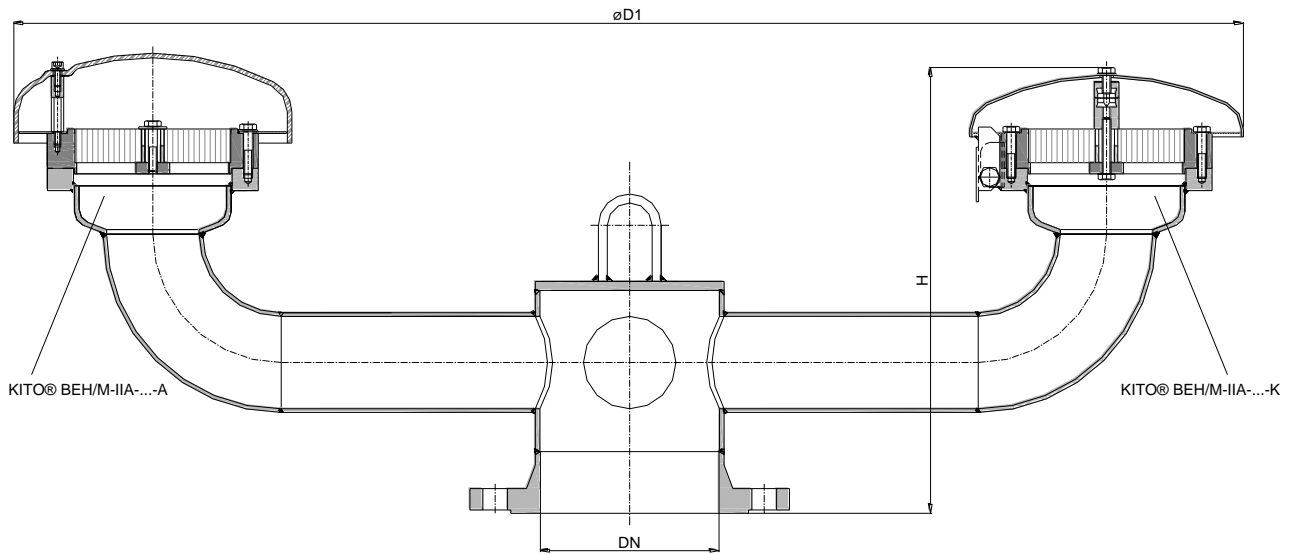
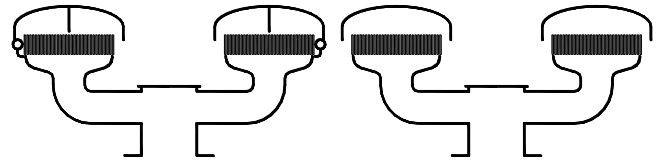
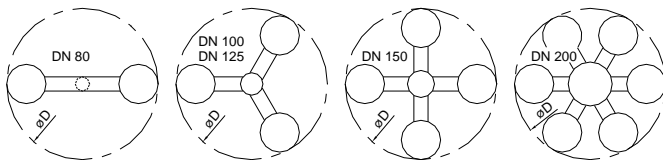


**Hooded Tank Vent**  
**KITO® BEH/M-IIA-...-K**  
**KITO® BEH/M-IIA-...-A**



**arrangement of the KITO® flame arrester elements**



Example to order:

**KITO® BEH/M-IIA-80-K**

(design with weather hood from 1.4571 and flange connection DN 80)

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

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

DN	ANSI	D1	H	number of KITO® flame arrester elements	kg*
80 PN 16	3"	940	390	2	28
100 PN 16	4"	1054	400	3	45
125 PN 16	5"	1054	400	3	
150 PN 16	6"	1234	400	4	59
200 PN 10	8"	1634	415	6	99

Dimensions in mm

\* weight refers to the standard design

Design subject to change

performance curves : B 0.5.8 N

Standard design

housing : steel, stainless steel mat. no. 1.4571

KITO® flame arrester element : completely interchangeable

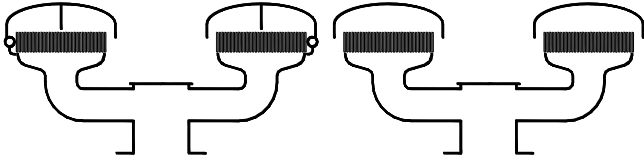
KITO® casing / grid : stainless steel mat. no. 1.4308 / 1.4310, 1.4408 / 1.4571

weather hood :  
 KITO® BEH/M-IIA-...-K : stainless steel mat. no. 1.4571, hood can fold automatically as a result of folding mechanism and fusing element  
 KITO® BEH/M-IIA-...-A : PMMA

protective screen : PA6  
 flange connection : DIN EN 1092-1 form B1  
 ANSI 150 lbs. RF

Application

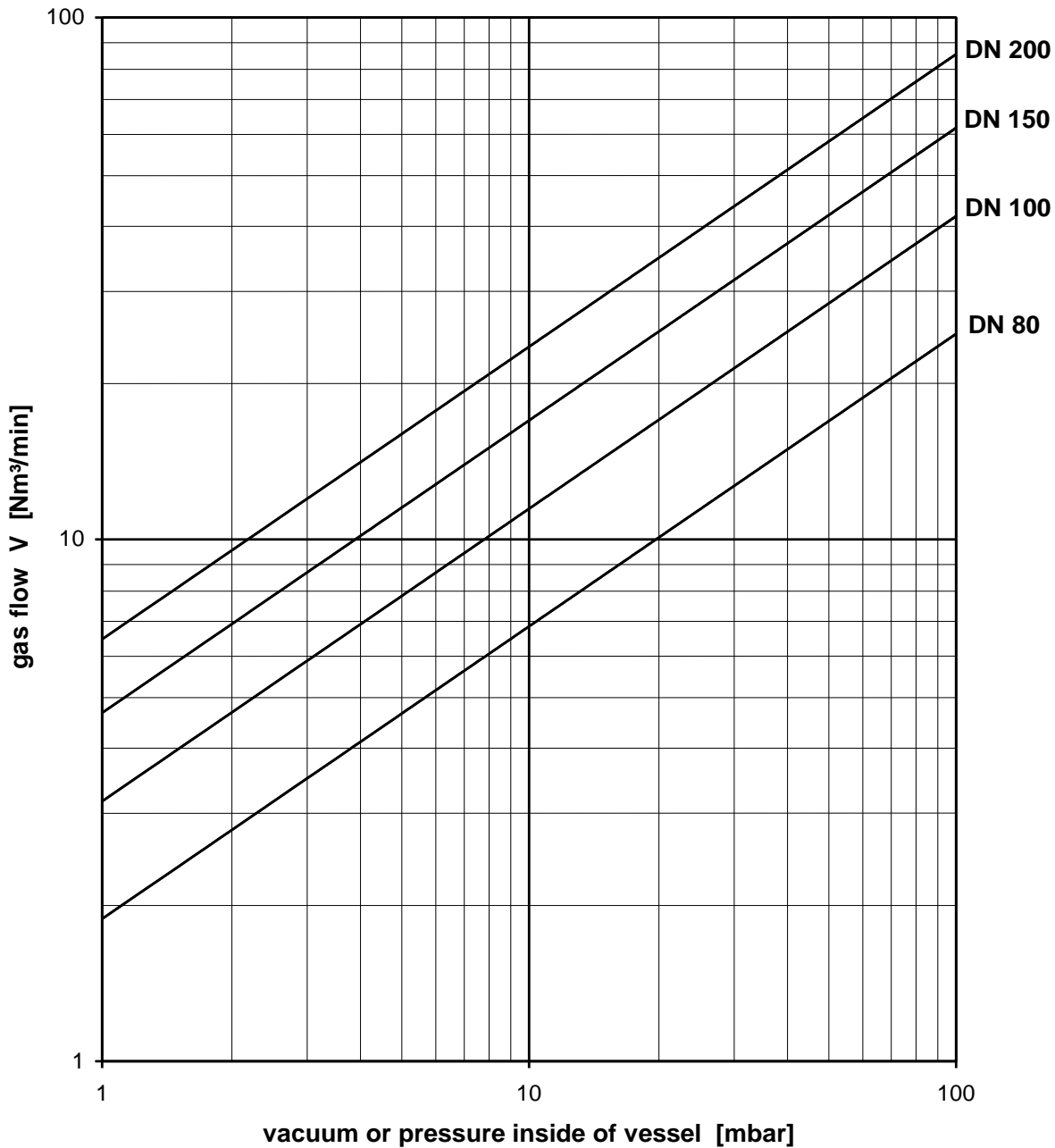
As breather/venting safety device incorporating an explosion and endurance burning flame arrester for installation on storage tanks containing particular categories of inflammable liquids providing for reliable and safe operation whilst ensuring protection against any possible flashback. Approved for all materials of the explosion group IIA with a maximum experimental safe gap (MESG) > 0.9.



**Hooded Tank Vent**  
**KITO® BEH/M-IIA-...-K**  
**KITO® BEH/M-IIA-...-A**  
**B 5.8 N**

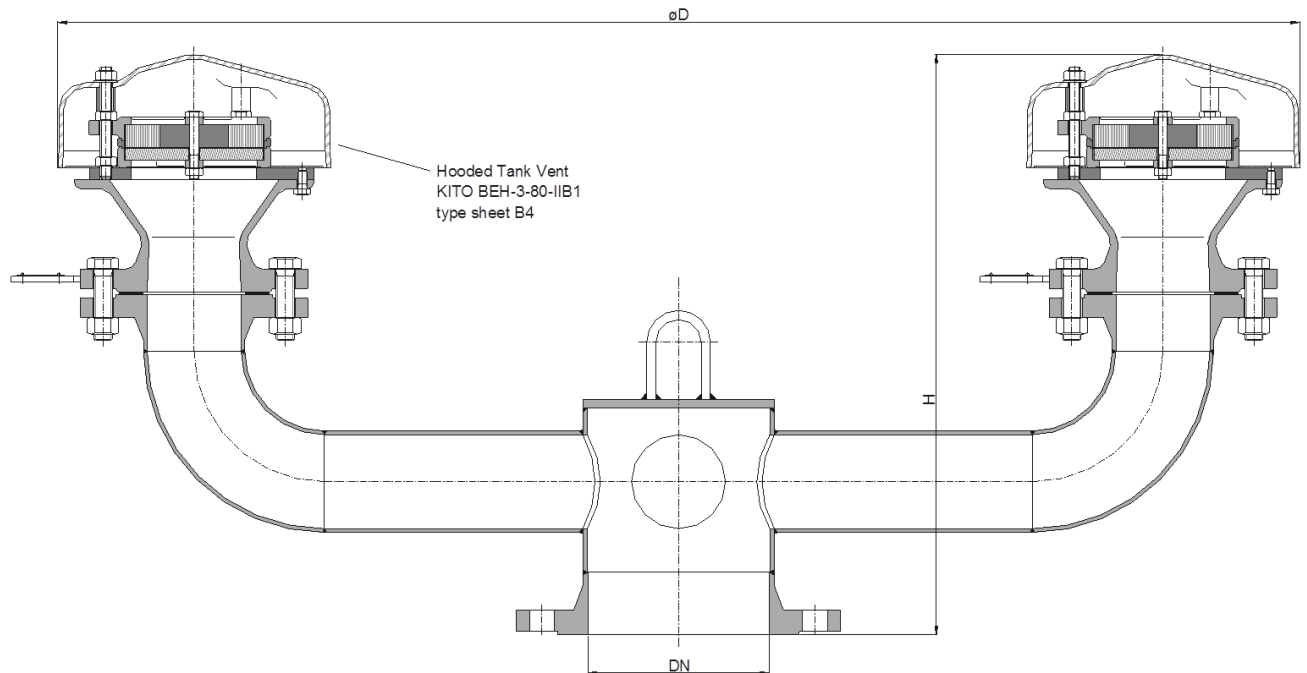
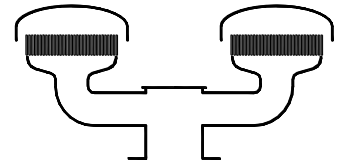
The flow capacity  $\dot{V}$  refers to a density of air with  $\rho = 1.29 \text{ kg/m}^3$  at  $T = 273 \text{ K}$  and a pressure of  $p = 1.013 \text{ mbar}$   
 The flow capacity for gases with different densities can be calculated sufficiently accurate by the following approximation equation:

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

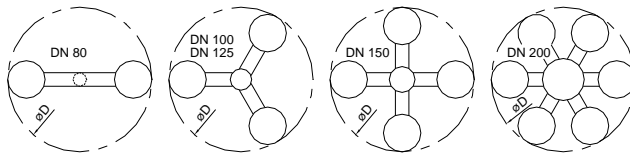


Design subject to change

# Hooded Tank Vent KITO® BEH/M-IIB1-...



## Arrangement of the KITO® flame arrester elements



**With additional examination and approval, applicable also for alcohols (ethanol, methanol...)**

Type examination certificate to DIN EN ISO 16852 and

CE -designation in accordance to ATEX-Guideline 94/9/EC for KITO® BEH-3-80-IIB1

DN	ANSI	D	H	number of KITO® BEH-3-80-IIB1	kg*
80 PN 16	3"	855	505	2	28
100 PN 16	4"	950	515	3	41
125 PN 16	5"	950	515	3	
150 PN 16	6"	1110	515	4	59
200 PN 10	8"	1470	530	6	99

Dimensions in mm

\* weight refers to the standard design

Design subject to change

performance curves: ...

### Standard design

housing : steel, stainless steel mat. no. 1.4571  
flange connection : DIN EN 1092-1 form B1, ANSI 150 lbs. RF

### Design KITO® BEH-3-80-IIB1

housing : 1.0619, mat. no. 1.4408  
KITO® flame arrester element : completely interchangeable  
KITO® casing : mat. no. 1.4408  
KITO® grid : mat. no. 1.4310 / 1.4571  
weather hood : PMMA  
protective screen : PA6  
flange connection : DIN EN 1092-1 form B1, ANSI 150 lbs. RF

### Application

As an end-of-line flame arrester element to protect vent openings of storage tanks. Explosion and endurance burning proof for all inflammable liquids and vapors of explosion group IIB1 and also for alcohols. This device is not permitted to be installed in enclosed areas.

Installation on top of storage tanks, tank access covers or breather pipes. The flame arrester protects a tank against flashbacks but allows the flow of gases out into the atmosphere and air into the tank.