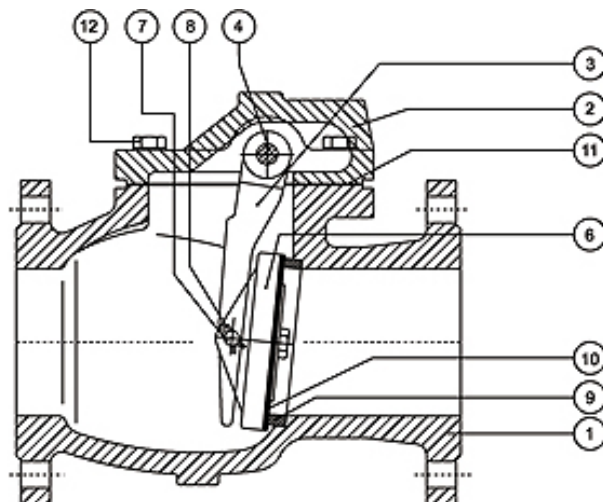
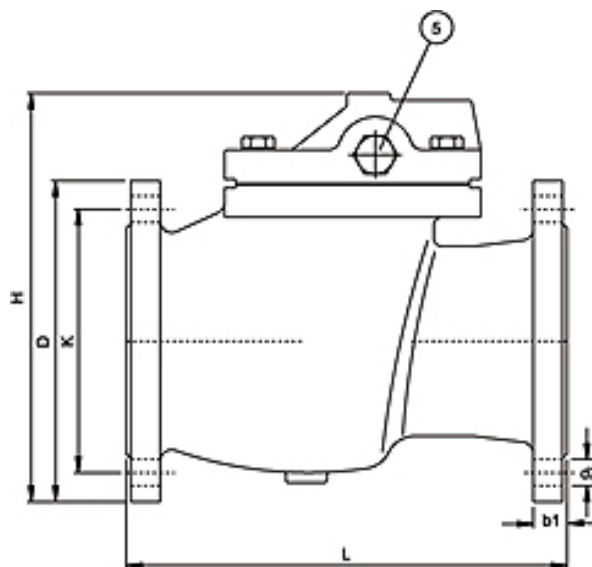




1	Body
2	Cover
3	Arm
4	Arm Hinge Pin
5	Locking Bolt
6	Disk
7	Disk Hinge Pin
8	Spring Pin
9	Body Seat Ring
10	Seal Washer (Gasket)
11	Cover Gasket
12	Cover Bolt
13	Spring Washer

Designation Standard: ISO 9952
 Face to face dimensions: DIN 3202 (F6 series)
 Flange mating dimensions: ISO 7005-2
 Pressure testing: ISO 2859-1
 Pressure loss test: ISO 9644



CAST IRON SWING CHECK VALVES

Check valves are automatically actuated. They are opened and sustained in the open position by the force of velocity pressure, and closed by the force of gravity. Seating load and resultant tightness is dependent upon back pressure. The disk and associated moving parts may be in a constant state of movement if the velocity pressure is not sufficient to hold the valve in a wide open and stable position. Premature wear and noisy operation or vibration of the moving parts can be avoided by selecting the size of check valve on the basis of flow conditions.

Sizing swing check valves on this basis may often result in the use of valves that are smaller than the pipe in which they are used, necessitating the use of reducers for installation. The pressure drop will be no greater than that of the larger valve that is only partially open, and valve life will be greatly extended. The added bonus, of course, is the lower cost of the smaller valve.

There is no tendency for the seating surfaces of swing check valves to gall or score, because the disk meets the flat seat squarely without rubbing control upon closing.

Swing check valves are used to prevent reversal of flow in horizontal or vertical pipe lines. In vertical lines, or for any angle from horizontal to vertical, they can be used for upward flow only.



The Materials of Parts (According to ISO 9952)					
No.	Part Name	Material Number	Material No.	Code No.	Material Standards
1	Body	Gray Cast Iron	0.6025	GG 25	DIN 1691 or ISO 185
2	Cover	Gray Cast Iron	0.6025	GG 25	DIN 1691 or ISO 185
3	Arm	Ductile Cast Iron	0.7050	GGG 25	DIN 1693
4	Arm Hinge Pin	Stainless Steel	1.4021	X20 Cr13	DIN 17440
5	Locking Bolt	Copper Zinc Alloy			DIN 1705 or ISO 426
6	Disk	Ductile Cast Iron	0.7050	GGG 50	DIN 1693
7	Disk Hinge Pin	Stainless Steel	1.4021	X20 Cr13	DIN 17440
8	Spring Pin				DIN 1481
9	Body Seat Ring	Copper Zinc Alloy			DIN 1705 or ISO 426
10	Seat Washer			NBR	DIN 53538 or ISO 4658
11	Cover Gasket				DIN 3754
12	Cover Bolts			Ck 15	DIN 933
13	Spring Washer (DIN 128)	Spring Steel		Fst	DIN 267-26

Face to face and space requirement dimensions							
DN	50	65	80	100	125	150	200
L	200	240	260	300	350	400	500
D	165	185	200	220	250	285	340
K	125	145	160	180	210	240	295
H	120	130	145	170	195	205	290
d2	18	18	18	18	18	22	22
b1	20	20	22	24	29	26	30
No.of holes	4	4	8	8	8	8	12
Weight (kg)	12.5	19.5	22	29.5	44	58.5	90
d4	102	122	138	158	188	212	268

Face to Face dimensions (Series F6 as specified in DIN 3202) and space requirement dimensions for PN 16 check valves with PN 16 flange ends (as specified in DIN 2501-1)

Working pressure: PN 16

Body test pressure: 25 bar

Seal test pressure: 16 bar

Temperature: up to 90°C (194°F)