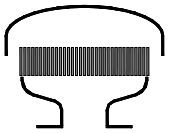
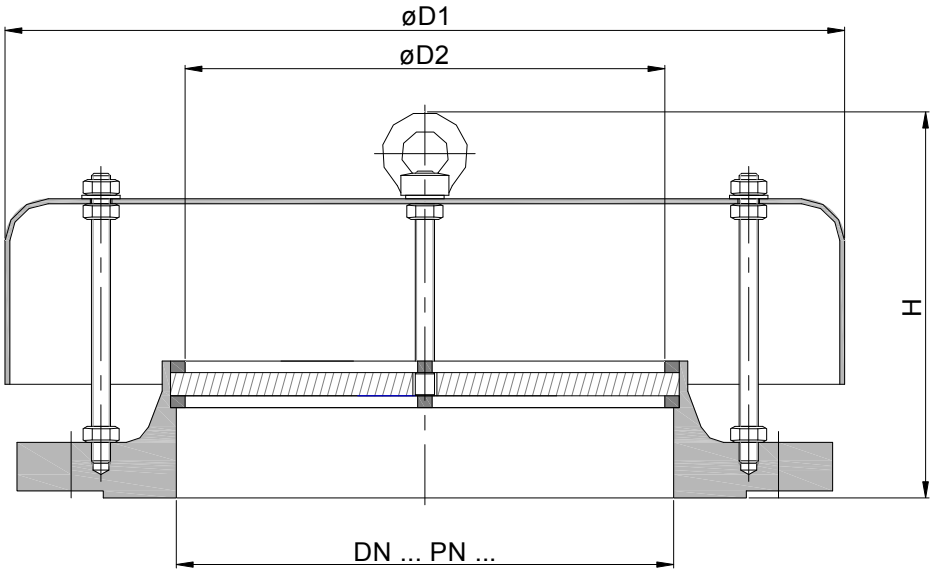
Deflagration proof ventilation hood
KITO® VND-…-IIB3





Example to order:

KITO® VND-50-IIB3
(design with flange connection DN 50 PN 16)

Type examination certificate to EN ISO 16852

CE -designation in accordance to ATEX-Directive 2014/34/EU

DN						
DIN	ANSI	D1	D2	H (DIN)	H (ANSI)	kg*
50 PN 16	2“	180	46	121	142	
65 PN 16	2 ½”	220	62	116	125	
80 PN 16	3“	260	74	171	190	
100 PN 16	4“	306	100	192	216	
125 PN 16	5”	380	125	210	244	
150 PN 16	6“	380	152	210	244	
200 PN 10	8“	350	200	217	256	
250 PN 10	10“	465	253	223	256	
300 PN 10	12“	550	305	223	268	

Dimensions in mm

* weight refers to the standard design

Design subject to change

performance curves: …

Standard design

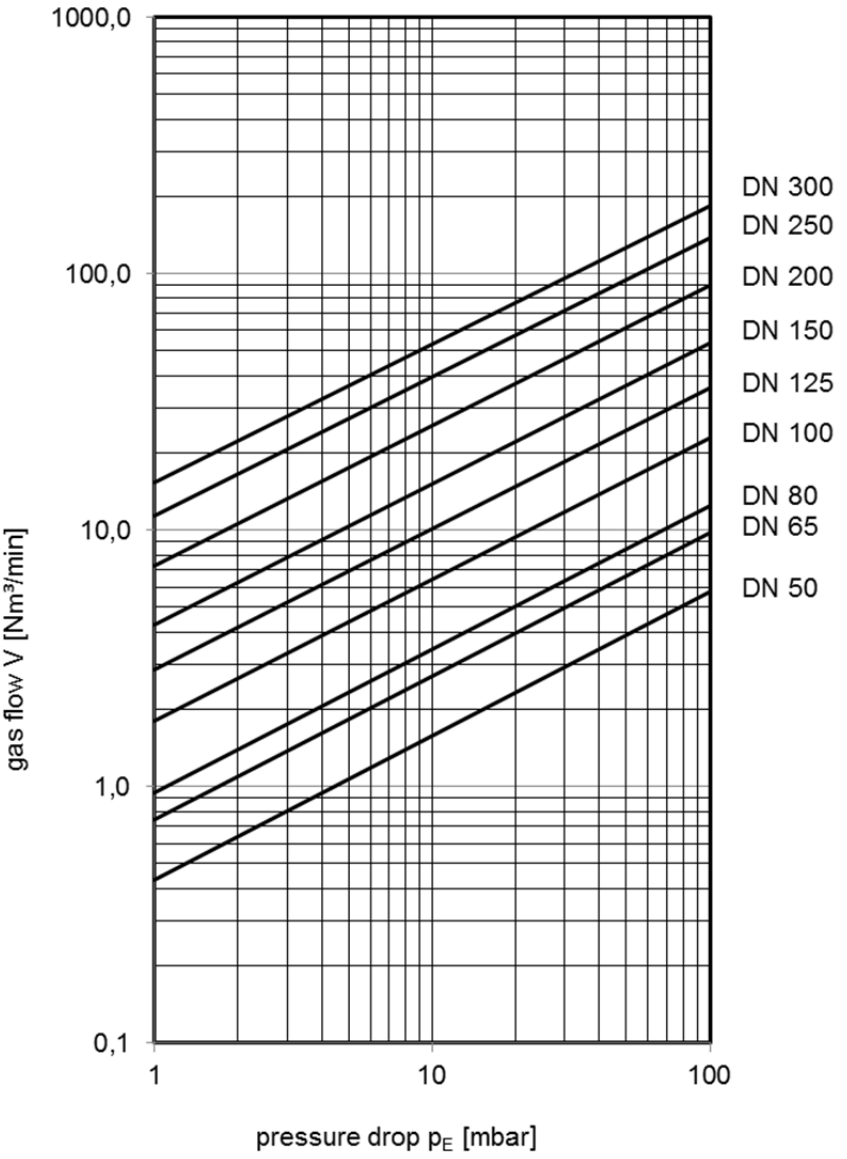
housing : steel, stainless steel mat. no.1.4571
KITO® flame arrester element : not interchangeable
KITO® casing : steel, stainless steel mat. no. 1.4571
KITO® grid : stainless steel mat. no. 1.4310, 1.4571
weather hood : stainless steel mat. no. 1.4301, 1.4571
bolts/nuts : galvanized steel, SS
flange connection : EN 1092-1 form B1
ANSI 150 lbs. RF

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.

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

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



Design subject to change