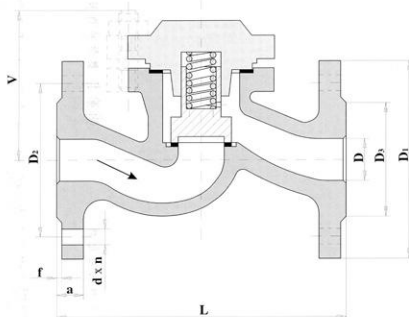


Spring-loaded lift check valve

Z 16 117-616

PN 16



Application

Self-acting valve which prevents reverse flow of the service fluid, for use with water, steam, on special request also for other non-aggressive liquids and gases for service pressures and temperatures:

Temperature [°C]	Pressure [MPa]
120	1,60
150	1,44
180	1,34
200	1,28
250	1,12
300	0,96

The lowest working overpressure is 0,08 MPa. If tightness is required, it is necessary to install into pipeline also a shut-off valve, besides the check valve.

Technical description

The valve is bonnet type. Closing disc is guided loose in the bonnet and pressed into a rolled seat by a spring. Flow direction in the valve is from under the disc.

Connecting and face-to-face dimensions

Flange connecting dimensions as per ČSN 13 1060, DIN 2501. Face-to-face dimensions as per ČSN EN 558-1, line 1.

Flange faces as per ČSN 13 1061, DIN 2526. Basic face-to-face and connecting dimensions are given in the table.

Material

Body, bonnet	grey cast iron (42 2420)
Disc to DN 50	stainless steel (grade 17)
Disc from DN 65	carbon steel with overlay (13 Cr)
Seat	stainless steel (grade 17)
Spring up to DN 50	stainless steel wire
Spring from DN 65	carbon steel wire

Testing

The valve is tested as per ČSN 13 3060, part 2, DIN 3230.

Installation

The valve can be installed in horizontal or vertical pipeline.

Operation

The valve is self-acting, using the pressure of the service fluid on the disc, which closes to prevent reverse medium flow.

DN	D	L	V	D ₁	D ₂	D ₃	a	f	d	n	kg
15	15	130	75	95	65	47	14	2	14	4	2,2
20	20	150	75	105	75	58	16	2	14	4	3
25	25	160	75	115	85	68	16	2	14	4	3,6
32	32	180	80	140	100	78	16	2	18	4	5
40	40	200	85	150	110	88	18	3	18	4	7,5
50	50	230	95	165	125	102	20	3	18	4	9,5
65	70	290	120	185	145	122	20	3	18	4	16
80	80	310	130	200	160	133	22	3	18	8	20
100	100	350	155	220	180	158	24	3	18	8	31
125	125	400	180	250	210	184	26	3	18	8	48
150	150	480	200	285	240	212	26	3	22	8	67
200	200	600	260	340	295	268	30	3	22	12	152