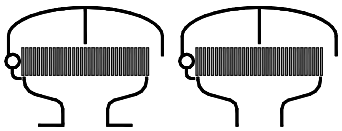
KITO Armaturen GmbH

Type sheet

Deflagration and endurance burning proof ventilation hood

KITO® BEH-4-IIB1-...-K

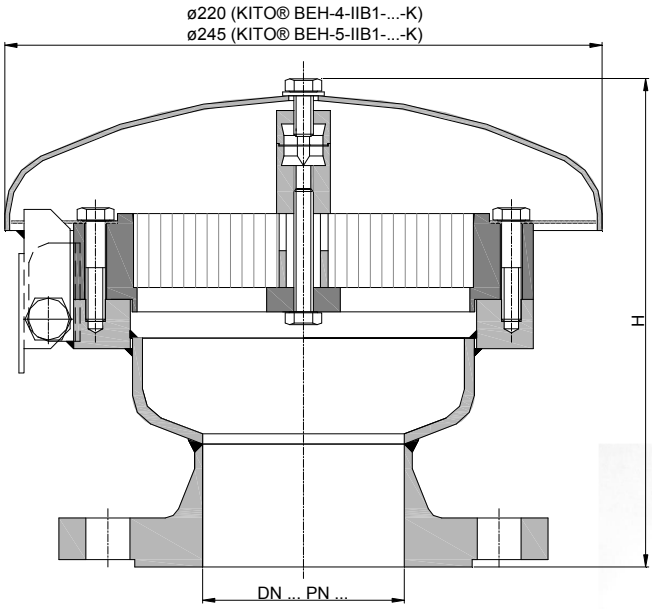
KITO® BEH-5-IIB1-...-K

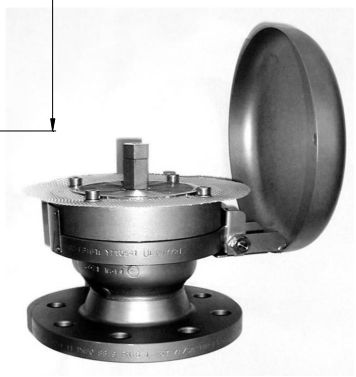


Application

Deflagration and endurance-proof end of line for flammable media of explosion group IIA with a maximum experimental safe gap (MESG) > 0.9 mm for a maximum operating temperature of 60 °C. It can also be used as deflagration- and endurance-proof end of line device with specific operating conditions for methanol, ethanol (IIB1) and 2-propanol on underground and insulated tank systems. The minimum volume flows during outflow must be observed. Can also be used as a device against atmospheric deflagration of gas-air and vapor-air mixtures of explosion group IIB1 with a maximum experimental safe gap (MESG) ≥ 0.85 mm.

Dimensions (mm)





DN			H		weight (kg)	
DIN	ASME	G	BEH-4-…	BEH-5-…	BEH-4-…	BEH-5-…
25 PN 40	1”	1”	184	197	8.5	10.5
32 PN 40	1 ¼“	1 ¼“	184	197	9.0	11.0
40 PN 40	1 ½“	1 ½“	196	199	9.5	11.5
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-IIB1-25-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

KITO Armaturen GmbH
Grotrian-Steinweg-Str. 1c
D-38112 Braunschweig
VAT Reg.No DE812887561
+49 (0) 531 23000-0
+49 (0) 531 23000-10
www.kito.de
info@kito.de

B 1.2 N
Date: 08-2018
Created: Abt. Doku KITO
Design subject to change

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Deflagration and endurance burning proof ventilation hood

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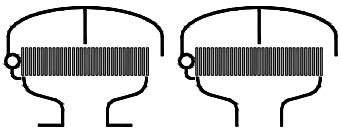
KITO® BEH-5-IIB1-...-K



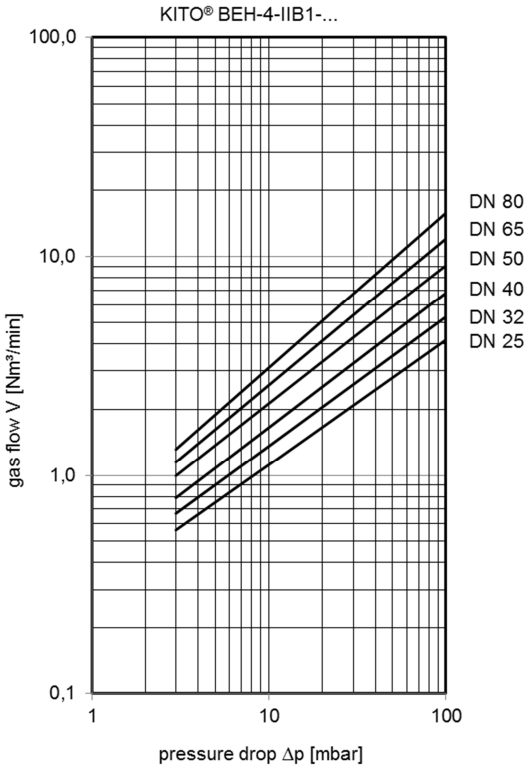
Design

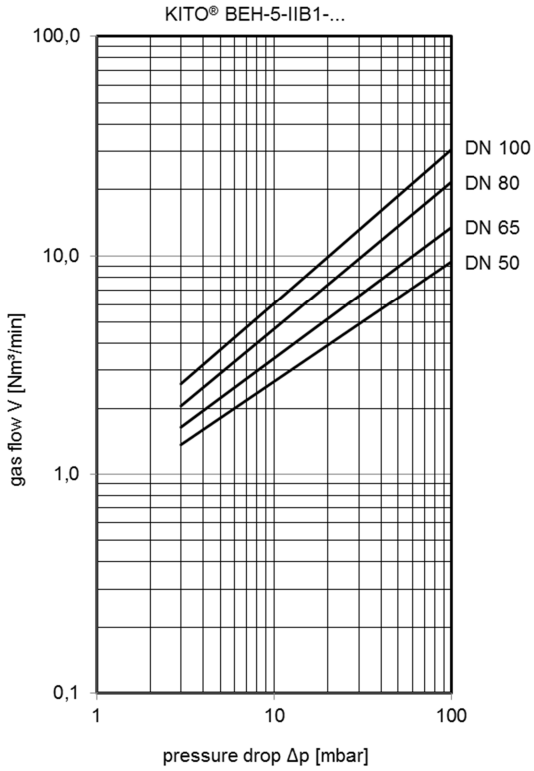
	standard	optionally
housing	steel	stainless steel mat. no. 1.4571
KITO®-flame arrester element	completely interchangeable	
KITO®-casing / KITO®-grid	stainless steel mat. no. 1.4308 / 1.4310	stainless steel mat. no. 1.4408 / 1.4571
weather hood	stainless steel mat. no. 1.4571, hood can fold automatically 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 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

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





minimum volume flows V_c during outflow (in m^3/h^{-1})

substance	KITO® BEH-4-IIB1-...	KITO® BEH-5-IIB1-...
Methanol	5,0 V_c ≙ 33,00 m^3/h^{-1}	5,0 V_c ≙ 47,40 m^3/h^{-1}
Ethanol	4,0 V_c ≙ 26,40 m^3/h^{-1}	4,0 V_c ≙ 37,92 m^3/h^{-1}
2-Propanol	4,0 V_c ≙ 26,40 m^3/h^{-1}	4,0 V_c ≙ 37,92 m^3/h^{-1}

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