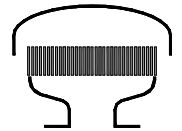


## Type sheet

Deflagration proof ventilation hood

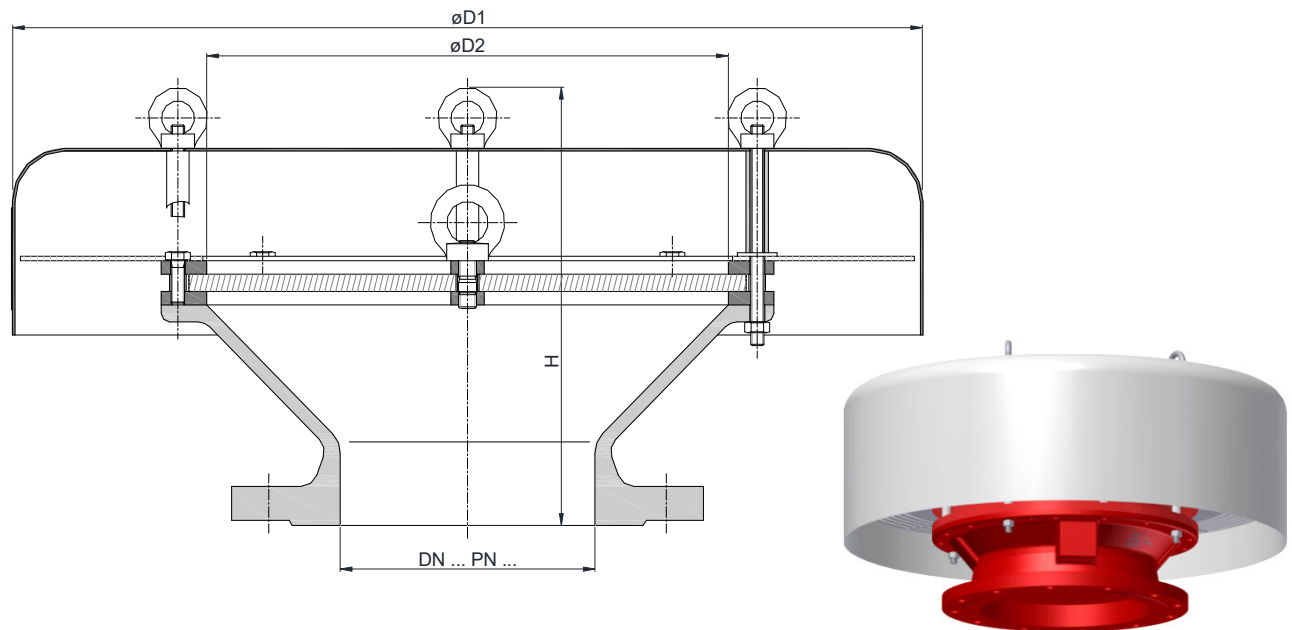
**KITO® VH-...-IIC**



### 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 IIC with a maximum experimental safe gap (MESG) < 0.5 mm and an maximum operating temperature of 60 °C.

### Dimensions (mm)



| DIN       | DN | ASME | D1   | D2   | H   |     | kg  |
|-----------|----|------|------|------|-----|-----|-----|
| 50 PN 16  |    | 2"   | 285  | 110  | 180 |     | 8   |
| 80 PN 16  |    | 3"   | 330  | 150  | 190 |     | 13  |
| 100 PN 16 |    | 4"   | 405  | 185  | 230 |     | 18  |
| 150 PN 16 |    | 6"   | 550  | 315  | 270 |     | 36  |
| 200 PN 10 |    | 8"   |      |      |     |     | 40  |
| 250 PN 10 |    | 10"  | 600  | 395  | 365 |     | 74  |
| 300 PN 10 |    | 12"  |      |      |     | 360 | 73  |
| 350 PN 10 |    | 14"  | 800  | 595  | 415 | 406 | 112 |
| 400 PN 10 |    | 16"  |      |      | 410 | 465 | 127 |
| 450 PN 10 |    | 18"  | 1000 | 700  | -   | 499 |     |
| 500 PN 10 |    | 20"  |      |      | 425 | 495 | 173 |
| 600 PN 10 |    | 24"  | 1200 | 800  | 495 | 568 | 250 |
| 700 PN 10 |    | -    | 1400 | 1000 | 530 | -   | 348 |
| 800 PN 10 |    | -    | 1600 | 1210 | 570 | -   | 457 |

Weight refers to the standard design

### Example for order

**KITO® VH-300-IIC**

(design with flange connection DN 300 PN 10)

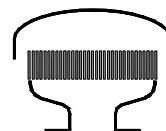
**Type examination certificate to EN ISO 16852 and CE-marking in accordance to ATEX-Directive 2014/34/EU**



## Type sheet

Deflagration proof ventilation hood

**KITO® VH-...-IIC**



### Design

|                                          | standard                           | optionally                                                             |
|------------------------------------------|------------------------------------|------------------------------------------------------------------------|
| housing                                  | cast steel 1.0619 (≥ DN 350 steel) | stainless cast steel 1.4408 (≥ DN 350 stainless steel mat. no. 1.4571) |
| gasket                                   | HD 3822                            | PTFE                                                                   |
| KITO®-flame arrester element             | completely interchangeable         |                                                                        |
| KITO®-casing                             | steel                              | stainless steel mat. no. 1.4571                                        |
| KITO®-grid                               | stainless steel mat. no. 1.4310    | stainless steel mat. no. 1.4571                                        |
| weather hood                             | stainless steel                    |                                                                        |
| protective screen<br>(not for DN 50-100) | stainless steel mat. no. 1.4301    | stainless steel mat. no. 1.4571                                        |
| flange connection                        | EN 1092-1 type B1                  | ASME B16.5 Class 150 RF                                                |

### Performance curves

Flow capacity  $\dot{V}$  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

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

