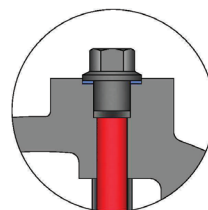
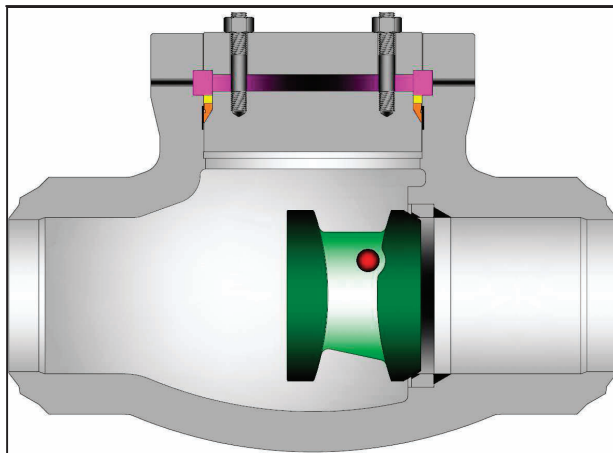


PRESSURE SEAL TILTING DISC CHECK VALVES
CAST CARBON , STAINLESS STEEL OR ALLOY STEEL
2 TO 24" (50 TO 600 mm)
ASME CLASSES 600 TO 2500



Side Plug Configuration

STANDARD MATERIALS (Other materials available)

Class	Figure Number
600	1695
900	1995
1500	1195
2500	1295

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			
Support Plate	Steel			
Gasket	SST 304L			
Disc Pin	SST 410			
Disc Nut	Series 300 SST			
Pin Plug Bolts	A193 Gr. B7	A193 Gr. B16		
Pin Plug Nuts	A194 Gr. 2H	A194 Gr. 7		
Pin Plug Gasket	Graphite Coated SST			
Bonnet Stud	A193 Gr. B7	A193 Gr. B16		
Bonnet Nut	A194 Gr. 2H	A194 Gr. 7		

DESIGN FEATURES:

- **Standard trim** is stellite faced seat and disc seat surfaces, and 13% chrome disc 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.
- **Body and cap joint** accurately machined. Gasket details on page 6.
- **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.
- **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

Design Specifications

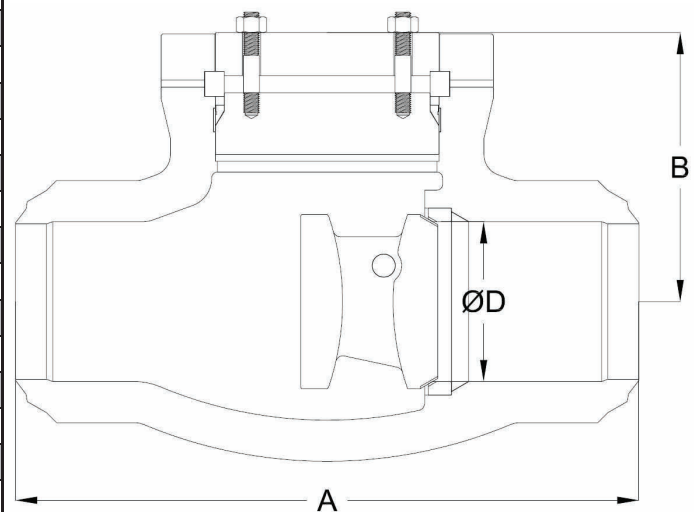
Item	Applicable Specification
Wall thickness	API 600
Pressure - temperature ratings	ASME B16.34
General valve design	ASME B16.34
End to End dimensions	ASME B16.10
Flange design	ASME B16.5
Butt Weld design	ASME B16.25
Materials	ASTM

TILTING DISC CHECK VALVE DIMENSIONS (CLASS 600—2500).

SIZE	ASME 600			ASME 900			ASME 1500		
in	A	B	D	A	B	D	A	B	D
mm									
2	7.00	7.5	2.00	8.50	5.6	1.87	8.50	7.6	1.87
50	178	191	51	216	143	48	216	194	48
2½	8.50	7.9	2.50	10.00	8.0	2.25	10.00	8.1	2.25
65	216	200	64	254	203	57	254	206	57
3	10.00	8.3	3.00	12.00	9.0	2.87	12.00	9.0	2.75
80	254	210	76	305	229	73	305	229	70
4	12.00	9.4	4.00	14.00	9.9	3.87	16.00	9.9	3.62
100	305	238	102	356	251	98	406	251	92
6	18.00	10.6	6.00	20.00	11.6	5.75	22.00	10.3	5.37
150	457	270	152	508	295	146	559	260	136
8	23.00	12.0	7.87	26.00	13.1	7.50	28.00	11.8	7.00
200	584	305	200	660	333	191	711	298	178
10	28.00	13.6	9.75	31.00	15.1	9.37	34.00	15.9	8.75
250	711	346	248	787	384	238	864	403	222
12	32.00	16.1	11.75	36.00	18.1	11.12	39.00	19.0	10.37
300	813	410	298	914	460	282	991	483	263
14	35.00	17.8	12.87	39.00	19.5	12.25	42.00	20.1	11.37
350	889	451	327	991	495	311	1067	511	289
16	39.00	20.1	14.75	43.00	21.9	14.00	47.00	22.3	13.00
400	991	511	375	1092	556	356	1194	565	330
18	43.00	21.8	16.50	48.00	22.9	15.75	60.50	23.3	14.62
450	1092	552	419	1219	581	400	1537	591	371
20	47.00	23.3	18.25	52.00	24.4	17.50	65.50	24.4	16.37
500	1194	591	464	1321	619	445	1664	619	416
24	55.00	25.4	22.00	61.00	27.4	21.00	76.50	28.9	19.62
600	1397	645	559	1549	695	533	1943	733	498

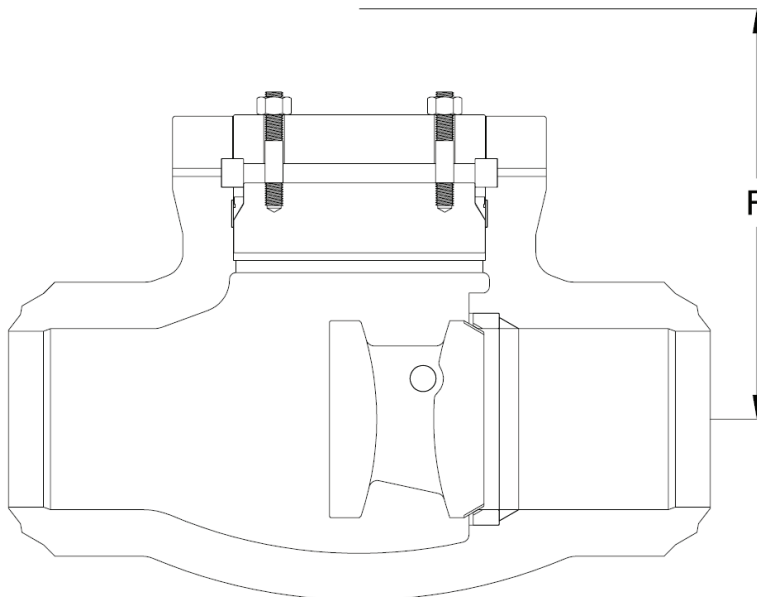
SIZE	ASME 2500		
in	A	B	D
mm			
2	11.00	7.3	1.50
50	279	184	38
2½	13.00	7.9	1.87
65	330	200	48
3	14.50	9.4	2.25
80	368	238	57
4	18.00	9.9	2.87
100	457	251	73
6	24.00	11.8	4.37
150	610	298	111
8	30.00	14.6	5.75
200	762	371	146
10	36.00	16.6	7.25
250	914	422	184
12	41.00	21.3	8.62
300	1041	540	219
14	44.00	22.9	9.50
350	1118	581	241
16	49.00	20.5	10.87
400	1245	521	276
18	55.00	24.8	12.25
450	1397	629	311

B = Center to top



PRESSURE SEAL TILTING DISC CHECK VALVES
CAST CARBON , STAINLESS STEEL OR ALLOY STEEL
2 TO 24" (50 TO 600 mm)
ASME CLASSES 600 TO 2500

SIZE	ASME 600					ASME 900					ASME 1500					ASME 2500				
in mm	F	in mm	WT	lb kg	C _v	F	in mm	WT	lb kg	C _v	F	in mm	WT	lb kg	C _v	F	in mm	WT	lb kg	C _v
2	10.0		90		90	8.2		120		80	10.2		140		80	10.4		200		50
50	254		41			208		54			259		63			264		91		
2½	11.2		90		145	11.1		120		115	11.4		140		115	11.2		200		80
65	284		41			282		54			290		63			284		91		
3	12.1		150		205	12.5		180		190	12.8		210		175	13.0		240		115
80	307		68			318		82			325		95			330		42		
4	14.5		180		375	14.6		210		350	14.9		245		310	14.8		400		200
100	368		82			371		95			378		111			376		100		
6	17.9		245		900	18.4		400		830	17.7		440		720	17.6		560		480
150	455		111			467		181			450		200			448		235		
8	21.3		460		1600	21.9		505		1450	22.1		555		1270	21.9		970		860
200	541		209			556		229			561		252			557		440		
10	25.4		1100		2500	26.5		1160		2300	26.7		1545		2000	26.6		1655		1400
250	645		499			673		526			678		701			676		751		
12	30.1		1735		3700	31.3		1815		3300	32.2		1980		2900	31.9		2840		2000
300	765		787			795		823			818		898			810		1290		
14	33.9		2365		4500	34.2		2470		4000	33.8		3350		3500	34.8		4230		2400
350	861		1073			869		1120			859		1519			884		1918		
16	38.0		2990		5900	38.7		3125		5300	38.5		4720		4500	36.1		5170		3200
400	965		1356			983		1417			978		2141			917		2345		
18	41.2		3620		7600	42.8		3780		6900	42.3		5475		6000	41.5		6990		4200
450	1046		1642			1087		1714			1074		2483			1054		3170		
20	44.6		4250		9300	45.2		4435		8600	45.6		6500		7500					
500	1133		1927			1148		2011			1158		2948							
24	50.7		5880		14000	52.0		6500		12300	52.4		8900		10800					
600	1288		2667			1321		2948			1331		4036							



F = Dismantling dimension

WT = Weight

C_v = Flow coefficient