



Calvary Valve, Inc

Cast Steel Check Valves

CAST STEEL CHECK VALVES - Bolted Bonnet - API 600/B16.34

Products: Checks, Non-Return Valves, & Nuclear

Size Range: ½" to 24"

Pressure Class: 150, 300, 600, 900, 1500, and 2500

Materials: WCB, WC6, WC9, C5, C12, C12A, LCC, LCB,

Trims Available: Common types of trim that Calvary manufactures include API Trim Numbers #1, #2 (304SS), #3, #4, #5 (Full Stellite), #6, #7, #8 (Half Stellite), #8A, #9 (Monel), #10 (316SS), #11 (Monel/Stellite), #12 (316SS/Stellite), #13, #14, #15, #16, #17, #18, NACE. The Calvary Valve Company routinely manufactures special (custom) trim configurations per our customer's request.

Emergency Service is available 24 hours a day, seven days a week.



Calvary Valve Inc.
(903) 729-0485

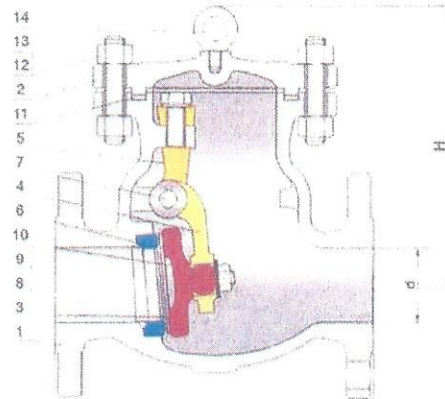
SWING CAST STEEL CHECK VALVE 150LB

Applicable standards:

STEEL CHECK VALVES, API 6D/BS 1868
STEEL CHECK VALVES, ISO 14313
STEEL VALVES, ASME B16.34
FACE TO FACE, ASME B16.10
END FLANGES, ASME B16.5
BUTTWELDING ENDS, ASME B16.25
INSPECTION AND TEST, API 598/API 6D

Design description:

BB, BOLTED BONNET CAP
SWING TYPE, ANTI-ROTATION DISC
RENEWABLE SEAT RINGS
NON-PENETRATE DISC SHAFT
HORIZONTAL OR VERTICAL SERVICE
FLANGED OR BUTTWELDING ENDS



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 Cap	A216-WCB	A217-WC6	A352-LCB
3	Disc ¹⁾	A105-CR13	A182-F11+HF	A350-LF2+CR13
4	Hinge	A216-WCB	A217-WC6	A352-LCB
5	Support	A216-WCB	A217-WC6	A352-LCB
6	Seat Ring	A105+CR13	A182-F11+HF	A350-LF2+CR13
7	Hinge Pin	A276-420	A276-304	A276-420
8	Disc Washer	Carbon Steel	A276-304	Carbon Steel
9	Disc Nut	Carbon Steel	A194-7	Carbon Steel
10	Disc Nut Pin	Carbon Steel	A276-420	Carbon Steel
11	Bonnet Gasket	Spiral Wound (Graphite+304)		
12	Bonnet Stud	A193-B7	A193-B16	A320-L7
13	Bonnet Stud Nut	A194-2H	A194-7	A194-4
14	Eyebolt ¹⁾	Carbon Steel		

Note: 1) Cast steel disc for NPS 4" and above.

2) NPS 6" & larger.

3) Disc 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	36	in
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750	900	mm
ANSI Class 150Lb																		
L/L1 (RF/BW)	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	51.00	57.00	60.00	77.00	in
	203	216	241	292	358	495	622	699	787	864	978	978	1295	1295	1448	1524	1958	mm
L2 (RTJ)	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	--	--	--	--	in
	216	229	254	305	368	508	635	711	800	876	991	991	1308	--	--	--	--	mm
H	6.00	6.50	6.88	8.00	11.50	13.88	15.38	17.00	18.75	20.62	22.88	24.62	34.75	35.88	37.00	38.62	48.00	in
	152	165	175	204	293	353	390	432	475	525	582	627	883	910	940	980	1220	mm
(d)	50	63	76	100	150	200	250	300	338	387	438	488	590	641	692	743	876	mm
WT	14	20	25	40	71	118	177	263	353	542	632	856	970	1275	1600	1990	2760	RF
(kg)	10	12	17	29	57	96	143	227	295	468	552	755	831	1120	1420	1760	2230	BW



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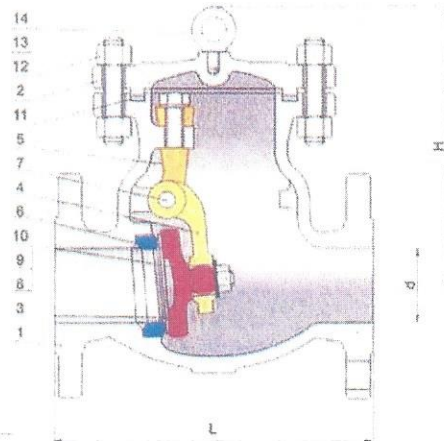
SWING CAST STEEL CHECK VALVE 300LB

Applicable standards:

STEEL CHECK VALVES, API 6D/BS 1868
STEEL CHECK VALVES, ISO 14313
STEEL VALVES, ASME B16.34
FACE TO FACE, ASME B16.10
END FLANGES, ASME B16.5
BUTT WELDING ENDS, ASME B16.25
INSPECTION AND TEST, API 698/API 6D

Design description:

BB. BOLTED BONNET CAP
SWING TYPE. ANTI-ROTATION DISC
RENEWABLE SEAT RINGS
NON-PENETRATE DISC SHAFT
HORIZONTAL OR VERTICAL SERVICE
FLANGED OR BUTT WELDING ENDS



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 Cap	A216-WCB	A217-WC6	A352-LCB
3	Disc ¹⁾	A105-CR13	A182-F11+HF	A350-LF2+CR13
4	Hinge	A216-WCB	A217-WC6	A352-LCB
5	Support	A216-WCB	A217-WC6	A352-LCB
6	Seat Ring	A105+CR13	A182-F11+HF	A350-LF2+CR13
7	Hinge Pin	A276-420	A276-304	A276-420
8	Disc Washer	Carbon Steel	A276-304	Carbon Steel
9	Disc Nut	Carbon Steel	A194-7	Carbon Steel
10	Disc Nut Pin	Carbon Steel	A276-420	Carbon Steel
11	Bonnet Gasket	Spiral Wound (Graphite+304)		
12	Bonnet Stud	A193-B7	A193-B16	A320-L7
13	Bonnet Stud Nut	A194-2H	A194-7	A194-4
14	Eyebolt ²⁾	Carbon Steel		

Note: 1). Cast steel disc for NPS 4" and above.

2). NPS 6" & larger.

3). Disc 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	36	In
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750	900	mm
ANSI Class-300Lb																		
L/L1 (RF/BW)	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	53.00	59.00	62.75	82.00	in
	267	292	318	356	445	533	622	711	838	864	978	1016	1346	1346	1499	1594	2083	mm
L2 (RTJ)	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	54.00	60.00	63.75	-	in
	283	308	333	371	460	549	638	727	854	879	994	1035	1368	1372	1524	1619	-	mm
H	6.00	6.50	6.88	8.00	11.50	13.88	15.38	17.00	18.75	20.82	22.68	24.62	34.75	35.88	37.00	38.62	48.00	in
	152	165	175	204	292	353	390	432	475	525	582	627	883	910	940	980	1220	mm
(d)	50	63	76	100	150	200	250	300	336	387	431	482	564	635	686	737	876	mm
WT	16	23	29	46	82	136	204	302	405	625	730	985	1115	1465	1840	2290	3180	RF
(kg)	11	13	18	31	61	103	155	245	315	503	593	812	895	1205	1525	1895	2395	BW



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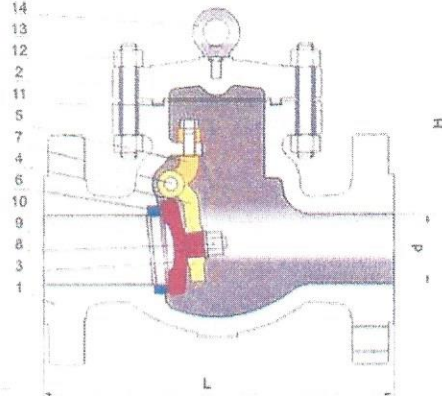
SWING CAST STEEL CHECK VALVE 600LB

Applicable standards:

STEEL CHECK VALVES, API 6D/BS1868
STEEL CHECK VALVES, ISO 14313
STEEL VALVES, ASME B16.34
FACE TO FACE, ASME B16.10
END FLANGES, ASME B16.5
BUTTWELDING ENDS, ASME B16.25
INSPECTION AND TEST, API 598/API 6D

Design description:

BB, BOLTED BONNET CAP
SWING TYPE, ANTI-ROTATION DISC
RENEWABLE SEAT RINGS
NON-PENETRATE DISC SHAFT
HORIZONTAL OR VERTICAL SERVICE
FLANGED OR BUTTWELDING ENDS



Materials of parts

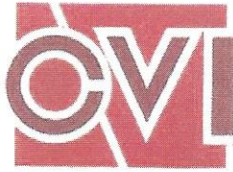
NO	Part Name	ASTM Material		
		Carbon Steel	1/4Cr-1/2Mo	Carbon Steel
1	Body	A216-WCB	A217-WC6	A352-LCB
2	Bonnet Cap	A216-WCB	A217-WC6	A352-LCB
3	Disc ¹⁾	A105-CR13	A182-F11+HF	A350-LF2+CR13
4	Hinge	A216-WCB	A217-WC6	A352-LCB
5	Support	A216-WCB	A217-WC6	A352-LCB
6	Seat Ring	A105+CR13	A182-F11+HF	A350-LF2+CR13
7	Hinge Pin	A276-420	A276-304	A276-420
8	Disc Washer	Carbon Steel	A276-304	Carbon Steel
9	Disc Nut	Carbon Steel	A194-7	Carbon Steel
10	Disc Nut Pin	Carbon Steel	A276-420	Carbon Steel
11	Bonnet Gasket	Spiral Wound (Graphite+304)		
12	Bonnet Stud	A193-B7	A193-B16	A320-L7
13	Bonnet Stud Nut	A194-2H	A194-7	A194-4
14	Eyebolt ²⁾	Carbon Steel		

Note: 1) NPS 6" & larger.

2) Disc 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	2½	3	4	6	8	10	12	14	16	18	20	24	26	28	30	In
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750	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	62.99	65.00	in
	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	1448	1600	1651	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	57.51	63.50	65.51	in
	295	333	359	435	562	664	791	841	892	994	1095	1200	1407	1461	1613	1664	mm
H	7.50	8.00	8.75	10.00	14.50	17.50	19.25	21.38	23.38	25.75	28.75	31.00	43.50	40.00	40.00	45.98	in
	190	205	222	255	368	445	490	540	595	655	730	785	1105	1016	1066	1168	mm
(d)	50	63	76	100	150	199	247	298	326	374	419	463	558	603	648	695	mm
WT	24	35	44	70	125	207	310	460	615	945	1105	1495	1695	3800	4600	5500	RF
(kg)	16	19	26	44	87	147	220	350	452	720	845	1160	1280	3010	3724	4528	BW



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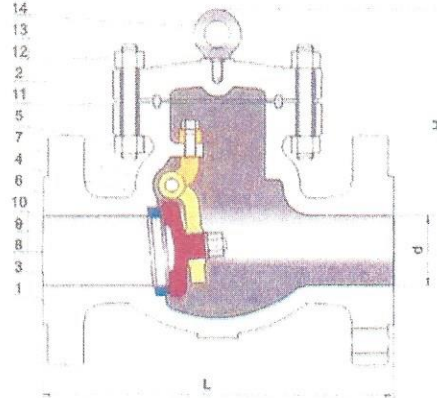
SWING CAST STEEL CHECK VALVE 900lb

Applicable standards:

STEEL CHECK VALVES, API 6D/BS 1868
STEEL CHECK VALVES, ISO 14313
STEEL VALVES, ASME B16.34
FACE TO FACE, ASME B16.10
END FLANGES, ASME B16.5
BUTTWELDING ENDS, ASME B16.25
INSPECTION AND TEST, API 598/API 6D

Design description:

BB, BOLTED BONNET CAP
SWING TYPE, ANTI-ROTATION DISC
RENEWABLE SEAT RINGS
NON-PENETRATE DISC SHAFT
HORIZONTAL OR VERTICAL SERVICE
FLANGED OR BUTTWELDING ENDS



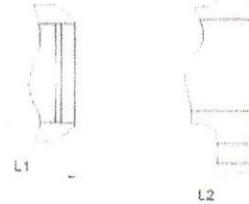
Materials of parts

NO	Part Name	ASTM Material		
		Carbon Steel	1 1/2Cr-1/2Mo	Carbon Steel
1	Body	A216-WCB	A217-WC6	A352-LCB
2	Bonnet Cap	A216-WCB	A217-WC6	A352-LCB
3	Disc ¹⁾	A216-WCB+Cr13	A217-WC6+HF	A352-LCB+CR13
4	Hinge	A216-WCB	A217-WC6	A352-LCB
5	Support	A216-WCB	A217-WC6	A352-LCB
6	Seat Ring	A105+HF	A182-F11+HF	A350-LF2+HF
7	Hinge Pin	A276-420	A276-304	A276-420
8	Disc Washer	Carbon Steel	A276-304	Carbon Steel
9	Disc Nut	Carbon Steel	A194-7	Carbon Steel
10	Disc Nut Pin	Carbon Steel	A276-420	Carbon Steel
11	Bonnet Gasket	Steel Ring	304SS Ring	Steel Ring
12	Bonnet Stud	A193-B7	A193-B16	A320-L7
13	Bonnet Stud Nut	A194-2H	A194-7	A194-4
14	Eyebolt ²⁾		Carbon Steel	

Note: 1) Cast steel disc for NPS 4" and above.

2) NPS 6" & larger.

3) Disc 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 DN	2 50	2 1/2 65	3 80	4 100	6 150	8 200	10 250	12 300	14 350	16 400	18 450	20 500	in mm
ANSI Class 900Lb													
L/L1 (RF/BW)	14.50 368	16.50 419	15.50 381	18.00 457	24.00 610	29.00 737	33.00 838	38.00 965	40.50 1029	44.50 1130	48.00 1219	52.00 1321	in mm
L2 (RTJ)	14.62 371	16.62 422	15.12 384	18.12 460	24.12 613	29.12 740	33.12 841	38.12 968	40.88 1038	44.88 1140	48.50 1232	52.50 1334	in mm
H	9.50 240	10.00 256	11.00 278	12.50 320	18.12 460	22.00 560	24.00 610	26.50 675	29.38 745	32.00 815	33.50 850	38.75 985	in mm
(d)	47	57	72	98	146	190	238	282	311	355	400	444	mm
WT	37	54	68	109	195	321	481	711	956	1468	1870	2318	RF
(kg)	21	25	34	58	115	194	290	461	597	950	1210	1533	BW



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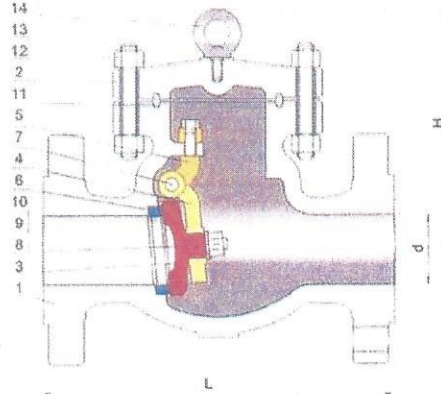
SWING CAST STEEL CHECK VALVE 1500lb/2500lb

Applicable standards:

STEEL CHECK VALVES, API 6D/BS 1868
STEEL CHECK VALVES, ISO 14313
STEEL VALVES, ASME B16.34
FACE TO FACE, ASME B16.10
END FLANGES, ASME B16.5
BUTTWELDING ENDS, ASME B16.25
INSPECTION AND TEST, API 598/API 6D

Design description:

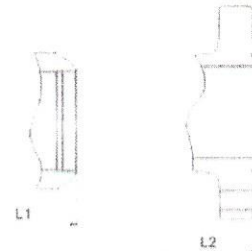
BB, BOLTED BONNET CAP
SWING TYPE, ANTI-ROTATION DISC
RENEWABLE SEAT RINGS
NON-PENETRATE DISC SHAFT
HORIZONTAL OR VERTICAL SERVICE
FLANGED OR BUTTWELDING ENDS



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 Cap	A216-WCB	A217-WC6	A352-LCB
3	Disc ¹⁾	A216-WCB+Cr13	A217-WC6+HF	A352-LCB+CR13
4	Hinge	A216-WCB	A217-WC6	A352-LCB
5	Support	A216-WCB	A217-WC6	A352-LCB
6	Seat Ring	A105+HF	A182-F11+HF	A350-LF2+HF
7	Hinge Pin	A276-420	A276-304	A278-420
8	Disc Washer	Carbon Steel	A276-304	Carbon Steel
9	Disc Nut	Carbon Steel	A194-7	Carbon Steel
10	Disc Nut Pin	Carbon Steel	A276-420	Carbon Steel
11	Bonnet Gasket	Steel Ring	304SS Ring	Steel Ring
12	Bonnet Stud	A193-B7	A193-B16	A320-L7
13	Bonnet Stud Nut	A194-2H	A194-7	A194-4
14	Eyebolt ²⁾	Carbon Steel		

Note: 1) Cast steel disc for NPS 4" and above.
2) NPS 6" & larger.
3) Disc 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	2	2 1/2	3	4	6	8	10	12	in
DN	50	65	80	100	150	200	250	300	350	400	50	65	80	100	150	200	250	300	mm
ANSI Class 1500Lb										ANSI Class 2500Lb									
L/L1	14.50	16.50	18.50	21.50	27.75	32.75	39.00	44.50	49.50	54.50	17.75	20.00	22.75	26.50	36.00	40.25	50.00	58.00	in
(RF/BW)	368	419	470	546	705	832	991	1130	1257	1384	451	508	578	673	914	1022	1270	1422	mm
L2	14.62	16.62	18.62	21.62	28.00	33.12	39.38	45.12	50.25	55.38	17.88	20.25	23.00	26.88	36.50	40.88	50.88	58.88	in
(RTJ)	371	422	473	549	711	841	1000	1146	1276	1407	454	514	584	683	927	1038	1292	1445	mm
H	9.50	10.00	13.00	14.75	18.88	23.50	26.00	29.12	30.88	32.88	10.75	13.25	13.75	15.12	19.50	24.82	28.00	35.62	in
(d)	240	256	330	375	480	595	660	740	785	835	275	335	350	385	495	625	712	905	mm
(d)	47	57	69	92	136	177	222	263	288	330	38	47	57	72	111	146	184	218	mm
WT	40	63	70	115	250	470	740	1100	1410	1600	50	76	85	165	460	900	1300	1800	RF
(kg)	29	47	49	84	152	310	470	710	910	1100	35	55	68	115	225	580	860	1150	BW



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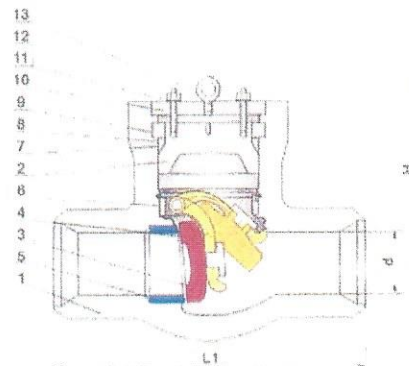
PRESSURE SEAL CAST STEEL SWING CHECK VALVE 900lb

Applicable standards:

STEEL CHECK VALVES, API 6D/BS1868
STEEL CHECK VALVES, ISO 14313
STEEL VALVES, ASME B16.34
FACE TO FACE, ASME B16.10
END FLANGES, ASME B16.5
BUTTWELDING ENDS, ASME B16.25
INSPECTION AND TEST, API 598/API 6D

Design description:

PRESSURE SEAL BONNET CAP
SWING TYPE, ANTI-ROTATION DISC
RENEWABLE SEAT RINGS
NON-PENETRATE DISC SHAFT
HORIZONTAL OR VERTICAL SERVICE
FLANGED OR BUTTWELDING ENDS

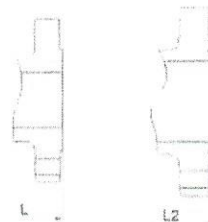


Materials of parts

NO	Part Name	ASTM Material		
		Carbon Steel	1 1/4Cr-1/2Mo	Carbon Steel
1	Body	A216-WCB	A217-WC6	A351-CF8M
2	Bonnet Cap	A216-WCB	A217-WC6	A351-CF8M
3	Disc	A105+HF	A182-F11+HF	A351-CF8M+HF
4	Hinge	A216-WCB	A217-WC6	A351-CF8M
5	Seat Ring	A105+HF	A182-F11+HF	A240-316+HF
6	Hinge Pin	A276-420	A276-304	A276-316
7	Bonnet Gasket ¹⁾	Steel Ring	304SS Ring	316SS Ring
8	Adapter Ring	Carbon Steel	A276-420	A276-316
9	Retainer	Carbon Steel	A276-420	A276-316
10	Bonnet Clamp	Carbon Steel	Alloy Steel	Stainless Steel
11	Bonnet Stud	A193-B7	A193-B7	A193-B8M
12	Bonnet Stud Nut	A194-2H	A194-2H	A194-8M
13	Eyebolt		Carbon Steel	

Note: 1) Graphite optional

2) Disc 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	in
DN	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750	mm
ANSI Class 900Lb																	
L1	8.50	10.00	12.00	14.00	20.00	26.00	31.00	36.00	39.00	43.00	47.99	52.00	60.98	66.96	71.96	80.00	in
(BW)	216	254	305	356	508	660	787	914	991	1092	1219	1321	1549	1701	1828	2032	mm
L	14.50	16.50	15.00	18.00	24.00	29.00	33.00	38.00	40.5	44.5	47.99	52.00	60.98	66.96	71.96	80.00	in
(RF)	368	419	381	457	610	737	838	965	1029	1130	1219	1321	1549	1701	1828	2032	mm
L2	14.62	16.62	15.12	18.12	24.12	29.12	33.12	38.12	40.88	44.88	48.60	52.51	61.73	67.83	72.83	80.86	in
(RTJ)	371	422	384	460	613	740	841	969	1038	1140	1232	1334	1568	1723	1850	2054	mm
H	9.50	9.50	10.00	13.38	15.75	18.12	21.62	24.00	27.00	29.50	33.97	36.96	41.96	45.00	46.96	50.00	in
(d)	240	240	255	340	400	460	550	610	685	750	883	939	1066	1143	1193	1270	mm
(d)	47	57	72	98	146	190	238	282	311	355	400	444	533	-	-	-	mm
WT	22	34	38	71	176	485	761	1125	1345	1490	2840	3756	6000	6375	7229	8232	RF
(kg)	44	55	61	116	255	630	940	1433	1710	1820	2000	2700	4100	5100	5750	6510	BW



Calvary Valve Inc.
(903) 729-0485

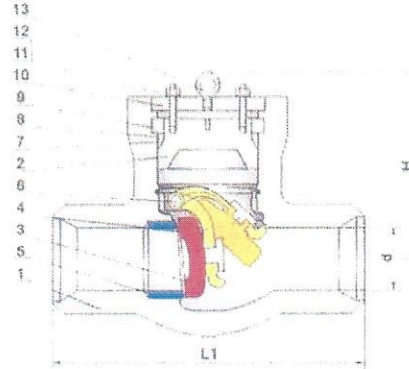
PRESSURE SEAL CAST STEEL SWING CHECK VALVE 1500Lb

Applicable standards:

STEEL CHECK VALVES, API 6D/BS 1868
STEEL CHECK VALVES, ISO 14313
STEEL VALVES, ASME B16.34
FACE TO FACE, ASME B16.10
END FLANGES, ASME B16.5
BUTTWELDING ENDS, ASME B16.25
INSPECTION AND TEST, API 598/API 6D

Design description:

PRESSURE SEAL BONNET CAP
SWING TYPE, ANTI-ROTATION DISC
RENEWABLE SEAT RINGS
NON-PENETRATE DISC SHAFT
HORIZONTAL OR VERTICAL SERVICE
FLANGED OR BUTTWELDING ENDS



Materials of parts

NO	Part Name	ASTM Material		
		Carbon Steel	1 1/4Cr-1/2Mo	Carbon Steel
1	Body	A216-WCB	A217-WC6	A351-CF8M
2	Bonnet Cap	A216-WCB	A217-WC6	A351-CF8M
3	Disc	A105+HF	A182-F11+HF	A351-CF8M+HF
4	Hinge	A216-WCB	A217-WC6	A351-CF8M
5	Seat Ring	A105+HF	A182-F11+HF	A240-316+HF
6	Hinge Pin	A276-420	A276-304	A276-316
7	Bonnet Gasket ¹⁾	Steel Ring	304SS Ring	316SS Ring
8	Adapter Ring	Carbon Steel	A276-420	A276-316
9	Retainer	Carbon Steel	A276-420	A276-316
10	Bonnet Clamp	Carbon Steel	Alloy Steel	Stainless Steel
11	Bonnet Stud	A193-B7	A193-B7	A193-B8M
12	Bonnet Stud Nut	A194-2H	A194-2H	A194-8M
13	Eyebolt		Carbon Steel	

Note: 1) Graphite optional

2) Disc 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														
L1	8.50	10.00	12.00	16.00	22.00	28.00	34.00	39.00	42.00	42.99	47.99	52.00	60.98	in
(BW)	216	254	305	406	559	711	864	991	1067	1092	1219	1321	1549	mm
L	14.50	16.50	18.50	21.50	27.75	32.75	39	44.5	49.5	44.48	47.99	52.00	60.98	in
(RF)	368	419	470	546	706	832	991	1130	1257	1130	1219	1321	1549	mm
L2	14.62	16.62	18.62	21.62	28.00	33.12	39.38	45.12	50.25	44.88	48.50	52.51	61.73	in
(RTJ)	371	422	473	549	711	842	1000	1146	1276	1140	1232	1334	1568	mm
H	9.50	9.50	11.88	15.38	18.00	20.62	24.00	27.00	30.00	30.00	33.97	36.96	41.96	in
(d)	240	240	300	390	455	525	610	685	760	762	863	939	1066	mm
WT	22	37	45	78	245	530	815	1213	1555	3250	3960	4400	8800	RF
(kg)	44	61	110	155	378	675	1160	1710	2316	2200	2600	2700	4100	BW



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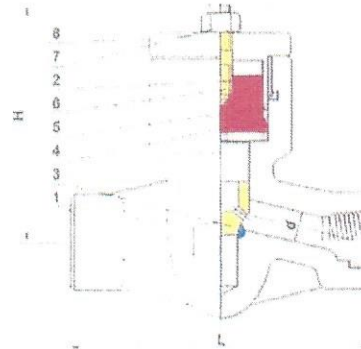
**PRESSURE SEAL
FORGED STEEL CHECK VALVE
900lb/1500lb/2500lb**

Technical Specification

STEEL CHECK VALVES, API 602
STEEL VALVES, ASME B16.34
END TO END,, MANUFACTURER STANDARD
FACE TO FACE, FLANGED, ASME B 16.10
END FLANGES, ASME B16.5
BUTTWELDING ENDS, ASME B16.25
SOCKET-WELDING ENDS, ASME B16.11
SCREWED ENDS, ASME B 1.20.1
INSPECTION AND TEST, API 598

Design description:

BOLTED BONNET CAP
CHOICE OF WB, WELDING BONNET
LIFT SWING TYPE
SEAT RINGS INTEGRAL WITH BODY OF LIFT
HORIZONTAL OR VERTICAL SERVICE
SOCKET WELD ENDS
SW, SOCKET-WELDING ENDS
SC, SCREWED ENDS
BW, BUTT WELDING ENDS
FLANGED ENDS



Form of Major Part Material

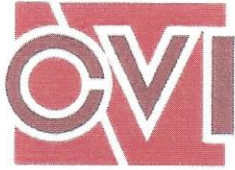
No.	Part name	ASTM Material							
		Carbon Steel	F11	F22	304 Type	316 Type	304L Type	316L Type	20 Alloy
1	Body	A105	A182 F11	A182 F22	A182 F304	A182 F316	A182 F304L	A182 F316L	20-Alloy
2	From Seal Place	A105	A182 F11	A182 F22	A182 F304	A182 F316	A182 F304L	A182 F316L	20-Alloy
3	Disc	A182 F6a	A182 F11+HF	A182 F22+HF	A182 F304	A182 F316	A182 F304L	A182 F316L	20-Alloy
4	From Packing Ring	A182 F6a	A182 F11	A182 F22	A182 F304	A182 F316	A182 F304L	A182 F316L	20-Alloy
5	Promotes Gasket	A182 F6a	A182 F11	A182 F22	A182 F304	A182 F316	A182 F304L	A182 F316L	20-Alloy
6	Bonnet Bolt	A193 B7	A193 B7	A193 B16	A193 B8	A193 B8M	A193 B8	A193 B8M	A193 B8M
7	Bonnet Nut	A194-2H	A194-2H	A194-4	A194-8	A194-8M	A194-8	A194-8M	A194-8M
8	Bonnet	A105	A182 F11	A182 F22	A182 F304	A182 F316	A182 F304L	A182 F316L	20-Alloy

**Class 900~1500 Main Outline Dimensions & Weight
Pressure seal bonnet.
Designs according to BS 5352.**

R,P	1/2	3/4	1	1 1/4	1 1/2	2
F,P	3/8	1/2	3/4	1	1 1/4	1 1/2
L	140	140	140	178	216	216
H	117	117	117	162	195	195
d	12	15	20	28	28	40
Weight (kg)	7.5	7.0	6.8	18.5	18.5	22

**Class 2500 Main Outline Dimensions & Weight
Pressure seal bonnet.
Designs according to BS 5352.**

R,P	1/2	3/4	1	1 1/4	1 1/2	2
L	186	186	186	232	232	279
H	117	117	117	152	150	195
d	11	11	14	25	28	35
Weight (kg)	11.8	11	11	23	26.4	39



Calvary Valve Inc.
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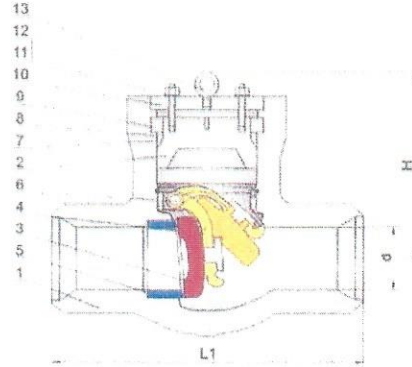
PRESSURE SEAL CAST STEEL SWING CHECK VALVE 2500Lb

Applicable standards:

STEEL CHECK VALVES, API 6D/BS 1868
STEEL CHECK VALVES, ISO 14313
STEEL VALVES, ASME B16.34
FACE TO FACE, ASME B16.10
END FLANGES, ASME B16.5
BUTTWELDING ENDS, ASME B16.25
INSPECTION AND TEST, API 598/API 6D

Design description:

PRESSURE SEAL BONNET CAP
SWING TYPE, ANTI-ROTATION DISC
RENEWABLE SEAT RINGS
NON-PENETRATE DISC SHAFT
HORIZONTAL OR VERTICAL SERVICE
FLANGED OR BUTTWELDING ENDS

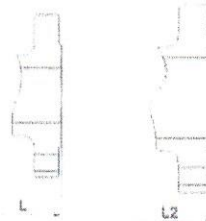


Materials of parts

NO	Part Name	ASTM Material		
		Carbon Steel	1/4Cr-1/2Mo	Carbon Steel
1	Body	A216-WCB	A217-WC6	A351-CF8M
2	Bonnet Cap	A216-WCB	A217-WC6	A351-CF8M
3	Disc	A105+HF	A182-F11+HF	A351-CF8M+HF
4	Hinge	A216-WCB	A217-WC6	A351-CF8M
5	Seat Ring	A105+HF	A182-F11+HF	A240-316+HF
6	Hinge Pin	A276-420	A276-304	A276-316
7	Bonnet Gasket ¹⁾	Steel Ring	304SS Ring	316SS Ring
8	Adapter Ring	Carbon Steel	A276-420	A276-316
9	Retainer	Carbon Steel	A276-420	A276-316
10	Bonnet Clamp	Carbon Steel	Alloy Steel	Stainless Steel
11	Bonnet Stud	A193-B7	A193-B7	A193-B8M
12	Bonnet Stud Nut	A194-2H	A194-2H	A194-8M
13	Eyebolt		Carbon Steel	

Note: 1) Graphite optional

2) Disc 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	2½	3	4	6	8	10	12	in
DN	50	65	80	100	150	200	250	300	mm
ANSI Class 2500Lb									
L1	11.0	13.00	14.50	18.00	24.00	30.00	36.00	41.00	in
(BW)	279	330	368	457	610	762	914	1041	mm
L	17.75	20.00	22.75	26.50	36.00	40.25	50	56	in
(RF)	451	508	578	673	914	1022	1270	1422	mm
L2	17.88	20.50	23.00	26.88	36.50	40.88	50.88	56.88	in
(RTJ)	454	514	584	683	927	1038	1292	1445	mm
H	10.25	10.25	13.75	16.12	18.88	22.38	25.25	32.00	in
	260	260	350	410	480	570	640	815	mm
WT	55	78	95	182	300	630	825	1580	RF
(kg)	93	130	170	315	618	1125	1760	2910	BW



Calvary Valve Inc.
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FORGED STEEL CHECK VALVE

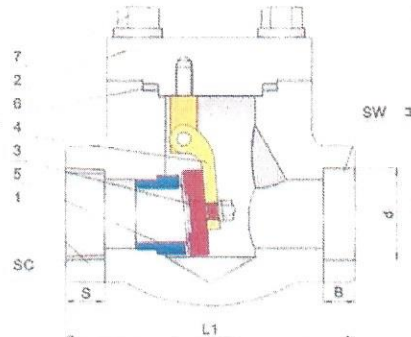
800LB

Applicable standards:

STEEL CHECK VALVES, API 602
STEEL VALVES, ASME B16.34
END TO END, MANUFACTURER STANDARD
FACE TO FACE, FLANGED, ASME B 16.11
END FLANGES, ASME B16.5
BUTTWELDING ENDS, ASME B16.25
SOCKET-WELDING ENDS, ASME B16.11
SOREWED ENDS, ASME B 1.20.1
INSPECTION AND TEST, API 598

Design description:

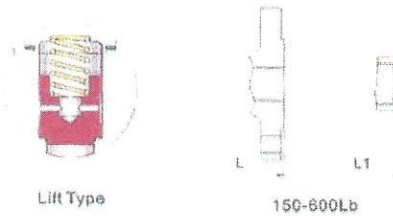
BOLTED BONNET CAP
CHOICE OF WB, WELDING BONNET
LIFT OR SWING TYPE
SEAT RINGS INTEGRAL WITH BODY OF LIFT
HORIZONTAL OR VERTICAL SERVICE
SOCKET WELD ENDS
SW, SOCKET-WELDING ENDS
SC, SCREWED ENDS
BW, BUTTWELDING ENDS
FLANGED ENDS



Materials of parts

NO	Part Name	ASTM Material		
		C-SI	16Cr-12Ni-2Mo	1 1/4Cr-1/2Mo-SI
1	Body	A105	A182-F316	A182-F11
2	Bonnet	A105	A182-F316	A182-F11
3	Disc	A182-F6a	A182-F316	A182-F6a+HF
4	Hinge	A276-410	A276-316	A276-410
5	Seat ¹⁾	A276-410	A182-F316+HF	A276-410+HF
6	Bonnet Gasket ²⁾	Graphite+304	Graphite+316	Graphite+304
7	Bonnet Stud	A193-B7	A193-B8M	A193-B16

Note: 1). Lift type check valve seat ring integral with body.
2). Spiral wound graphite.



Dimensions data

NPS DN	Unit	L1 ¹⁾	L (Flanged Ends)			d	SW		SC		H (Open)	WT ²⁾ (Kg)
			150Lb	300Lb	600Lb		D	B	NPT	S		
3/8	in	3.12	4.00	6.00	6.50	0.354	0.693	0.378	3/8	0.540	2.40	3.8/2.6
10	mm	79	102	152	165	9	17.6	9.6		13.6	61	
1/2	in	3.12	4.25	6.00	6.50	0.354	0.858	0.378	1/2	0.535	2.40	5.6/3.4
15	mm	79	108	152	165	10	21.8	9.6		13.6	61	
3/4	in	3.62	4.62	7.00	7.50	0.512	1.087	0.500	3/4	0.547	2.40	7.0/4.7
20	mm	92	117	178	190	13	27.1	12.7		13.9	61	
1	in	4.38	5.00	8.00	8.50	0.689	1.331	0.500	1	0.681	3.07	12.5/9.2
25	mm	111	127	203	216	17.5	33.8	12.7		17.3	78	
1 1/4	in	4.75	5.50	8.50	9.00	0.906	1.677	0.500	1 1/4	0.709	3.31	17/10.5
32	mm	120	140	216	229	23	42.6	12.7		18	64	
1 1/2	in	4.75	6.50	9.00	9.50	1.142	1.917	0.500	1 1/2	0.724	10.25	23.5/13.3
40	mm	120	165	229	241	30	48.7	12.7		18.4	3.98	
2	in	5.50	8.00	10.50	11.50	1.378	2.406	0.626	2	0.756	4.72	38.8/18.9
50	mm	140	203	287	292	35	61.1	15.9		19.2	120	

Notes: 1) BW, SW or SC.
2) 600Lb-RF/800Lb-(BW/SW/SC).



HOW TO ORDER AND SPECIFY API 600 CAST STEEL CHECK VALVES

A TYPE	
C	CAST BODY CHECK VALVE

B DN			
01	1"	10	10"
02	2"	12	12"
03	3"	16	16"
06	6"	24	24" etc.

C PRESSURE CLASS			
15	Class 150	90	Class 900
30	Class 300	150	Class 1500
60	Class 600	250	Class 2500
80	800	20	2 M

D END	
RJ	Ring joint
BW	Butt weld
RF	Raised face
SE	Screwed In

E BODY					
A1	WCB	A5	CF8M	B1	F316
A2	WCC	A6	CF8	B2	F304
A3	LCB	A7	WC6		
A4	LCC	A8	WC9		

F TRIM			
G1	410	G10	316
G2	304	G11	Monel – Hard Faced
G3	310	G12	316 – Hard Faced
G4	410-Hard (Hard F6)	G13	Alloy 20
G5	410-Full Hard Faced	G14	Alloy 20 – Hard Faced
G6	410 (F6) And Cu-Ni	G15	304 – Full Hard Faced
G7	410 (F6) Hard F6	G16	316 – Full Hard Faced
G8	F6 (410) – Hard Faced	G17	347 – Full Hard Faced
G9	Monel	G18	Alloy 20 – Full Hard Faced

G SOFT GOODS	
E1	VITON
E2	HNBR
E3	BUNA
E4	GRAPHITE + SS

H OPERATION			
0	Standard Flow Controlled	3	Pneumatic
1	Outside Lever With Locking Device	4	Hydraulic
2	Slam Retarder		

A	B	C	D	E	F	G	H
TYPE	DN	CLASS	END	BODY	TRIM	SOFT GOODS	OPERATION

EXAMPLE	DESCRIPTION
C-06-30-RF-A1-G5-E4-1	CAST STEEL API 600 CHECK VALVE, 6" 300 CLASS, RAISED FACE, BODY WCB, TRIM #5 FULL STELLITE, SOFT GOODS GRAPHITE SS, OPERATION OUTSIDE LEVER WITH LOCKING DEVICE