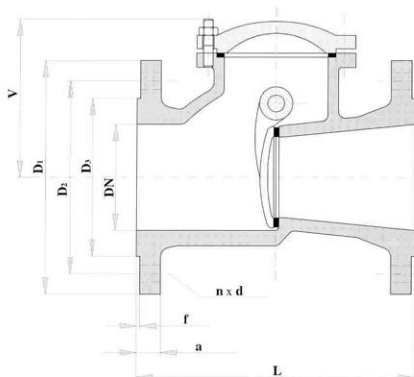


Swing check valve

L 10 117-516(216) PN 16



Installation

Valve can be installed either into horizontal or vertical position. In vertical pipeline disc must be in upper position and flow direction must be upwards.

Control

Self-acting by the pressure of working medium on the valve disc which in the closed position avoids reverse flow of medium.

Various design

L10 - basic

L11 - with lever and counterweight

L12 - with by-pass

L17 - with lever and counterweight and by-pass

Application

Self-acting valve preventing from reflux of transported medium. Valves are used for water, steam, and other non-aggressive liquids and gases. Maximum working pressures and temperatures:

Temperature [°C]	Pressure [MPa]	
	-516	-216
80	1,60	-
300	1,24	1,92
400	0,94	1,70
550	-	0,54

Swing check valve is not a shut-off valve. If tightness is required, shut-off valve must be also inserted into the pipeline.

Technical description

Swing check valve is straight flow valve. Disc fits on the seat sealing surface and is carried in an arm revolving on a special hinge pin. Sealing surfaces are welded on. Disc is pushed to the sealing surfaces during the reverse flow.

Connection

Flanges as per ČSN 131060 & 131061. Face-to-face dimensions as per ČSN EN 558 (line 1) acc. to DIN 3202/F6 (line 2). Basic connecting dimensions are given in the table.

Materials

Body, bonnet, disc	up to 400°C cast steel (DIN GS-C25)	up to 550°C alloy steel (ČSN422744.5)
Pin		stainless steel (13Cr)
Sealing surfaces		welded overlay 13Cr

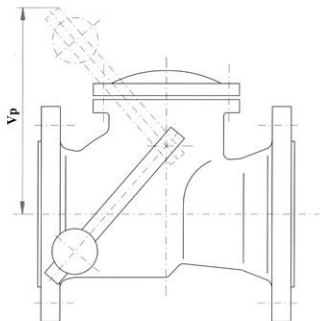
Testing

Swing check valve is tested as per DIN 3230, (ČSN 133060, part 2).

DN	L-series1	L-series2	V	D ₁	D ₂	D ₃	a	f	d	n	kg
40	200	180	105	150	110	88	18	3	18	4	12
50	230	200	110	165	125	102	18	3	18	4	15
65	290	240	140	185	145	122	18	3	18	4	20
80	310	260	145	200	160	133	20	3	18	8	24
100	350	300	160	220	180	158	20	3	18	8	35
125	400	350	180	250	210	184	22	3	18	8	48
150	460	400	195	285	240	212	22	3	22	8	62
200	500	500	245	340	295	268	24	3	22	12	103
250	600	600	285	405	355	320	26	3	26	12	164
300	700	-	365	460	410	370	28	4	26	12	219
350	800	-	415	520	470	430	30	4	26	16	322
400	900	-	460	580	525	482	32	4	30	16	518
500	1100	-	510	715	650	585	36	4	33	20	678
600	1300	-	680	840	770	685	40	5	36	20	1050

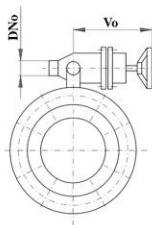
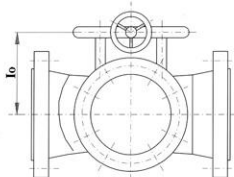
DN	200	250	300	350	400	500	600
Vp	240	275	310	345	380	430	670

L 11.1 117-516 - with lever and counterweight
L 11.1 117-216



DN	200	250	300	350	400	500	600
Vo	240	240	300	300	300	304	304
Io	360	385	440	470	490	535	585
DN_o	25	25	40	40	40	70	70

L 16.1 117-516 - with by-pass
L 16.1 117-216



DN	200	250	300	350	400	500	600
Vo	240	240	300	300	300	304	304
Io	360	385	440	470	490	535	585
Vp	240	275	310	345	380	430	670
DN_o	25	25	40	40	40	70	70

L 17.1 117-516 - with lever, counterweight and by-pass
L 17.1 117 - 216

