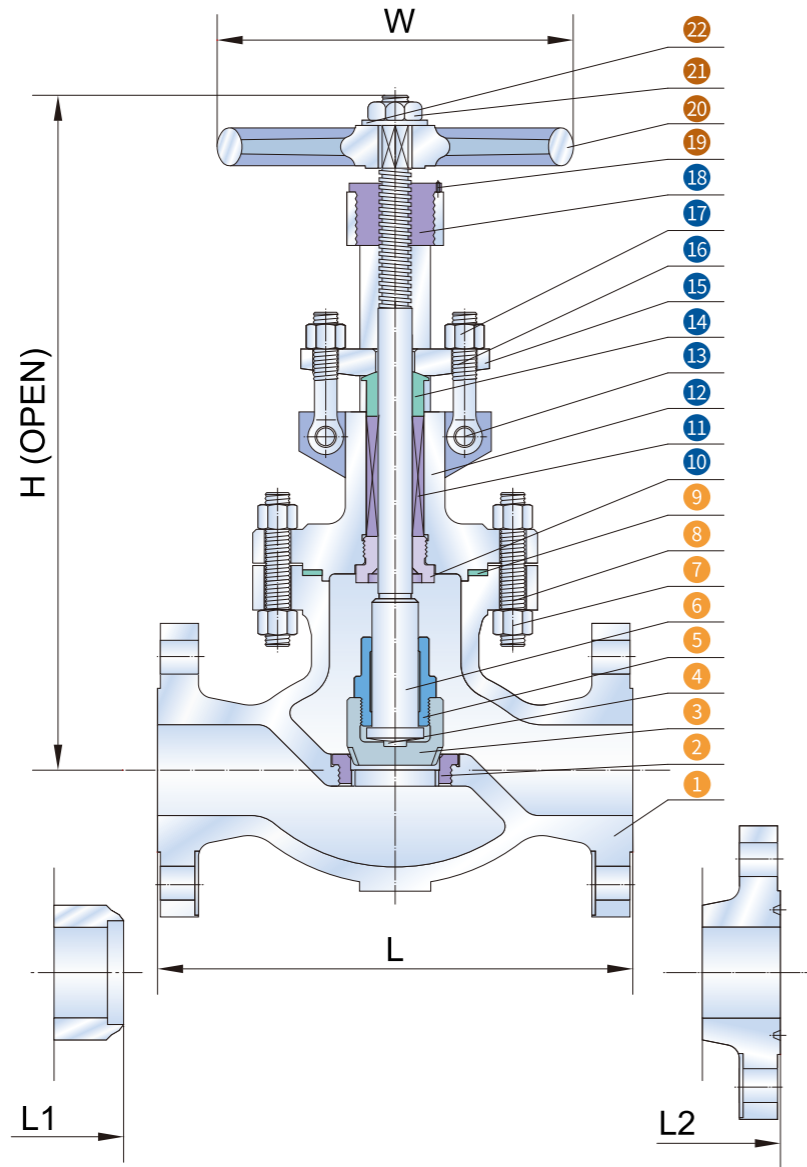
Dimensions And Weights		CLASS 900							
SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"
	mm	50	65	80	100	150	200	250	300
L/L1	in	14.50	16.50	15.00	18.00	24.00	29.00	33.00	38.00
	mm	368	419	381	457	610	737	838	965
L2	in	14.62	16.62	15.12	18.12	24.12	29.12	33.12	38.12
	mm	371	422	384	460	613	740	841	968
H	in	24.41	27.76	29.02	32.48	41.93	47.99	52.95	72.44
	mm	556	705	625	710	940	1174	1436	1669
W	in	12	14	14	16	20	24	24	24
	mm	300	350	350	400	560	640	610	610
WEIGHT RF	Kg	95	108	125	194	378	635	900	1550

Dimensions And Weights		CLASS 1500							
SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"
	mm	50	65	80	100	150	200	250	300
L/L1	in	14.50	16.50	18.50	21.50	27.75	32.75	39.00	44.50
	mm	368	419	470	546	705	832	991	1130
L2	in	14.62	16.62	18.62	21.62	28.00	33.13	39.38	45.12
	mm	371	422	473	549	711	842	1000	1146
H	in	27.36	27.76	30.31	34.33	42.99	55.12	62.99	72.44
	mm	556	705	770	765	994	1311	1639	1840
W	in	14	16	16	20	24	24	24	24
	mm	300	400	400	500	460	610	610	610
WEIGHT RF	Kg	95	128	181	275	627	1000	2200	3300

Cast Steel Globe Valve

Class 150

Figure No. GL1RCB8 / GL1BCB8 / GL1JCB8



STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR. WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A105+13Cr Faced
4	Disc Thrust Plate	ASTM A276 Type 420
5	Disc Nut	ASTM A276 Type 410
6	Stem	ASTM A182 GR.F6a
7	Bonnet Bolt Nuts	ASTM A194 GR.2H
8	Bonnet Bolts	ASTM A193 GR.B7
9	Gasket	SS+Graphite
10	Backseat Bushing	ASTM A276 Type 410
11	Stem Packing	Braided Graphite & Die formed Graphite Ring
12	Bonnet	ASTM A216 GR.WCB
13	Eye Bolt Pins	Carbon Steel
14	Gland	ASTM A276 Type 410
15	Gland Flange	ASTM A216 GR.WCB
16	Gland Eye Bolts	ASTM A307 GR.B
17	Eye Bolt Nuts	ASTM A563
18	Yoke Bush	ASTM A439 GR.D-2
19	Screw	Carbon Steel
20	Handwheel	Ductile Iron
21	Handwheel Nut	Carbon Steel
22	Washer	Carbon Steel
23	Handwheel Nut	Carbon Steel
24	Washer	Carbon Steel
25	Handwheel	Carbon Steel
26	Screw	Carbon Steel
27	Baffle	Carbon Steel
28	Impact Block	Carbon Steel
29	Guide Block	Stainless Steel
30	Pin	Stainless Steel

FEATURES

- OS & Y, Rising Stem
- Bolted Bonnet
- Conic Disc
- Extended Bonnet For Cryogenic Services
- Impact Handwheel Optional
- Gear Optional

SPECIFICATIONS

Design	ASME B16.34/BS 1873
Face To Face	ASME B16.10
End To End	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

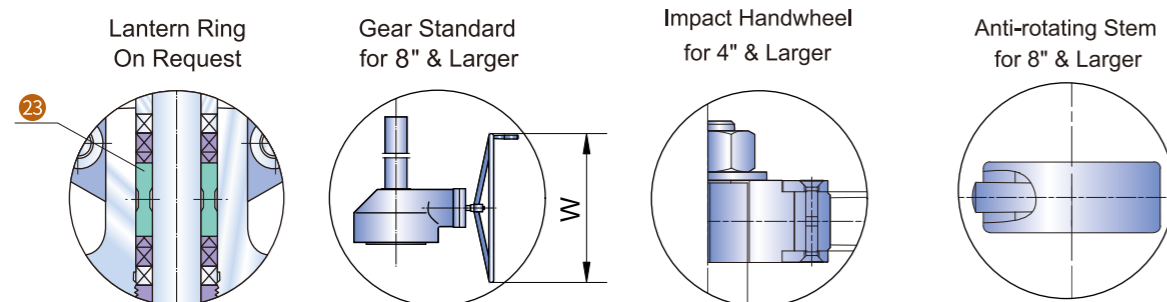
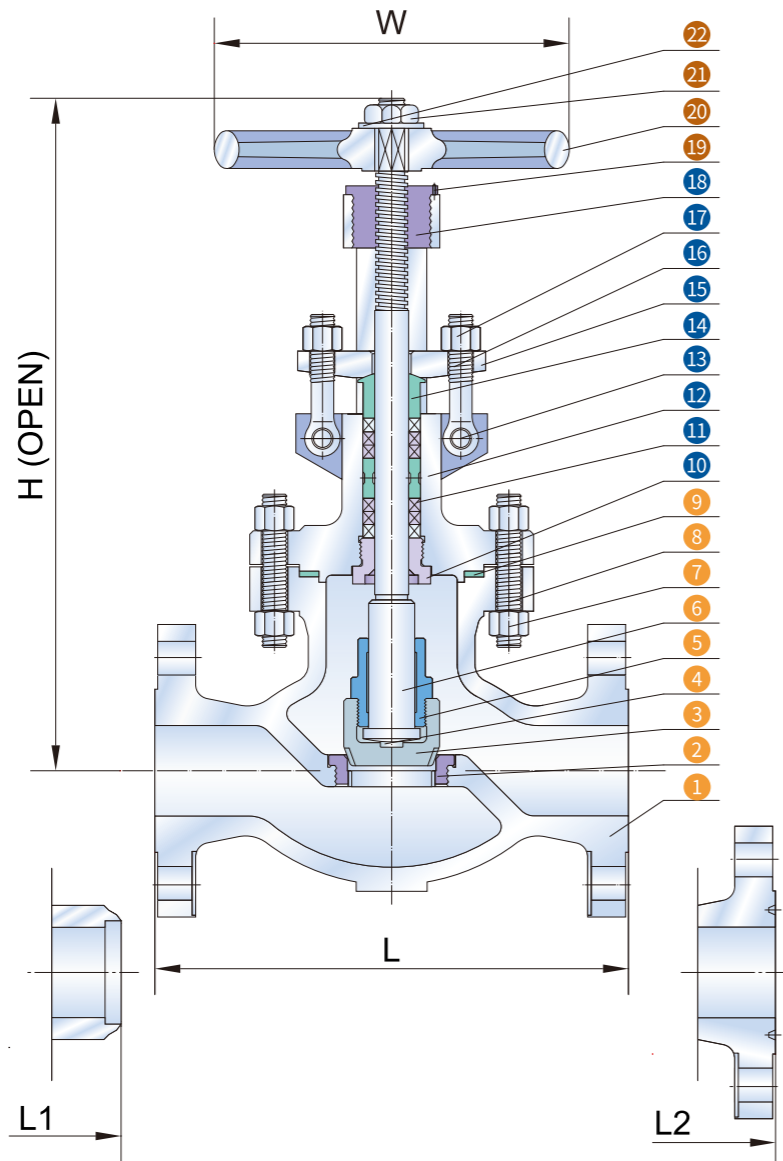
Dimensions And Weights

SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"	14"	16"	18"
	mm	50	65	80	100	150	200	250	300	350	400	450
L/L1	in	8.00	8.50	9.50	11.50	16.00	19.50	24.50	27.50	31.00	36.00	38.50
	mm	203	216	241	292	406	495	622	698	787	914	978
L2	in	8.50	9.00	10.00	12.00	16.50	20.00	25.00	28.00	31.50	36.50	39.00
	mm	216	229	254	305	419	508	635	711	800	927	991
H	in	13.58	16.34	15.94	19.09	20.47	23.62	30.00	33.94	38.58	47.05	51.18
	mm	355	405	405	472	575	645	813	943	1014	1151	1300
W	in	8	8	10	12	14	18	20	25	25	24	24
	mm	200	200	250	300	350	450	500	640	640	610	610
WEIGHT RF	Kg	22	32	38	62	104	159	308	539	610	880	1150

Cast Steel Globe Valve

Class 300

Figure No. GL3RCB8 / GL3BCB8 / GL3JCB8



STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR. WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A105+13Cr Faced
4	Disc Thrust Plate	ASTM A276 Type 420
5	Disc Nut	ASTM A276 Type 410
6	Stem	ASTM A182 GR.F6a
7	Bonnet Bolt Nuts	ASTM A194 GR.2H
8	Bonnet Bolts	ASTM A193 GR.B7
9	Gasket	SS+Graphite
10	Backseat Bushing	ASTM A276 Type 410
11	Stem Packing	Braided Graphite & Die formed Graphite Ring
12	Bonnet	ASTM A216 GR.WCB
13	Eye Bolt Pins	Carbon Steel
14	Gland	ASTM A276 Type 410
15	Gland Flange	ASTM A216 GR.WCB
16	Gland Eye Bolts	ASTM A307 GR.B
17	Eye Bolt Nuts	ASTM A563
18	Yoke Bush	ASTM A439 GR.D-2
19	Screw	Carbon Steel
20	Handwheel	Ductile Iron
21	Handwheel Nut	Carbon Steel
22	Washer	Carbon Steel
23	Lantern Ring On Request	ASTM A276 Type 410

FEATURES

- OS & Y, Rising Stem
- Bolted Bonnet
- Conic Disc
- Extended Bonnet For Cryogenic Services
- Impact Handwheel Optional
- Gear Optional

SPECIFICATIONS

Design	ASME B16.34/BS 1873
Face To Face	ASME B16.10
End To End	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

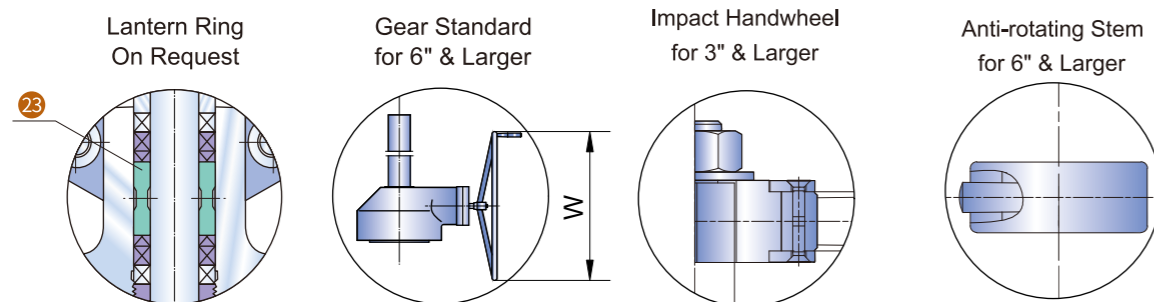
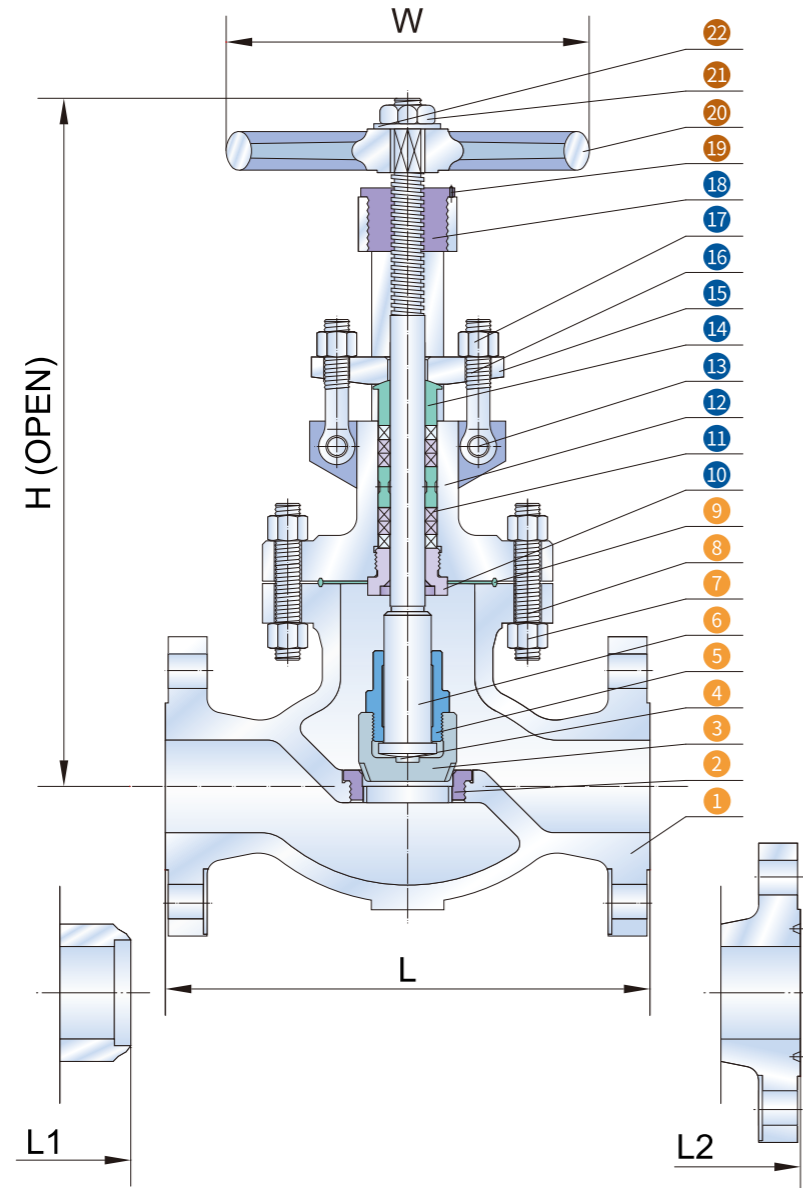
Dimensions And Weights

SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"	14"
	mm	50	65	80	100	150	200	250	300	350
L/L1	in	10.50	11.50	12.50	14.00	17.50	22.00	24.50	28.00	33.00
	mm	267	292	318	356	445	559	622	711	838
L2	in	11.12	12.12	13.12	14.62	18.12	22.62	25.12	28.62	33.62
	mm	283	308	333	371	460	575	638	727	854
H	in	14.57	18.66	17.32	20.67	24.41	35.83	37.36	40.63	42.91
	mm	380	435	445	520	650	895	880	1070	1090
W	in	8	10	10	14	18	22	24	25	24
	mm	200	250	250	350	450	560	600	640	610
WEIGHT RF	Kg	28	48	56	82	154	240	319	632	975

Cast Steel Globe Valve

Class 600

Figure No. GL6RCB8 / GL6BCB8 / GL6JCB8



STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR. WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A105+13Cr Faced
4	Disc Thrust Plate	ASTM A276 Type 420
5	Disc Nut	ASTM A276 Type 410
6	Stem	ASTM A182 GR.F6a
7	Bonnet Bolt Nuts	ASTM A194 GR.2H
8	Bonnet Bolts	ASTM A193 GR.B7
9	Gasket, Ring Joint	Soft Iron
10	Backseat Bushing	ASTM A276 Type 410
11	Stem Packing	Braided Graphite & Die formed Graphite Ring
12	Bonnet	ASTM A216 GR.WCB
13	Eye Bolt Pins	Carbon Steel
14	Gland	ASTM A276 Type 410
15	Gland Flange	ASTM A216 GR.WCB
16	Gland Eye Bolts	ASTM A307 GR.B
17	Eye Bolt Nuts	ASTM A563
18	Yoke Bush	ASTM A439 GR.D-2
19	Screw	Carbon Steel
20	Handwheel	Ductile Iron
21	Handwheel Nut	Carbon Steel
22	Washer	Carbon Steel
23	Lantern Ring On Request	ASTM A276 Type 410

FEATURES

- OS & Y, Rising Stem
- Bolted Bonnet
- Conic Disc
- Extended Bonnet For Cryogenic Services
- Impact Handwheel Optional
- Gear Optional

SPECIFICATIONS

Design	ASME B16.34/BS 1873
Face To Face	ASME B16.10
End To End	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

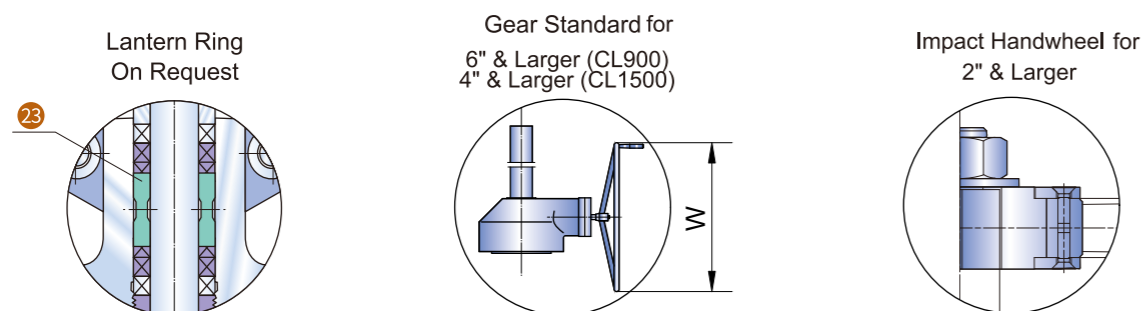
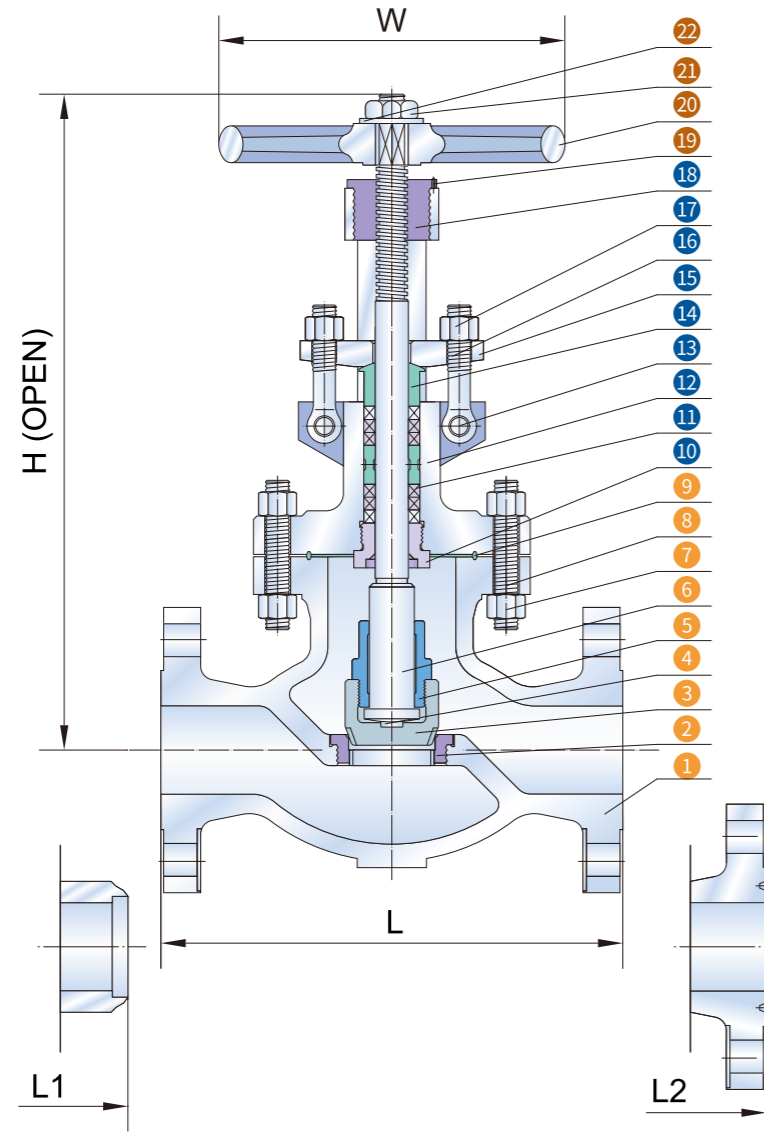
Dimensions And Weights

SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"
	mm	50	65	80	100	150	200	250	300
L/L1	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	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	in	18.19	21.26	23.03	26.38	34.88	36.69	40.94	50.39
	mm	468	540	585	635	805	990	1156	1194
W	in	10	10	12	18	20	25	24	24
	mm	250	250	350	450	500	640	610	810
WEIGHT RF	Kg	36	70	85	123	404	450	700	900

Cast Steel Globe Valve

Class 900~1500

Figure No. GL9RCB5 / GL9BCB5 / GL9JCB5
GL15RCB5 / GL15BCB5 / GL15JCB5



STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR. WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A105+Stellite Faced
4	Disc Thrust Plate	ASTM A276 Type 420
5	Disc Nut	ASTM A276 Type 410
6	Stem	ASTM A182 GR.F6a
7	Bonnet Bolt Nuts	ASTM A194 GR.2H
8	Bonnet Bolts	ASTM A193 GR.B7
9	Ring Joint	Soft Iron
10	Backseat Bushing	ASTM A276 Type 410
11	Stem Packing	Braided Graphite & Die formed Graphite Ring
12	Bonnet	ASTM A216 GR.WCB
13	Eye Bolt Pins	Carbon Steel
14	Gland	ASTM A276 Type 410
15	Gland Flange	ASTM A216 GR.WCB
16	Gland Eye Bolts	ASTM A307 GR.B
17	Eye Bolt Nuts	ASTM A563
18	Yoke Bush	ASTM A439 GR.D-2
19	Screw	Carbon Steel
20	Handwheel	Ductile Iron
21	Handwheel Nut	Carbon Steel
22	Washer	Carbon Steel
23	Lantern Ring On Request	ASTM A276 Type 410

FEATURES

- OS & Y, Rising Stem
- Bolted Bonnet
- Conic Disc
- Extended Bonnet For Cryogenic Services
- Impact Handwheel Optional
- Gear Optional

SPECIFICATIONS

Design	ASME B16.34/BS 1873
Face To Face	ASME B16.10
End To End	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

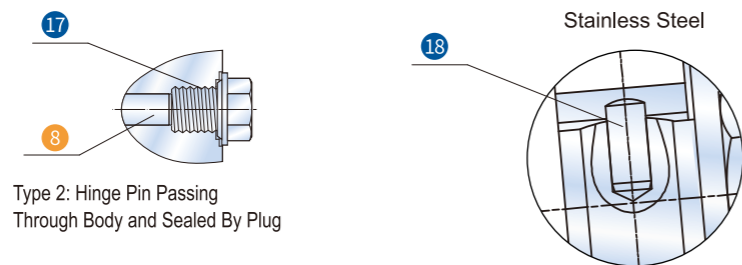
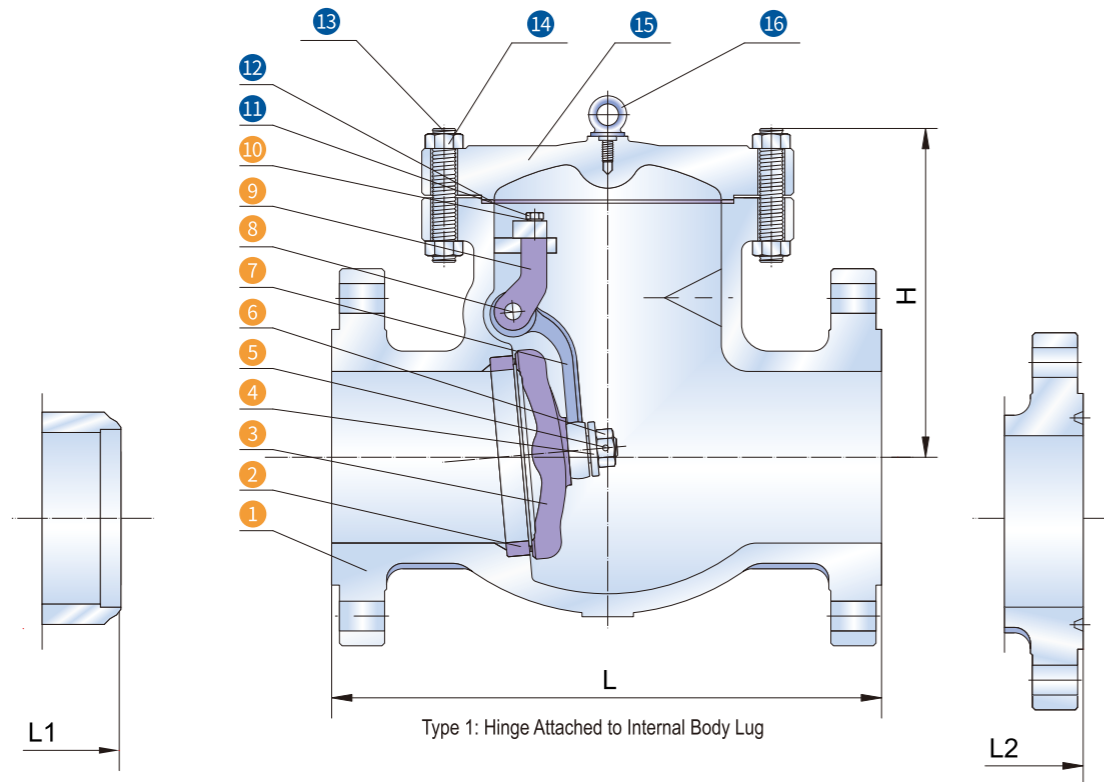
Dimensions And Weights			CLASS 900				
SIZE	in	2"	2.5"	3"	4"	6"	8"
	mm	50	65	80	100	150	200
L/L1	in	14.50	16.50	15.00	18.00	24.00	29.00
	mm	368	419	381	457	610	737
L2	in	14.62	16.62	15.12	18.12	24.12	29.12
	mm	371	422	384	460	613	740
H	in	23.62	25.98	26.18	31.50	43.62	46.61
	mm	530	660	598	723	860	1184
W	in	14	14	18	20	24	24
	mm	350	350	450	500	610	610
WEIGHT RF	Kg	95	138	122	195	435	730

Dimensions And Weights			CLASS 1500				
SIZE	in	2"	2.5"	3"	4"	6"	8"
	mm	50	65	80	100	150	200
L/L1	in	14.50	16.50	18.50	21.50	27.75	32.75
	mm	368	419	470	546	705	832
L2	in	14.62	16.62	18.62	21.62	28.00	33.13
	mm	371	422	473	549	711	841
H	in	25.98	25.98	30.31	33.46	45.08	52.95
	mm	530	660	645	839	1015	1270
W	in	14	14	20	22	24	24
	mm	350	350	500	560	610	610
WEIGHT RF	Kg	95	138	250	435	540	970

Cast Steel Swing Check Valve

Class 150

Figure No. CH1RCB8 / CH1BCB8 / CH1JCB8
CH1RCB8-T / CH1BCB8-T / CH1JCB8-T



STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR. WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A216 GR.WCB+13Cr Faced
4	Disc Washer	Stainless Steel
5	Disc Nut Pin	Stainless Steel
6	Disc Nut	Stainless Steel
7	Hinge	ASTM A216 GR.WCB
8	Hinge Pin	ASTM A182 GR.F6a
9	Bearing Bracket	ASTM A216 GR.WCB
10	Spring Washer	Carbon Steel
11	Hex,Bolt	Carbon Steel
12	Gasket	SS+Graphite
13	Cover Bolt	ASTM A193 GR.B7
14	Cover Bolt Nut	ASTM A194 GR.2H
15	Cover	ASTM A216 GR.WCB
16	Eye Bolt	Carbon Steel
17	Plug	Stainless Steel
18	Pin	Stainless Steel

FEATURES

- Bolted Cover
- Swing Type Disc
- Type 1 Full Range Standard
- Type 2 Option Design
- 6" & Larger With Eye Bolt
- By Pass On Request
- Lever & Weight Optional

SPECIFICATIONS

Design	ASME B16.34/BS 1868
Face To Face	ASME B16.10
End To End	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

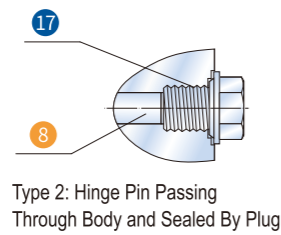
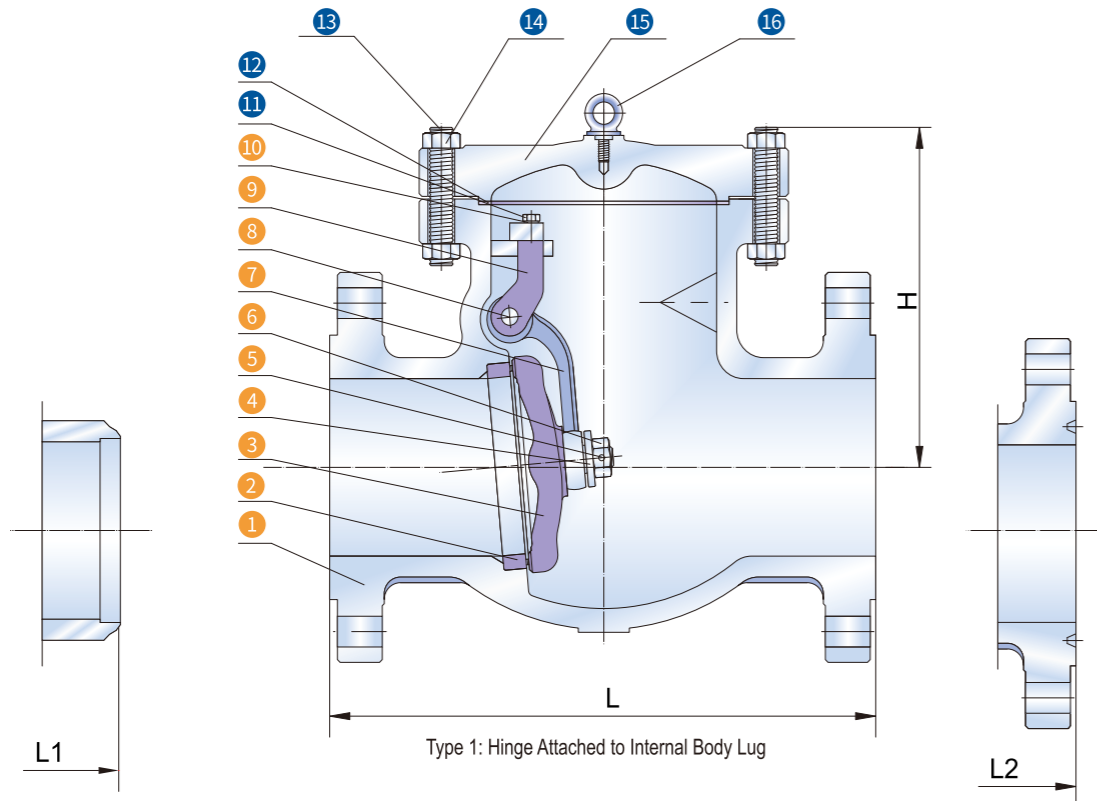
Dimensions And Weights

SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	mm	50	65	80	100	150	200	250	300	350	400	450	500	600
L/L1	in	8.00	8.50	9.50	11.50	14.00	19.50	24.50	27.50	31.00	34.00	38.50	38.50	51.00
	mm	203	216	241	292	356	495	622	699	787	864	978	978	1295
L2	in	8.50	9.00	10.00	12.00	14.50	20.00	25.00	28.00	31.50	34.50	39.00	39.00	51.50
	mm	216	229	254	305	368	508	635	711	800	876	991	991	1308
H	in	6.10	6.70	7.09	8.66	10.55	12.20	14.57	16.93	17.52	19.49	20.67	22.44	25.39
	mm	155	170	180	220	268	310	370	430	445	495	525	570	645
WEIGHT RF	Kg	19	26	29	46	77	137	220	298	428	525	775	835	1180

Cast Steel Swing Check Valve

Class 300

Figure No. CH3RCB8 / CH3BCB8 / CH3JCB8
CH3RCB8-T / CH3BCB8-T / CH3JCB8-T



STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR. WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A216 GR.WCB+13Cr Faced
4	Disc Washer	Stainless Steel
5	Disc Nut Pin	Stainless Steel
6	Disc Nut	Stainless Steel
7	Hinge	ASTM A216 GR.WCB
8	Hinge Pin	ASTM A182 GR.F6a
9	Bearing Bracket	ASTM A216 GR.WCB
10	Washer	Carbon Steel
11	Hex,Bolt	Carbon Steel
12	Gasket	SS+Graphite
13	Cover Bolt	ASTM A193 GR.B7
14	Cover Bolt Nut	ASTM A194 GR.2H
15	Cover	ASTM A216 GR.WCB
16	Eye Bolt	Carbon Steel
17	Plug	Stainless Steel

FEATURES

- Bolted Cover
- Swing Type Disc
- Type 1 Full Range Standard
- Type 2 Option Design
- 3" & Larger With Eye Bolt
- By Pass On Request
- Lever & Weight Optional

SPECIFICATIONS

Design	ASME B16.34/BS 1868
Face To Face	ASME B16.10
End To End	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

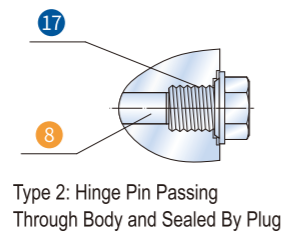
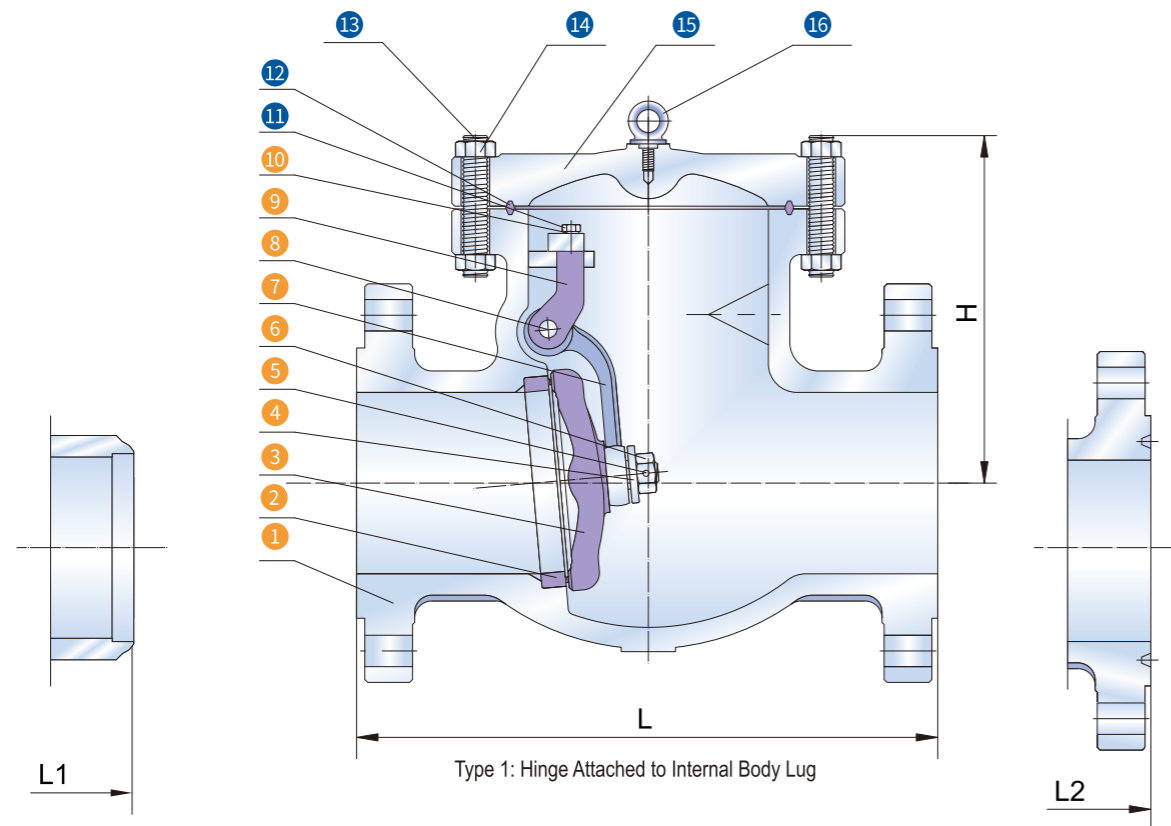
Dimensions And Weights

SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
mm	50	65	80	100	150	200	250	300	350	400	450	500	600	
L/L1	in	10.50	11.50	12.50	14.00	17.50	21.00	24.50	28.00	33.00	34.00	38.50	40.00	53.00
mm	267	292	318	356	445	533	622	711	838	864	978	1016	1346	
L2	in	11.12	12.12	13.12	14.62	18.12	21.62	25.12	28.62	33.62	34.62	39.12	40.75	53.88
mm	283	308	333	371	460	549	638	727	854	879	994	1035	1368	
H	in	6.89	7.28	7.87	9.25	11.10	13.39	15.15	18.11	19.09	20.87	23.62	25.20	29.53
mm	175	185	200	235	282	340	385	460	485	530	600	640	750	
WEIGHT RF	Kg	26	30	39	69	125	210	300	470	680	740	1025	1320	1960

Cast Steel Swing Check Valve

Class 600

Figure No. CH6RCB8 / CH6BCB8 / CH6JCB8
CH6RCB8-T / CH6BCB8-T / CH6JCB8-T



STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR. WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A216 GR.WCB+13Cr Faced
4	Disc Washer	Stainless Steel
5	Disc Nut Pin	Stainless Steel
6	Disc Nut	Stainless Steel
7	Hinge	ASTM A216 GR.WCB
8	Hinge Pin	ASTM A182 GR.F6a
9	Bearing Bracket	ASTM A216 GR.WCB
10	Spring Washer	Carbon Steel
11	Hex,Bolt	Carbon Steel
12	Ring Joint	Soft Iron
13	Cover Bolt	ASTM A193 GR.B7
14	Cover Bolt Nut	ASTM A194 GR.2H
15	Cover	ASTM A216 GR.WCB
16	Eye Bolt	Carbon Steel
17	Plug	Stainless Steel

FEATURES

- Bolted Cover
- Swing Type Disc
- Type 1 Full Range Standard
- Type 2 Option Design
- With Eye Bolt
- By Pass On Request
- Lever & Weight Optional

SPECIFICATIONS

Design	ASME B16.34/BS 1868
Face To Face	ASME B16.10
End To End	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

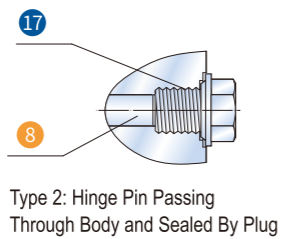
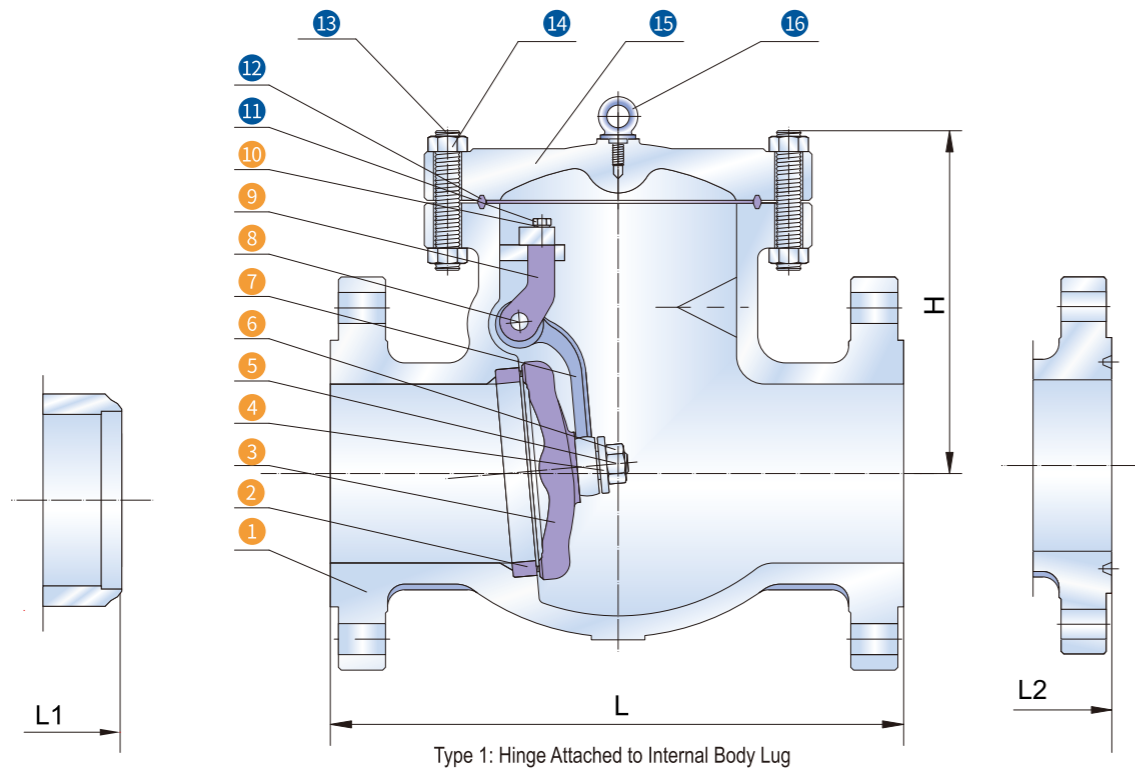
Dimensions And Weights

SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"
mm	50	65	80	100	150	200	250	300	350	400	450	500	600	
L/L1	in	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
mm	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	
L2	in	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
mm	295	333	359	435	562	663	790	841	892	994	1095	1200	1407	
H	in	7.48	8.07	9.13	10.43	13.39	15.75	19.29	21.06	23.43	25.31	28.35	29.37	37.80
mm	190	205	232	265	340	400	490	535	595	643	720	746	960	
WEIGHT RF	Kg	36	49	61	105	217	332	560	875	944	1220	1620	2120	3100

Cast Steel Swing Check Valve

Class 900~1500

Figure No. CH9RCB5 / CH9BCB5 / CH9JCB5 CH15RCB5 / CH15BCB5 / CH15JCB5
 CH9RCB5-T / CH9BCB5-T / CH9JCB5-T CH15RCB5-T / CH15BCB5-T / CH15JCB5-T



STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR. WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A216 GR.WCB+Stellite Faced
4	Disc Washer	Stainless Steel
5	Disc Nut Pin	Stainless Steel
6	Disc Nut	Stainless Steel
7	Hinge	ASTM A216 GR.WCB
8	Hinge Pin	ASTM A182 GR.F6a
9	Bearing Bracket	ASTM A216 GR.WCB
10	Washer	Carbon Steel
11	Hex,Bolt	Carbon Steel
12	Ring Joint	Soft Iron
13	Cover Bolt	ASTM A193 GR.B7
14	Cover Bolt Nut	ASTM A194 GR.2H
15	Cover	ASTM A216 GR.WCB
16	Eye Bolt	Carbon Steel
17	Plug	Stainless Steel

FEATURES

- Bolted Cover
- Swing Type Disc
- Type 1 Full Range Standard
- Type 2 Option Design
- With Eye Bolt
- By Pass On Request
- Lever & Weight Optional

SPECIFICATIONS

Design	ASME B16.34/BS 1868
Face To Face	ASME B16.10
End To End	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

Dimensions And Weights		CLASS 900							
SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"
	mm	50	65	80	100	150	200	250	300
L/L1	in	14.50	16.50	15.00	18.00	24.00	29.00	33.00	38.00
	mm	368	419	381	457	610	737	838	965
L2	in	14.62	16.62	15.12	18.12	24.12	29.12	33.12	38.12
	mm	371	422	384	460	613	740	841	968
H	in	10.75	11.81	10.55	12.17	14.41	17.72	20.31	30.51
	mm	273	300	268	309	366	450	516	775
WEIGHT RF	kg	70	100	91	150	305	510	810	1120

Dimensions And Weights		CLASS 1500							
SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"
	mm	50	65	80	100	150	200	250	300
L/L1	in	14.50	16.50	18.50	21.50	27.75	32.75	39.00	44.50
	mm	368	419	470	546	705	832	991	1130
L2	in	14.62	16.62	18.62	21.62	28.00	33.12	39.38	45.12
	mm	371	422	473	549	711	841	1000	1146
H	in	11.65	11.81	13.43	16.22	20.12	26.77	29.76	33.74
	mm	296	300	341	412	511	680	756	857
WEIGHT RF	kg	70	100	150	245	550	1010	1550	2280

Materials Of Parts

CAST STEEL GATE VALVE STANDARD MATERIALS OF PARTS

ITEM	PART NAME	CARBON STEEL			ALLOY STEEL			STAINLESS STEEL				
1	Body	A216 WCB	A352 LCB	A352 LCC	A217 WC1	A217 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
2	Seat Ring	A105	A350 LF2		A182 F1	A182 F11	A182 F5	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F321
3	Gate	A216 WCB	A352 LCB	A352 LCC	A217 WC1	A217 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
4	Stem	A182 F6a	A182 F316		A182 F6a	A182 F6a	A182 F6a	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F321
5	Gasket CL150-300	304+Graphite					316+Graphite					
	CL600-2500 Ring Joint	Soft Iron	316		Soft Iron							316
6	Bonnet	A216 WCB	A352 LCB	A352 LCC	A217 WC1	A217 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
7	Bonnet Bolt Nuts	A194 2H	A194 7M		A194 2H	A194 7						A194 8M
8	Bonnet Bolts	A193 B7	A320 L7M		A193 B7	A193 B16						A193 B8M CL2
9	Backseat Bushing	A276 410	A276 316		A276 410			A276 304	A276 316	A276 304L	A276 316L	A276 321
10	Stem Packing	Braided Graphite & Die formed Graphite Ring										
11	Eye Bolt Pins	Carbon Steel					Stainless Steel					
12	Gland Eye Bolts	A193 B7M					A193 B8M					
13	Gland	A276 410	A276 316		A276 410			A276 304	A276 316	A276 304	A276 316	A276 316
14	Gland Flange	A216 WCB or A105					A351 CF8 or 304					
15	Eye Bolt Nuts	A194 2HM					A194 8M					
16	Grease Nipple	Carbon Steel					Stainless Steel					
17	Stem Nut	A439 D-2										
18	Retaining Nut	Carbon Steel					Carbon Steel					
19	Handwheel	Ductile Iron										
20	Handwheel Nut	Carbon Steel					Stainless Steel					
21	Screw	Carbon Steel					Stainless Steel					
22	Yoke	A216 WCB					A351 CF8					
23	Yoke Pan Bolt Nuts	A194 2H					A194 8M					
24	Yoke Pan Bolts	A193 B7					A193 B8M CL2					
25	Bearing	Steel					Steel					
26	Lantern Ring Request	A276 410	A276 316		A276 410			A276 304	A276 316	A276 304	A276 316	A276 316
27	Bypass Piping	A105	A350 LF2		A182 F1	A182 F11	A182 F5	A182 F304	A182 F316	A182 304L	A182 316L	A182 321
28	Bypass Valve Trim	Same API Trim Number as Main Valve										

CAST STEEL SWING CHECK VALVE STANDARD MATERIALS OF PARTS

ITEM	PART NAME	CARBON STEEL			ALLOY STEEL			STAINLESS STEEL				
1	Body	A216 WCB	A352 LCB	A352 LCC	A217 WC1	A217 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
2	Seat Ring	A105	A350 LF2		A182 F1	A182 F11	A182 F5	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F321
3	Disc	A216 WCB	A352 LCB	A352 LCC	A217 WC1	A217 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
4	Disc Washer	Stainless Steel					Stainless Steel					
5	Disc Nut Pin	Stainless Steel					Stainless Steel					
6	Disc Nut	Stainless Steel					Stainless Steel					
7	Hinge	A216 WCB	A352 LCB	A352 LCC	A217 WC1	A217 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
8	Hinge Pin	A276 410	A276 316			A276 410		A276 F304	A276 F316	A276 F304L	A276 F316L	A276 F321
9	Bearing Bracket	A216 WCB	A352 LCB	A352 LCC	A217 WC1	A217 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
10	Spring Washer	Carbon Steel					Stainless Steel					
11	Hex, Bolt	Carbon Steel					Stainless Steel					
12	Gasket CL150-300	304+Graphite					316+Graphite					
	CL600-2500 Ring Joint	Soft Iron	316		Soft Iron			304				316
13	Cover Bolt	A194 2H	A320 L7M		A193 B7	A193 B16						A193 B8M CL2
14	Cover Bolt Nut	A193 B7	A194 7M		A194 2H	A194 7						A194 8M
15	Cover	A216 WCB	A352 LCB	A352 LCC	A217 WC1	A217 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
16	Eye Bolt	Steel										
17	Pulg	Stainless Steel										

CAST STEEL GLOBE VALVE STANDARD MATERIALS OF PARTS

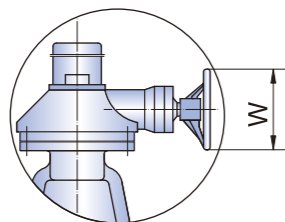
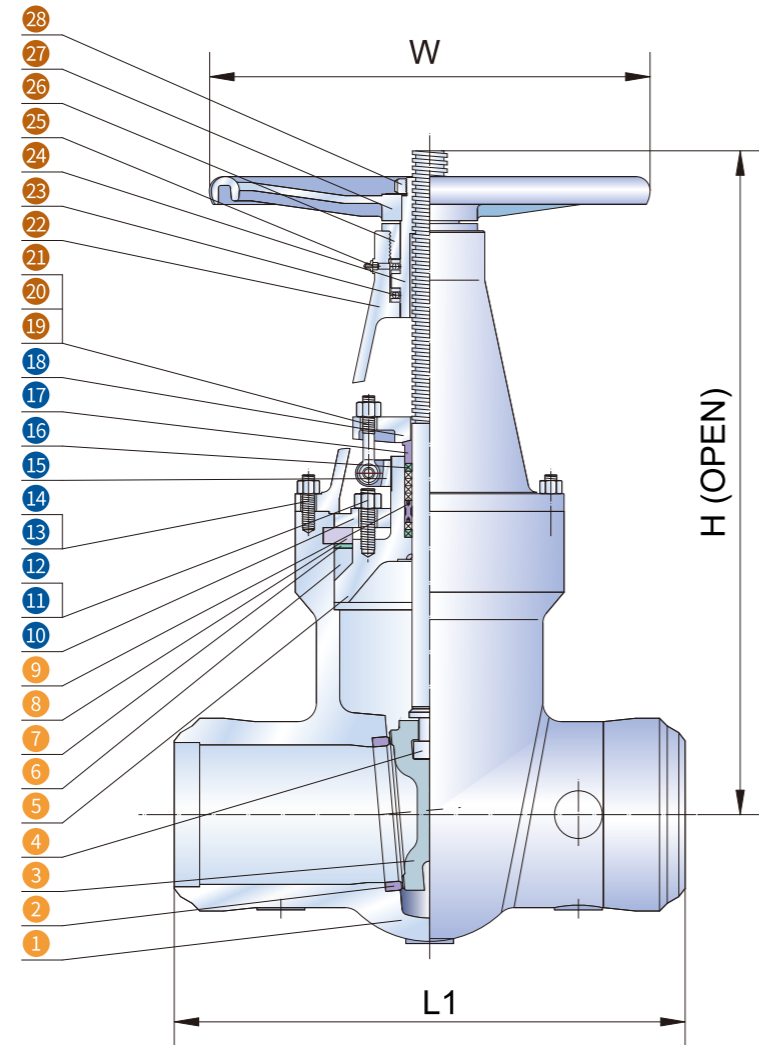
ITEM	PART NAME	CARBON STEEL			ALLOY STEEL			STAINLESS STEEL				
1	Body	A216 WCB	A352 LCB	A352 LCC	A217 WC1	A217 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
2	Seat Ring	A105	A350 LF2		A182 F1	A182 F11	A182 F5	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F321
3	Disc	A105	A350 LF2		A182 F1	A182 F11	A182 F5	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F321
4	Disc Thrust Plate	A276 420	A276 316			A276 420						
5	Disc Nut	A276 410	A276 316			A276 410		A276 304	A276 316	A276 304L	A276 316L	A276 321
6	Stem	A182 F6a	A182 F316			A182 F6a		A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F321
7	Bonnet Bolt Nuts	A194 2H	A194 7M		A194 2H	A194 7						A194 8M
8	Bonnet Bolts	A193 B7	A320 L7M		A193 B7	A193 B16						A193 B8M CL2
9	Gasket CL150-300	304+Graphite					316+Graphite					
	CL600-2500 Ring Joint	Soft Iron				316						316
10	Backseat Bushing	A276 410	A276 304			A276 410		A276 304	A276 316	A276 304L	A276 316L	A276 321
11	Stem Packing	Braided Graphite & Die formed Graphite Ring										
12	Bonnet	A216 WCB	A352 LCB	A352 LCC	A217 WC1	A217 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
13	Eye Bolt Pins	Carbon Steel					Stainless Steel					
14	Gland	A276 410	A276 304			A276 410		A276 304	A276 316	A276 304	A276 316	A276 316
15	Gland Flange	A216 WCB					A351 CF8					
16	Gland Eye Bolts	A193 B7M					A193 B8M					
17	Eye Bolt Nuts	A194 2HM					A194 8M					
18	Yoke Bush	A439D-2										
19	Screw	Carbon Steel					Stainless Steel					
20	Handwheel	Ductile Iron										
21	Handwheel Nut	Carbon Steel					Stainless Steel					
22	Washer	Carbon Steel					Stainless Steel					
23	Lantern Ring On Request	A276 410	A276 304			A276 410		A276 304	A276 316	A276 304	A276 316	A276 316
24	Bypass Piping	A105	A350 LF2		A182 F1	A182 F11	A182 F5	A182 304	A182 316	A182 304L	A182 316L	A182 321
25	Bypass Valve Trim	Same API Trim Number as Main Valve										

* Due to quick develop, we reserve the right to institute changes in material, design and specifications for all VIZA designed valves without prior notice.

Pressure Seal Gate Valve

Class 600~2500

Figure No. GA6RCB5-P /GA6BCB5-P / GA6JCB5-P
 GA9RCB5-P /GA9BCB5-P / GA9JCB5-P
 GA15RCB5-P / GA15BCB5-P / GA15JCB5-P
 GA25RCB5-P / GA25BCB5-P / GA25JCB5-P



Gear Standard for
 8" & Larger(CL600)
 8" & Larger(CL900)
 8" & Larger(CL1500)
 6" & Larger(CL2500)

STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR. WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A216 GR.WCB+Stellite Faced
4	Stem	ASTM A182 GR.F6a
5	Bonnet	ASTM A216 GR.WCB+Stellite Faced
6	Gasket	ASTM A182 GR.F304
7	Thrust Ring	ASTM A276 Type 410
8	Separate Ring	Carbon Steel
9	Lantern Ring On Request	ASTM A276 Tyoe 410
10	Bonnet Retainer	Carbon Steel
11	Bonnet Bolts	ASTM A193 GR.B7
12	Bonnet Bolt Nuts	ASTM A194 GR.2H
13	Yoke Bolts	ASTM A193 GR.B7
14	Yoke Bolt Nuts	ASTM A194 GR.2H
15	Gland Eye	ASTM A216 GR.WCB
16	Stem Packing	Braided Graphite & Die formed Graphite Ring
17	Gland	ASTM A276 Type 410
18	Gland Flange	ASTM A276 GR.WCB
19	Eye Bolt Pins	Carbon Steel
20	Gland Eye Bolts	ASTM A307 B
21	Eye Bolt Nuts	ASTM A563
22	Yoke	ASTM A216 GR.WCB
23	Bearing	Steel
24	Stem Nut	ASTM A439 GR.D-2
25	Grease Nipple	Carbon Steel
26	Retaining Nut	Carbon Steel
27	Handwheel	Ductile Iron
28	Handwheel Nut	Carbon Steel

FEATURES

- OS & Y, Rising Stem
- Pressure Seal
- Flexible Wedge
- Backseat Weld-Deposit
- By Pass On Request
- Locking Decice Optional
- Gear Optional

SPECIFICATIONS

Design	ASME B16.34
Face To Face	ASME B16.10
End To End	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

Dimensions And Weights		CLASS 600							
SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"
	mm	50	65	80	100	150	200	250	300
L (Short Pattern)	in	7.00	8.50	10.00	12.00	18.00	23.00	28.00	32.00
	mm	178	216	254	305	457	584	711	813
L (Long Pattern)	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	833
H	in	18.31	20.67	24.02	27.36	32.28	37.20	48.03	57.09
	mm	465	525	610	695	820	945	1220	1450
W	in	11.81	11.81	13.78	15.75	17.72	24.02	24.02	24.02
	mm	300	300	350	400	450	610	610	610
WEIGHT BW	kg	32	54	64	104	218	467	627	1060

Dimensions And Weights		CLASS 900							
SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"
	mm	50	65	80	100	150	200	250	300
L (Short Pattern)	in	8.50	10.00	12.00	14.00	20.00	26.00	31.00	36.00
	mm	216	254	305	356	508	660	787	914
L (Long Pattern)	in	14.50	16.50	15.00	18.00	24.00	29.00	33.00	39.00
	mm	368	419	381	457	610	737	838	965
H	in	24.00	30.00	30.71	33.86	40.35	50.63	60.63	70.28
	mm	610	762	780	860	1025	1286	1540	1785
W	in	12	14	14	16	20	24	24	24
	mm	300	350	350	400	500	610	610	610
WEIGHT BW	kg	50	72	86	110	202	530	782	1135

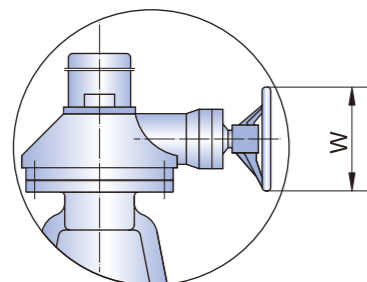
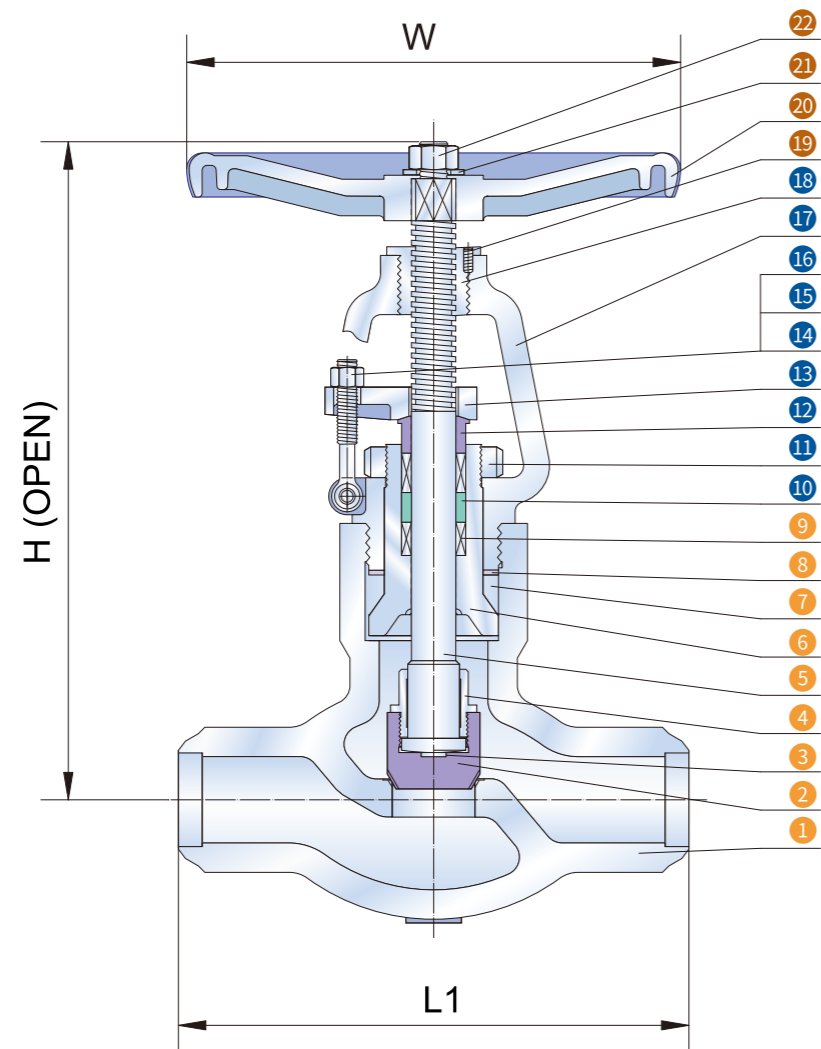
Dimensions And Weights		CLASS 1500							
SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"
	mm	50	65	80	100	150	200	250	300
L (Short Pattern)	in	8.50	10.00	12.00	16.00	22.00	28.00	34.00	39.00
	mm	216	254	305	406	559	711	864	991
L (Long Pattern)	in	14.50	16.50	18.50	21.50	27.75	32.75	39.00	44.50
	mm	368	419	470	546	705	832	991	1130
H	in	24.00	30.55	30.90	34.40	40.35	53.46	61.74	74.50
	mm	610	776	785	874	1025	1358	1568	1892
W	in	12	16	16	20	24	24	24	24
	mm	300	400	400	500	600	610	610	610
WEIGHT BW	kg	50	78	92	145	230	540	1060	1184

Dimensions And Weights		CLASS 2500							
SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"
	mm	50	65	80	100	150	200	250	300
L (Short Pattern)	in	11.00	13.00	14.50	18.00	24.00	30.00	36.00	41.00
	mm	279	330	368	457	610	762	914	1041
L (Long Pattern)	in	17.75	20.00	22.75	26.50	36.00	40.25	50.00	56.00
	mm	451	508	578	673	914	1022	1270	1422
H	in	24.00	30.55	30.90	34.40	44.02	53.46	66.14	74.50
	mm	610	776	785	874	1118	1358	1680	1892
W	in	14	18	18	20	24	24	24	24
	mm	350	450	450	500	610	610	610	610
WEIGHT BW	kg	60	112	122	192	480	830	1678	2320

Pressure Seal Globe Valve

Class 600~2500

Figure No. GL6RCB5-P / GL6BCB5-P / GL6JCB5-P
 GL9RCB5-P / GL9BCB5-P / GL9JCB5-P
 GL15RCB5-P / GL15BCB5-P / GL15JCB5-P
 GL25RCB5-P / GL25BCB5-P / GL25JCB5-P



Gear Standard for
 6" & Larger(CL600)
 6" & Larger(CL900)
 6" & Larger(CL1500)
 4" & Larger(CL2500)

STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR. WCB+Stellite Faced
2	Disc	ASTM A105+Stellite Faced
3	Disc Thrust Plate	ASTM A276 Type 420
4	Disc Nut	ASTM A276 Type 410
5	Stem	ASTM A182 GR.F6a
6	Bonnet	ASTM A216 GR. WCB+Stellite Faced
7	Gasket	ASTM A182 GR.F304
8	Thrust Ring	ASTM A276 Tyoe 410
9	Separate Ring	Braided Graphite & Die formed Graphite Ring
10	Lantern Ring	ASTM A276 Type 410
11	Bonnet Retainer	Carbon Steel
12	Gland	ASTM A276 Type 410
13	Gland Flange	ASTM A216 GR.WCB
14	Eye Bolt Pins	Carbon Steel
15	Gland Eye Bolts	ASTM A193 GR.B7
16	Eye Bolt Nuts	ASTM A194 GR.2H
17	Yoke	ASTM A216 GR.WCB
18	Yoke Bush	ASTM A439 GR.D-2
19	Screw	Carbon Steel
20	Handwheel	Ductile Iron
21	Washer	Carbon Steel
22	Handwheel Nut	ASTM A194 GR.2

FEATURES

- OS & Y, Rising Stem
- Pressure Seal
- Conic Disc
- Backseat Weld-Deposit
- By Pass On Request
- Locking Device Optional
- Gear Optional

SPECIFICATIONS

Design	ASME B16.34
Face To Face	ASME B16.10
End To End	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

Dimensions And Weights		CLASS 600					
SIZE	in	2"	2.5"	3"	4"	6"	8"
	mm	50	65	80	100	150	200
L (Short Pattern)	in	7.00	8.50	10.00	12.00	18.00	23.00
	mm	178	216	254	305	457	584
L (Long Pattern)	in	11.50	13.00	14.00	17.00	22.00	26.00
	mm	292	330	356	432	559	660
H	in	18.19	21.26	23.03	26.57	31.89	38.58
	mm	462	540	585	675	810	980
W	in	9.84	11.84	17.72	18.11	24.02	24.02
	mm	250	300	450	460	610	610
WEIGHT BW	Kg	45	56	76	125	290	581

Dimensions And Weights		CLASS 900					
SIZE	in	2"	2.5"	3"	4"	6"	8"
	mm	50	65	80	100	150	200
L (Short Pattern)	in	10.00	12.00	14.00	20.00	26.00	
	mm	254	305	356	508	660	
L (Long Pattern)	in	14.50	16.50	18.00	24.00	29.00	
	mm	368	419	457	610	737	
H	in	24.41	25.40	28.50	33.40	48.23	53.15
	mm	620	645	724	848	1225	1350
W	in	14	14	18	20	24	24
	mm	350	350	450	500	610	610
WEIGHT BW	Kg	62	86	86	140	380	948

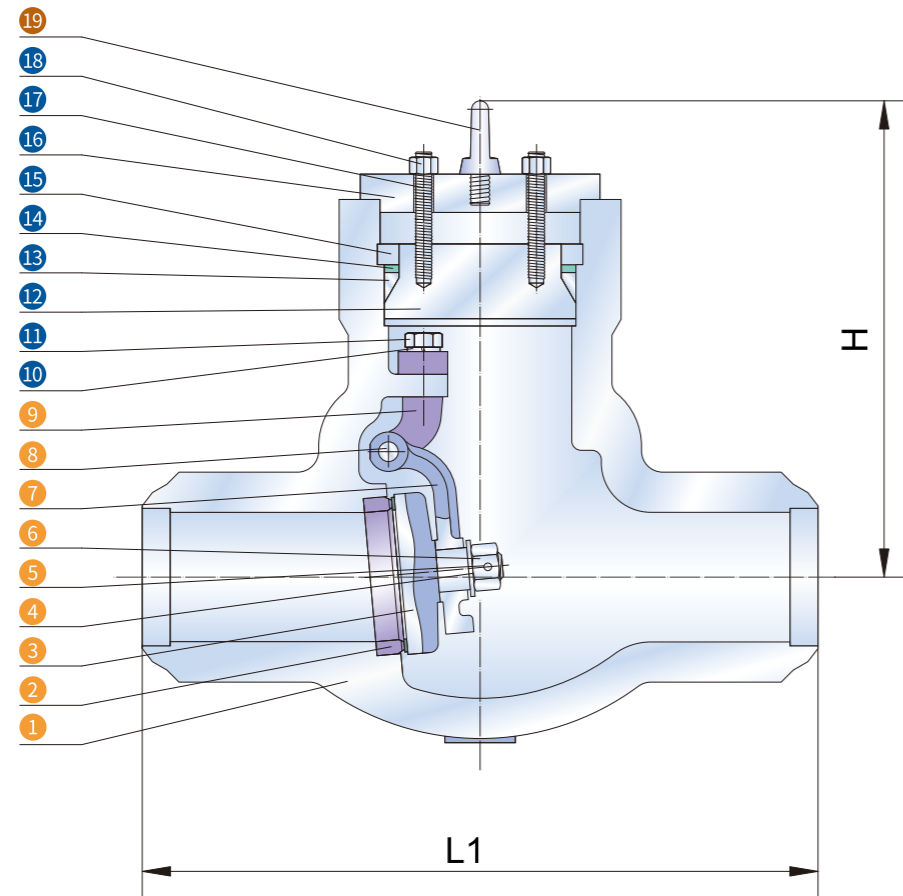
Dimensions And Weights		CLASS 1500					
SIZE	in	2"	2.5"	3"	4"	6"	8"
	mm	50	65	80	100	150	200
L (Short Pattern)	in	8.50	10.00	12.00	16.00	22.00	28.00
	mm	216	254	305	406	559	711
L (Long Pattern)	in	14.50	16.50	18.50	21.50	27.75	32.75
	mm	368	419	470	546	705	832
H	in	24.41	25.40	32.68	33.86	48.50	70.24
	mm	620	645	830	860	1232	1784
W	in	14	14	20	22	24	24
	mm	350	350	500	560	610	610
WEIGHT BW	Kg	62	86	112	158	765	1494

Dimensions And Weights		CLASS 2500					
SIZE	in	2"	2.5"	3"	4"	6"	8"
	mm	50	65	80	100	150	200
L (Short Pattern)	in	11.00	13.00	14.50	18.00	24.00	30.00
	mm	279	330	368	457	610	762
L (Long Pattern)	in	17.75	20.00	22.75	26.50	36.00	40.25
	mm	451	508	578	673	914	1022
H	in	24.41	30.63	34.84	51.10	53.74	83.46
	mm	620	778	885	1298	1365	2120
W	in	16	20	22	24	24	24
	mm	400	500	560	610	610	610
WEIGHT BW	Kg	80	115	152	358	965	2095

Pressure Seal Swing Check Valve

Class 600~2500

Figure No. CH6RCB5-P / CH6BCB5-P / CH6JCB5-P
 CH9RCB5-P / CH9BCB5-P / CH9JCB5-P
 CH15RCB5-P / CH15BCB5-P / CH15JCB5-P
 CH25RCB5-P / CH25BCB5-P / CH25JCB5-P



STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR. WCB
2	Seat Ring	ASTM A105+Stellite Faced
3	Disc	ASTM A216 GR.WCB+Stellite Faced
4	Disc Washer	ASTM A276 Type 410
5	Disc Nut Pin	Stainless Steel
6	Disc Nut	Stainless Steel
7	Hinge	ASTM A216 GR.WCB
8	Hinge Pin	ASTM A182 GR.F6a
9	Bearing Bracket	ASTM A216 GR.WCB
10	Spring Washer	Carbon Steel
11	Hex,Bolt	Carbon Steel
12	Bonnet	ASTM A216 GR.WCB
13	Gasket	ASTM A182 GR.F304
14	Thrust Ring	ASTM A276 Type 410
15	Separate Ring	ASTM A276 Type 410
16	Cover	ASTM A216 GR.WCB
17	Cover Bolts	ASTM A193 GR.B7
18	Cover Bolt Nuts	ASTM A194 GR.2H
19	Eye Bolt	Carbon Steel

FEATURES

- Pressure Seal
- Swing Type Disc
- Type 1 Standard
- Type 2 Optional
- With Eye Bolt
- By Pass On Request
- Lever & Weight Optional

SPECIFICATIONS

Design	ASME B16.34
Face To Face	ASME B16.10
End To End	ASME B16.10
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 598
Special	NACE MR-01-75

Dimensions And Weights		CLASS 600							
SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"
	mm	50	65	80	100	150	200	250	300
L (Short Pattern)	in	7.00	8.50	10.00	12.00	18.00	23.00	28.00	32.00
	mm	178	216	254	305	457	584	711	813
L (Long Pattern)	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
H	in	7.17	8.46	9.65	12.87	13.98	15.35	18.90	21.57
	mm	182	215	245	327	355	390	480	548
WEIGHT BW	Kg	35	56	61	115	217	332	560	650

Dimensions And Weights		CLASS 900							
SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"
	mm	50	65	80	100	150	200	250	300
L (Short Pattern)	in	10.00	12.00	14.00	20.00	26.00	31.00	36.00	
	mm	254	305	356	508	660	787	914	
L (Long Pattern)	in	14.50	16.50	18.00	24.00	29.00	33.00	38.00	
	mm	368	419	457	610	737	838	965	
H	in	11.65	11.81	12.87	17.36	19.76	26.14	30.51	
	mm	296	300	327	441	502	664	775	
WEIGHT BW	Kg	50	77	68	115	230	387	632	910

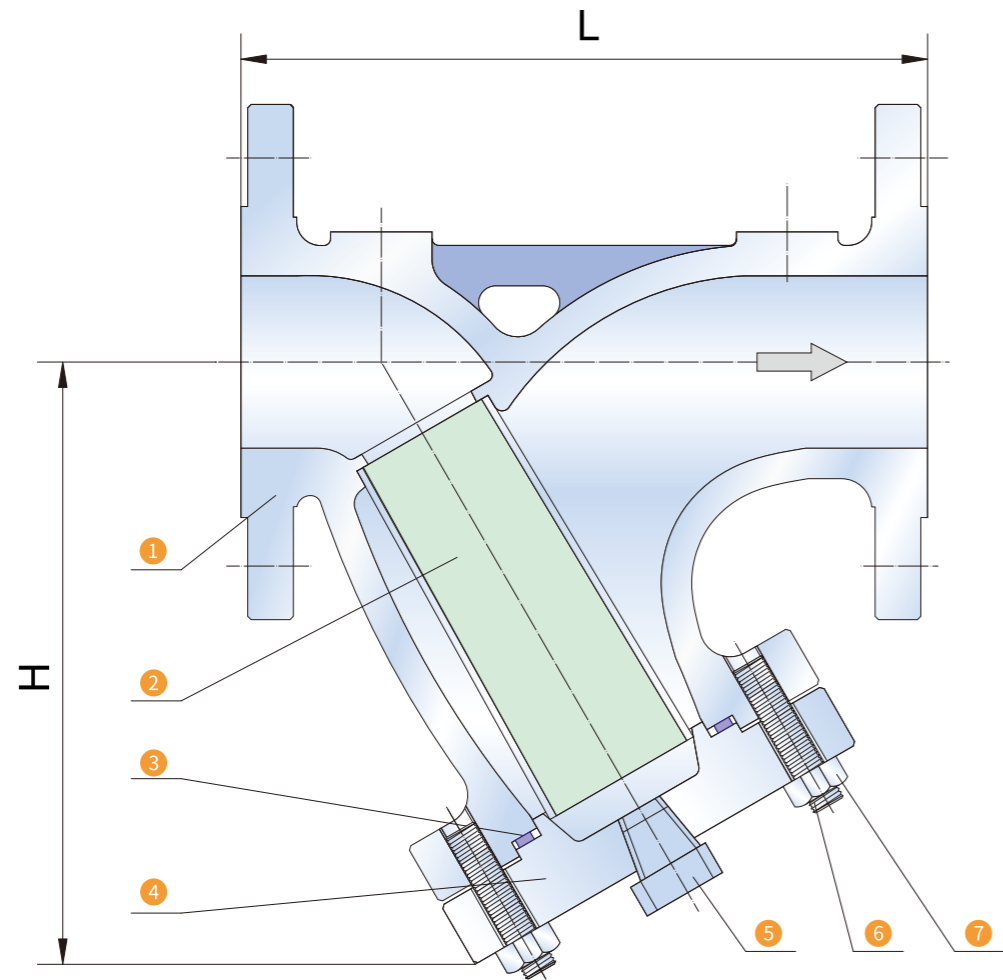
Dimensions And Weights		CLASS 1500							
SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"
	mm	50	65	80	100	150	200	250	300
L (Short Pattern)	in	8.50	10.00	12.00	16.00	22.00	28.00	34.00	39.00
	mm	216	254	305	406	559	711	864	991
L (Long Pattern)	in	14.50	16.50	18.50	21.50	27.75	32.75	39.00	44.50
	mm	368	419	470	546	705	832	991	1130
H	in	11.65	11.81	13.43	16.22	20.12	26.77	29.76	33.74
	mm	296	300	341	412	511	680	756	857
WEIGHT BW	Kg	50	77	115	190	452	845	1280	1780

Dimensions And Weights		CLASS 2500							
SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"
	mm	50	65	80	100	150	200	250	300
L (Short Pattern)	in	11.00	13.00	14.50	18.00	24.00	30.00	36.00	41.00
	mm	279	330	368	457	610	762	914	1041
L (Long Pattern)	in	17.75	20.00	22.75	26.50	36.00	40.25	50.00	56.00
	mm	451	508	578	673	914	1022	1270	1422
H	in	16.38	16.50	17.36	18.86	20.12	27.99	33.50	39.37
	mm	416	419	441	479	511	711	851	1000
WEIGHT BW	Kg	110	190	260	535	1110	1980	2980	4350

Cast Steel Y-Strainer

Class 150~300

Figure No. ST1RCB / ST3RCB



STANDARD MATERIALS OF PARTS

ITEM	PART NAME	MATERIAL
1	Body	ASTM A216 GR. WCB
2	Screen	ASTM A276 Type 304
3	Gasket	304+Graphite
4	Cover	ASTM A216 GR.WCB
5	Plug	ASTM A105
6	Cover Bolts	ASTM A193 GR.B7
7	Cover Bolt Nuts	ASTM A194 GR.2H

SPECIFICATIONS

Design	ASME B16.34
Face To Face	ASME B16.10
End Flange	ASME B16.5
Test	API 598

Dimensions And Weights										CLASS 150
SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"	
	mm	50	65	80	100	150	200	250	300	
L	in	8.00	8.50	9.50	11.50	16.00	19.50	24.50	27.50	
	mm	203	216	241	292	406	495	622	699	
H	in	5.71	7.20	8.11	8.98	12.95	17.32	19.96	23.39	
	mm	145	183	206	228	329	440	507	594	
WEIGHT	kg	12	18	21	32	48	105	169	215	

Dimensions And Weights										CLASS 300
SIZE	in	2"	2.5"	3"	4"	6"	8"	10"	12"	
	mm	50	65	80	100	150	200	250	300	
L	in	10.50	11.50	12.50	14.00	17.50	22.00	24.50	28.00	
	mm	267	292	318	356	445	559	622	711	
H	in	6.70	7.28	9.25	11.42	14.76	17.72	22.64	26.18	
	mm	170	185	235	290	375	450	575	665	
WEIGHT	kg	15	18	35	51	92	182	285	307	

Materials

Material	CHEMICAL COMPOSITIONS(%) max									MECHANICAL PROPERTIES					
	C	Mn	P	S	Si	Ni	Cr	Mo	Other	Tensile min Mpa(ksi)	Yield min Mpa(ksi)	Elongation min(%)	Reduction of Area min(%)	Hardness Brinell	Energy Valve J (ft.lbf)
F316	0.08	2.00	0.045	0.030	1.00	10.0~14.0	16.0~18.0	2.00~3.00	N0.10	515(75)	205(30)	30	50		
F316L	0.03	2.00	0.045	0.030	1.00	10.0~15.0	16.0~18.0	2.00~3.00	N0.10	485(70)	170(25)	30	50		
F321	0.08	2.00	0.045	0.030	1.00	9.0~12.0	17.0~19.0		Ti ≥5xC≤0.70	515(75)	205(30)	30	50		
F347	0.08	2.00	0.045	0.030	1.00	9.0~12.0	17.0~20.0		Nb ≥10xC≤1.10	515(75)	205(30)	30	50		
410	0.15	1.00	0.040	0.030	1.00		11.5~13.50			480(70)	275(40)	20	45		
416	0.15	1.25	0.06	≥0.015	1.00		12.00~14.00							≤262	
420	≥0.15	1.00	0.040	0.030	1.00		12.00~14.00							≤241	
D-2	3.00	0.70~1.25	0.08		1.50~3.00	18.0~22.00	1.75~2.75			400(58)	207(30)	8.0		139~202	
B7	0.37~0.49	0.65~1.10	0.035	0.040	1.50~3.35		0.75~1.20	0.15~0.25		860(125)	720(105)	16	50	≤HB321 or HRC35	
B7M	0.37~0.49	0.65~1.10	0.035	0.040	1.50~3.35		0.75~1.20	0.15~0.25		690(100)	550(80)	18	50	HB200~235 or HRB93~99	
B16	0.36~0.47	0.45~0.70	0.035	0.040	1.50~3.35		0.80~1.15	0.50~0.65	V0.25~0.35 Al 0.015	860(125)	725(105)	18	50	≤HB321 or HRC35	
B8	0.08	2.00	0.045	0.030	1.00	8.0~11.0	18.0~20.0			515(75)	205(30)	30	50	≤HB223 or HRB96	
B8M	0.08	2.00	0.045	0.030	1.00	10.0~14.0	16.0~18.0	2.0~3.0		515(75)	205(30)	30	50	≤HB223 or HRB96	
L7	0.38~0.48	0.75~1.00	0.035	0.040	0.15~0.35		0.80~1.10	0.15~0.25		860(125)	725(105)	16	50		27(20)
L7M	0.38~0.48	0.75~1.00	0.035	0.040	0.15~0.35	9.0~13.0	0.80~1.10	0.15~0.25		690(100)	550(80)	18	50	HB200~235 or HRB93~99	27(20)
B	0.33	1.25	0.04	0.05						415~690 (60~100)		18		HB121~212 HRB69~95	
2H	≥0.40	1.00	0.040	0.050	0.40									HB248~327 HRC24~35	
2HM	≥0.40	1.00	0.040	0.050	0.40									HB159~235 HRB84~99	
4	0.40~0.50	0.70~0.90	0.035	0.040	0.15~0.35			0.20~0.30						HB248~327 HRC24~35	
7	0.37~0.49	0.65~1.10	0.035	0.040	0.15~0.35		0.75~1.20	0.15~0.25						HB248~327 HRC24~35	
7M	0.37~0.49	0.65~1.10	0.035	0.040	0.15~0.35		0.75~1.20	0.15~0.25						HB159~235 HRB84~99	
8	0.08	2.00	0.045	0.030	1.00	8.00~11.0	18.00~20.0							HB126~300 ≤HRC32	
8M	0.08	2.00	0.045	0.030	1.00	10.0~14.0	16.0~18.0	2.00~3.00						HB126~300 ≤HRC32	

HISTORIC EVENTS

