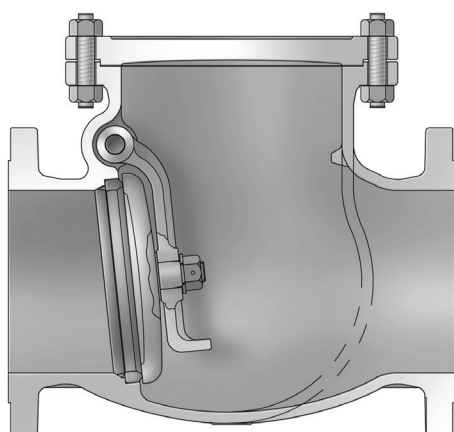
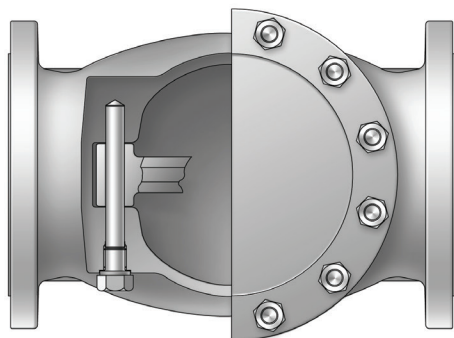


SWING CHECK VALVE



FUNCTION

The swing check valve is designed so that it is opened automatically at the forward flow and closed at the reverse flow in horizontal or vertical (upward flow only through valve) piping runs. It has an advantage of low pressure drop and therefore is best suitable for velocity application.

BODY

The body has a spherical form with large radius, which permits the stress, turbulence and resistance to flow to be kept minimum.

BODY-COVER JOINT

Body-cover joint of swing check valve is machined as follows:

Class 150 Male and female.

Class 300 and 600 Male and female.

Class 900 higher class Ring type joint.

We can supply any kinds of gasket as required by customer.

SEAT RING

The seat ring as a welded-in type is designed to prevent any turbulence and damage by corrosion. It is forged or rolled into one piece for all dimensions, heat treated to obtain the desired surface hardness, and cleaned thoroughly before assembling.

END CONNECTIONS

In our standard production of valve, the flange ends (RF) and the face to face dimensions conform to ANSI B16.5 and ASME B16.10, respectively, and they have a raised face serrated finish type or other finish type as requested.

For butt-welded ends (B.W), of which the end to end dimension conforms to ASME B16.10, customer must specify the schedule type required, pipe class, or bore diameter.

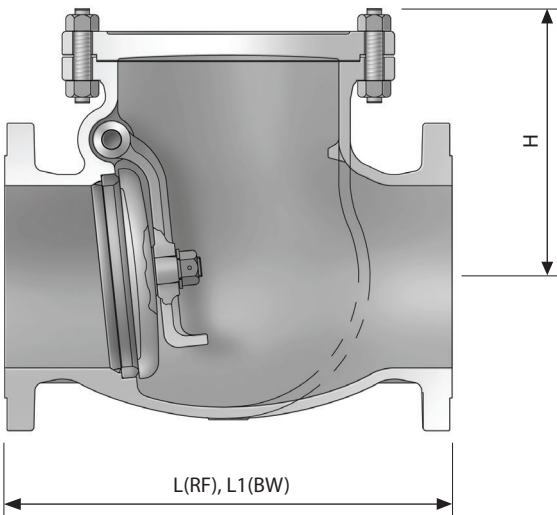
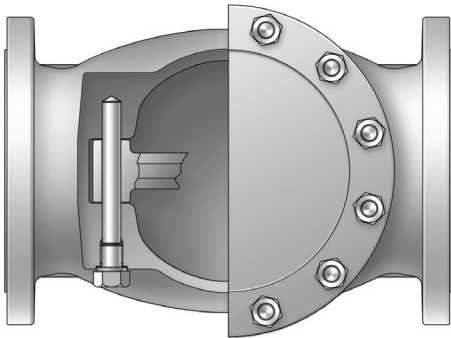
Ring joint flanged ends (R.T.J) conform to ASME B16.5 and the end to end dimension follows ASME B16.10. The other special end connections may be supplied as required by customer.

HINGE ARRANGEMENT

- Body penetration is sealed with blind flange and spiral-wound gasket
- Arm pin is located near the disc center of gravity, minimizing sealing surface radius rotation and thus velocity.

ARM ARRANGEMENT

- Hydrofoil profile maintains the disc stability while being lifted by a hydrodynamic force at a flow including pulsating.
- Heavy-balanced weight insures that disc goes to seat immediately upon cessation of flow and minimizes water hammer.



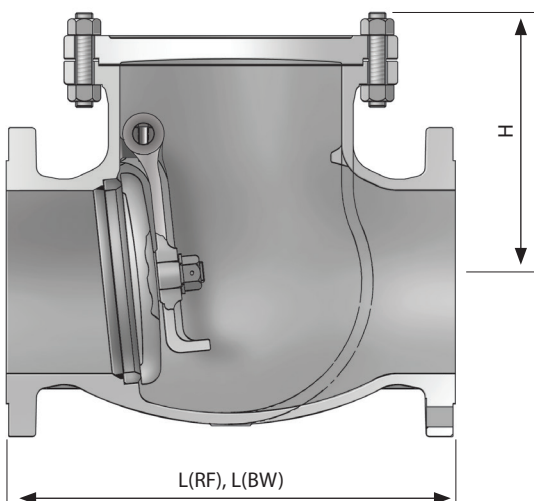
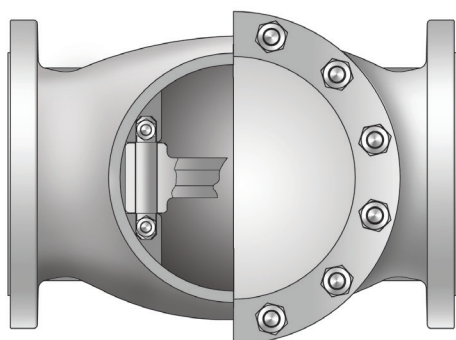
END CONNECTION

- R.F FLANGED ENDS TO ASME B16.5
- B.W. ENDS TO ASME B16.25
- R.T.J FLANGED ENDS TO ASME B16.5
- SIZE 26" AND LARGER, FLANGED ENDS ACCORDING TO ASME B16.47 SER.A OR SER.B

STANDARD MATERIAL SPECIFICATIONS

NO.	PART NAME	MATERIAL		
1	BODY	A216 - WCB	A217 - WC6	A351 - CF8
2	BONNET	A216 - WCB	A217 - WC6	A351 - CF8
3	DISC	A217 - CA15+STL	A217 - CA15+STL	A351 - CF8+STL
4	ARM	A216 - WCB	A216 - WC6	A351 - CF8
5	ROD PIN	A479 - 410	A479 - 410	A479 - 304
6	BODY SEAT RING	A576 - 1020+STL(S20C)	A182 - F11+STL	A240 - 304+STL
7	PLUG BOLT	A307 - B	A479 - 304	A479 - 304
8	GASKET	SPIRAL WOUND / GRAPHITE+304+304		
9	PLUG GASKET	SOFT STEEL	304 S.S	304 S.S
10	BONNET BOLT	A193 - B7	A193 - B16	A193 - B8
11	BONNET NUT	A194 - 2H	A194 - 4	A194 - 8
12	DISC NUT	A194 - 8	A194 - 8	A194 - 8
13	PIN	304 S.S	304 S.S	304 S.S
14	WASHER	304 S.S	304 S.S	304 S.S

INTERNAL TYPE SW-CH VALVE



END CONNECTION

- R.F FLANGED ENDS TO ASME B16.5
- B.W. ENDS TO ASME B16.25
- R.T.J FLANGED ENDS TO ASME B16.5
- SIZE 26" AND LARGER, FLANGED ENDS ACCORDING TO ASME B16.47 SER.A OR SER.B

STANDARD MATERIAL SPECIFICATIONS

NO.	PART NAME	MATERIAL		
1	BODY	A216 - WCB	A217 - WC6	A351 - CF8
2	COVER	A216 - WCB	A217 - WC6	A351 - CF8
3	DISC	A217 - CA15+STL	A217 - CA15+STL	A351 - CF8+STL
4	ARM	A216 - WCB	A217 - WC6	A351 - CF8
5	ROD PIN	A479 - 410	A479 - 410	A479 - 304
6	BODY SEAT RING	A576 - 1020+STL	A182 - F11+STL	A240 - 304+STL
7	INTERNAL BOLT	A193 - B8	A193 - B8	A193 - B8
8	INTERNAL NUT	A194 - 8	A194 - 8	A194 - 8
9	WASHER	316 S.S	316 S.S	316 S.S
10	GASKET	SPIRAL WOUND / GRAPHITE+304+304		
11	BONNET BOLT	A193 - B7	A193 - B16	A193 - B8
12	BONNET NUT	A194 - 2H	A194 - 4	A194 - 8
13	DISC NUT	A194 - 8	A194 - 8	A194 - 8
14	PIN	304 S.S	304 S.S	304 S.S
15	PLAIN WASHER	304 S.S	304 S.S	304 S.S

DIMENSION AND WEIGHT

CLASS 150

UNIT: mm

SIZE	2	3	4	6	8	10	12	14	16	18	20	24	26	28	30
L	203.2	241.3	292.1	355.6	495.3	622.3	698.5	787.4	863.6	977.9	977.9	1295.4	1295.4	1447.8	1524
L1	203.2	241.3	292.1	355.6	495.3	622.3	698.5	787.4	863.6	977.9	977.9	1295.4	-	-	-
H	160	190	225	260	320	350	380	405	460	505	570	680	865	918	962
WEIGHT(kg)	16	26	45	78	136	214	319	412	514	749	933	1346	1727	1964	2247

CLASS 300

UNIT: mm

SIZE	2	3	4	6	8	10	12	14	16	18	20	24	26	28	30
L	266.7	317.5	355.6	444.5	533.4	622.3	711.2	838.2	863.6	977.9	1016.0	1346.2	1346.2	1498.6	1593.9
L1	266.7	317.5	355.6	444.5	533.4	622.3	711.2	838.2	863.6	977.9	1016.0	1346.2	-	-	-
H	160	199	227	278	322	383	435	510	521	572	622	712	979	983	1115
WEIGHT(kg)	21	42	54	124	222	291	444	632	786	1058	1210	1916	2000	2600	3664

CLASS 600

UNIT: mm

SIZE	2	3	4	6	8	10	12	14	16	18	20	24	26	30
L	292.1	355.6	431.8	558.8	660.4	787.4	838.2	889.0	990.6	1092.2	1193.8	1397.0	-	1651
L1	292.1	355.6	431.8	558.8	660.4	787.4	838.2	889.0	990.6	1092.2	1193.8	1397.0	1448	-
H	197	210	256	329	364	464	486	572	660	711	787	864	1028	1135
WEIGHT(kg)	31	56	103	204	342	624	776	938	1250	1518	2390	3686	4000	5502

CLASS 900

UNIT: mm

SIZE	2	3	4	6	8	10	12	14	16	18	20	24
L	368.3	381.0	457.2	609.6	736.6	838.2	965.2	1028.7	1130.3	1219.2	1320.8	1549.4
L1	368.3	381.0	457.2	609.6	736.6	838.2	965.2	1028.7	1130.3	1219.2	1320.8	1549.4
H	267	290	306	338	460	500	578	647	710	785	850	1006
WEIGHT(kg)	68	106	139	294	525	731	1025	1444	1850	2610	3407	5842

CLASS 1500

UNIT: mm

SIZE	2	3	4	6	8	10	12	16
L	368.3	469.9	546.1	704.9	831.9	990.6	1130.3	1384.3
L1	368.3	469.9	546.1	704.9	831.9	990.6	1130.3	1384.3
H	267	296	355	465	540	657	728	1116
WEIGHT(kg)	73	125	212	470	825	960	1510	4630