

STANDARD MATERIALS (Other materials available)

PART	MATERIALS			
Body	A216 Gr. WCB	A217 Gr. WC6	A217 Gr. WC9	A217 Gr. C12A
Bonnet	A105	A182 F11	A182 F22	A182 F91
Cap	A216 Gr. WCB	A217 Gr. WC6	A217 Gr. WC9	A217 Gr. C12A
Disc	A105 or A216 WCB + Stellite 6 Faced	A182 F11 or A217 WC6 + Stellite 6 Faced	A182 F22 or A217 WC9 + Stellite 6 Faced	A182 F91 or A217 Gr. C12A + Stellite 6 Faced
Seat Ring	Carbon Steel + Stellite 6 Faced	A182 F11 + Stellite 6 Faced	A182 F22 + Stellite 6 Faced	A182 F91 + Stellite 6 Faced
Protective Ring	SST 410			
Segmental Thrust Ring	SST 410			
Gasket	SST 304L			
Carrier	A216 Gr. WCB	A217 Gr. WC6	A217 Gr. WC9	A217 Gr. C12A
Carrier Pin	SST 410			
Disc Nut	Series 300 SST			
Disc Carrier Hanger	A216 Gr. WCB	A217 Gr. WC6	A217 Gr. WC9	A217 Gr. C12A
Disc Carrier Hanger Bolts	A193 Gr. B7	A193 Gr. B16		
Body / Cap Stud	A193 Gr. B7	A193 Gr. B16		
Body / Cap Nut	A194 Gr. 2H	A194 Gr. 7		

Class	Figure Number
600	1661
900	1961
1500	1161
2500	1261

Design Specifications

Item	Applicable Specification
Wall thickness	API 600
Pressure - temperature ratings	ASME B16.34
General valve design	ASME B16.34
End to End dimensions	ASME B16.10
Flange design	ASME B16.5
Butt Weld design	ASME B16.25
Materials	ASTM

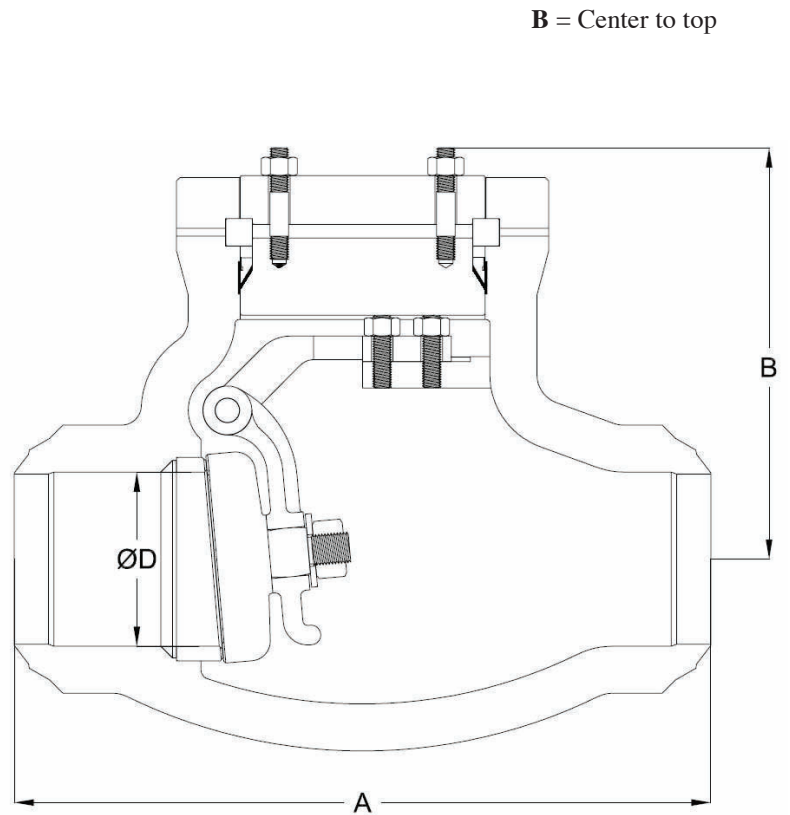
DESIGN FEATURES:

- **Standard trim** is stellite faced seat and disc seat surfaces, and 13% chrome carrier pin (API trim 5). Other trims available on request.
- **Valves** are full port design per ASME B16.34 table A-1.
- **Seat faces** lapped for smooth finish and superior sealing.
- **Wall thickness** per heavy wall API 600 requirements.
- **Swivel disc** for improved seat alignment and longer life.
- **Each** valve is shell and seat pressure tested per industry standard API 598.
- **Check** valves are suitable for service in horizontal line with cap vertical or in a vertical line with flow upward.
- **Carrier Pin** is confined within the body wall and is not accessible from the exterior, thus no side body penetrations, eliminating a common leak path.
- **Weld** end valves are B16.10 short pattern design. Flanged end valves are available on request and are B16.10 long-pattern design. Weld end valve dimensions given in table on next page.
- **Each** valve has a unique certification number that is traceable to the valve certification sheet which includes MTR data, pressure test, inspection result and certificate of conformance.
- **Other** available options as follows:
 - Alternate valve materials such as chrome and stainless steel alloys
 - Alternate trim materials
 - Drain and other auxiliary connections
 - NACE service
 - Special cleaning for applications such as oxygen or chlorine
 - Other options available as specified

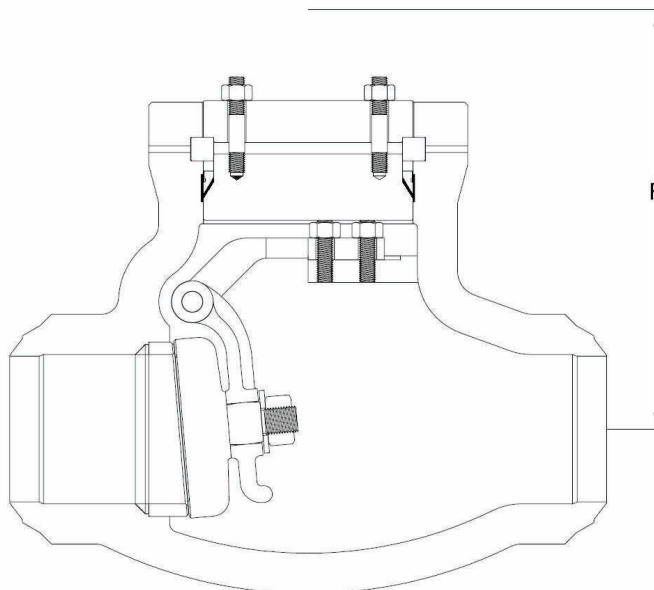
SWING CHECK VALVE DIMENSIONS (CLASS 600—2500).

SIZE	ASME 600			ASME 900			ASME 1500		
	in	A	B	D	A	B	D	A	B
2	7.00	6.8	2.00	8.50	8.6	1.87	8.50	8.7	1.87
50	178	172	51	216	218	48	216	221	48
3	10.00	8.8	3.00	12.00	10.2	2.87	12.00	10.2	2.75
80	254	224	76	305	259	73	305	259	70
4	12.00	11.1	4.00	14.00	11.7	3.87	16.00	12.2	3.62
100	305	282	102	356	297	98	406	310	92
6	18.00	13.0	6.00	20.00	14.3	5.75	22.00	14.5	5.37
150	457	330	152	508	363	146	559	367	136
8	23.00	14.6	7.87	26.00	16.6	7.50	28.00	18.9	7.00
200	584	370	200	660	422	191	711	480	178
10	28.00	16.6	9.75	31.00	19.4	9.37	34.00	22.1	8.75
250	711	422	248	787	493	238	864	561	222
12	32.00	18.2	11.75	36.00	21.7	11.12	39.00	26.3	10.37
300	813	462	299	914	551	282	991	669	263

SIZE	ASME 2500		
	in	A	B
2	11.00	9.6	1.50
50	279	244	38
3	14.50	12.4	2.25
80	368	316	57
4	18.00	14.5	2.87
100	457	367	73
6	24.00	16.0	4.37
150	610	408	111
8	30.00	20.1	5.75
200	762	510	146
10	36.00	23.2	7.25
250	914	588	184
12	41.00	26.5	8.62
300	1041	672	219



SIZE	ASME 600					ASME 900					ASME 1500					ASME 2500					
	in	F	in	WT	lb	C _v	F	in	WT	lb	C _v	F	in	WT	lb	C _v	F	in	WT	lb	C _v
mm		mm		kg			mm		kg			mm		kg			mm		kg		
2	8.8	40	75	10.6	46	65	10.7	46	65	11.6	117	40									
50	224	18	269	21	272	21	295	53													
3	10.8	71	175	12.2	75	160	12.2	93	145	14.4	196	100									
80	274	32	310	34	310	42	366	89													
4	13.1	121	315	14.7	150	300	15.2	163	260	17.5	313	165									
100	333	55	373	68	386	74	445	142													
6	16.0	287	755	17.3	370	700	17.5	514	610	19.0	628	400									
150	406	130	439	168	445	233	483	285													
8	17.6	573	1350	19.6	1019	1220	22.9	1111	1070	24.1	1319	720									
200	447	260	498	462	582	504	612	598													
10	20.6	816	2070	23.4	1599	1910	26.1	1713	1670	27.2	1727	1140									
250	523	370	594	725	663	777	691	783													
12	22.2	1080	3120	25.7	2362	2790	30.3	2547	2430	31.5	3334	1680									
300	564	490	653	1071	770	1155	800	1512													



F = Dismantling dimension
WT = Weight
C_v = Flow coefficient