

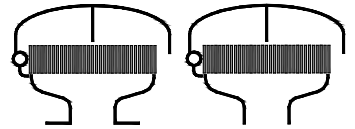


## Type sheet

Deflagration and endurance burning proof ventilation hood

**KITO® BEH-4-IIA-...-K**

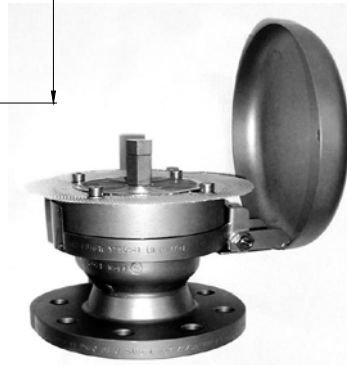
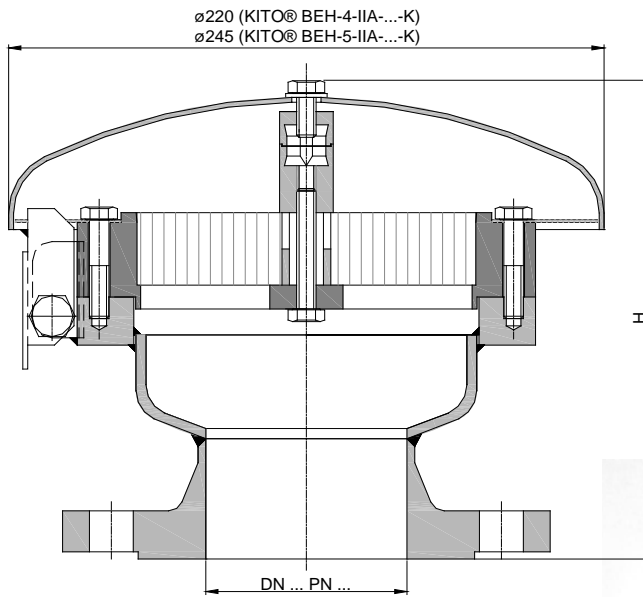
**KITO® BEH-5-IIA-...-K**



### Application

As end of line device for venting connections in tank systems, explosion and endurance burning proof for certain flammable products of explosion group IIA with a maximum experimental safe gap (MESG) > 0.9 mm and an maximum operating temperature of 60 °C. Installation on top of storage tanks, tank access covers or at the end of breather lines. This device is not permitted to be installed in enclosed areas, if it is not ventilated and explosive atmosphere could arise. The end of line device protects against flashback into the tank/pipe. The gases of the storage medium pass unhindered into the atmosphere.

### Dimensions (mm)



| DIN       | DN   |      | BEH-4-... | H   | BEH-5-... | weight (kg) |           |
|-----------|------|------|-----------|-----|-----------|-------------|-----------|
|           | ASME | G    |           |     |           | BEH-4-...   | BEH-5-... |
| 25 PN 40  | 1"   | 1"   | 184       | -   | -         | 8.5         | -         |
| 32 PN 40  | 1 ¼" | 1 ¼" | 184       | -   | -         | 9.0         | -         |
| 40 PN 40  | 1 ½" | 1 ½" | 196       | -   | -         | 9.5         | -         |
| 50 PN 16  | 2"   | 2"   | 189       | 199 | -         | 10.0        | 12.0      |
| 65 PN 16  | 2 ½" | 2 ½" | 189       | 200 | -         | 10.0        | 14.0      |
| 80 PN 16  | 3"   | 3"   | 189       | 200 | -         | 11.0        | 15.0      |
| 100 PN 16 | 4"   | 4"   | -         | 200 | -         | -           | 15.5      |

Weight refers to the standard design

### Example to order

**KITO® BEH-4-IIA-25-K**

(design with flange connection DN 25 PN 40)

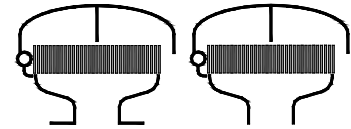
**Type examination certificate to EN ISO 16852 and CE-marking in accordance to ATEX-Directive 2014/34/EU**

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### Design

|                              | standard   | optionally                                      |
|------------------------------|--|---|
| housing                      | steel  | stainless steel mat. no. 1.4571                 |
| KITO®-flame arrester element | completely interchangeable   |   |
| KITO®-casing / KITO®-grid    | stainless steel mat. no. 1.4308 / 1.4310   | stainless steel mat. no. 1.4408 / 1.4571        |
| weather hood                 | stainless steel mat. no. 1.4571, hood can fold automatically as a result of folding mechanism and fusing element |   |
| protective screen            | PA6  |   |
| connection                   | flange EN 1092-1 type B1   | flange ASME B16.5 Class 150 RF, threaded format |

### 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

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

