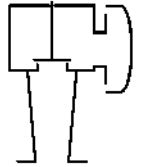




Type sheet

Pressure relief valve

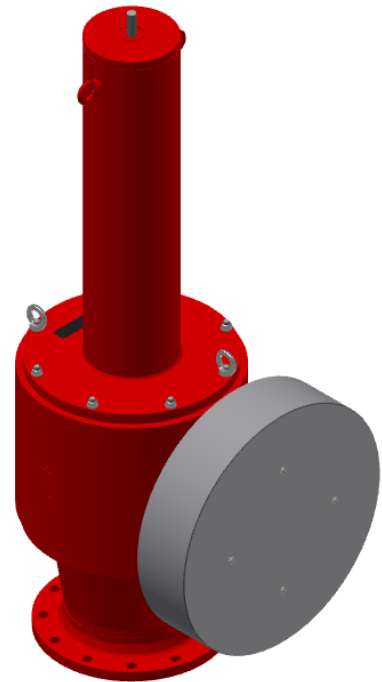
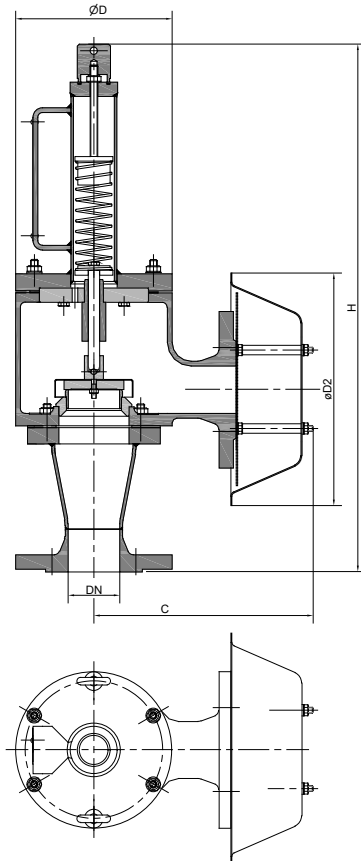
KITO® DS/oG-PA-... DE



Application

As venting device for installation on storage tanks with a PRV to protect against hazardous excess pressure but minimize the loss of gas/vapours. This device does not protect against the hazard of explosion or stabilized burning. The housing is mounted perpendicularly on a tank roof.

Dimensions (mm) and settings (mbar)



| DIN | DN | ASME | C | D | DIN | H | ASME | kg | setting |
|-----------|----|------|-----|-----|------|------|------|----|---------|
| 50 PN 16 | | 2" | 230 | 165 | 556 | 575 | | | >60-415 |
| 80 PN 16 | | 3" | 320 | 200 | 691 | 713 | | | |
| 100 PN 16 | | 4" | 340 | 250 | 852 | 884 | | | |
| 150 PN 16 | | 6" | 405 | 350 | 1107 | 1141 | | | |
| 200 PN 10 | | 8" | 455 | 400 | 1311 | 1351 | | | |
| 250 PN 10 | | 10" | 460 | 460 | 1420 | 1454 | | | |
| 300 PN 10 | | 12" | 460 | 460 | 1420 | 1467 | | | |

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

Example for order

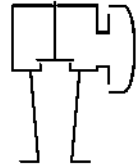
KITO® DS/oG-PA-50 DE

(design DN 50 with flange connection DN 50 PN 16)

Without EC certificate and €-marking

Type sheet

Pressure relief valve

KITO® DS/oG-PA-... DE

Design

| | standard | optionally |
|------------------------------|---------------------------------|--|
| housing upper part (PN 1) | cast steel mat. no. 1.0619 | stainless cast steel mat. no. 1.4408 |
| housing lower part | steel | stainless steel mat. no. 1.4571 |
| 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 | |
| weather hood | stainless steel | |
| protective screen | stainless steel mat. no. 1.4301 | |
| 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.

