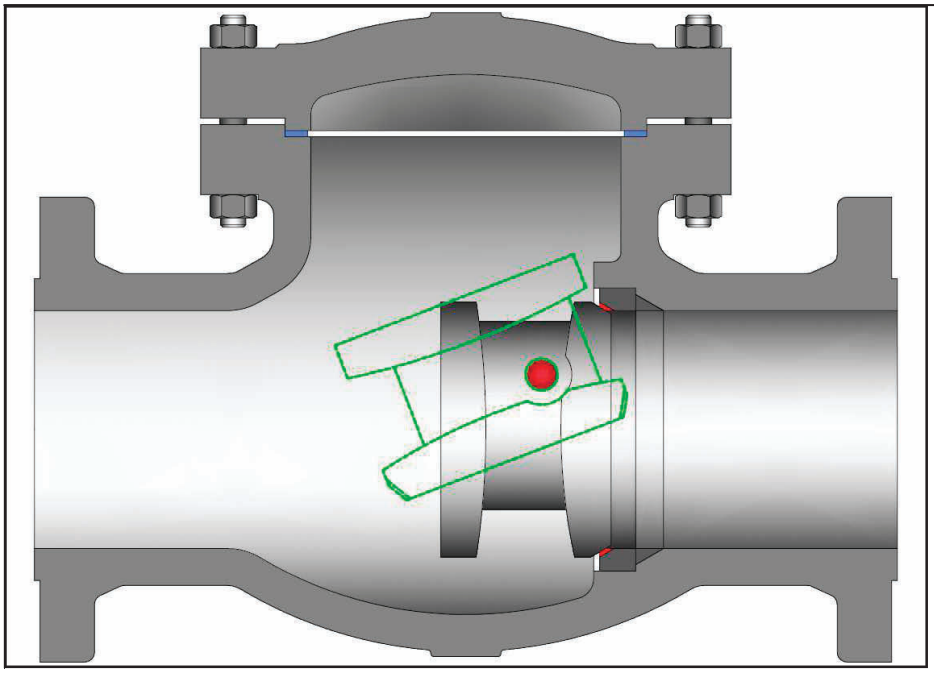
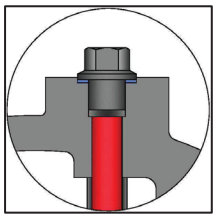
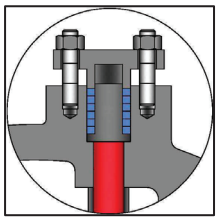
API 600 WALL TILTING DISC CHECK VALVES
BOLTED BONNET, ASME CLASSES 150 TO 1500
CAST CARBON OR ALLOY STEEL





(1) Side Plug Gasket Design



(2) Side Plug Packing Design

Class	Figure Number
150	1595
300	3095
600	6095
900	9095
1500	1395

NOTE: See page 52 for flow, safety and maintenance information.

DESIGN FEATURES:

- **Standard trim** is API trim 8 for carbon steel valves, API trim 5 for chrome alloy valves, and API trim 10 for CF8M (T316) valves for optimal performance under normal conditions. Other trim materials available on request.
- **Seat face:** Stellited, ground and lapped to a smooth finish.
- **Body and cap joint** accurately machined.
- **Flanges:**
  Classes 150-300: 1/16" raised face.
  Class 600 and up: 1/4" raised face.
  Finish 125-250 AARH for all valves.
- **Check** valves are suitable for service in horizontal line with cap vertical or in a vertical line with flow upward.

STANDARD MATERIALS (Other materials available)

PART	MATERIALS		
Body	A216 Gr. WCB	A217 Gr. WC6	A217 Gr. WC9
Cap	A216 Gr. WCB	A217 Gr. WC6	A217 Gr. WC9
Disc	A105 + 13% CR or A216 WCB + 13% CR Faced	WC6 + Stellite 6 Faced	WC9 + Stellite 6 Faced
Seat Ring	Carbon Steel + Stellite 6 Faced	A182 F11 + Stellite 6 Faced	A182 F22 + Stellite 6 Faced
Gasket	Class 150: Corrugated SST Encapsulated w/ Graphite		
	Class 300 to 600: Spiral Wound SST w/ Graphite		
	Class 900 to 1500: RTJ		
Pin	SST 410		
Bushing	SST 410		
Pin Plug (1)	SST 410		
Pin Plug Gasket (1)	Graphite coated SST		
Body / Cap Stud	A193 Gr. B7	A193 Gr. B16	
Body / Cap Nut	A194 Gr. 2H	A194 Gr. 7	
Gland Flange (2)	A216 WCB	A217 WC6	A217 WC9
Gland (2)	SST 410		
Packing (2)	Graphite		
Gland Flange Stud (2)	A193 Gr. B7	A193 Gr. B16	
Gland Flange Nut (2)	A194 Gr. 2H	A194 Gr. 7	
Identification Plate	Series 300 SST		

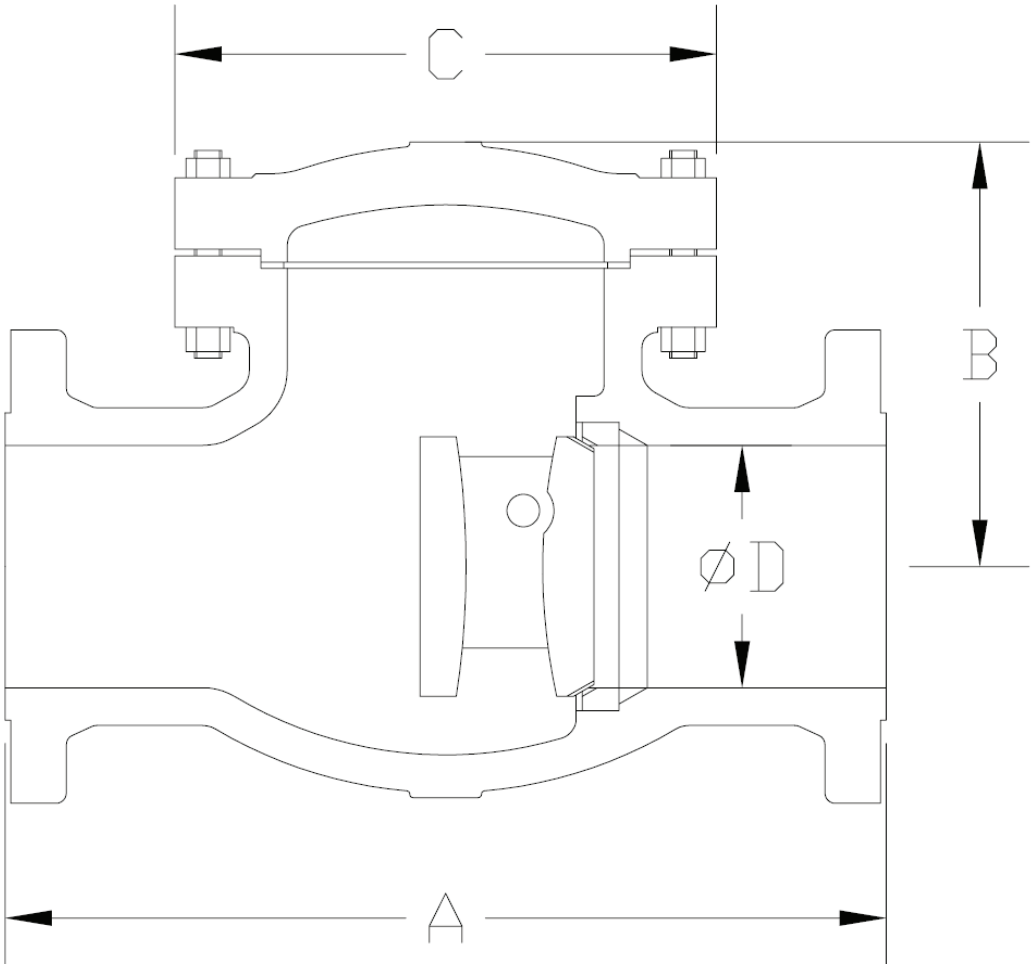
Design Specifications

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 150—600).

SIZE	ASME 150				ASME 300				ASME 600			
in	A	B	C	D	A	B	C	D	A	B	C	D
mm	WE/FE				WE/FE				WE/FE			
2 ½	8.50	6.3	7.1	2.50	11.50	7.5	8.1	2.50	13.00	9.5	8.0	2.50
65	216	160	180	64	292	190	205	64	330	242	203	64
3	9.50	6.8	7.7	3.00	12.50	9.1	6.7	3.00	14.00	9.9	8.9	3.00
80	241	172	195	76	318	231	170	76	356	252	225	76
4	11.50	7.6	8.9	4.00	14.00	10.6	9.5	4.00	17.00	10.6	9.7	4.00
100	292	193	225	102	356	268	240	102	432	269	245	102
6	14.00	10.9	11.0	6.00	17.50	12.8	11.6	6.00	22.00	12.8	12.9	6.00
150	356	277	280	152	444	325	295	152	559	324	328	152
8	19.50	12.7	14.4	8.00	21.00	15.5	14.8	8.00	26.00	15.1	15.8	7.88
200	495	324	365	203	533	394	375	203	660	384	402	200
10	24.50	13.2	19.9	10.00	24.50	17.4	18.3	10.00	31.00	19.3	19.5	9.75
250	622	336	506	254	622	442	465	254	787	490	495	248
12	27.50	18.6	20.3	12.00	28.00	20.3	21.5	12.00	33.00	21.1	21.6	11.75
300	698	472	515	305	711	516	545	305	838	537	549	298
14	31.00	19.1	22.1	13.25	33.00	20.6	22.8	13.25	35.00	23.7	24.4	12.88
350	787	485	560	337	838	524	578	337	889	602	620	327
16	34.00	21.6	25.0	15.25	34.00	22.4	26.2	15.25	39.00	26.5	27.2	14.75
400	864	548	635	387	864	570	665	387	991	673	690	375
18	38.50	24.3	28.0	17.25	38.50	28.1	28.7	17.00				
450	978	617	710	438	978	713	730	432				
20	38.50	26.1	29.5	19.25	40.00	35.0	31.9	19.00				
500	978	674	750	489	1016	889	809	483				
24	51.00	27.3	33.9	23.25	53.00	42.8	37.5	23.00				
600	1295	694	860	591	1346	1082	953	584				

ADDITIONAL SIZES, MATERIALS AND CLASSES AVAILABLE UPON REQUEST.

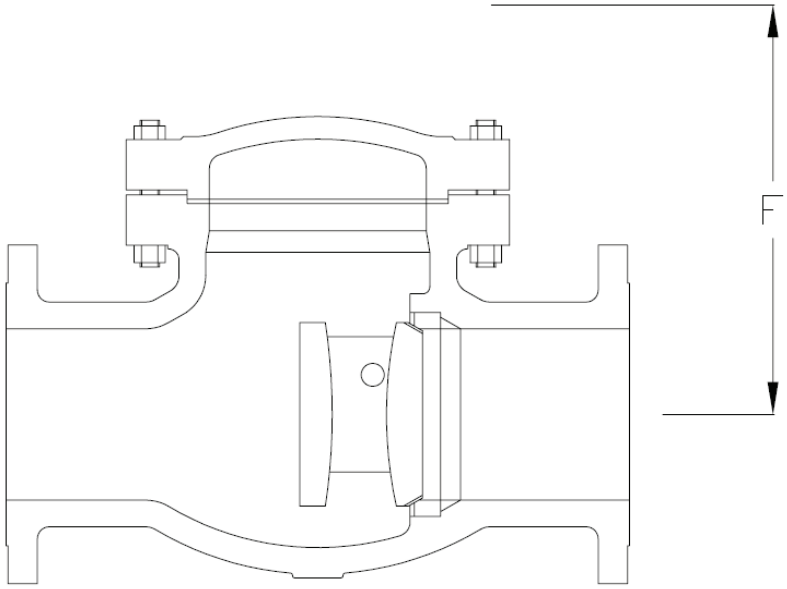


B = Center to top

WE = Butt Weld ends
FE = Flanged ends

API 600 TILTING DISC CHECK VALVES
BOLTED BONNET, ASME CLASSES 150 TO 1500
CAST CARBON , STAINLESS STEEL OR ALLOY STEEL

SIZE	ASME 150							ASME 300							ASME 600						
in / mm	F	in / mm	WT FE	lb kg	WT WE	lb kg	C_v	F	in / mm	WT FE	lb kg	WT WE	lb kg	C_v	F	in / mm	WT FE	lb kg	WT WE	lb kg	C_v
2 ½	9.0		20		17		150	10.0		35		30		150	12.0		40		34		150
65	225		9		8			255		16		14			305		18		15		
3	10.0		29		25		200	12.0		46		40		200	13.0		51		43		200
80	250		13		11			305		21		18			330		23		20		
4	11.5		49		42		360	14.5		58		50		360	14.5		75		65		360
100	295		22		19			370		26		23			370		34		29		
6	17.0		92		80		790	19.0		138		120		790	19.0		185		159		790
150	430		42		36			475		63		54			475		84		72		
8	20.5		161		140		1400	23.5		240		208		1400	23.0		335		289		1400
200	530		73		64			600		109		94			585		152		131		
10	23.5		262		229		2100	27.5		385		334		2100	29.0		700		600		2100
250	590		119		104			695		175		152			740		318		272		
12	30.5		380		330		3000	32.5		520		450		3000	33.0		774		672		3000
300	780		172		150			820		236		204			835		351		305		
14	32.5		517		450		3700	34.0		750		650		3700	36.5		980		850		3500
350	825		235		204			860		340		295			930		445		386		
16	37.0		713		620		4900	38.0		1050		900		4900	41.5		1300		1124		4600
400	935		323		281			960		476		408			1050		590		510		
18	41.5		829		720		6200	45.0		1126		980		6200							
450	1055		376		327			1145		511		445									
20	45.5		938		815		7700	54.0		1422		1231		7700							
500	1165		426		370			1375		645		558									
24	50.5		1325		1152		11000	66.0		2004		1735		11000							
600	1285		601		523			1670		909		787									



FE = Flanged ends
WE = Weld ends

F = Dismantling dimension

WT = Weight
C_V = Flow coefficient