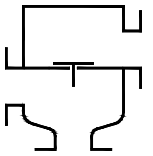
KITO Armaturen GmbH

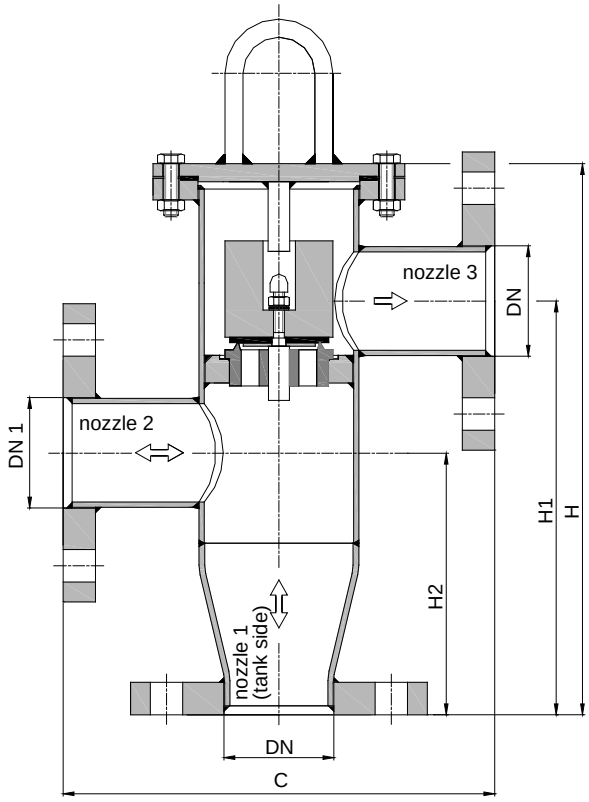
# Type sheet
In-line pressure or vacuum relief valve
**KITO® VL/TA-...**



## Application

Distributing piece for vertical flange connection to a tank connecting pipe. The tank connection is nozzle 1. The two branching connections have many uses. Nozzle 2 can be used to connect a vacuum valve or an inert gas conduit, nozzle 3 with pressure valve function can be used as protection against pressure or to carry away exhaust gas or as gas compensation when filling a tank. For flammable storage media, the vacuum valve (connecting nozzle 2) and the connection 3 have to be secured with the respective flame arrester.

## Dimensions (mm) and settings (mbar)




***Construction lengths can be adapted to customers wish to local situation.***

| DN | | DN1 | | C | H | H1 | H2 | kg | setting | |
|---|---|---|---|---|---|---|---|---|---|---|
| DIN | ASME | DIN1 | ASME 1 | | | | | | min. | max. |
| **40 PN 40** | **1 ½“** | **50** | **2“** | 240 | 305 | 230 | 145 | 12.0 | 2.5 | 90 |
| **50 PN 16** | **2“** | **50** | **2“** | 240 | 305 | 230 | 145 | 12.5 | 2.5 | 93 |
| **65 PN 16** | **2 ½“** | **80** | **3“** | 350 | 400 | 305 | 200 | 22.0 | 1.8 | 130 |
| **80 PN 16** | **3“** | **80** | **3“** | 350 | 415 | 320 | 205 | 24.0 | 1.5 | 70 |
| **100 PN 16** | **4“** | **100** | **4“** | 350 | 475 | 365 | 230 | 26.5 | 1.6 | 127 |
| **125 PN 16** | **5“** | **125** | **5“** | 450 | 545 | 415 | 250 | 44.0 | 1.6 | 136 |
| **150 PN 16** | **6“** | **150** | **6“** | 500 | 595 | 445 | 255 | 53.5 | 1.6 | 165 |

*Indicated weights are understood without weight load and refer to the standard design*

*Higher settings on request!*

## Example for order

***KITO® VL/TA-50***
*(design with flange connection DN 50 PN 16)*

***Without EC certificate and CE-marking***



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**F 50 N**
Date: 05-2018
Created: Abt. Doku KITO
Design subject to change

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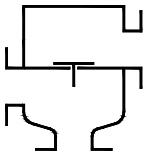


## Design

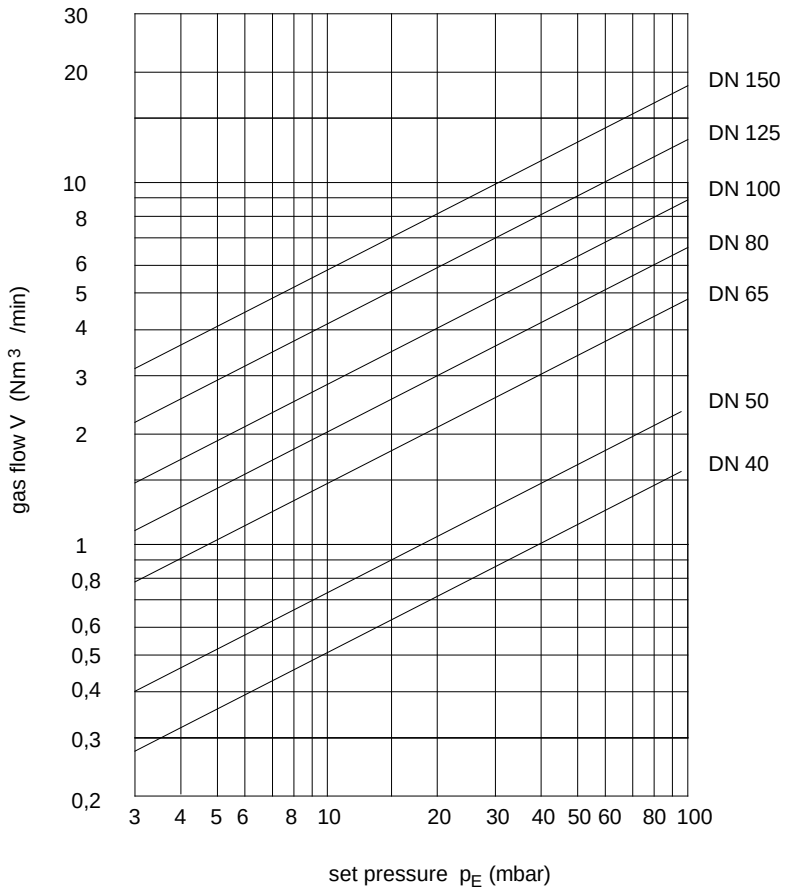
| | standard | optionally |
|---|---|---|
| housing / cover | steel | stainless steel mat. no. 1.4571 |
| gasket | HD 3822 | PTFE |
| valve seat, valve spindle | stainless steel mat. no. 1.4571 | |
| load weight | stainless steel mat. no. 1.4571 | PE |
| valve sealing | NBR | Viton, PTFE, EPDM, metal sealing |
| | *≥ 100 mbar only PTFE or metal sealing* | |
| flange connection | EN 1092-1 type A | ASME B16.5 Class 150 RF |

## Performance curves

Flow capacity V based on air of a density ρ = 1.29 kg/m³ at T = 273 K and atmospheric pressure p = 1.013 mbar. For other gases the flow can be approximately calculated by

$$\dot{V}_{40\%} = \dot{V}_b \cdot \sqrt{\frac{\rho_b}{1.29}} \qquad or \qquad \dot{V}_b = \dot{V}_{40\%} \cdot \sqrt{\frac{1.29}{\rho_b}}$$

The indicated flow rates will be reached by an accumulation of 40% above valve's setting (see DIN 4119).
If the allowable overpressure is less 40%, please consult der factory for the corrected volume flow.



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