

## SLH type/ API/DIN Cast Lift Check Valve

**Standard and Scope:**

Size: NPS 1/2"~14" DN15~DN350

Pressure Rating: Class 150~1500 PN2.5~PN160

Connection: Double flange, Weld, Screw (Wafer/Lug)

Material: Carbon steel, Stainless steel, Alloy, Iron, Ductile Iron and so on

Design and Manufacture: ASME B16.34, API 6D, BS EN 1868-1873, DIN 3840

Test and Inspection: API598, API6D, BS EN12569

End flange dimension: ASME B16.5; BS EN 1092-1

BW End connection: ASME B16.25

Pressure-temperature ratings: ASME B16.34.

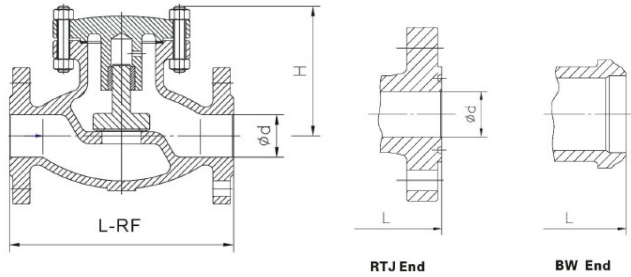
Face-to-Face: ASME B16.10, BS EN 558-1, DIN 3202, ISO 5752

**Design feature**

- **Seat**
- For carbon steel swing check valve, the seat is usually forged steel. The sealing surface of the seat is spray welded with hard alloy required by the client. Renewable threaded seat is used for NPS≤8 check valves, and welded on seat can be also optional if being requested by the customer. Welded on seat is used for NPS ≥10 carbon steel gate valves.
- For stainless steel check Valve, integral seat is usually adopted, or to weld hard alloy directly integrally. Threaded or welded on seat is also optional for stainless steel check valve if required.
- **Body-To-Bonnet Joint: Gasket**  
Stainless steel + flexible graphite wounded gasket is used for Class150 and Class300 check valve; Stainless steel + flexible graphite wounded gasket is used for Class600 check valve, and joint gasket is also optional for Class600 check valve; Ring joint gasket is used for Class900 check valve; Pressure seal design is used for Class1500~Class2500 check valves.
- **Body and Bonnet Connection**  
The body and bonnet of Class150~Class900 check valves are usually connected with studs and nuts. And the body and bonnet of Class1500~Class2500 check valves are usually of pressure Seal design.

Class 150 300 600 900

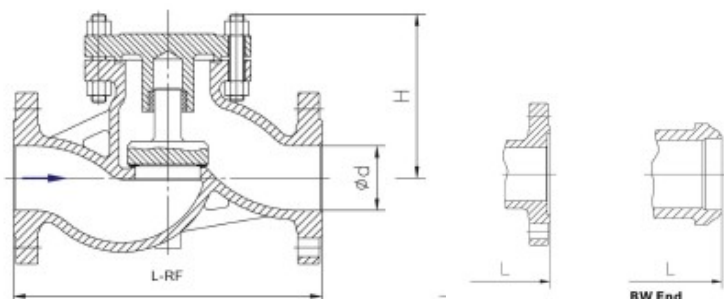
API Flange/Weld Lift Check Valve



Nominal Size		Class150						Class300					
		F-t-F Dimension(mm)			Dimension(mm)		Weight	F-t-F Dimension(mm)			Dimension(mm)		Weight
NPS	DN	RF	RTJ	BW	d	H	Kg	RF	RTJ	BW	d	H	Kg
1/2	15	108	119	108	13	76	3	152	162	152	13	78	5
3/4	20	117	130	117	19	76	4	178	191	178	19	82	6
1	25	127	140	127	25	98	5	203	216	203	25	102	8
1 1/4	32	140	153	140	32	102	7	216	229	216	32	106	11
1 1/2	40	165	178	165	38	115	8	229	242	229	38	118	13
2	50	203	216	203	51	140	15	267	283	267	51	140	26
2 1/2	65	216	229	216	64	162	22	292	308	292	64	164	33
3	80	241	254	241	76	168	28	318	333	318	76	178	50
4	100	292	305	292	102	194	42	356	371	356	102	195	86
5	125	356	368	356	127	210	60	400	416	400	127	223	120
6	150	406	419	406	152	226	75	445	460	445	152	245	180
8	200	495	508	495	203	250	118	533	549	533	203	280	220
10	250	622	635	622	254	275	194	622	638	622	254	336	310
12	300	699	711	699	305	332	320	711	727	711	305	380	510
Nominal Size		Class600						Class900					
		F-t-F Dimension(mm)			Dimension(mm)		Weight	F-t-F Dimension(mm)			Dimension(mm)		Weight
NPS	DN	RF	RTJ	BW	d	H	Kg	RF	RTJ	BW	d	H	Kg
2	50	292	295	292	51	152	32	368	371	368	48	180	50
2 1/2	65	330	333	330	64	167	45	419	422	419	57	200	65
3	80	356	359	356	76	178	68	381	384	381	73	235	88
4	100	432	435	432	102	215	98	457	460	457	98	270	140
5	125	528	511	528	125	240	155	559	562	559	125	300	210
6	150	559	562	559	152	279	230	610	613	610	146	350	300
8	200	660	664	660	200	328	300	737	740	737	190	400	390

PN16 25 40 63 100

DIN Flange/Weld Lift Check Valve



PN16 DIN3202-F1																
DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L	130	150	240	260	200	230	290	310	350	400	490	600	730	850	980	1100
H	77	77	80	85	95	105	120	130	140	155	180	215	260	315		
PN25 DIN3202-F1																
DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L	130	150	160	180	200	230	290	310	350	400	490	600	730	850	980	1100
H	100	105	120	130	135	149	160	169	194	222	255	305	355	410		
PN40 DIN3202-F1																
DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L	130	150	160	180	200	230	290	310	350	400	490	600	730	850	980	1100
H	100	105	120	130	135	149	160	169	194	225	255	305	360	415		
PN63 DIN3202-F2																
DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L	130	150	160	180	260	300	340	380	430	500	550	650	775	900		
H	100	110	125	140	169	170	188	205	230	240	265	310				
PN100 DIN3202-F2																
DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
L	210	230	230	260	260	300	340	380	430	500	550	650	775	900		
H	100	110	125	140	170	185	200	235	265	310	350	400				

**Remark:**

- Wafer Lift Check Valve Dimension, please ref to Catalog “API Dual Plate Check Valve”
- The body/seal design of Flange/Weld Lift Check Valve is same with Globe Valve
- The material of Body/Seat combination, please ref to relevant Cast Swing Check Valve

NOTE: The material in this catalog is for general information. For specific performance data, proper material selection and special design, consult us freely. Although every attempt has been made to ensure correct information, Sangong reserves the right to change designs, materials or specifications without notice.