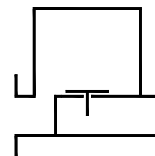


Type sheet

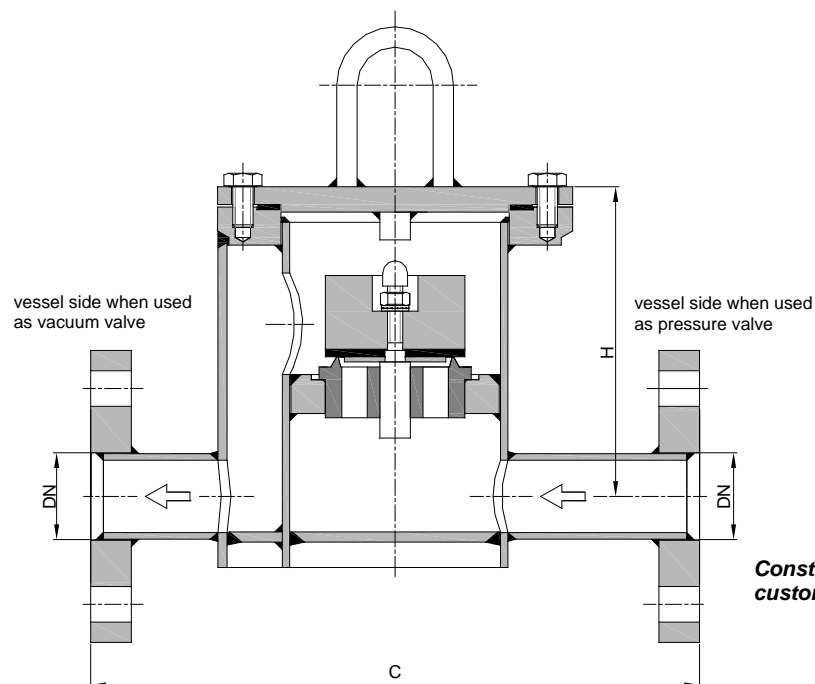
In-line pressure or vacuum relief valve
KITO® VD/TA-...



Application

as inline armature with venting or breather valve function for vessels. Preferably used for installation in pipes. Depending on the installation, the valve can be used as pressure or vacuum valve. It can also be used as non-return safety device or overflow valve.

Dimensions (mm) and settings (mbar)



Construction length C can be adapted to customers wish to local situation.

| DN | | C | H | ~kg | min. - max. (load weight from PE) | setting min. - max. | min. - max. (with housing extension) |
|-----------|------|-----|-----|-----|---|------------------------|--|
| DIN | ASME | | | | | | |
| 25 PN 40 | 1" | 240 | 200 | 10 | 2.5 - 10.4 | 10.5 - 86 | > 86 - 200 |
| 32 PN 40 | 1 ¼" | 240 | 212 | 12 | 2.5 - 10.4 | 10.5 - 82 | > 82 - 200 |
| 40 PN 40 | 1 ½" | 350 | 272 | 18 | 1.8 - 10.3 | 10.4 - 200 | - |
| 50 PN 16 | 2" | 350 | 267 | 19 | 1.8 - 10.3 | 10.4 - 190 | > 190 - 200 |
| 65 PN 16 | 2 ½" | 350 | 287 | 20 | 1.7 - 7.4 | 7.5 - 165 | > 165 - 200 |
| 80 PN 16 | 3" | 350 | 325 | 25 | 1.7 - 7.8 | 7.9 - 165 | > 165 - 200 |
| 100 PN 16 | 4" | 450 | 357 | 30 | 1.7 - 7.6 | 7.7 - 180 | > 180 - 200 |
| 125 PN 16 | 5" | 500 | 394 | 35 | 1.7 - 6.7 | 6.8 - 150 | - |
| 150 PN 16 | 6" | 550 | 441 | 42 | 1.7 - 11.9 | 12 - 150 | - |

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

Higher settings see KITO® VD/TA-1-... (type sheet F 30.1 N)

Example for order

KITO® VD/TA-50

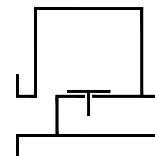
(design with flange connection DN 50 PN 16)

Without EC certificate and CE-marking

Type sheet

In-line pressure or vacuum relief valve

KITO® VD/TA-...



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 |
| | <i>≥ 100 mbar only PTFE or metal sealing</i> | |
| flange connection | EN 1092-1 type A | ASME B16.5 Class 150 RF |

Performance curves

Flow capacity V based on air of a density $\rho = 1.29 \text{ kg/m}^3$ at $T = 273 \text{ K}$ and atmospheric pressure $p = 1.013 \text{ mbar}$. For other gases the flow can be approximately calculated by

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

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.

