

1701

Lift check valves
Straight seat type

PN 10-40 DN 15-200

Design

Spring loaded

Obturator

Disk

Body seat

Integral seat

Valve ends

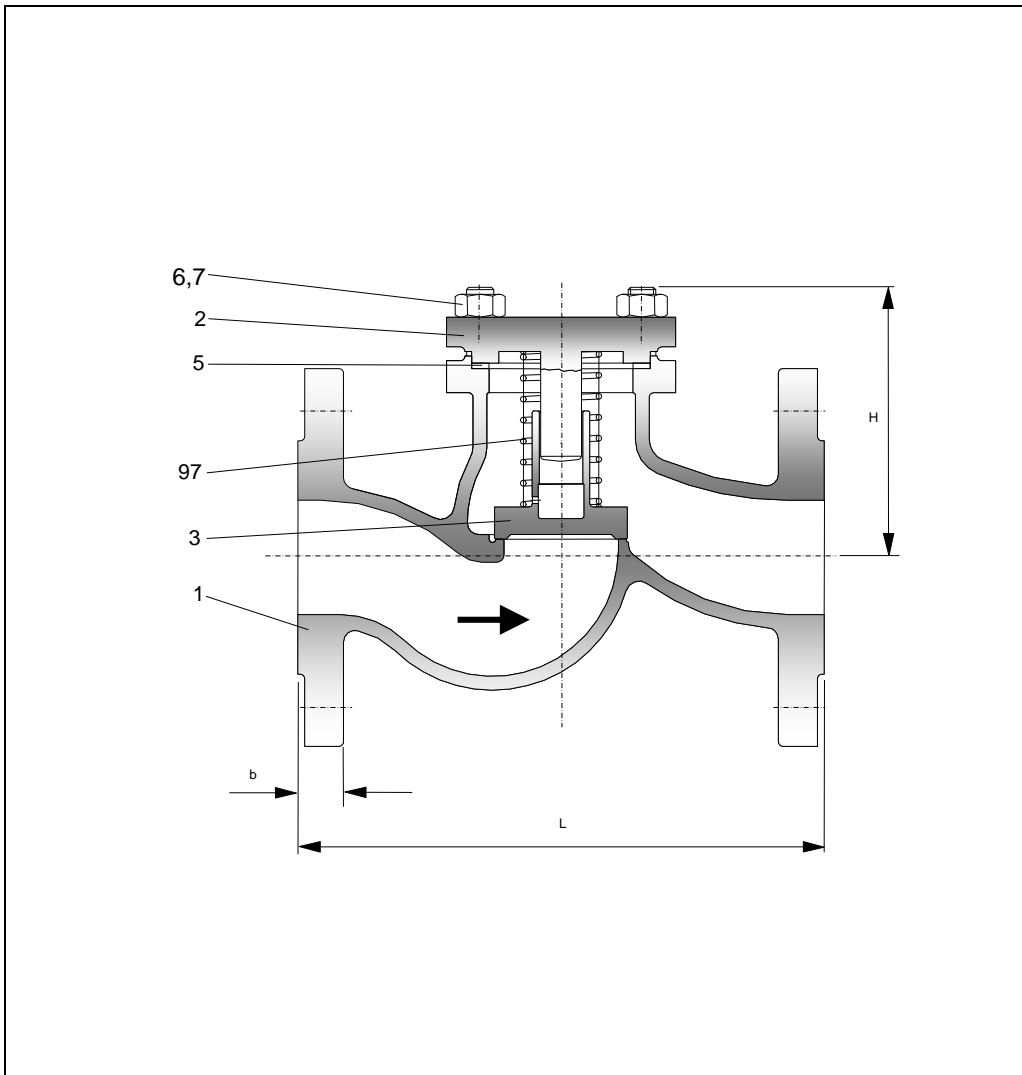
Flanges acc. to
 EN 1092-1 (DIN 2501
 Part 1)

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	1.4408			1.4308	1.4408
1	Body	1.4308	1.4408	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	Graphite / 1.4401	Graphite / 1.4401				

¹ further materials are shown in the technical part

Face-to-face dimension acc. to EN 558-1 series 1 (DIN 3202-F1)

DN	15	20	25	32	40	50	65	80	100	125	150	200	
L	130	150	160	180	200	230	290	310	350	400	480	600	
H	56	56	80	105	112	122	150	170	195	203	223	274	
PN	b											24	
10	kg								use PN 16				
PN	b							18	20	20	22	22	26
16	kg				use PN 40								
PN	b											30	
25	kg								use PN 40				
PN	b	16	18	18	18	18	20	22	24	24	26	28	34
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					
»1.4308« GX5CrNi19-10 EN 10213	10	10,0	7,7	7,7	6,7	5,7	5,2	4,8					
	16	16,0	12,3	12,3	10,7	9,1	8,4	7,7					
	25	25,0	19,2	19,2	16,7	14,2	13,1	12,1					
	40	40,0	30,8	30,8	26,8	22,8	21,0	19,4					
»1.4408« GX6CrNiMo18-10-2 EN 10213	10	10,0	8,2	8,2	7,2	6,2	5,7	5,1					
	16	16,0	13,2	13,2	11,6	10,0	9,1	8,2					
	25	25,0	20,7	20,7	18,1	15,7	14,2	12,8					
	40	40,0	33,1	33,1	29,0	25,1	22,8	20,5					

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.