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TILTING DISC CHECK VALVE

INTRODUCTION BOLTED CAP

A. CLASS 150

B. **CLASS 300**

C. CLASS 600

PRESSURE SEAL

D. CLASS 900

E. CLASS 1500

F. CLASS 2500



INTRODUCTION

Tilting Disc Check Valves consist of a cylindrical housing, with a pivoted circular disc. The pivots are located just above the center of the disc, and offset from the plane of the body seat. This design gives a bell-crank action to the disc. The seat is of circular bevel type and the disc drops in or out of contact without rubbing or sliding.

◆ FEATURES

- Reduced maintenance is assured because the disc is the only moving part and is designed to minimize flutter in the closed position, thus reducing wear on the pivot pin, disc, and seat.
- ➤ Loss of head is minimized by the balanced disc and its "aerofoil" design. Streamlined body without pockets contributes to straight-through flow.
- > Short distance of travel, combined with a balanced disc allows rapid closure while minimizing slamming.
- > Drop tight seating is accomplished over the full pressure range because a slight clearance at the pivot pin assures complete seating between the disc ring and body ring.

Slamming of check valves is the result of failure of the valve disc to reach its closed position before the fluid flow reversal. Tilting disc check valves have to close rapidly since the disc has a shorter distance to travel and therefore arrives at the seat faster...minimizing a slam.

Tilting disc check valves are used to prevent reversal of flow in horizontal or vertical pipe lines. In vertical lines, or for any angle from horizontal to vertical, they can be used for upward flow only.

Tilting check valves are automatically actuated. They are opened by velocity pressure, and closed by gravity. Seating load and tightness is dependent on back pressure. The disc and moving parts may constantly move if the velocity pressure is not sufficient to hold the valve in a wide open and stable position. Premature wear and noisy operation or vibration of the moving parts can be avoided by selecting the size of check valve on the basis of flow conditions. Sizing swing check valves on this basis may often result in the use of valves that are smaller than the pipe in which they are used, necessitating the use of reducers for installation. The pressure drop will be no greater than that of the larger valve that is only partially open, and valve life will be greatly extended. The added bonus, of course, is the lower cost of the smaller valve.



BOLTED CAP

Main Parameter Specification

Design and Manufacture: API 6D, BS1868

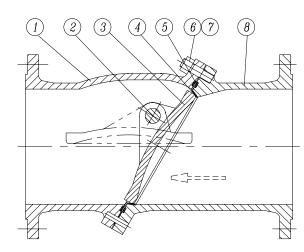
Face to Face Dimension: API B16.10

Flange Connection Dimension: ASME B16.5, ASME B16.47

Test and Inspection: API 598, API 6D

Size: 2"~24"(50mm~600mm)
Class: Class 150lb ~ Class 600lb

Material

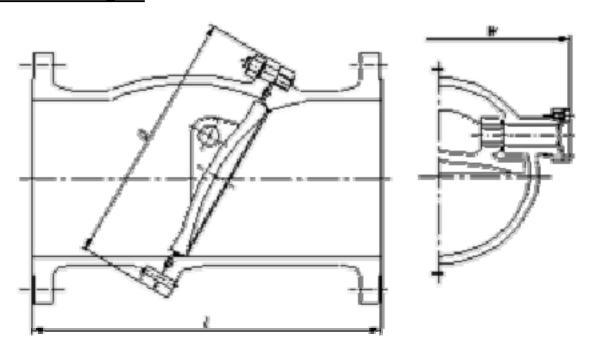


①L-BODY	2HINGE PIN	③DISC	6 BOLT	⑦NUT	®R-BODY								
Carbon Steel				•									
A216 WCB	A182 F6A	A216 WCB	A193 B7	A194 2H	A216 WCB								
A352 LCB	A182 F6A	A352 LCB	A320 L7	A194 4	A352 LCB								
Alloy Steel													
A217 WC1	A182 F6A	A217 WC1	A193 B7	A194 2H	A217 WC1								
A217 WC6	A182 F6A	A217 WC6	A193 B16	A194 4	A217 WC6								
A217 WC9	A182 F6A	A217 WC9	A193 B16	A194 4	A217 WC9								
A217 C5	A182 F6A	A217 C5	A193 B16	A194 4	A217 C5								
Stainless Stee	el			•									
A351 CF8	A182 F304	A351 CF8	A193 B8	A1948	A351 CF8								
A351 CF8M	A182 F316	A351 CF8M	A193 B8M	A194 8M	A351 CF8M								
A315 CF3	A182 F304L	A315 CF3	A193 B8	A1948	A315 CF3								
A351CF3M	A182 F316L	A351CF3M	A193 B8M	A194 8M	A351CF3M								
4SEAT	F6, 304, 316, M	ONEL or acc. to	o customer's re	quirement									
5GASKET	PTFE, RPTFE,	SS+GRAPHITE	or acc. to cust	omer's requirem	ent								

^{*} We can supply the products with our customer's requirement.



Dimensions and Weights



Class 150

Valve Size	in	2	2-1/2	3	4	6	8	10	12	14	16	18
L	mm	203	216	241	292	356	495	622	698	787	864	978
D	mm	160	182	196	230	300	390	432	510	540	635	700
W	mm	178	198	224	252	326	426	456	530	576	670	740
WT	kg	11	16	22	34	62	112	169	238	337	420	550

Class 300

Valve	in	2	2-1/2	3	1	6	Ω	10	12	14	16	18
Size	11.1		2-1/2	3	7	0	0	10	12	17	10	10
L	mm	267	292	318	356	444	533	622	711	838	864	978
D	mm	170	196	214	245	320	400	460	540	580	660	725
W	mm	198	220	232	268	360	426	457	572	620	690	760
WT	kg	17	22	32	97	110	162	228	380	443	530	780

Class 600

Valve Size	in	2	2-1/2	3	4	6	8	10	12	14	16	18
SIZE												
L	mm	292	330	356	432	559	660	787	838	889	991	1092
D	mm	185	196	210	270	340	440	520	570	610	690	755
W	mm	212	225	240	298	405	460	492	602	650	710	780
WT	kg	27	44	47	115	190	320	430	586	750	1015	1480



PRESSURE SEAL

Main Parameter Specification

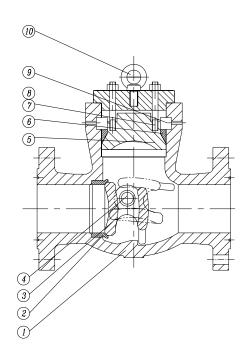
Design and Manufacture: API B16.34 Face to Face Dimension: API B16.10

Flange Connection Dimension: ASME B16.5, ASME B16.47

BW Connection Dimension: ASME B16.25
Test and Inspection: API 598, API 6D

Size: 2"~18"(50mm~450mm)
Class: Class 900lb ~ Class 2500lb

Material

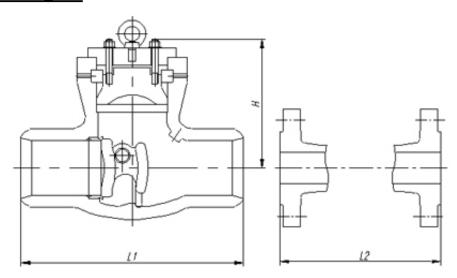


	CS		Alloy Steel		Stainless Steel			
① BODY	A216 WCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M		
② SEAT	F6, 304, 316,	MONEL or acc	. to customer's	requirement				
③ DISC	A216 WCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M		
4)HINGE PIN	A276 410	A276 410	A276 410	A276 410	A276 304	A276 316L		
⑤ COVER	A216 WCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M		
⑥ GASKET	PTFE, RPTFI	E, SS+GRAPHI	TE or acc. to cu	istomer's require	ement			
⑦ BOLT	A193 B7	A193 B7	A193 B7		A193 B8	A193 B8M		
® NUT	A194 2H	A194 2H	A194 2H		A194 8	A194 8M		
9SEAT RING	F6, 304, 316,	MONEL or acc	. to customer's	requirement				
®EYE BOLT	Carbon Steel							
⑤ COVER ⑥ GASKET ⑦ BOLT ⑧ NUT ⑨ SEAT RING	A216 WCB PTFE, RPTFI A193 B7 A194 2H F6, 304, 316,	A217 WC6 E, SS+GRAPHI A193 B7 A194 2H MONEL or acc	A217 WC9 TE or acc. to cu A193 B7 A194 2H	A217 C5 istomer's require	A351 CF8 ement A193 B8	A351 CF8I		

^{*} We can supply the products with our customer's requirement.



Dimensions and Weights



Class 900

Valve Size	in	2	2-1/2	3	4	6	8	10	12	14	16	18
L1 (BW)	mm	216	254	305	356	508	660	787	914	991	1092	1219
L2 (RF)	mm	368	419	381	457	610	737	838	965	1029	1130	1219
Н	mm	229	260	206	280	337	395	454	540	584	660	753
WT	RF	54	70	88	118	230	550	850	1220	1690	2710	3030
(kg)	BW	30	46	49	93	160	390	600	900	1200	1600	2000

Class 1500

Valve Size	in	2	2-1/2	3	4	6	8	10	12	14	16	18
L1 (BW)	mm	216	254	305	406	559	711	864	991	1067	1194	1346
L2 (RF)	mm	368	419	470	546	705	832	991	1130	1257	1384	1537
Н	mm	229	260	206	280	337	395	454	540	566	630	865
WT	RF	54	70	105	178	392	600	980	1550	2100	2600	3300
(kg)	BW	30	46	65	135	280	480	780	1100	1500	2000	2500

Class 2500

Valve Size	in	2	2-1/2	3	4	6	8	10	12	14	16	18
L1 (BW)	mm	279	330	368	457	610	762	914	1041	1118	-	-
L2 (RF)	mm	451	508	578	673	914	1022	1270	1422	-	-	-
Н	mm	229	260	270	280	343	483	559	570	620	-	-
WT	RF	85	115	155	265	585	985	1600	2290	-	-	-
(kg)	BW	58	70	85	145	330	780	1220	1800	2400	-	-



OUR PRODUCTS



Class 600 - 2"



Class 300 - 4"



Class 150 - 15"