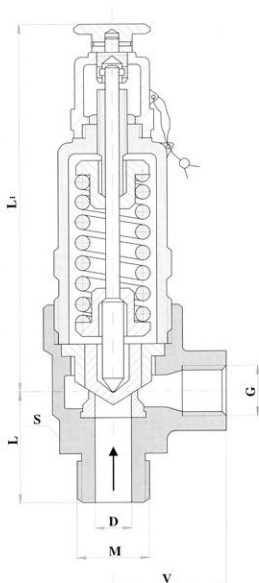


Spring-loaded safety valve, low-lift with screw ends and threaded neck

P 10 287-616

PN 16



Application

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

Temperature [°C]	Pressure [MPa]
120	1,60
150	1,44
180	1,34
200	1,28

Opening overpressure can be set between 0,1 MPa and 1,6 MPa for all diameters.

Technical description

The valve is of enclosed design with a raising lever for in-service testing of the valve. Closing disc fits in a seat rolled 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 end-to-end dimensions

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

Material

Body, cover, top cover
grey cast iron (42 2420)
Disc, guide bush
stainless steel (13 Cr)
Seat ring
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.

Water 20 °C

DN	Opening overpressure [MPa]															
	0,1	0,2	0,3	0,4	0,5	0,6	0,7	0,8	0,9	1,0	1,1	1,2	1,3	1,4	1,5	1,6
	Gauranted discharge [kg/h]															
15	8,9	12,6	15,4	17,8	19,9	21,8	23,6	25,2	26,7	28,2	29,5	30,9	32,1	33,3	34,5	35,6
25	173,4	245,3	300,4	346,9	387,8	424,8	458,9	490,6	520,3	548,5	575,3	600,8	625,4	649	671,8	693,8

Air 20 °C

DN	Opening overpressure [MPa]															
	0,1	0,2	0,3	0,4	0,5	0,6	0,7	0,8	0,9	1,0	1,1	1,2	1,3	1,4	1,5	1,6
	Gauranted discharge [kg/h]															
15	0,59	0,89	1,19	1,49	1,79	2,09	2,39	2,69	2,99	3,29	3,59	3,89	4,19	4,49	4,79	5,09
25	24,7	37,2	49,8	62,3	74,8	87,3	99,8	112,3	124,8	137,3	149,8	162,3	174,8	187,4	199,9	212,4

DN	D	M	G	L	L ₁	V	S	kg
15	15	M 27 x 1,5	1/2"	43	155	42	41	1,4
25	25	M 42 x 2	1"	60	185	50	60	2,8