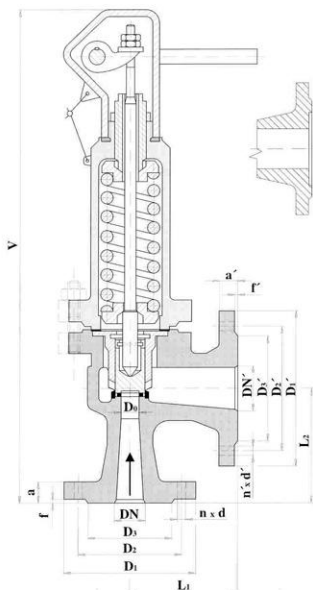


Spring-loaded safety valve full-lift, gastight

P 58 217-540

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	4,00
250	3,44
300	3,09

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 40 on inlet side, for PN 16 on outlet side.

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

Material

Body, cover	carbon steel (42 2643.1)
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	a	f	d	n	D ₁ '	D ₂ '	D ₃ '	a'	f'	d'	n'	P _{max}	kg
25	40	20	100	105	380	115	85	68	18	2	14	4	150	110	88	18	3	18	4	4,0	14
40	65	32	120	130	550	150	110	88	18	3	18	4	185	145	122	18	3	18	4	4,0	28
50	80	40	125	145	580	165	125	102	20	3	18	4	200	160	133	20	3	18	8	4,0	34
65	100	50	145	150	680	185	145	122	22	3	18	8	220	180	158	20	3	18	8	3,75	51
80	125	63	170	180	790	200	160	133	24	3	18	8	250	210	184	22	3	18	8	3,8	73
100	150	80	210	200	950	235	190	158	24	3	22	8	285	240	212	22	3	22	8	4,0	112
125	200	100	250	230	1150	270	220	184	26	3	26	8	340	295	268	24	3	22	12	3,1	138
150	250	125	290	270	1240	300	250	212	28	3	26	8	405	355	320	26	3	26	12	1,8	270