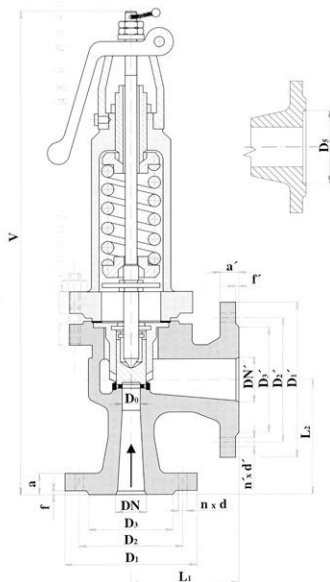


# Spring-loaded safety valve full-lift

P 57 217-5100

PN 100



## Application

Safety valve designed to protect pressure vessels and other pressure equipment against exceeding specific pressure level for steam, air, non-aggressive liquids and gases for service pressures and temperatures:

Temperature [°C]	Pressure [MPa]
200	10,00
300	7,73
400	5,88
450	-
500	-

Opening overpressure can be set from 0,1 MPa.

## Technical description

The gastight design of the valve has a raising lever for in-service testing of the valve. Closing disc fits in a sealing surface welded in the body. The disc is pressed into the seat by a thrust pin, which is forced down by a spring. Flow direction in the valve is from under the disc.

## Connecting and face-to-end dimensions

Flange connecting dimensions as per ČSN 13 1060 and ČSN 13 1061, DIN 2501, sealing surface finish is for PN 100 on inlet side, for PN 16 on outlet side.

Basic face-to-end and connecting dimensions are given in the table.

## Material

Body, cover	alloy steel (42 2744.5)
Top cover	grey cast iron (42 2420)
Disc, guide bush	stainless steel (13 Cr)
Seat	weld overlay (13 Cr)
Spring	special steel

## Testing

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

## Installation

The valve must be installed in vertical position with the thrust pin above the disc.

## Operation

Automatically operated by service pressure on the disc.

## Note

$P_{max}$  - maximum opening overpressure [MPa]

DN	DN'	D <sub>0</sub>	L <sub>1</sub>	L <sub>2</sub>	V	D <sub>1</sub>	D <sub>2</sub>	D <sub>3</sub>	D <sub>5</sub>	a	f	d	n	D <sub>1</sub> '	D <sub>2</sub> '	D <sub>3</sub> '	a'	f'	d'	n'	P <sub>max</sub> kg
25	40	15	110	120	420	140	100	68	58	24	2	18	4	150	110	88	18	3	18	4	7,9 19
40	65	25	130	140	570	170	125	88	76	26	3	22	4	185	145	122	20	3	18	4	7,5 28
50	80	32	150	150	680	195	145	102	88	28	3	26	4	200	160	133	20	3	18	8	7,7 34
65	100	50	155	165	775	220	170	122	110	30	3	26	8	220	180	158	20	3	18	8	6,0 68
80	125	63	205	185	920	230	180	133	121	32	3	26	8	250	210	184	22	3	18	8	6,3 98