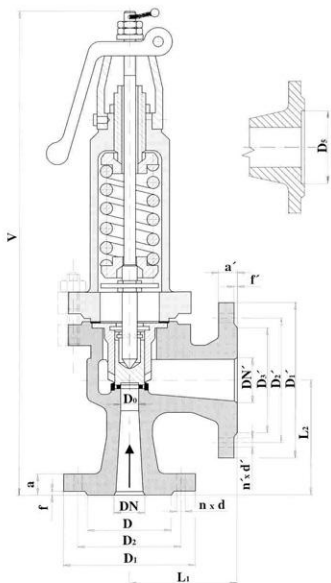


Spring-loaded safety valve full-lift

P 57 217-240

PN 40



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	5,00
300	4,81
400	4,25
450	3,98
500	3,11

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 ₀	L ₁	L ₂	V	D ₁	D ₂	D ₃	D ₅	a	f	d	n	D ₁ '	D ₂ '	D ₃ '	a'	f'	d'	n'	p _{max} kg	
25	40	20	100	105	405	115	85	68	-	18	2	14	4	150	110	88	18	3	18	4	4	17
40	65	32	120	130	560	150	110	88	-	18	3	18	4	185	145	122	18	3	18	4	4	25
50	80	40	125	145	585	165	125	102	-	20	3	18	4	200	160	133	20	3	18	8	4	32
65	100	50	145	150	705	185	145	122	-	22	3	18	8	220	180	158	20	3	18	8	3,75	47
80	125	63	170	180	810	200	160	133	-	24	3	18	8	250	210	184	22	3	18	8	3,8	67
100	150	80	210	200	950	235	190	158	-	24	3	22	8	285	240	212	22	3	22	8	4	97
125	200	100	250	230	1100	270	220	184	-	26	3	26	8	340	295	268	24	3	22	12	3,1	118
150	250	125	290	270	1200	300	250	212	-	28	3	26	8	405	355	320	26	3	26	12	1,8	180