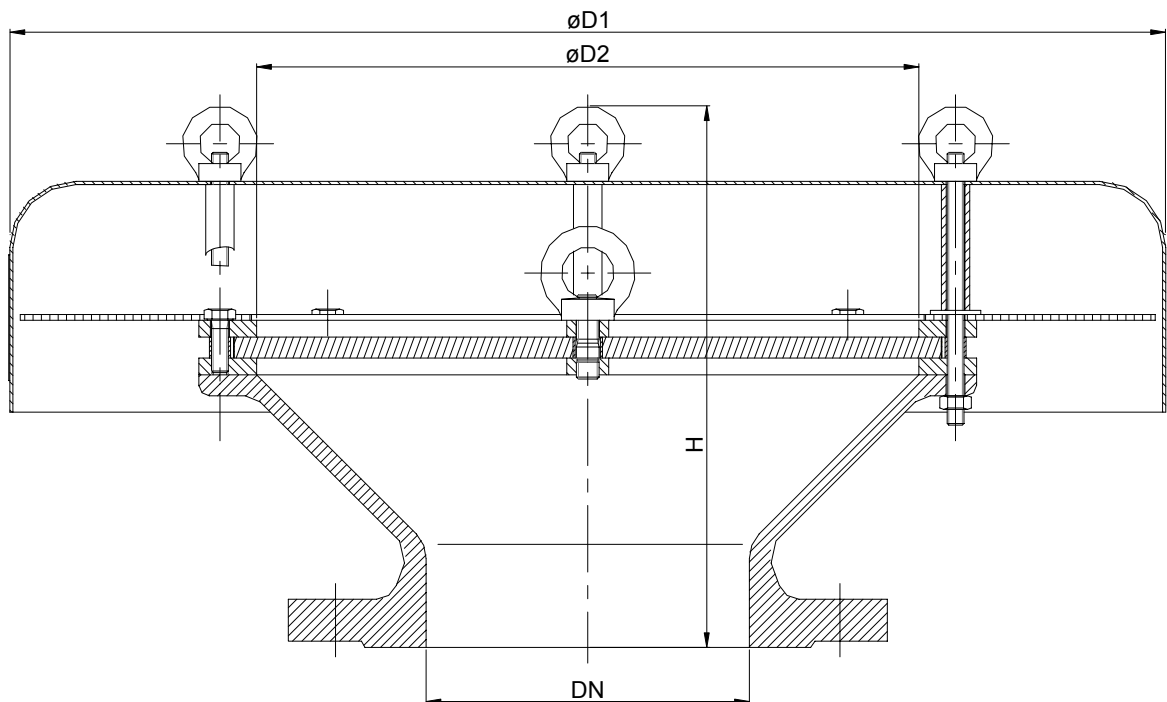


Hooded Tank Vent KITO VH-...-IIC

(with KITO flame arrester element, vertical connection)



| DN | ANSI | D1 | D2 | H | kg |
|-----|------|------|------|------|-------|
| 50 | 2" | 200 | 100 | 185 | 8 |
| 80 | 3" | 240 | 150 | 195 | 12,7 |
| 100 | 4" | 295 | 200 | 235 | 18,2 |
| 150 | 6" | 550 | 300 | 270 | 36,3 |
| 200 | 8" | | | 39,8 | |
| 250 | 10" | 600 | 400 | 370 | 73,8 |
| 300 | 12" | | | 365 | 73 |
| 350 | 14" | 800 | 600 | 415 | 111,8 |
| 400 | 16" | | | 410 | 126,8 |
| 500 | 20" | 1000 | 700 | 430 | 172,6 |
| 600 | 24" | 1200 | 800 | 505 | 250,2 |
| 700 | 28" | 1400 | 1000 | 545 | 348,3 |
| 800 | 32" | 1600 | 1200 | 585 | 456,6 |

Dimensions in mm

Type examination certificate in accordance to ATEX 100 a and EN 12874

CE - marking available

Example for orders :
KITO VH-300-IIC-300
(design DN 300)

Design subject to change

Performance curves : B 0.7 N

Standard design

| | |
|------------------------|---|
| housing | : cast steel 1.0619 (from DN 300 St 37-2), mat. no. 1.4408 (from DN 300 1.4571) |
| flame arrester element | : single grid with oblique corrugation gap width 0,2 mm (interchangeable) |
| casing for grid | : St 37-2, mat. no. 1.4571 |
| grid | : mat. no. 1.4310, 1.4571 |
| weather hood | : mat. no. 1.4301 |
| protective screen | : mat. no. 1.4301 (not for DN 50-100) |
| flange connection | : DIN 2501 PN 10 ANSI 150 lbs. |

Application

As breather/venting safety device incorporating an explosion proof flame arrester for installation on top of storage tanks, tank access covers or breather pipes. The breather allows for the unimpeded flow of gases out to atmosphere and clean air into the tank/pipe thereby preventing vacuum locks whilst ensuring provision of a permanent and reliable protection against any flashback into the tank/pipe.

This device is not permitted to be installed in enclosed areas.

Approved for all materials of the explosion group IIC with a maximum experimental safe gap (MESG) < 0.5.

Other materials, special designs, heating etc upon request.



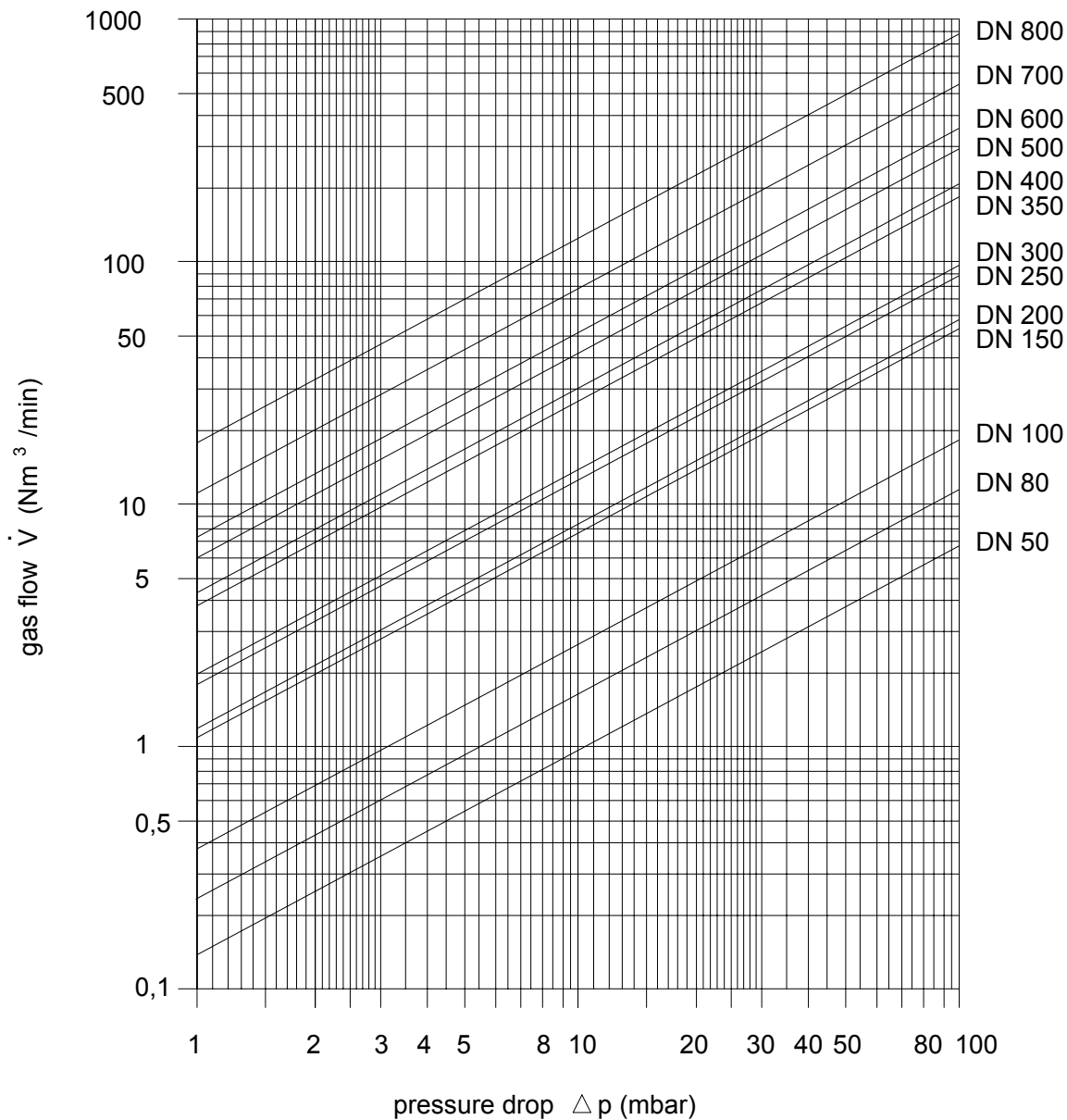
Performance curves

Hooded Tank Vent KITO VH-...-IIC

B 7 N

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

$$\dot{V} = \dot{V}_b \cdot \sqrt{\frac{\rho_b}{1,29}} \quad \text{or} \quad \dot{V}_b = \dot{V} \cdot \sqrt{\frac{1,29}{\rho_b}}$$



Design subject to change