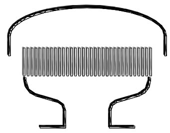
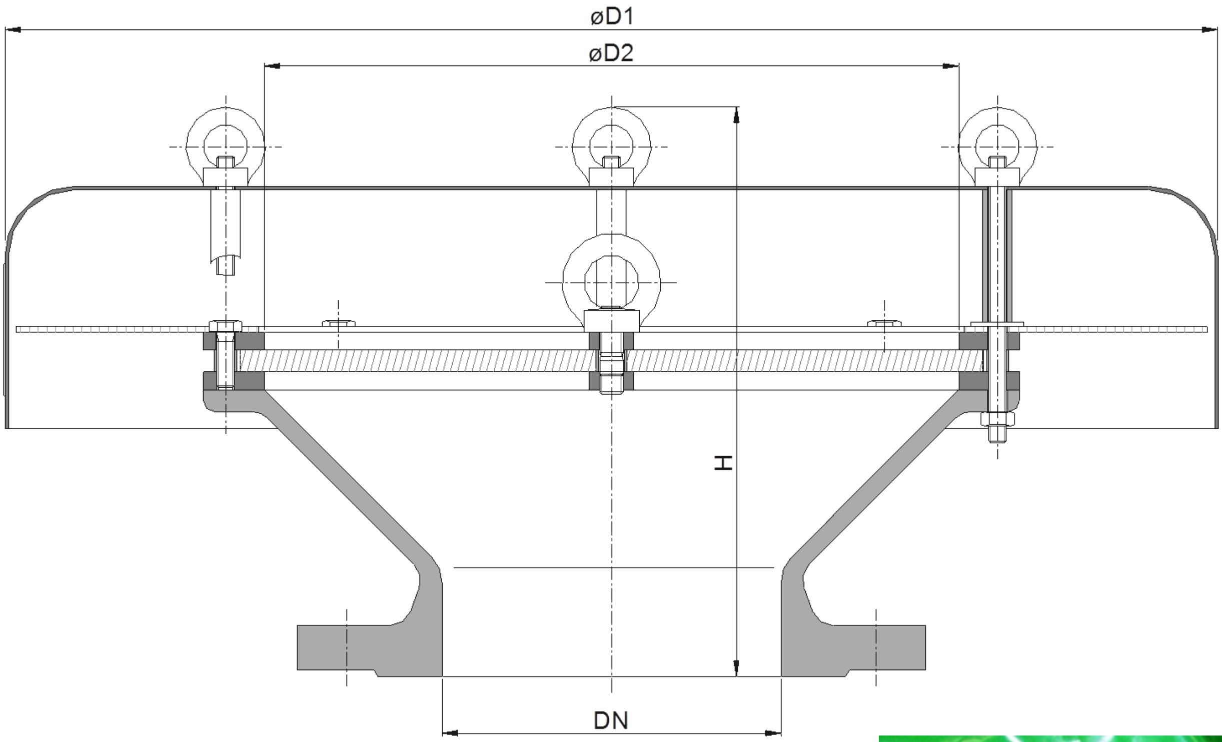
# Hooded Tank Vent
## KITO® VH-...-IIB3






***Type examination certificate to DIN EN ISO 16852***

***CE -designation in accordance to ATEX-Guideline 94/9/EC***

| DN | ANSI | D1 | D2 | H | | kg* |
|---|---|---|---|---|---|---|
| **50 PN 16** | 2“ | 285 | 110 | 170 | | 7.3 |
| **80 PN 16** | 3“ | 330 | 150 | 180 | | 11 |
| **100 PN 16** | 4“ | 405 | 185 | 220 | | 15 |
| **150 PN 16** | 6“ | 550 | 315 | 260 | | 29.9 |
| **200 PN 10** | 8“ | | | | | 31.5 |
| **250 PN 10** | 10“ | 600 | 395 | 355 | | 62.5 |
| **300 PN 10** | 12“ | | | 350 | 396 | 62 |
| **350 PN 10** | 14“ | 800 | 595 | 405 | 464 | 88 |
| **400 PN 10** | 16“ | | | 400 | 455 | 103 |
| **450 PN 10** | 18” | 1000 | 700 | - | 489 | |
| **500 PN 10** | 20“ | | | 415 | 485 | 130 |
| **600 PN 10** | 24“ | 1200 | 800 | 485 | 558 | 192 |
| **700 PN 10** | - | 1400 | 1000 | 520 | - | 265 |
| **800 PN 10** | - | 1600 | 1210 | 560 | - | 345 |

Dimensions in mm     * weight refers to the standard design

*Example to order :*
***KITO® VH-300-IIB3***
*(design with flange connection DN 300)*

Design subject to change

performance curves: B 0.6 N

Standard design

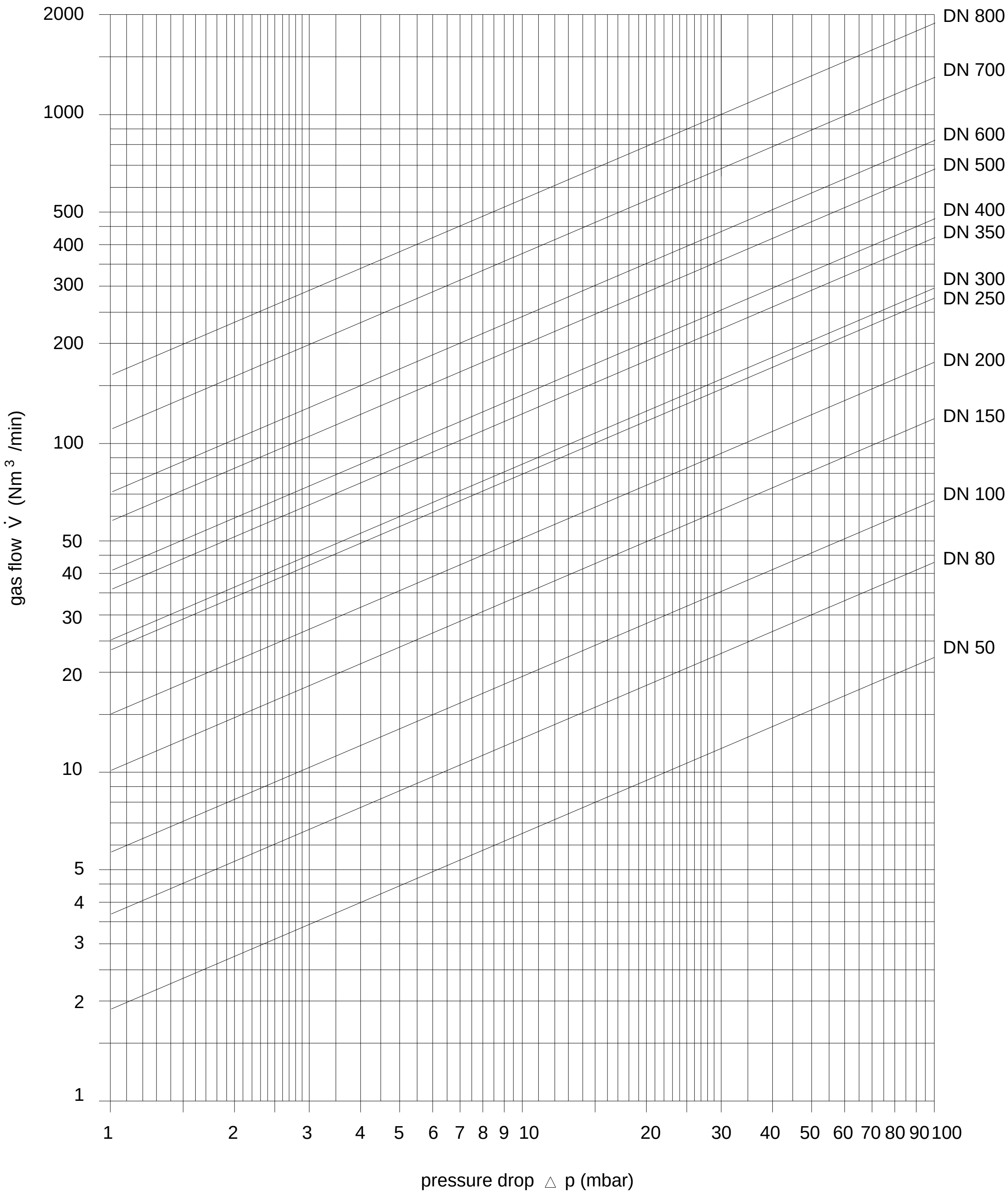
| | |
|---|---|
| housing | : cast steel 1.0619 (> DN 350 steel), stainless cast steel 1.4408 (> DN 350 stainless steel mat. no.1.4571) |
| KITO® flame arrester element | : interchangeable |
| KITO® casing | : steel, stainless steel mat. no. 1.4571 |
| KITO® grid | : stainless steel mat. no. 1.4310, 1.4571 |
| weather hood | : stainless steel mat. no. 1.4301, 1.4571 |
| protective screen | : stainless steel mat. no. 1.4301 (*not for DN 50-100*) |
| flange connection | : DIN EN 1092-1 form B1<br>ANSI 150 lbs. RF |

Application

As breather/venting safety device incorporating an explosion proof flame arrester element for installation on top of storage tanks, tank access covers or breather pipes. The breather allows the unimpeded flow of gases out to atmosphere and 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 IIB3 with a maximum experimental safe gap (MESG) ≥ 0.65.

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

$$\dot{V} = \dot{V}_b \cdot \sqrt{\frac{\rho_b}{1.29}} \quad or \quad \dot{V}_b = \dot{V} \cdot \sqrt{\frac{1.29}{\rho_b}}$$




Design subject to change