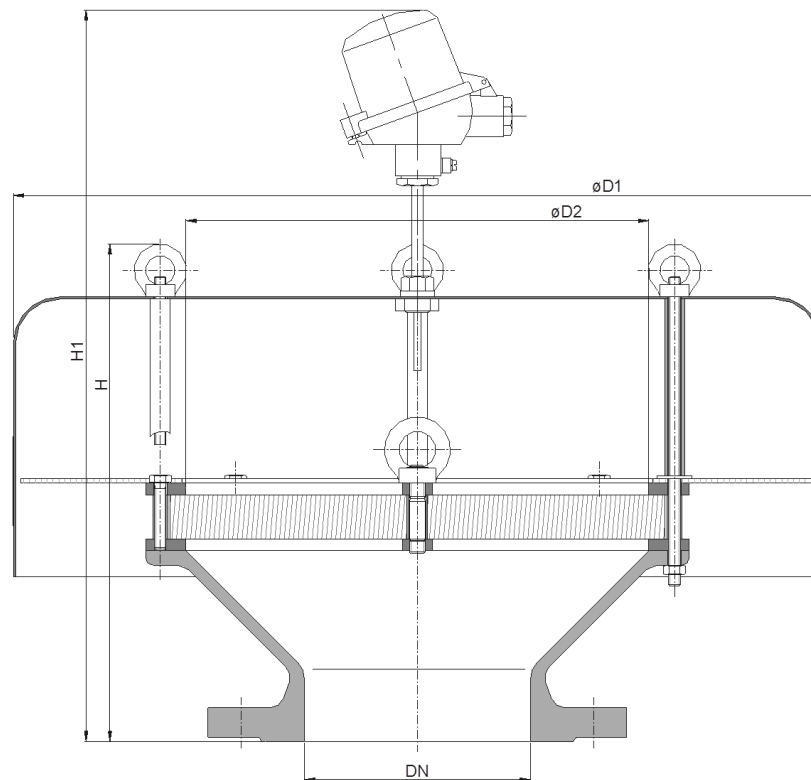
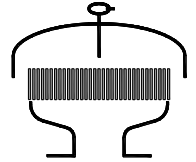


Hooded Tank Vent KITO® VH-...-IIB3-T



Type examination certificate to DIN EN ISO 16852

Example to order :
KITO® VH-300-IIB3-T

C € -designation in accordance to ATEX-Guideline 94/9/EC

(design with flange connection DN 300)

DN	ANSI	D1	D2	H		H1		kg*				
50 PN 16	2"	285	110	214		390		8.5				
80 PN 16	3"	295	150	242		430		14.5				
100 PN 16	4"	350	185	297		454		20				
150 PN 16	6"	600	315	342		500		41				
200 PN 10	8"							45				
250 PN 10	10"	800	395	474		614		84				
300 PN 10	12"							462	509	604	651	81
350 PN 10	14"							507	567	649	709	136
400 PN 10	16"	1000	595	502	558	644	700	152				
450 PN 10	18"			-	611	-	753					
500 PN 10	20"	1200	700	537	607	679	749	188				
600 PN 10	24"			660	734	803	876	253				
700 PN 10	-	1500	1000	691	-	834	-	376				
800 PN 10	-	1700	1210	734	-	876	-	495				

Dimensions in mm

* weights refer to the standard design

Design subject to change

performance curves: B 0.6.1 N

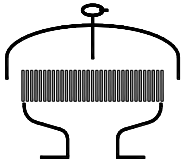
Standard design

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	: 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
protective screen	: stainless steel mat. no. 1.4301
flange connection	: DIN EN 1092-1 form B1 ANSI 150 lbs. RF
temperature sensor	: PT 100

Application

As breather/venting safety device incorporating an explosion and **short-time burn 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.

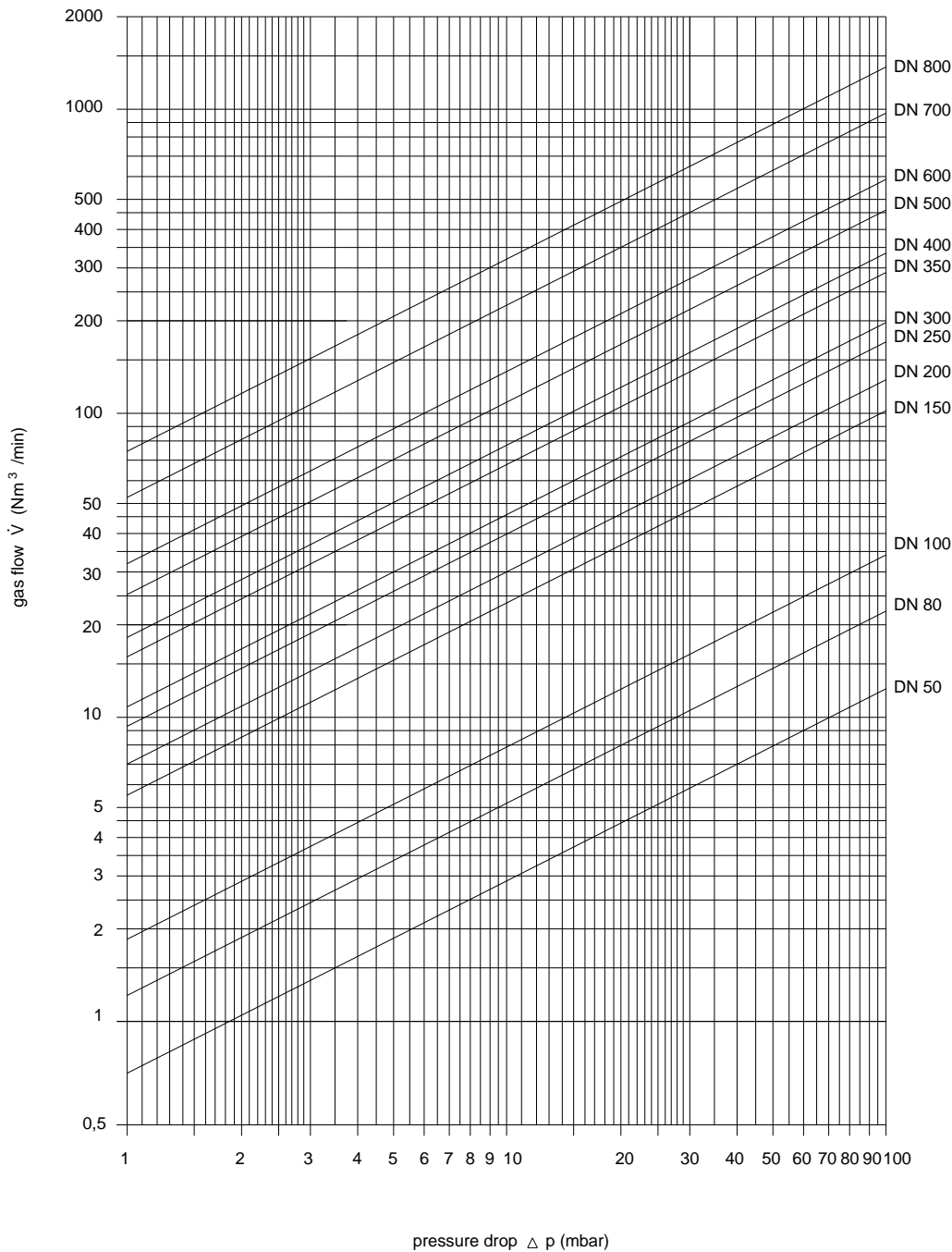
This device is not permitted to be installed in enclosed areas. Approved for all materials of the explosion group IIB3 with a maximum experimental safe gap (MESG) ≥ 0.65. Design with temperature sensor, to detect a "stabilized burning" (burn time 1 minute).



Hooded Tank Vent
KITO® VH-...-IIB3-T
B 6.1 N

Flow capacity V based on air of a density $\rho = 1.29 \text{ kg/m}^3$ at $T = 273 \text{ K}$ and atmospheric pressure $p = 1.013 \text{ mbar}$. For other gases the flow can be approximately calculated by

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



Design subject to change