

1701

Lift check valves
Straight seat type

PN 63-160 DN 15-200

Design

Spring loaded

Obturator

Disk

Body seat

Integral seat

Valve ends

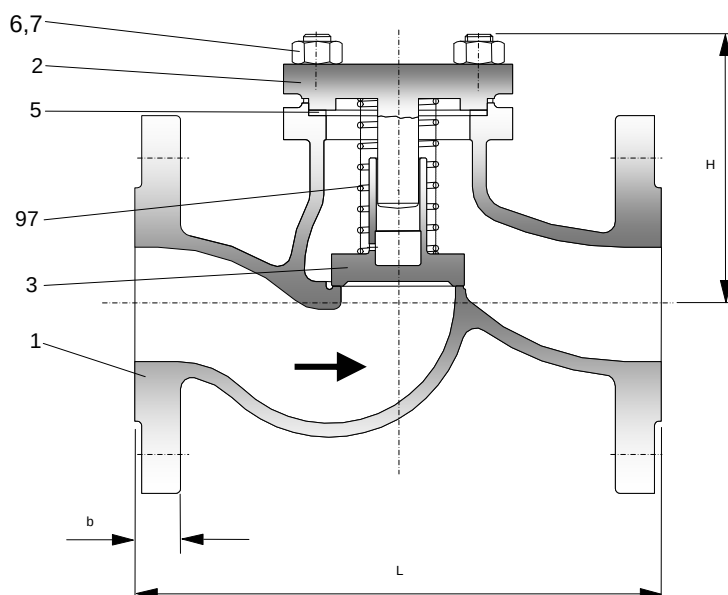
Flanges acc. to
 EN 1092-1 (DIN 2501
 Part 1)

Requirements and tests

Acc. to DIN 3230 Part 3

Marking

Nominal size DN
 Nominal pressure PN
 Body material
 Manufacturer brand
 Flow direction arrow



Pos.	Denomination	Material		Pos.	Denomination	Material	
		1.4308	1.4581			1.4308	1.4581
1	Body	1.4308	1.4581	6	Stud bolt	A2-70	A4-70
2	Cover	1.4541	1.4571	7	Hex. Nut	A2	A4
3	Disk	1.4541	1.4571	97	Spring	1.4310	1.4571
5	Gasket (grooved)	1.4541 / Graphite	1.4571 / Graphite				

¹ further materials are shown in the technical part

Face-to-face dimension acc. to EN 558-1 series 2 (DIN 3202-F2)

DN	15	20/25	25	32	40	50	65	80	100	125	150	200
L	210	230	230	260	260	300	340	380	430	500	550	650
H	192	205	205		260	268		335	384	530	610	
PN 63	b					26	26	28	30	34	36	42
kg												
PN 100	b	use PN 160					use PN 160					
kg												
PN 160	b	20	22	24	26	28	30	34	36	40	---	---
kg											---	---

Pressure/Temperature ratings in bar g at Temperature in °C

Material	PN	50°C	100°C	120°C	150°C	200°C	250°C	300°C	350°C	400°C	450°C	500°C	550°C
»1.4308« GX5CrNi19-10 EN 10213	63	63,0	48,6	48,6	42,3	36,0	33,1	30,6					
	100	100,0	77,1	77,1	67,1	57,1	52,5	48,5					
	160	160,0	123,4	123,4	107,4	91,4	84,1	77,7					
»1.4581« GX5CrNiMonB19-11-2 EN 10213	63	63,0	57,6	57,6	53,2	48,6	45,7	43,2	40,3	37,8	36,0	34,2	32,4
	100	100,0	91,4	91,4	84,5	77,1	72,5	68,5	64,0	60,0	57,1	54,2	51,4
	160	160,0	146,2	146,2	135,3	123,4	116,1	109,7	102,4	96,0	91,4	86,8	82,2

For temperatures > +400°C: Bolting material 1.7709

Modifications

Shut-off device
Heating jacket

Installation

Piping is to be in such a manner that injurious thrust and bending forces are kept away from the valve casings. Lift check valves are usually installed thus allowing the liquid to enter below the plug and to leave above it. When using a spring, check valves can be installed in horizontal as well as vertical pipelines. If a check valve and a shut-off valve are installed one after another in such a way that the locked medium loads the disk, the user has to install a pressure relief device.