

Standard Check Valves

Carbon & Stainless Steel

Sizes 2" - 24"

Class 150 - 2500



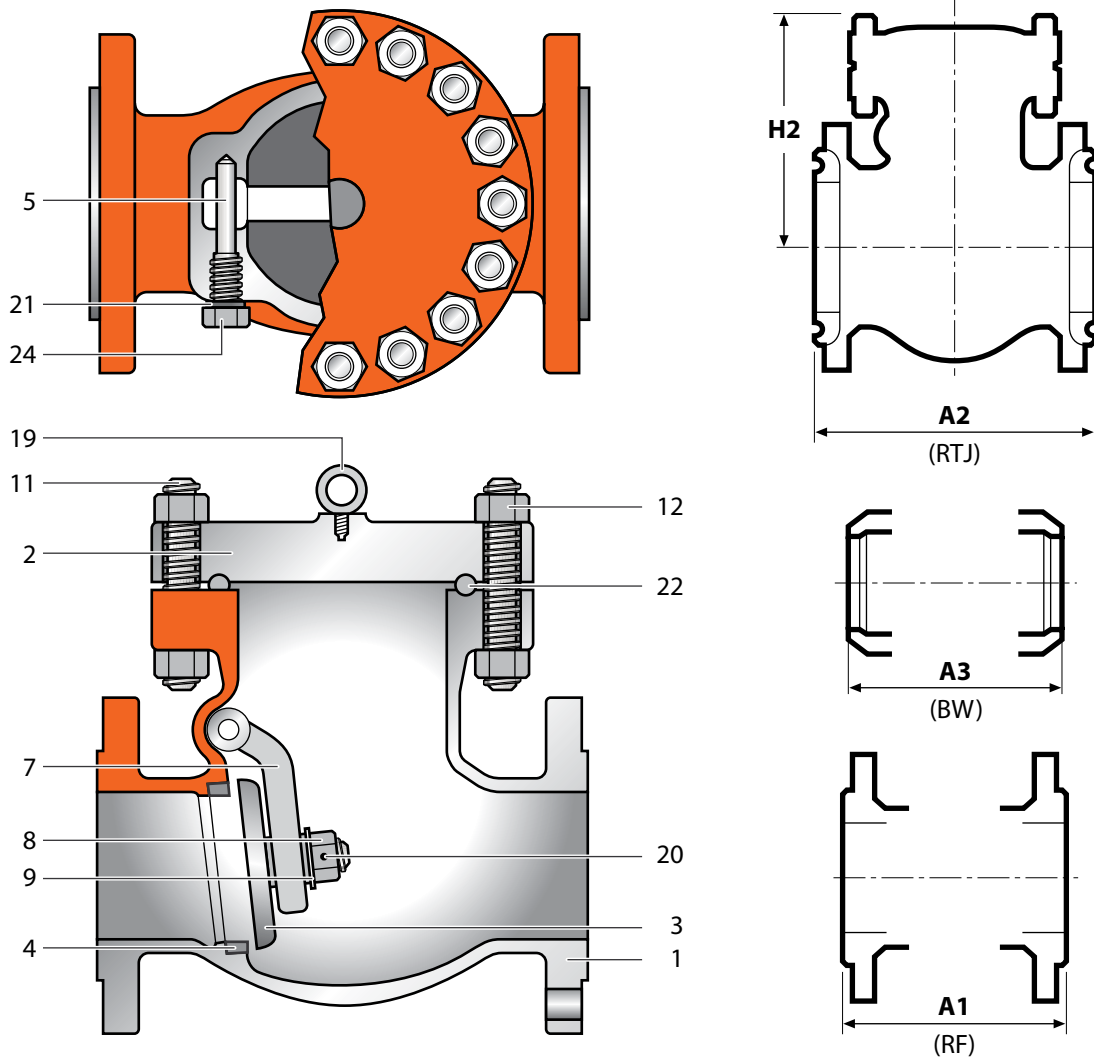
Design and Manufacturing Standards

Basic Design	ANSI/ASME B16.34
Shell Wall Thickness	API 16.34
Face to Face Dimension	ANSI/ASME B16.10
Flange End Dimension	ANSI/ASME B16.5 (2" to 24") MSS SP-44 (26" & up)
Butt-Weld End Dimension	ANSI/ASME B16.25
Inspection & Testing	API 598



Southern California Valve

2" - 24"



BILL OF MATERIAL

NO	NAME OF PART	ASTM SPECIFICATION						
		CARBON STEEL	HIGH TEMPERATURE SERVICE			LOW TEMPERATURE SERVICE	STAINLESS STEEL	
1	BODY	A216-WCB	A217-WC6	A217-WC9	A217-C5	A352-LCB/LC2/LC3	CF8M	CF8C
2	COVER	A216-WCB	A217-WC6	A217-WC9	A217-C5	A352-LCB/LC2/LC3	CF8M	CF8C
3	DISC	WCB+CR13	A217-WC6	A217-WC9	A217-C5	A352-LCB/LC2/LC3	CF8M	CF8C
4	BODY SEAT RING	A105+HARD FACE	A182-F11	A182-F22	A182-F5a	A182-F304	F316	F347
5	HINGE PIN	A276-410	A276-410	A276-410	A276-410	A276-304	F316	F347
7	ARM	A216-WCB	A217-WC6	A217-WC9	A217-C5	A352-LCB/LC2/LC3	CF8M	CF8C
8	DISC NUT	AISI 304					F316	F347
9	DISC WASHER	AISI 304					F316	F347
11	BONNET BOLT	A193-B7	A193-B16	A193-B16	A193-B16	A320-L7	A193-B8	A193-B8
12	BONNET NUT	A194-2H	A194-4	A194-4	A194-4	A194-4	A194-8	A194-8
19	EYE BOLT	A105					SS	SS
20	SPLIT PIN	AISI 304					F316	F347
21	PLUG GASKET	COMMERCIAL						
22	GASKET	COMMERCIAL						
24	PLUG	A105					F316	F316

CLASS 150 - CARBON & STAINLESS STEEL STANDARD SWING CHECK VALVES

DIMENSIONS & WEIGHTS

VALVE SIZE	nps	2	2.5	3	4	6	8	10	12	14	16	18	20	24	28	30	36
	ds	50	65	80	100	150	200	250	300	350	400	450	500	600	700	750	900
A1 (RF)	in	8.0	8.5	9.5	11.5	14.0	19.5	24.5	27.5	31.0	34.0	38.5	38.5	51.0	57.0	60.0	77.0
	mm	203	216	241	292	356	495	622	699	787	864	978	978	1295	1448	1524	1956
A2 (RTJ)	in	5.8	6.4	6.9	8.3	11.3	13.6	16.7	19.5	23.8	25.6	27.9	29.6	38.5	40.0	45.2	53.1
	mm	147	163	176	210	288	346	424	496	605	649	708	752	978	1016	1149	1349
A3 (BW)	in	8.0	8.5	9.5	11.5	14.0	19.5	24.5	27.5	31.0	34.0	38.5	38.5	51.0	57.0	60.0	77.0
	mm	203	216	241	292	356	495	622	699	787	864	978	978	1295	1448	1524	1956
H2	in	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	mm	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
WGT (RF)	lb	35.2	48.5	66.1	97.0	172.0	260.2	520.4	757.8	929.7	1398	1799	2165	3925	4520.3	4643.9	7386.8
	kg	16	22	30	44	78	118	236	344	422	634	816	982	1780	2050	2108	3350
WGT (BW)	lb	26.4	33.0	46.3	57.3	136.7	200.7	449.8	645.5	775.5	1195.0	1579.0	1879.0	3528.0	4300.0	4423.6	6945.8
	kg	12	15	21	26	62	91	204	293	352	542	716	852	1600	1950	2008	3150

CLASS 300 - CARBON & STAINLESS STEEL STANDARD SWING CHECK VALVES

DIMENSIONS & WEIGHTS

VALVE SIZE	nps	2	2.5	3	4	6	8	10	12	14	16	18	20	24	28	30	36
	ds	50	65	80	100	150	200	250	300	350	400	450	500	600	700	750	900
A1 (RF)	in	10.5	11.5	12.5	14.0	17.5	21.0	24.5	28.0	33.0	34.0	38.5	40.0	53.0	59.0	62.75	82.0
	mm	267	292	318	356	445	533	622	711	838	864	978	1016	1346	1499	1594	2083
A2 (RTJ)	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	60.0	63.75	83.12
	mm	283	308	333	371	460	549	638	711	854	880	994	1035	1368	1524	1619	2108
A3 (BW)	in	10.5	11.5	12.5	14.0	17.5	21.0	24.5	28.0	33.0	34.0	38.5	40.0	53.0	59.0	62.75	82.0
	mm	267	292	318	356	445	533	622	711	838	864	978	1016	1346	1499	1594	2083
H2	in	6.4	7.1	7.8	8.7	12.8	14.5	18.6	20.9	22.8	27.4	31.4	30.6	39.6	45.2	50.0	60.6
	mm	163	180	197	220	326	368	473	530	580	695	797	776	1007	1149	1270	1540
WGT (RF)	lb	52.9	81.5	99.1	149.8	301.8	485.1	595.4	1091.5	1498.0	2094.8	2646.0	3304.5	4851.0	6174.0	7497.0	11025.0
	kg	24	37	45	68	137	220	270	495	680	950	1200	1500	2200	2800	3400	5000
WGT (BW)	lb	46.3	77.1	77.1	112.4	242.3	401.3	463.1	1014.3	1156.6	1764.0	2138.9	2687.7	3924.9	5292.0	6504.8	9481.5
	kg	21	35	35	51	110	182	210	460	525	800	970	1220	1780	2400	2950	4300

CLASS 600 - CARBON & STAINLESS STEEL STANDARD SWING CHECK VALVES

DIMENSIONS & WEIGHTS

VALVE SIZE	nps	2	2.5	3	4	6	8	10	12	14	16	18	20	24	28	30
	ds	50	65	80	100	150	200	250	300	350	400	450	500	600	700	750
A1 (RF)	in	11.5	13.0	14.0	17.0	22.0	26.0	31.0	33.0	35.0	39.0	43.0	47.0	55.0	63.0	65.0
	mm	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	1600	1651
A2 (RTJ)	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	63.5	65.5
	mm	295	333	359	435	562	664	791	841	892	994	1095	1200	1407	1613	1664
A3 (BW)	in	11.5	13.0	14.0	17.0	22.0	26.0	31.0	33.0	35.0	39.0	43.0	47.0	55.0	63.0	65.0
	mm	292	330	356	432	559	660	787	838	889	991	1092	1194	1397	1600	1651
H2	in	8.0	8.6	10.0	12.5	15.6	20.8	24.6	23.8	26.1	32.0	37.8	40.5	47.3	53.1	56.3
	mm	202	219	253	318	397	529	625	604	664	812	960	1029	1202	1349	1429
WGT (RF)	lb	88.2	121.2	158.6	253.6	550.8	926.1	1349	1786.1	2425.5	3638	3969.0	6168.4	7197	9040.5	11025.0
	kg	40	55	72	115	250	420	612	810	1100	1650	1800	2800	3264	4100	5000
WGT (BW)	lb	68.4	99.1	132.2	176.4	451.6	804.6	1085	1576.6	1940.4	2955	3197.3	5177.1	5654	7717.5	9481.5
	kg	31	45	60	80	205	365	492	715	880	1340	1450	2350	2564	3500	4300

CLASS 900 - CARBON & STAINLESS STEEL STANDARD SWING CHECK VALVES

DIMENSIONS & WEIGHTS

VALVE SIZE	nps	2	2.5	3	4	6	8	10	12	14	16	18	20	24	28	30
	ds	50	65	80	100	150	200	250	300	350	400	450	500	600	700	750
A1 (RF)	in	14.5	16.5	15.0	18.0	24.0	29.0	33.0	38.0	40.5	44.5	48.0	52.0	61.0	69.0	73.0
	mm	368	419	381	457	610	737	838	965	1029	1130	1219	1321	1549	1753	1854
A2 (RTJ)	in	14.62	16.62	15.12	18.12	24.12	29.12	33.12	38.12	40.88	44.88	48.5	52.5	61.75	69.9	73.9
	mm	371	422	384	460	613	740	841	968	1038	1140	1232	1333	1568	1775	1876
A3 (BW)	in	14.5	16.5	15.0	18.0	24.0	29.0	33.0	38.0	40.5	44.5	48.0	52.0	61.0	69.0	73.0
	mm	368	419	381	457	610	737	838	965	1029	1130	1219	1321	1549	1753	1854
H2	in	13.1	13.7	12.6	16.7	18.9	22.2	28.3	30.7	31.8	33.0	36.3	41.4	47.2	55.1	61.8
	mm	333	349	321	423	479	565	721	781	807	838	921	1051	1200	1400	1569
WGT (RF)	lb	154.4	242.6	242.6	471.4	837.9	1374.7	2535.8	3197.3	3858.8	5336.1	7166.3	8820.0	12789.0	17309.3	19955.3
	kg	70	110	110	214	380	624	1150	1450	1750	2420	3250	4000	5800	7800	9050
WGT (BW)	lb	110.3	191.8	187.4	383.3	661.5	1088.3	2094.8	2602.0	3197.3	4520.3	5953.5	7275.1	9922.5	14663.3	16868.3
	kg	50	87	85	174	300	494	950	1180	1450	2050	2700	3300	4500	6650	7650

CLASS 1500 - CARBON & STAINLESS STEEL STANDARD SWING CHECK VALVES

DIMENSIONS & WEIGHTS

VALVE SIZE	nps	2	2.5	3	4	6	8	10	12	14	16	18	20	24
	ds	50	65	80	100	150	200	250	300	350	400	450	500	600
A1 (RF)	in	14.5	16.5	18.5	21.5	27.8	32.8	39.0	44.5	49.5	54.5	60.5	65.5	76.5
	mm	368	419	470	546	706	833	991	1130	1257	1383	1537	1664	1943
A2 (RTJ)	in	14.62	16.62	18.62	21.62	28.0	33.13	39.38	45.12	50.25	55.38	61.38	66.38	77.62
	mm	371	422	473	549	711	841	1000	1146	1276	1407	1559	1686	1972
A3 (BW)	in	14.5	16.5	18.5	21.5	27.8	32.8	39.0	44.5	49.5	54.5	60.5	65.5	76.5
	mm	368	419	470	546	706	833	991	1130	1257	1383	1537	1664	1943
H2	in	13.1	13.7	15.3	16.5	23.1	26.8	29.8	39.7	40.8	42.0	47.1	51.1	57.1
	mm	333	349	389	419	587	680	756	1008	1035	1067	1197	1299	1451
WGT (RF)	lb	154.4	242.6	374.9	661.5	1531.1	2624.0	4079.3	7336	7938.0	10804.5	14553.0	17970.8	25908.8
	kg	70	110	170	300	695	1190	1850	3330	3600	4900	6600	8150	11750
WGT (BW)	lb	110.3	191.8	297.7	540.2	1233.7	2127.8	3263.4	6080.3	6251.2	8599.5	11576.3	14222.3	19845.0
	kg	50	87	135	245	560	965	1480	2760	2835	3900	5250	6450	9000

CLASS 2500 - CARBON & STAINLESS STEEL STANDARD SWING CHECK VALVES

DIMENSIONS & WEIGHTS

VALVE SIZE	nps	2	2.5	3	4	6	8	10	12	14	16
	ds	50	65	80	100	150	200	250	300	350	400
A1 (RF)	in	17.75	20.0	22.75	26.5	36.0	40.25	50.0	56.0	62.0	68.0
	mm	451	508	578	673	914	1022	1270	1422	/	/
A2 (RTJ)	in	17.87	20.25	23.0	26.88	36.5	40.87	50.88	56.88	/	/
	mm	454	514	584	683	927	1038	1292	1445	/	/
A3 (BW)	in	17.75	20.0	22.75	26.5	36.0	40.25	50.0	56.0	62.0	68.0
	mm	451	508	578	673	914	1022	1270	1422	/	/
H2	in	16.4	16.5	17.4	18.9	20.1	28.0	33.5	39.4	47.2	51.1
	mm	416	419	441	479	511	711	851	1000	1200	1299
WGT (RF)	lb	330.8	529.2	771.8	1433.3	3197.3	5622.8	8709.8	12568.5	/	/
	kg	150	240	350	650	1450	2550	3950	5700	/	/
WGT (BW)	lb	264.6	430.0	617.4	1190.7	2646.0	4851.0	6945.8	10032.8	13671.0	17860.5
	kg	120	195	280	540	1200	2200	3150	4550	6200	8100