KITO Armaturen GmbH

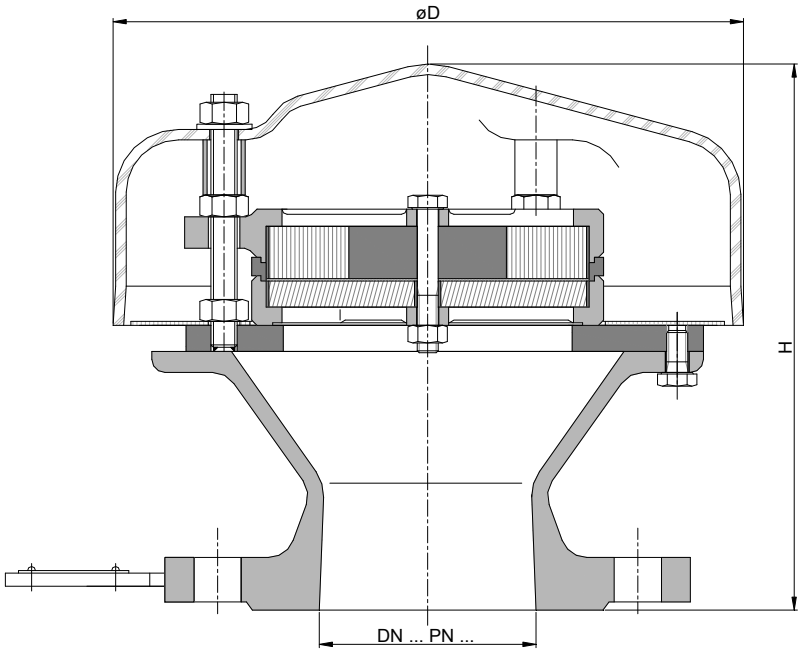
Type sheet
Deflagration and endurance burning proof ventilation hood
KITO® BEH-3-...-IIB1

Application

As an end-of-line flame arrester 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 with a maximum experimental safe gap (MESG) ≥ 0.85 mm and an maximum operating temperature of 60 °C. This device is not permitted to be installed in enclosed areas. Installation on top of storage tanks, tank access covers or breather pipelines. The flame arrester protects a tank against flashbacks but allows the flow of gases out into the atmosphere and air into the tank.

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

Dimensions (mm)



DN		D	H	kg
DIN	ASME			
50 PN 16	**2“**	240	200	9
65 PN 16	**2 ½“**		209	
80 PN 16	**3“**			12

Weight refers to the standard design

Example for order

KITO® BEH-3-50-IIB1
(design with flange connection DN 50 PN 16)

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 4 N
Date: 01-2019
Created: Abt. Doku KITO
Design subject to change

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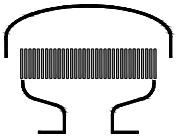


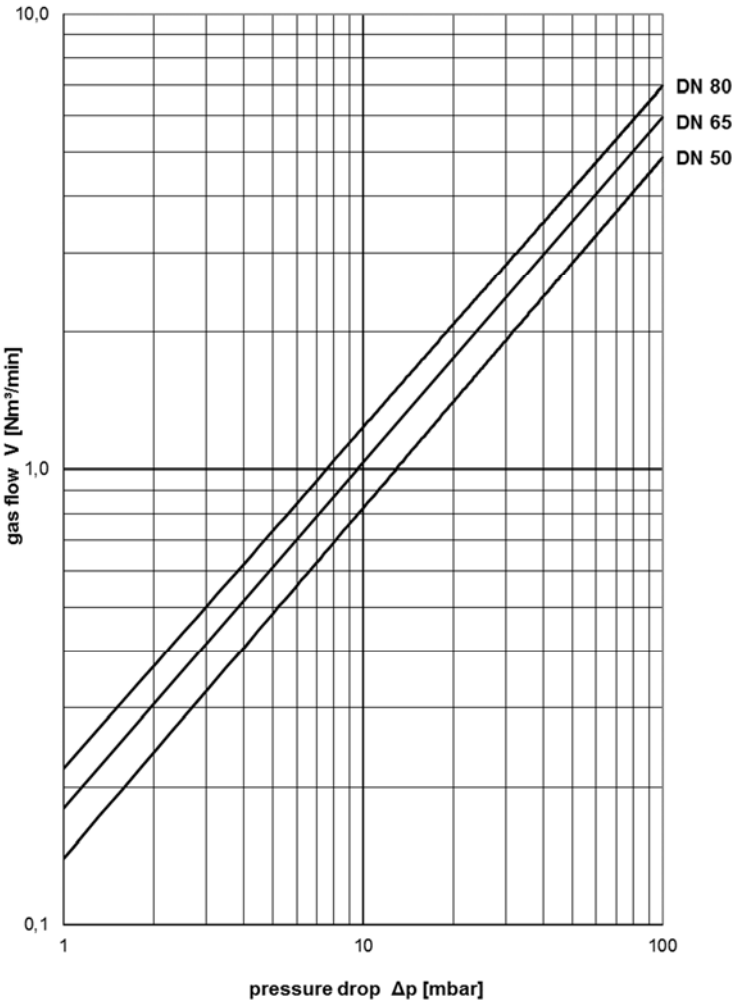
Design

	standard	optionally
housing	cast steel 1.0619	stainless cast steel 1.4408
KITO®-flame arrester element	completely interchangeable	
KITO®-casing / KITO®-grid	stainless steel mat. no. 1.4408 / 1.4310	stainless steel mat. no. 1.4408 / 1.4571
weather hood	PMMA	
protective screen	PA6	
flange connection	EN 1092-1 type B1	ASME B16.5 Class 150 RF

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

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



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