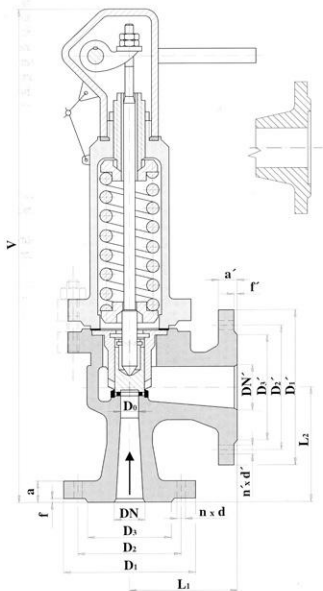


Spring-loaded safety valve full-lift, gastight

P 58 217-5100

PN 100



Note

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 | 10,00 |
| 250 | 8,61 |
| 300 | 7,73 |

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.

| 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 | 15 | 110 | 120 | 395 | 140 | 100 | 58 | 24 | 3 | 18 | 4 | 150 | 110 | 88 | 18 | 3 | 18 | 4 | 7,9 | 14,5 |
| 40 | 65 | 25 | 130 | 140 | 650 | 170 | 125 | 76 | 26 | 3 | 22 | 4 | 185 | 145 | 122 | 18 | 3 | 18 | 4 | 7,5 | 30 |
| 50 | 80 | 32 | 150 | 150 | 660 | 195 | 145 | 88 | 28 | 3 | 26 | 4 | 200 | 160 | 133 | 20 | 3 | 18 | 8 | 7,7 | 38 |
| 65 | 100 | 50 | 155 | 165 | 775 | 220 | 170 | 110 | 30 | 3 | 26 | 8 | 220 | 180 | 158 | 20 | 3 | 18 | 8 | 6,0 | 84 |
| 80 | 125 | 63 | 205 | 185 | 920 | 230 | 180 | 121 | 32 | 3 | 26 | 8 | 250 | 210 | 184 | 22 | 3 | 18 | 8 | 6,3 | 113 |