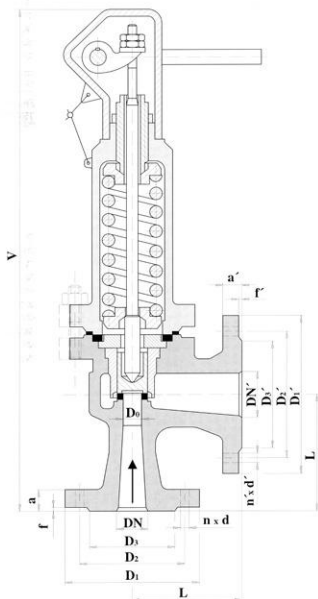


Spring-loaded safety valve proportional, gastight

P 16 217-540

PN 40



Note

Guaranteed discharge factor = 0,25 for gases and steam
= 0,08 for liquids

P_{max} - maximum opening overpressure [MPa]

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 0,03 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, for PN 16 on inlet, for PN 10 on outlet.

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

Material

Body, cover	carbon steel (42 2643)
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.

DN	DN'	D ₀	L	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	25	20	90	375	115	85	68	18	2	14	4	115	85	68	16	2	14	4	4,0	10
40	40	32	110	520	150	110	88	18	3	18	4	150	110	88	18	3	18	4	4,0	24
50	50	40	125	545	165	125	102	20	3	18	4	165	125	102	18	3	18	4	4,0	28
65	65	56	145	675	185	145	122	22	3	18	8	185	145	122	18	3	18	4	4,0	50
80	80	70	155	770	200	160	133	24	3	18	8	200	160	133	20	3	18	8	4,0	70
100	100	90	175	810	235	190	158	24	3	22	8	220	180	158	20	3	18	8	2,5	80
125	125	100	200	950	270	220	184	26	3	26	8	250	210	184	22	3	18	8	2,4	115