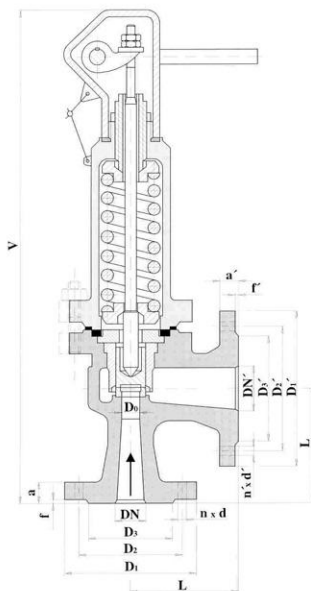


# Spring-loaded safety valve proportional, gastight

P 16 217-616

PN 16



## Operation

Automatically operated by service pressure on the disc.

## Note

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

Maximum opening overpressure = 1,60 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]
120	1,60
150	1,44
180	1,34
200	1,28

Maximum opening overpressure is 1 MPa when used with steam boilers. Opening overpressure can be set between 0,03 MPa to 1,6 MPa for all diameters.

## Technical description

The gastight design of the valve has a raising lever for in-service testing of the valve. Closing disc fits in a rolled seat 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, 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.

DN	DN'	D <sub>0</sub>	L	V	D <sub>1</sub>	D <sub>2</sub>	D <sub>3</sub>	a	f	d	n	D <sub>1</sub> '	D <sub>2</sub> '	D <sub>3</sub> '	a'	f'	d'	n'	kg
25	25	20	90	375	115	85	68	16	2	14	4	115	85	68	16	2	14	4	10
40	40	32	110	520	150	110	88	18	3	18	4	150	110	88	18	3	18	4	24
50	50	40	125	545	165	125	102	20	3	18	4	165	125	102	20	3	18	4	28
65	65	56	145	675	185	145	122	20	3	18	4	185	145	122	20	3	18	4	47
80	80	70	155	770	200	160	133	22	3	18	8	200	160	133	22	3	18	8	65
100	100	90	175	810	220	180	158	24	3	18	8	220	180	158	22	3	18	8	75