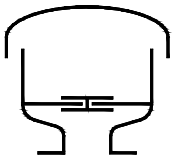
KITO Armaturen GmbH

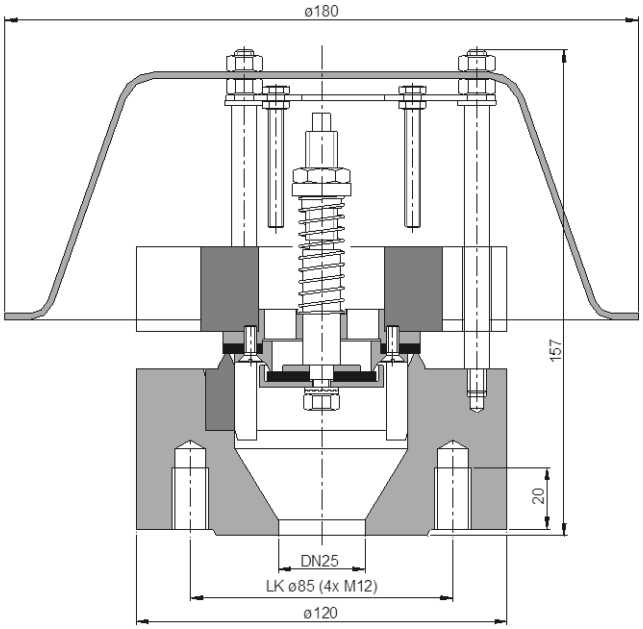
# Type sheet
Pressure and vacuum relief valve
**KITO® VD/o-25**



## Application

As end-of-line armature, as venting and breather device mainly for tanks in which non-flammable liquids are stored. Valve is used to prevent inadmissible pressure or vacuum as well as gas losses or inadmissible emissions respectively. Valve is not explosion-proof or endurance-burning proof.

## Dimensions (mm) and settings (mbar)




For valves with bigger nominal sizes see type sheet E 17 N

Weight 6.5 kg (indicated weight is understood without weight load and refer to the standard design).

Standard valve setting 10-30 mbar pressure (maximal 70 mbar) and 3-50 mbar vacuum -different settings against additional price-

## Design

| | standard | optionally |
|---|---|---|
| housing / valve seat | steel / stainless steel mat. no. 1.4571 *(Design left half of the sectional image)* | stainless steel mat. no. 1.4571 *(Design right half of the sectional image)* |
| valve parts / valve spindle | stainless steel mat. no. 1.4571 | |
| load weight | stainless steel mat. no. 1.4571 | |
| valve sealing | NBR | Viton, PTFE, EPDM |
| valve pallet (vacuum) | spring loaded | |
| valve pallet (pressure) | weight loaded | |
| weather hood | stainless steel mat. no. 1.4301 | stainless steel mat. no. 1.4571 |
| flange connection | drilled to EN 1092-1 PN 40 type B1 | drilled to ASME B16.5 Class 150 RF |

## Example for order

***KITO® VD/o-25***
*(design with flange connection DN 25 PN 40)*

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



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**E 17.2 N**
Date: 05-2018
Created: Abt. Doku KITO
Design subject to change

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# Type sheet
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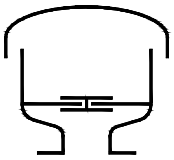
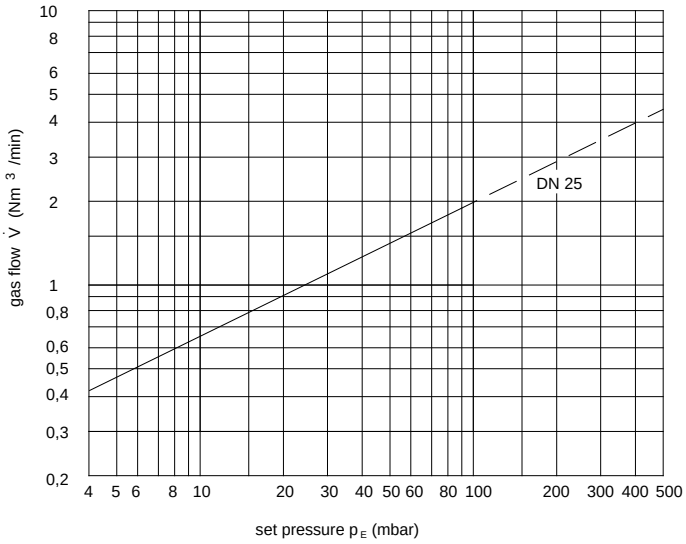


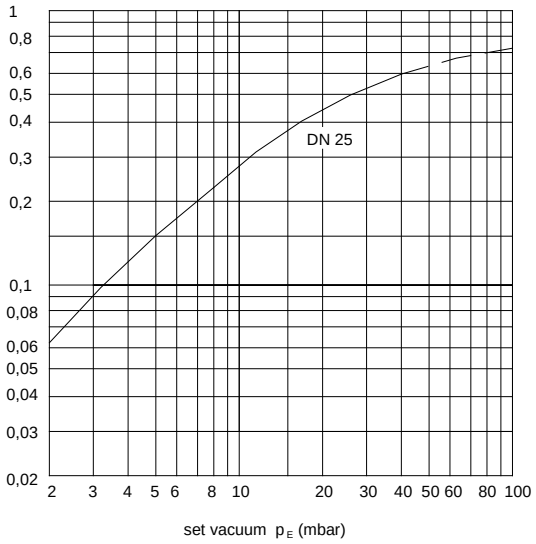
## Performance curves

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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