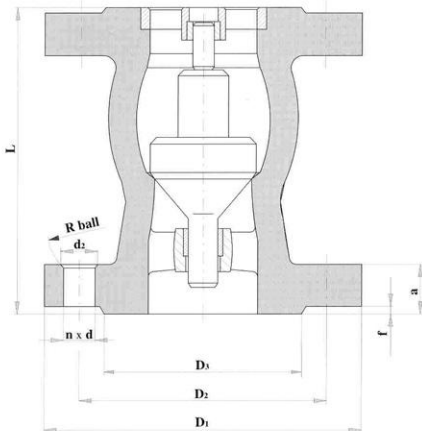


Vertical check valve

Z 35 117-5250

PN 250



Application

Self-acting valve which prevents reverse flow of the service fluid, for use with water, steam, on special request also for other non-aggressive liquids and gases for service pressures and temperatures:

| Temperature [°C] | Pressure [MPa] |
|------------------|----------------|
| 200 | 25,00 |
| 250 | 21,50 |
| 300 | 19,30 |

If tightness is required, it is necessary to install into pipeline also a shut-off valve, besides the check valve.

Technical description

The valve is intended mainly for vertical delivery pump pipelines. Closing disc fits into sealing surfaces welded in the body. The disc is seated in double guide. Top guide is inserted loose, bottom guide is a part of the body. Flow direction in the valve is from under the disc.

Connecting and face-to-face dimensions

Flange connecting dimensions as per ČSN 13 1060 and ČSN 13 1061, DIN 2501. Basic face-to-face and connecting dimensions are given in the table.

Material

Body, yoke carbon steel (42 2643, GS-C25)
 Disc guide carbon steel
 Disc stainless steel (13 Cr)
 Sealing surface weld overlay 13 Cr
 Guide sleeves ČSN 02 3499

Testing

The valve is tested as per ČSN 13 3060, part 2, DIN 3230.

Installation

The valve must be installed only into vertical pipeline with the inserted guide upwards.

Operation

The valve is self-acting, using the pressure of the service fluid on the disc, which closes to prevent reverse medium flow.

| DN | L | D ₁ | D ₂ | D ₃ | R | a | f | n | d | d ₂ | kg |
|-----|-----|----------------|----------------|----------------|-----|-----|---|----|----|----------------|------|
| 65 | 200 | 230 | 180 | 122 | - | 48 | 3 | 8 | 26 | - | 30 |
| 100 | 230 | 300 | 235 | 158 | 60 | 57 | 3 | 8 | 33 | 52 | 62,5 |
| 150 | 300 | 390 | 320 | 212 | 80 | 70 | 3 | 12 | 36 | 56 | 133 |
| 200 | 380 | 485 | 400 | 285 | 80 | 85 | 3 | 12 | 42 | 70 | 252 |
| 250 | 450 | 585 | 490 | 345 | 100 | 100 | 3 | 16 | 48 | 80 | 400 |