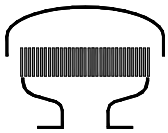
KITO Armaturen GmbH

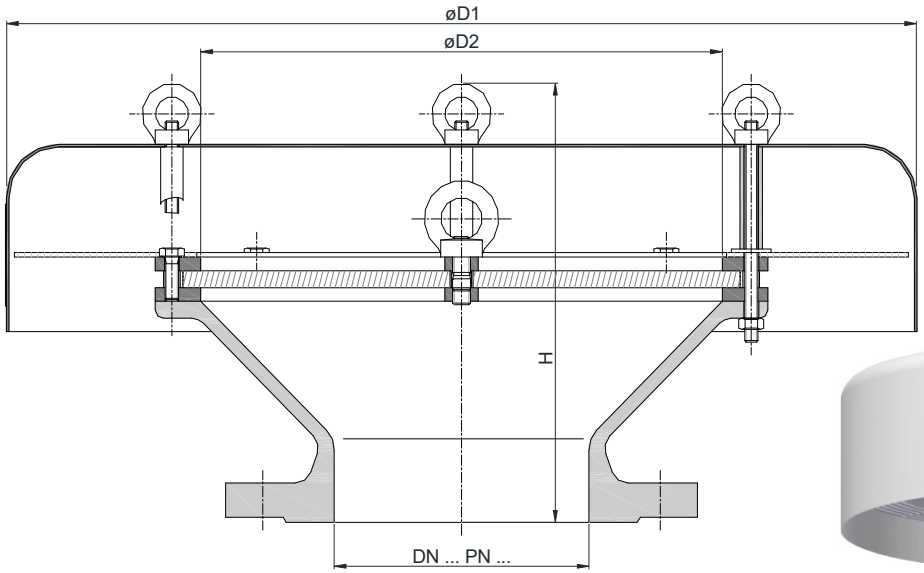
Type sheet
Deflagration proof ventilation hood
KITO® VH-...-IIB3

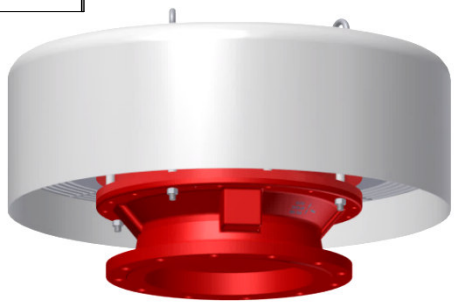


Application

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 IIB3 with a maximum experimental safe gap (MESG) ≥ 0.65 mm and an maximum operating temperature of 60 °C .

Dimensions (mm)





DN DIN	DN ASME	D1	D2	H		kg
50 PN 16	2“	285	110	170		7.3
80 PN 16	3“	330	150	180		11
100 PN 16	4“	405	185	220		15
150 PN 16	6“	550	315	260		29.9
200 PN 10	8“					31.5
250 PN 10	10“	600	395	355		62.5
300 PN 10	12“			350	396	62
350 PN 10	14“	800	595	405	464	88
400 PN 10	16“			400	455	103
450 PN 10	18”	1000	700	-	489	
500 PN 10	20“			415	485	130
600 PN 10	24“	1200	800	485	558	192
700 PN 10	-	1400	1000	520	-	265
800 PN 10	-	1600	1210	560	-	345

Weight refers to the standard design

Example for order

KITO® VH-300-IIB3
(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

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B 6 N
Date: 07-2022
Created: Abt. Doku KITO
Design subject to change

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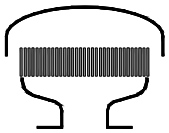


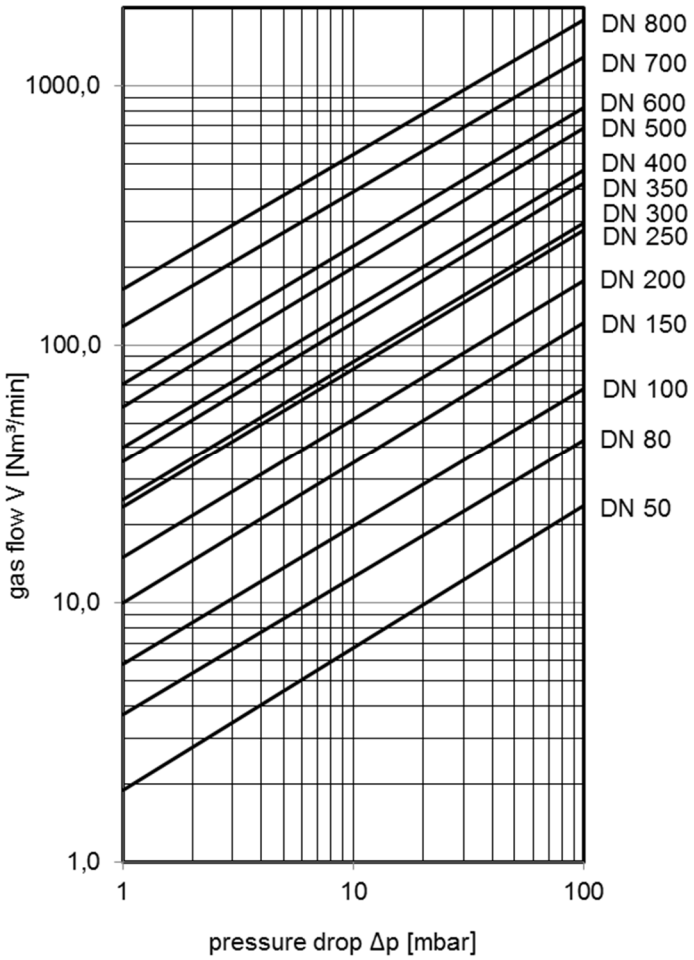
Design

	standard	optionally
housing	cast steel 1.0619 (≥ DN 350 steel)	stainless cast steel 1.4408 (≥ DN 350 stainless steel mat. no. 1.4571)
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 *(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 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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