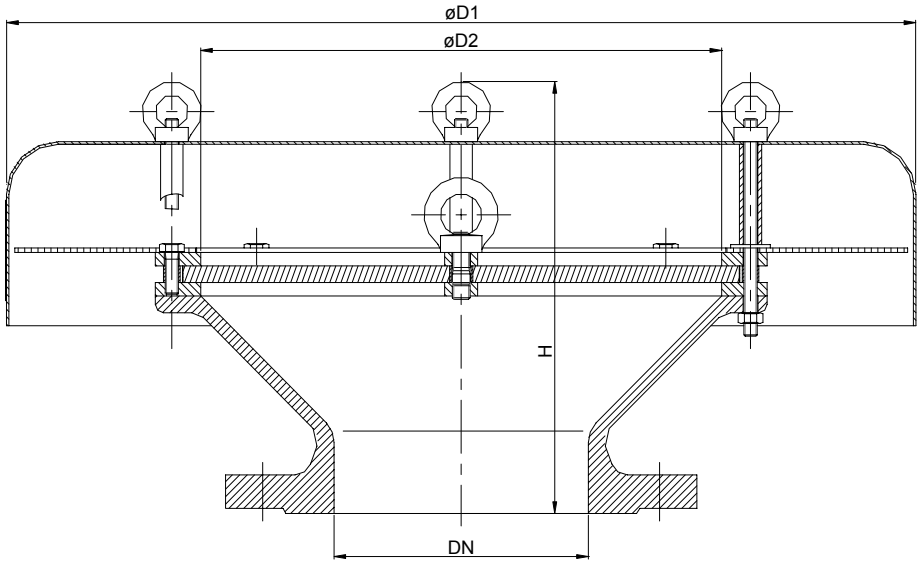
Hooded Tank Vent KITO VH-...-IIB3

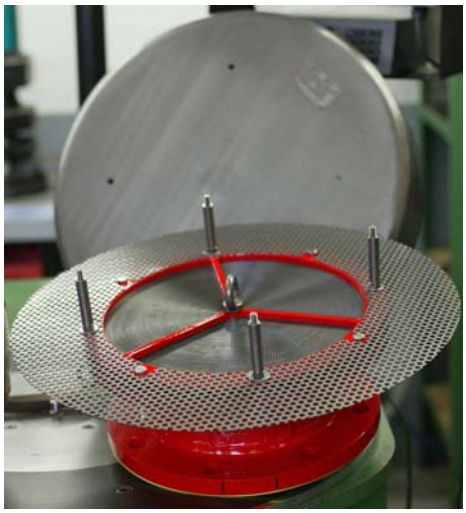
(with KITO flame arrester element, vertical connection)



Type examination certificate in accordance to ATEX 100 a and EN 12874

CE - marking available

DN	ANSI	D1	D2	H	kg
50	2“	200	100	170	7,3
80	3“	240	150	180	11
100	4“	295	200	220	15,5
150	6“	550	300	260	29,9
200	8“				33,3
250	10“	600	400	355	63,2
300	12“			350	62
350	14“	800	600	405	88
400	16“			400	103
500	20“	1000	700	415	130
600	24“	1200	800	485	192
700	28“	1400	1000	520	265
800	32“	1600	1200	560	345



Dimensions in mm

Example for orders :
KITO VH-300-IIB3 (design DN 300)

Design subject to change

Performance curves : B 0.6 N

Standard design

housing	: cast steel 1.0619 (from DN 300 St 37-2), mat. no. 1.4408 (from DN 300 1.4571)
flame arrester element	: single grid with oblique corrugation gap width 0,9 mm (interchangeable)
casing for grid	: St 37-2, mat. no. 1.4571
grid	: mat. no. 1.4310, 1.4571
weather hood	: mat. no. 1.4301
protective screen	: mat. no. 1.4301 (*not for DN 50-100*)
flange connection	: DIN 2501 PN 10 ANSI 150 lbs.

Application

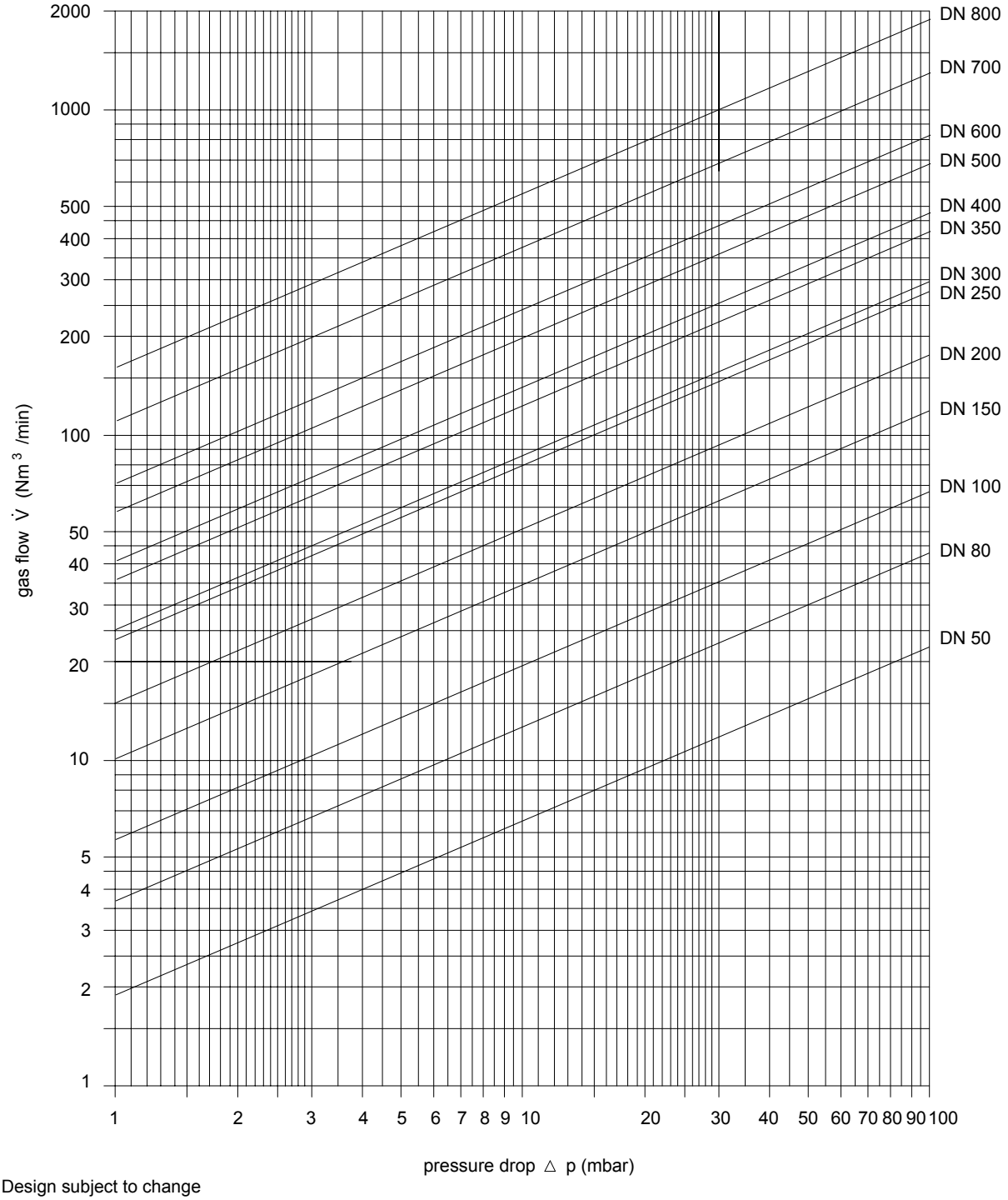
As breather/venting safety device incorporating an explosion proof flame arrester for installation on top of storage tanks, tank access covers or breather pipes. The breather allows for the unimpeded flow of gases out to atmosphere and clean air into the tank/pipe thereby preventing vacuum locks whilst 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.

Other materials, special designs, heating etc upon request.

Performance curves
Hooded Tank Vent KITO VH-…-IIB3
B 6 N

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

$$\dot{V} = \dot{V}_b \cdot \sqrt{\frac{\rho_b}{1{,}29}} \qquad \textit{or} \qquad \dot{V}_b = \dot{V} \cdot \sqrt{\frac{1{,}29}{\rho_b}}$$



Design subject to change