

1731

Swing check valves
PN 10-160 DN 40-500

Design
 Inside hinge

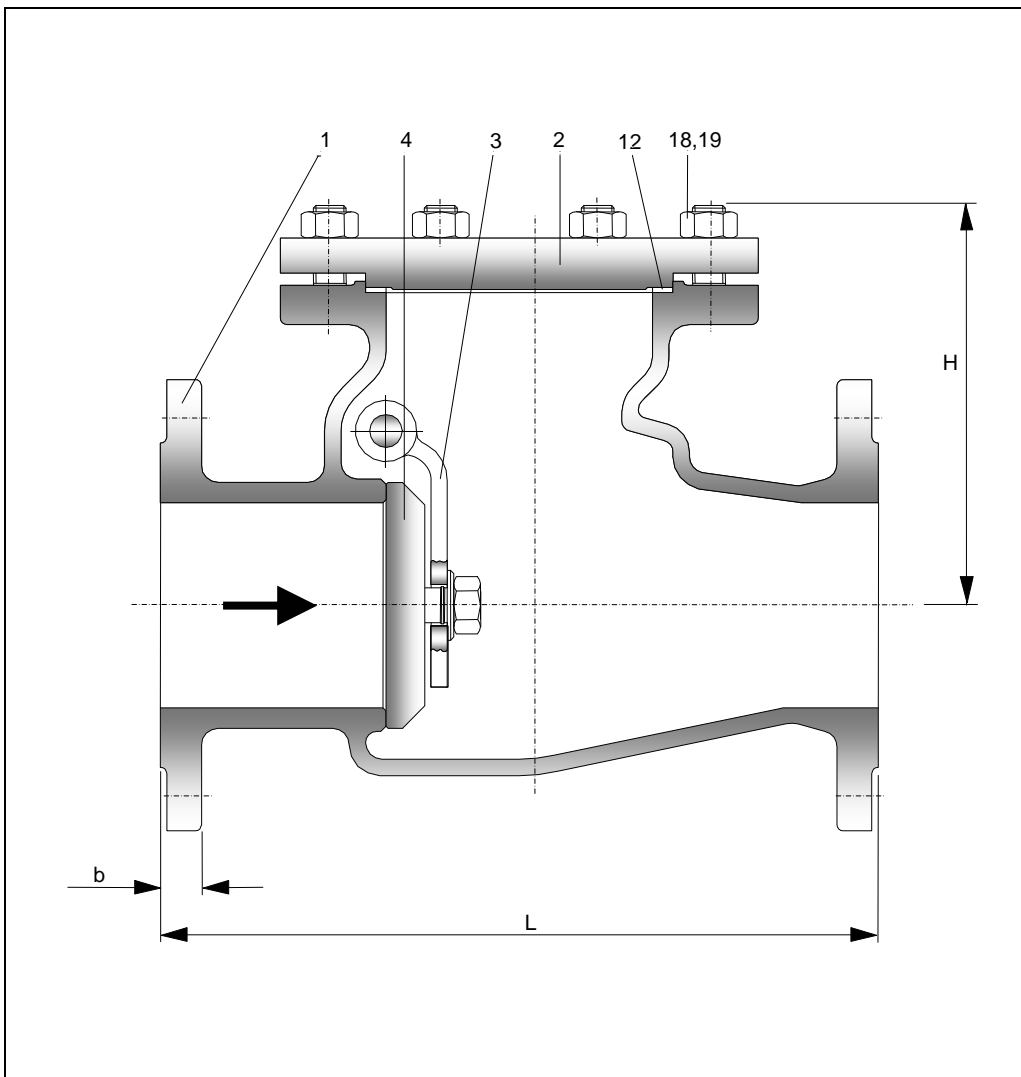
Body seat
 Integral seat
 min. 13% Cr

Obturator
 Flap

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	12	Gasket	Graphite /	Graphite /
2	Cover	1.4541	1.4571			1.4401	1.4401
3	Hinge	1.4541	1.4571	18	Stud bolt	A2-70	A4-70
4	Flap	1.4541	1.4571	19	Hex. nut	A2	A4
5	Shaft	1.4541	1.4571				

¹ further materials are shown in the technical part

Face-to-face dimension acc. to EN 558-1 series 48 (DIN 3202-F6)

DN	50	65	80	100	125	150	200	250	300	400	
L	200	240	260	300	350	400	500	600	700	900	
H	138	155	162	203	228	263	280	300	330	425	
PN	b	use PN 16					24	26	26	32 ²	
10	kg										
PN	b	20 ²	18	20	20	22	22	24	26	28	32
16	kg										

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

DN	40	50	65	80	100	125	150	200	250	300	400	500	
L	200	230	290	310	350	400	180	600	730	850	1100	1250	
H	133	138	155	162	205	235	263	314	329	365	536	596	
PN	b	use PN 40					30	32	38 ²	40			44
25	kg												
PN	B	18	20	22	24	24	26	28	34	38	47 ²	52 ²	
40	kg												

² reinforced against DIN/EN

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

DN		50	80	100	150	200	250	300	350
L		300	380	430	550	650	775	900	1025
PN 63	H	150	175	225	290	370	370	445	460
	b	26	28	30	36	42	46	52	56
	kg								
PN 100	H	183	252	360	400	470	480		
	b	30	40	44	52	60	74		
	kg								
PN 160	H	183	252	36	400	470			
	b	30	40	50	60	68			
	kg								

² reinforced against DIN/EN

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	9,2	9,2	8,0	6,8	6,3	5,8					
	16	16,0	14,8	14,8	12,8	10,9	10,0	9,3					
	25	25,0	23,1	23,1	20,1	17,1	15,7	14,5					
	40	40,0	37,0	37,0	32,2	27,4	25,2	23,3					
	63	63,0	58,3	58,3	80,7	43,2	39,7	36,7					
	100	100,0	92,5	92,5	80,5	68,5	63,0	58,2					
	160	160,0	135,0	135,0	117,5	100,0	92,0	85,0					
»1.4408« GX5CrNiMo19-11-2 EN 10213	10	10,0	9,4	9,4	8,2	7,1	6,4	5,8					
	16	16,0	15,0	15,0	13,1	11,4	10,3	9,3					
	25	25,0	23,5	23,5	20,5	17,8	16,2	14,5					
	40	40,0	37,6	37,6	32,9	28,5	25,9	23,3					
	63	63,0	59,2	59,2	51,8	44,9	40,8	36,7					
	100	100,0	94,0	94,0	82,3	71,3	64,8	58,3					
	160	160,0	145,0	145,0	127,0	110,0	100,0	90,0					

Modifications

Heating jacket
Lever and weight

Installation

Piping is to be in such a manner that injurious thrust and bending forces are kept away from the valve casings. Swing check valves are usually installed thus the medium enter the valve in the opening direction of the flap. Swing check valves without lever and weight must be installed in horizontal pipelines only. If a check valve and a shut-off valve are installed one after another in such a way that the locked medium loads the flap, the user has to install a pressure relief device.