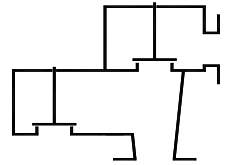


Type sheet

In-line pressure and vacuum relief valve

KITO® VD/oG-PA-... VD

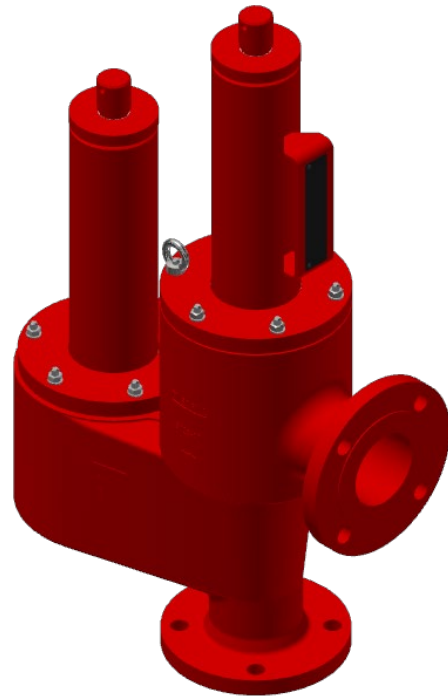
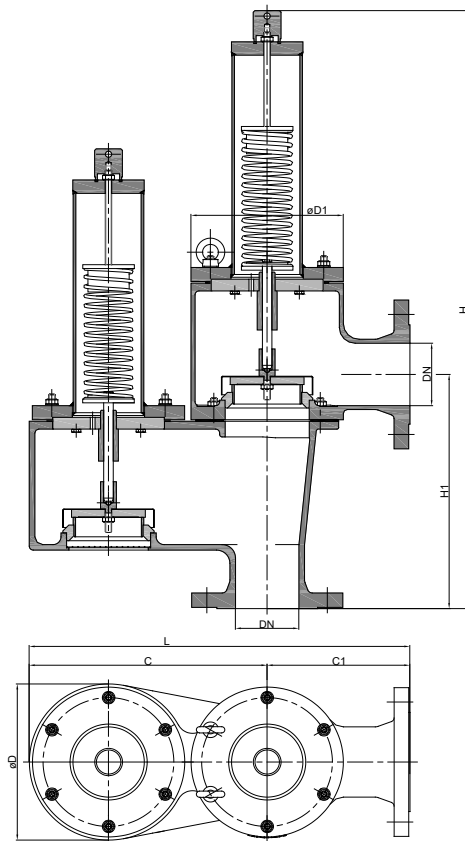
-End of line device for use in pipeline-



Application

As end-of-line armature, for venting apertures on tank installations. Used mainly as venting and breather device for fixed roof tanks. Used to prevent inadmissible pressure and vacuum and to minimize unwelcome gas losses or inadmissible emissions respectively. The housing is mounted perpendicularly on a tank roof. **The product vapours can be discharged through a collective line into the atmosphere connected to the line flange on the pressure side.**

Dimensions (mm) and settings (mbar)



| DN | ASME | C | C1 | D | D1 | H | H1 | L | kg | setting | |
|-----------|------|-----|-----|-----|-----|------|-----|------|----|---------|----------|
| | | | | | | | | | | vacuum | pressure |
| 50 PN 16 | 2" | 255 | 150 | 165 | 165 | 604 | 240 | 405 | | | |
| 80 PN 16 | 3" | 300 | 180 | 200 | 192 | 766 | 300 | 480 | 51 | | |
| 100 PN 16 | 4" | 400 | 200 | 250 | 240 | 911 | 330 | 600 | | | |
| 150 PN 16 | 6" | 555 | 250 | 350 | 350 | 1173 | 390 | 805 | | | |
| 200 PN 10 | 8" | 625 | 300 | 400 | 390 | 1526 | 480 | 925 | | | |
| 250 PN 10 | 10" | 705 | 305 | 460 | 460 | 1630 | 555 | 1010 | | | |
| 300 PN 10 | 12" | 705 | 305 | 460 | 460 | 1630 | 582 | 1010 | | | |

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

Example for order

KITO® VD/oG-PA-80 VD

(design DN 80 with flange connection DN 80 PN 16)

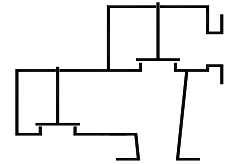
Without EC certificate and €-marking

Type sheet

In-line pressure and vacuum relief valve

KITO® VD/oG-PA-... VD

-End of line device for use in pipeline-



Design

| | standard | optionally |
|-----------------------------|---------------------------------|--|
| housing upper part (PN 1) | cast steel mat. no. 1.0619 | stainless cast steel mat. no. 1.4408 |
| housing lower part | cast steel mat. no. 1.0619 | stainless cast steel mat. no. 1.4408 |
| cover | steel | stainless steel mat. no. 1.4301/1.4571 |
| gasket | PTFE | |
| design valve pallet | spring loaded | |
| valve seat | stainless steel mat. no. 1.4571 | |
| valve pallet, valve spindle | stainless steel mat. no. 1.4571 | |
| valve sealing | metal sealing | |
| spring loaded parts | stainless steel mat. no. 1.4571 | |
| compression spring | stainless steel | |
| flange connection | EN 1092-1 type B1 | 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

$$\dot{V}_{20\%} = \dot{V}_b \cdot \sqrt{\frac{\rho_b}{1.29}} \quad \text{or} \quad \dot{V}_b = \dot{V}_{20\%} \cdot \sqrt{\frac{1.29}{\rho_b}}$$

The indicated flow rates will be reached by an accumulation of 20 % above valve's setting. If the allowable overpressure is less than 20%, please consult the factory for the corrected volume flow.

