

Swing Check Valve



Description

Swing Check Valve:

These are called Non Return Valves and are Uni -direction valves. It prevents flow in reverse direction hence are called NON RETURN VALVE. These are self -operating devices and are economical. An important concept in check valves is the cracking pressure which is the minimum upstream pressure at which the valve will operate. Typically the check valve is designed for and can therefore be specified for a specific cracking pressure. Its construction permits top entry for complete removal of internal components without removing the valve from the line. These are suitable for both vertical as well as horizontal application. Check valves, or non-return valves, are installed in pipeline systems to allow flow in one direction only. They are operated entirely by reaction to the line fluid and therefore do not require any external actuation. In this text, the expected, or desired direction of flow is termed 'forward flow', flow in the opposite direction is 'reverse flow'. These are also widely used in Petro chemicals , Oil and Gas ,refineries ,Power sectors and Steel plants and Fertilizers.

Type: Self Operated Check valves

Design Standard: BS-1868 , ASME-B-16.34

Face To Face Standard: ASME-B-16.10/BS-2080

End Connection:

Flanged Ends to ASME-B-16.5 till 600 mm and
as per ASME-B-16.47 for 600mm above
Socket weld ends as per ASME-B-16.11
Butt weld ends as per ASME-B-16.25.

Testing Standard: API-598/ EN-12266/ISO-5208

Size: 2” to 24”

Rating: 150 , 300 and 600 classes

Material Of Construction:

Casting Grades:

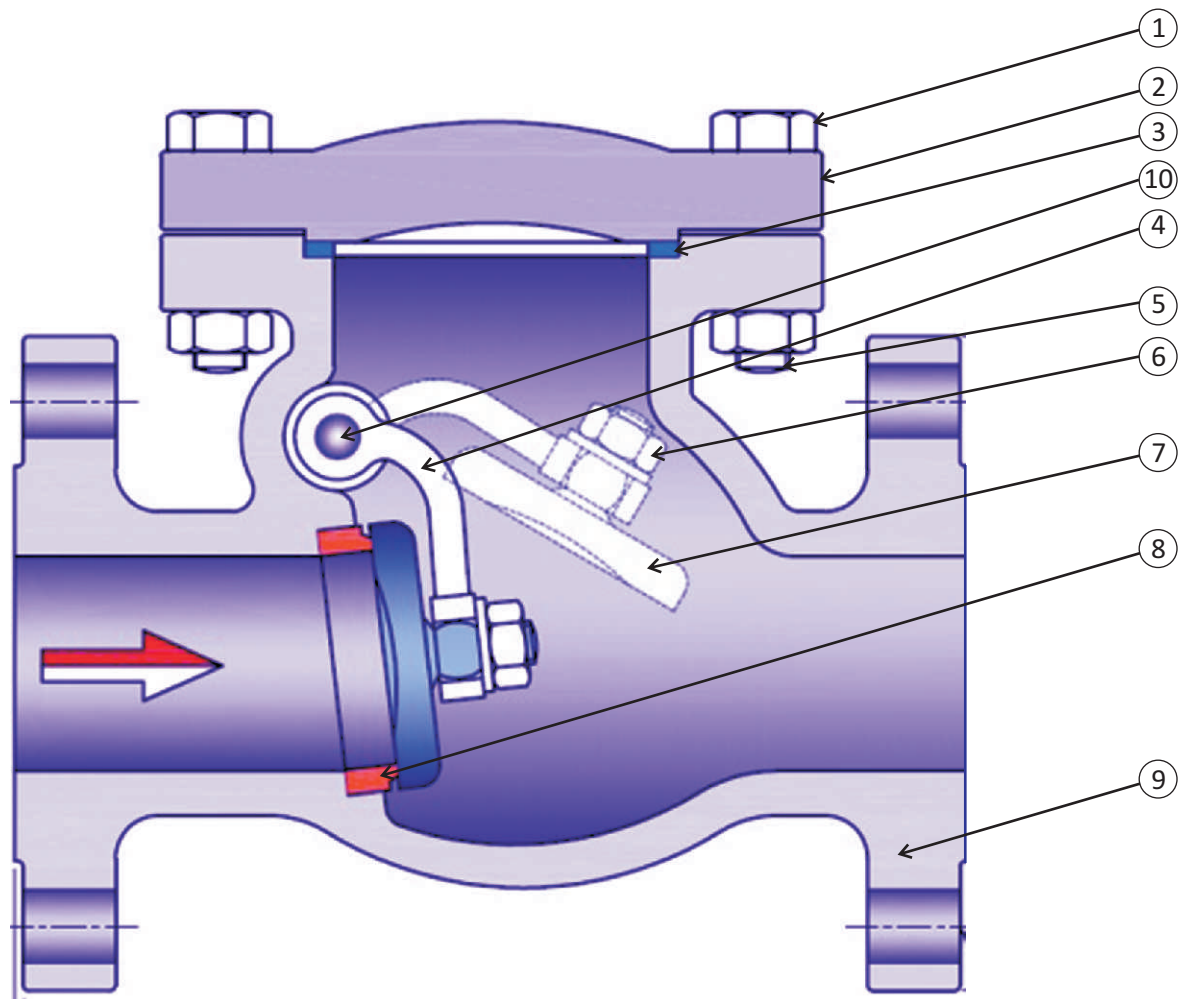
Carbon Steel as per ASTM-A-216 Grades WCB,WCA and WCC
Alloy steels as per ASTM-A-217 Grades WC4 , WC5,WC6,WC9,CA 15 and C5
Austenitic Steel as per ASTM-A-351 Grades CF8, CF8M,CF3, CF3M,CG3M,
CF8C,CK3MCuN Ferritic and Martensitic Steel as per ASTM-A-352 Grades
LCB, LCC, LC5,LCA and CA6NMNickel& Chrome Alloysteel as per ASTM-A-494
Grades M35-1,M 35-2,N12MV &CW12MWand Nickel Chrome and Molly alloy
steel (Austenitic/Ferritic) as per ASTM-A-890 GradesCD4MCu, CD4MCuN,
CD3MCuN, CE8MN, CD3MN, CE3MN AND CD3MWCuN

Bar Grade for Trims:

ASTM-A-276 Grades SS 410/304/304L/316/316L/420 along with Brass/Bronze
trims as perBS1400/C95800, ASTM-A-564 Type 630 ,631 and 632.

Cut section with Component

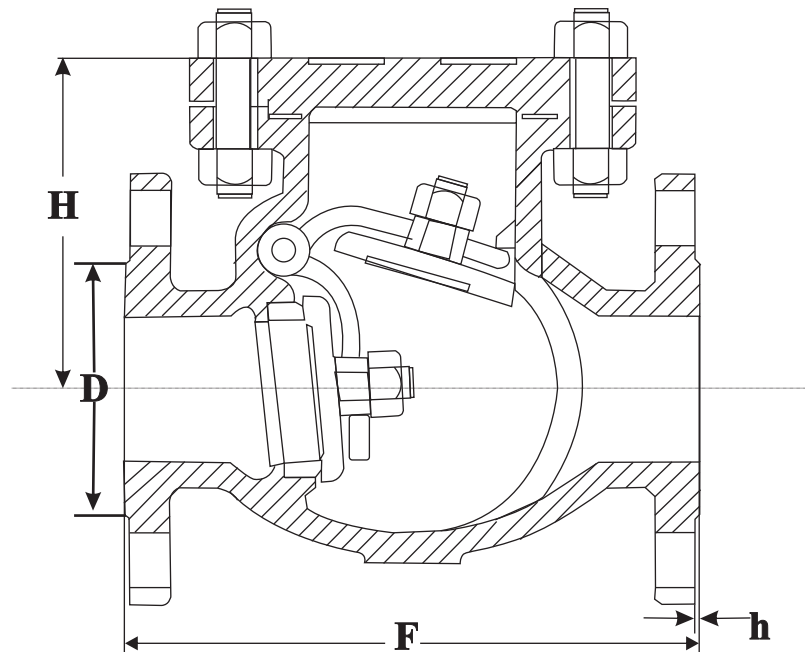
Swing Check Valve:



No.	Part	No.	Part
1	NUT	6	DISC LOCKING NUT
2	BONNET COVER	7	DISC
3	GASKET	8	SEAT
4	HINGE	9	BODY
5	STUD	10	HINGE PIN

Dimensions

Swing Check Valve:



SCV Dimensions are in mm

SIZES	Face to Face [F]			Raised face		H			Weight in kgs		
	150#	300#	600#	DIA [D]	HEIGHT[h]	150#	300#	600#	150#	300#	600#
25	127	203	216	50.8	1.6/2	120	130	145	17	24	28
32	140	216	229	63.5	1.6/2	135	145	155	24	30	35
40	165	229	241	73	1.6/2	150	160	170	30	38	42
50	203	267	292	92.1	1.6/2	165	175	185	19	21	52
65	216	292	330	105	1.6/2	178	190	215	26	32	63
80	241	318	356	127	1.6/2	185	210	280	29	43	75
100	292	356	432	157	1.6/2	215	245	310	48	61	122
150	350	444	559	216	1.6/2	260	315	405	77	131	227
200	495	533	660	270	1.6/2	315	350	430	130	213	345
250	622	622	788	324	1.6/2	365	390	485	262	380	625
300	698	711	838	381	1.6/2	400	485	510	345	445	795
350	787	787	889	413	1.6/2	435	530	570	450	680	890
400	864	864	991	470	1.6/2	485	575	660	555	835	1200
450	978	978	1092	533	1.6/2	600	590	735	780	1025	1600
500	978	1016	1194	584	1.6/2	660	615	800	835	1320	2420
600	1295	1346	1397	692	1.6/2	740	710	900	925	1955	3150



Dembla

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