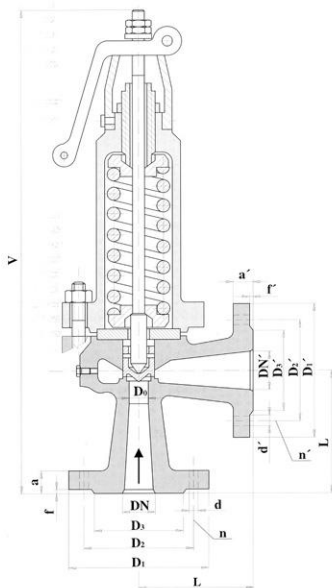


Spring-loaded safety valve low-lift

P 12 217-040

PN 40



Application

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

Temperature [°C]	Pressure [MPa]
200	3,56
250	3,44
300	3,33

Technical description

Non-enclosed design of the valve has a raising lever for in-service testing of the valve. Closing disc fits in the body sealing surface made of the base material. The disc is pressed 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 40 on inlet, for PN 6 on outlet.

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

Material

Body, cover	stainless steel (42 2942)
Top cover	grey cast iron, carbon steel
Disc	stainless steel (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	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	80	295	115	85	68	18	2	14	4	100	75	60	14	2	11	4	3,9	5,8
50	50	40	115	425	165	125	102	20	3	18	4	140	110	90	16	3	14	4	3,9	17
80	80	70	155	435	200	160	133	24	3	18	8	190	150	128	18	3	18	4	4	39
100	100	70	175	732	235	190	158	24	3	22	8	210	170	148	18	3	18	4	2,5	53