



CAST STEEL SWING CHECK VALVE

DIAVAL Series 300B standard range of Swing Check Valves are available in styles comprehensive of conventional globe swing check type, lift type and wafer styles.

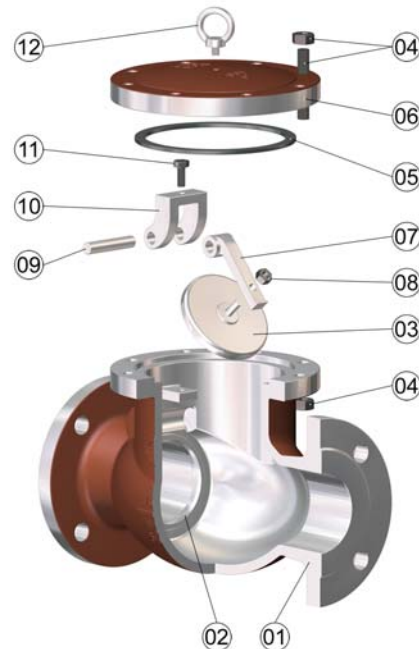
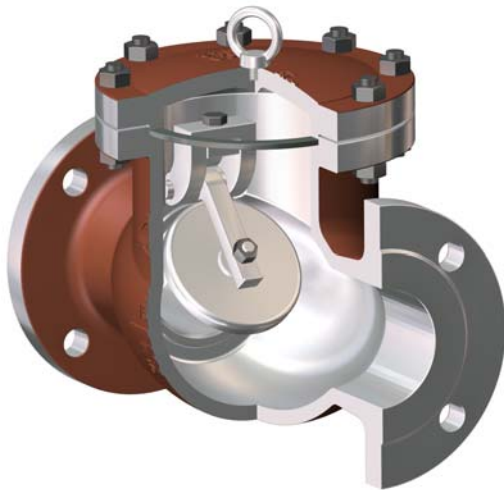
Swing Check Valves mean the standard and are serialised products with some parts interchangeable to other valve types thus increasing assembly flexibility.

Check valves are uni-directional valves and of self acting fluid operation being widely used in power, chemical and oil industry. Valves of pressure rating up to class 900 are of bolted cover style whereas Valves of pressure rating equal and above 1500 are of Pressure seal design cover and are used for high temperature – high pressure service, specially on power plants.



Series 300 B

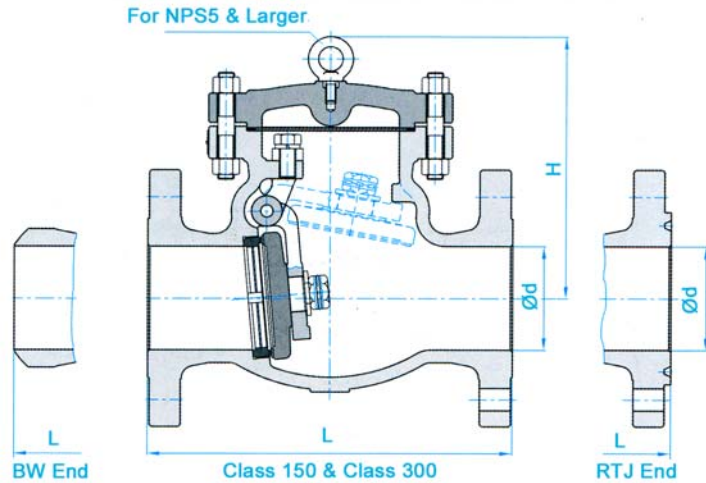
* Please observe Operating and Maintenance Rules as well as all essential safety requirements and labour health care guidance before valve installation and plant start up.



PARTS & MATERIALS

Part N°	Parts name	WCB/Trim1	WCB/Trim 5	WCB/Trim 8	CF8/304	CF8M/316
1	Body	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
2	Seat ring	A105+13Cr	A105+STL	A182F6	ASTM A351 CF8	ASTM A351 CF8M
3	Disc	ASTM A216 WCB+13Cr	ASTM A216 WCB+STL	A182F6 A182F6	ASTM A351 CF8	ASTM A351 CF8M
4	Bonnet nut	ASTM A 194 2H	ASTM A 194 2H	ASTM A 194 2H	ASTM A194 8	ASTM A194 8M
4	Bonnet bolt	ASTM A 193 B7	ASTM A 193 B7	ASTM A 193 B7	ASTM A 193 B8	ASTM A 193 B8M
5	Gasket	304 sheet + Graphite	304 sheet + Graphite	304 sheet + Graphite	304 + Graphite	316 + Graphite
6	Cover	ASTM A216 WCB	ASTM A216 WCB	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF8M
7	Arm	ASTM A 216 WCB	ASTM A 216 WCB	ASTM A 216 WCB	ASTM A351 CF8	ASTM A351 CF8M
8	Nut	ASTM A 194 2H	ASTM A 194 2H	ASTM A 194 2H	ASTM A194 8	ASTM A194 8M
9	Arm pin	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F6a	ASTM A182 F304	ASTM A182 F316
10	Yoke	ASTM A 216 WCB	ASTM A 216 WCB	ASTM A 216 WCB	ASTM A351 CF8	ASTM A351 CF8M
11	Bolt	ASTM A 193 B7	ASTM A 193 B7	ASTM A 193 B7	ASTM A 193 B8	ASTM A 193 B8M
12	Eye bolt	ASTM A 181	ASTM A 181	ASTM A 181	ASTM A 181	ASTM A 181

The tabulated materials mean the standard manufacturing range.
Other materials options may be provided on request.

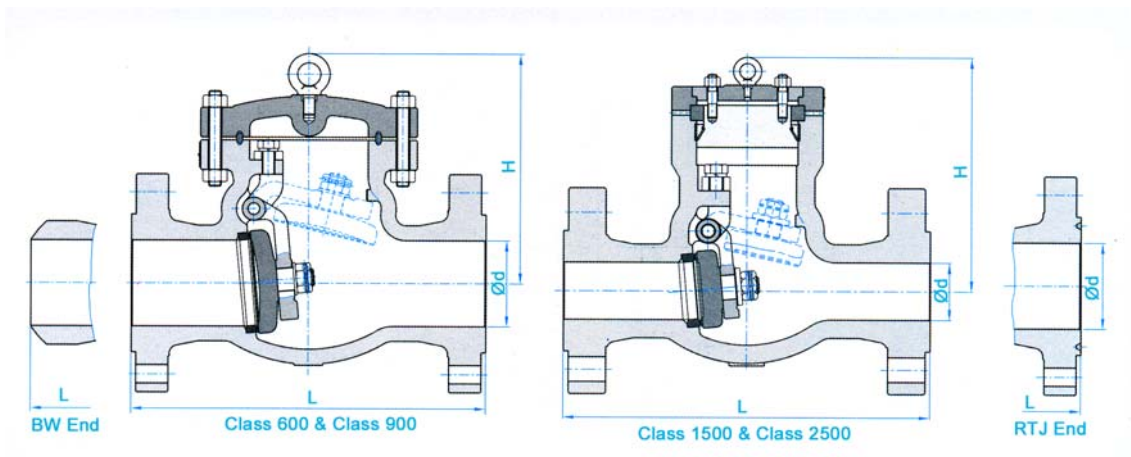
CAST STEEL SWING CHECK VALVE CLASS 150 & CLASS 300

DIMENSIONAL DATA

Size		Class 150						Class 300					
		Dimensions (mm)						Dimensions (mm)					
NPS	DN	RF	RTJ	BW	d	H	Approx. Weight (kg)	RF	RTJ	BW	d	H	Approx. Weight (kg)
2	50	203	216	203	51	132	15	267	283	267	51	144	20
2.1/2	65	216	229	216	64	147	20	292	308	292	64	169	35
3	80	241	254	241	76	176	27	318	333	318	76	210	40
4	100	292	305	292	102	198	45	356	371	356	102	260	61
5	125	330	343	330	127	255	58	400	416	400	127	295	80
6	150	356	368	356	152	320	69	445	460	445	152	326	130
8	200	495	508	495	203	380	131	533	549	533	203	380	190
10	250	622	635	622	254	440	219	622	638	622	254	440	296
12	300	699	711	699	305	480	321	711	727	711	305	520	450
14	350	787	800	787	337	530	380	838	854	838	337	540	640
16	400	864	876	864	387	580	560	864	879	864	387	588	850
18	450	978	991	978	438	618	630	978	994	978	438	670	1030
20	500	978	991	978	489	657	770	1016	1035	1016	489	720	1330
24	600	1295	1308	1295	591	760	960	1346	1368	1346	591	850	1950
26	650	1295	-	1295	633	840	1250	1346	1372	1346	633	920	2300
28	700	1448	-	1448	684	920	1580	1499	1524	1499	684	1150	2600
30	750	1524	-	1524	735	980	1950	1594	1619	1594	735	1260	3200

Arrangement Drawings available on request.

MANUFACTURE DESIGN STANDARDS

- Design and Manufacture: BS 1868 or API 6D
- Inspection and Test: API 598 - API 6D.
- End flange dimension: ASME B16.5; ASME B16.47 A, MSS SP-44; ASME B16.47 B, API 605.
- BW end dimension: ASME B16.25.
- Face to face and end to end: ASME B16.10.
- Pressure – temperature ratings: ASME B16.34.
- Wall thickness dimension: API 600 and BS 1868
- QA: ISO 9001:2000

CAST STEEL SWING CHECK VALVE CLASS 600 & CLASS 2500

DIMENSIONAL DATA

Size		Class 600						Class 900					
		Dimensions (mm)						Dimensions (mm)					
NPS	DN	RF	RTJ	BW	d	H	Approx. Weight (kg)	RF	RTJ	BW	d	H	Approx. Weight (kg)
2	50	292	295	292	51	170	28	368	371	368	51	200	48
2.1/2	65	330	333	330	64	178	40	419	422	419	64	220	75
3	80	356	359	356	76	246	68	381	384	381	76	280	95
4	100	432	435	432	102	290	117	457	460	457	102	320	135
5	125	508	511	508	127	320	155	559	562	559	127	360	200
6	150	559	562	559	152	360	192	610	613	610	152	400	264
8	200	660	664	660	203	430	340	737	740	737	203	480	424
10	250	787	791	787	254	502	515	838	841	838	254	560	730
12	300	838	841	838	305	554	750	965	968	965	305	632	1070
14	350	889	892	889	337	595	890	1029	1038	1029	322	680	1180
16	400	991	994	991	387	680	1303	1130	1140	1130	373	780	1790
18	450	1092	1095	1092	438	778	1800	1219	1232	1219	423	880	2500
20	500	1194	1200	1194	489	970	2150	1321	1334	1321	471	1050	3080
24	600	1397	1407	1397	591	1100	3200	1549	1568	1549	522	1200	4600

Size		Class 1500						Class 2500					
		Dimensions (mm)						Dimensions (mm)					
NPS	DN	RF	RTJ	BW	d	H	Approx. Weight (kg)	RF	RTJ	BW	d	H	Approx. Weight (kg)
2	50	368	371	368	51	210	48	451	454	451	42	230	68
2.1/2	65	419	422	419	64	240	75	508	514	508	52	260	100
3	80	470	473	470	76	303	120	578	584	578	62	330	165
4	100	546	549	546	102	340	180	673	683	673	87	370	260
5	125	673	676	673	127	380	294	794	807	794	96	410	440
6	150	705	711	705	144	430	385	914	927	914	131	460	580
8	200	832	841	832	192	500	634	1022	1038	1022	179	530	970
10	250	991	1000	991	239	590	1140	1270	1292	1270	223	620	1700
12	300	1130	1146	1130	287	660	1650	1422	1445	1422	265	690	2600
14	350	1257	1276	1257	315	710	2000	-	-	-	-	-	-
16	400	1384	1407	1384	360	820	2700	-	-	-	-	-	-

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