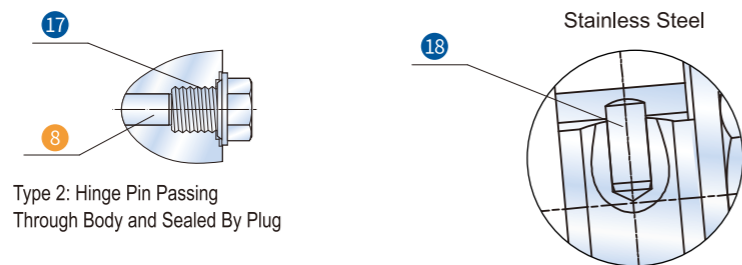
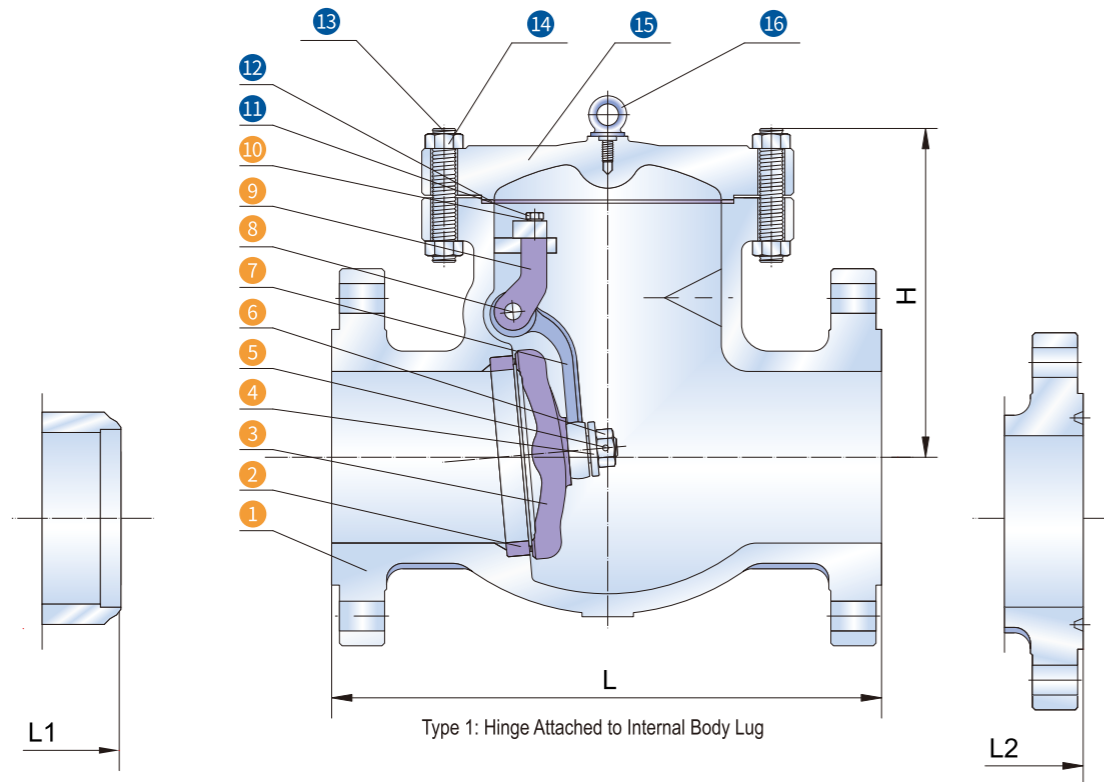


Cast Steel Swing Check Valve

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

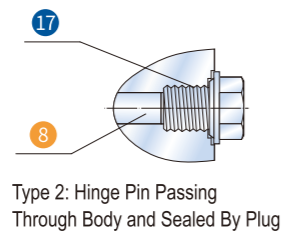
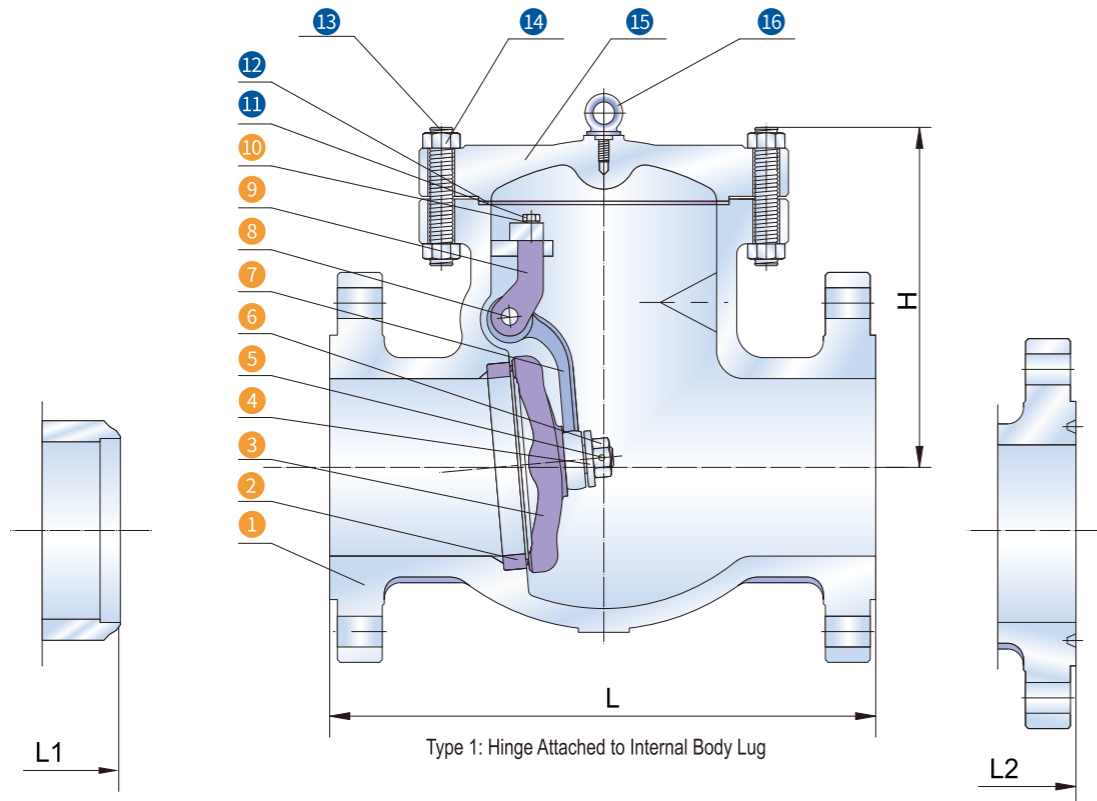
Dimensions And Weights

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

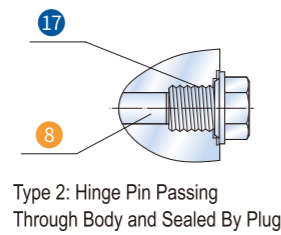
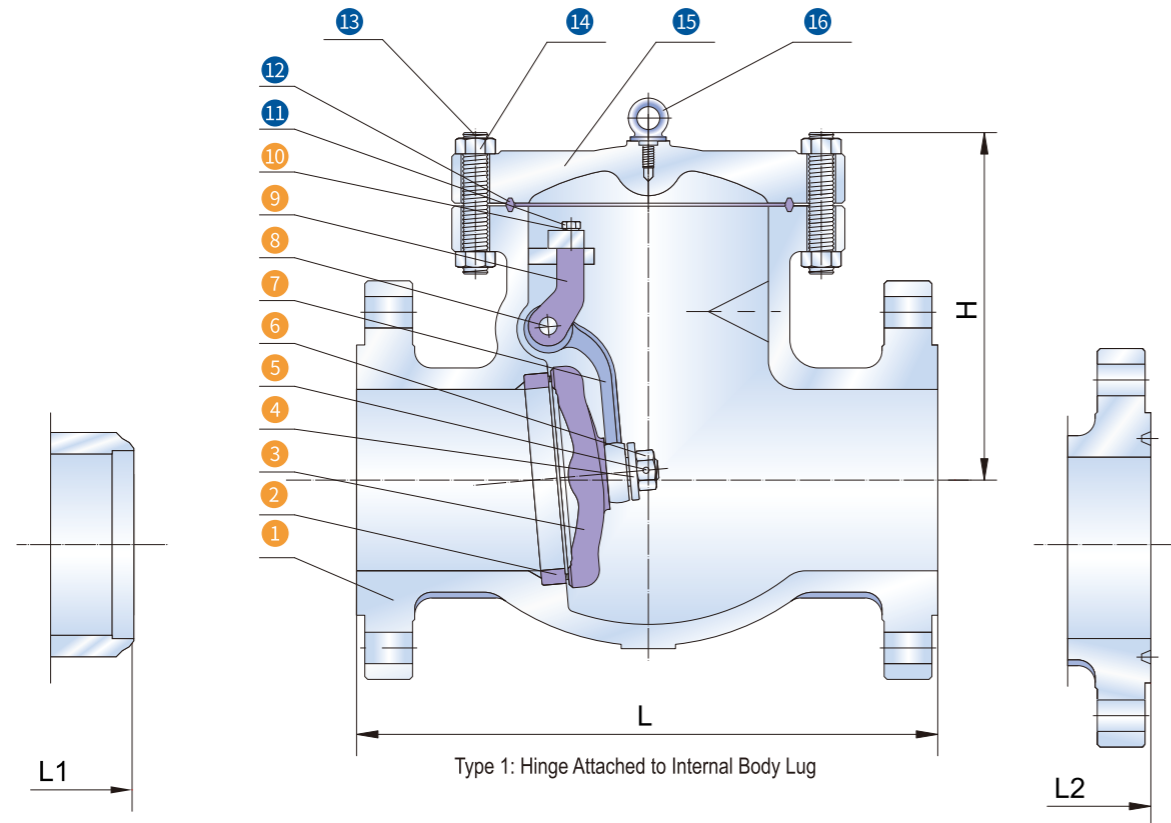
Dimensions And Weights

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

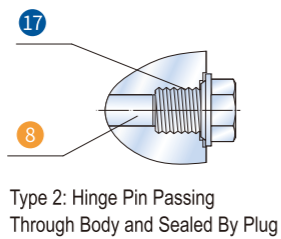
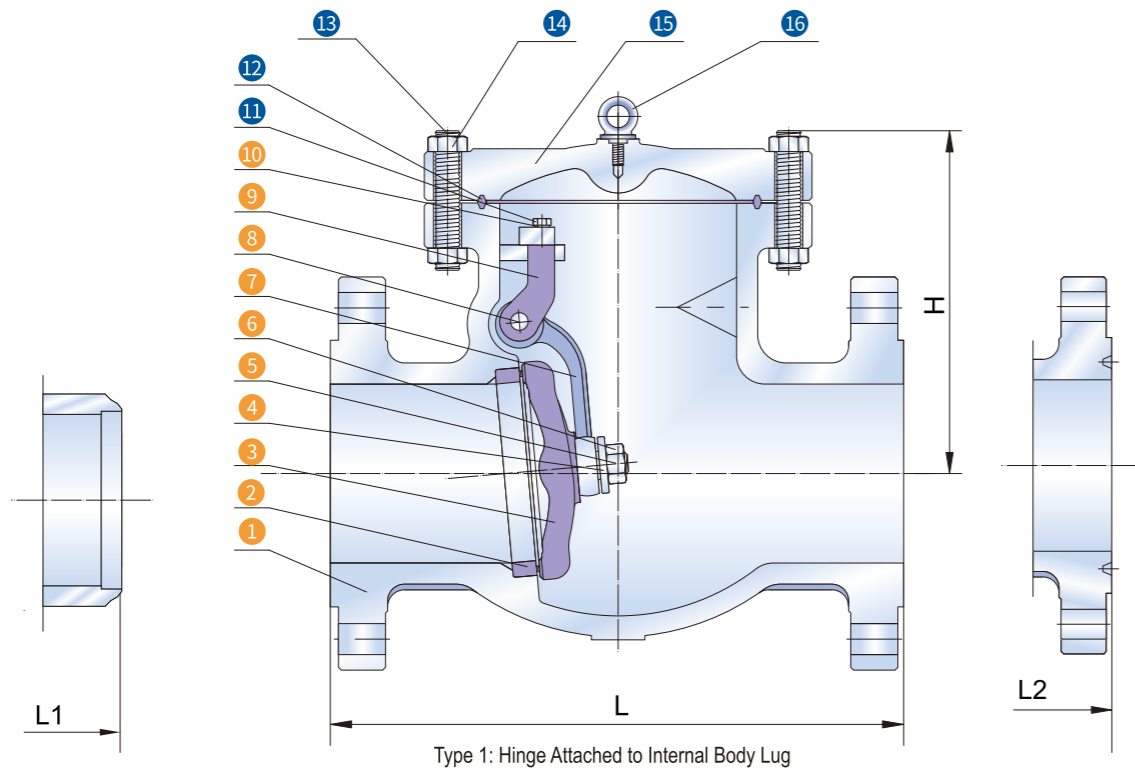
Dimensions And Weights

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

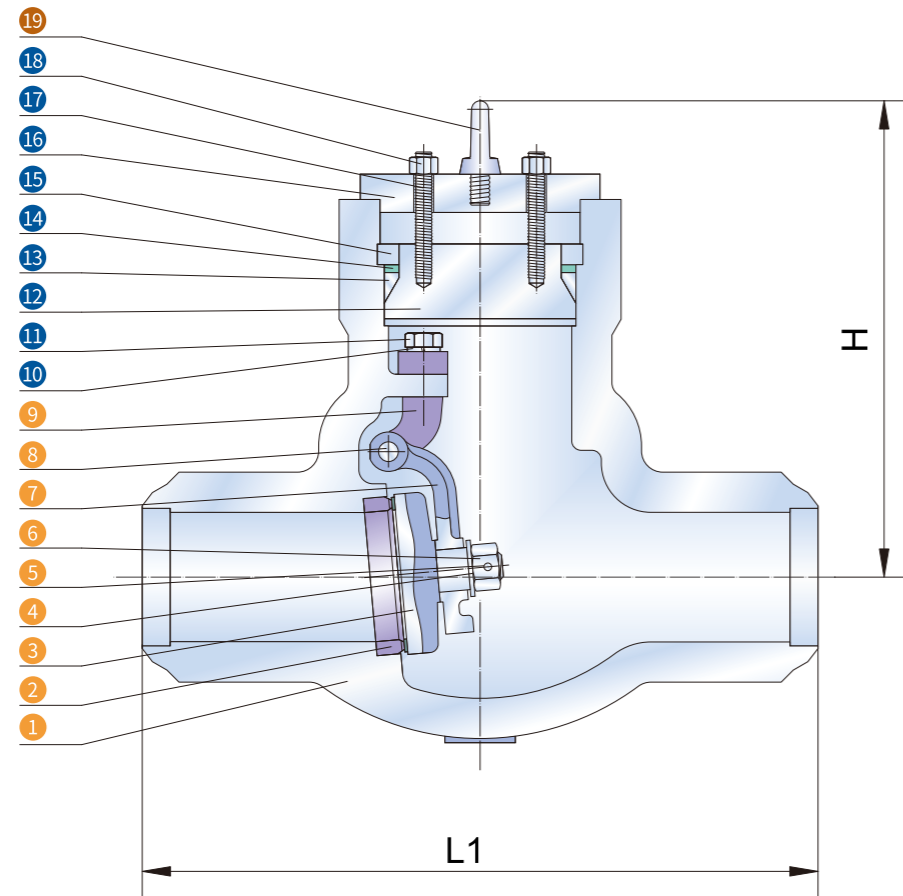
ITEM	PART NAME	CARBON STEEL			ALLOY STEEL			STAINLESS STEEL				
1	Body	A216 WCB	A352 LCB	A352 LCC	A217 WC1	A217 WC6	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	A351 CF8C
2	Seat Ring	A105	A350 LF2		A182 F1	A182 F11	A182 F5	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F321
3	Disc	A105	A350 LF2		A182 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 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	15.00	18.00	24.00	29.00	33.00	38.00
	mm	368	419	381	457	610	737	838	965
H	in	11.65	11.81	11.81	12.87	17.36	19.76	26.14	30.51
	mm	296	300	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