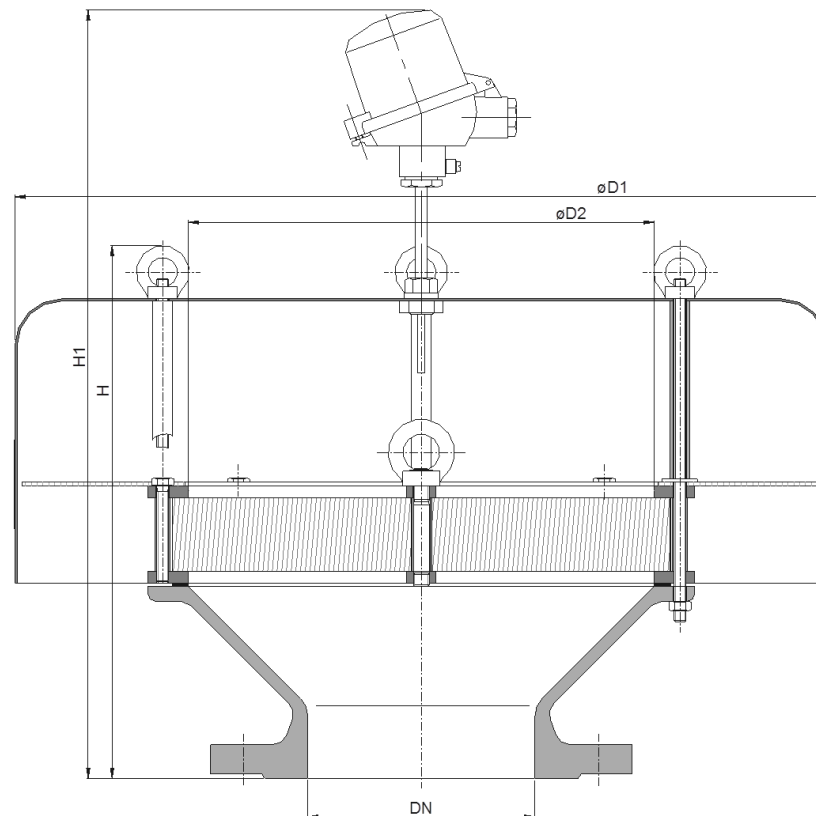
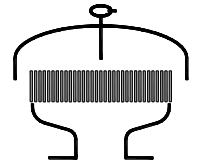


Hooded Tank Vent KITO® VH-...-IIC-T



Type examination certificate to DIN EN ISO 16852

Example to order:
KITO® VH-300-IIC-T

CE -designation in accordance to ATEX-Guideline 94/9/EC

(design with flange connection DN 300 and temperature sensor)

DN	ANSI	D1	D2	H		H1		kg*
50 PN 16	2"	285	110	225		410		9.9
80 PN 16	3"	295	150	254		438		17.7
100 PN 16	4"	350	185	316		474		25.3
150 PN 16	6"	600	315	366		524		54
200 PN 10	8"							57.4
250 PN 10	10"	800	395	487		629		104.7
300 PN 10	12"			482	529	624	671	105.2
350 PN 10	14"	1000	595	527	587	669	729	182.4
400 PN 10	16"			522	578	664	720	197.4
450 PN 10	18"	1200	700	-	631	-	773	
500 PN 10	20"			557	627	699	769	258.8
600 PN 10	24"	1500	1000	680	754	823	896	346.1
700 PN 10	-			711	-	854	-	499.9
800 PN 10	-	1700	1210	754	-	896	-	668.4

Dimensions in mm

* weight refers to the standard design

Design subject to change

performance curves: B 0.7.1 N

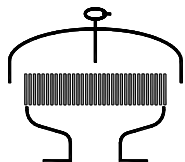
Standard design

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.

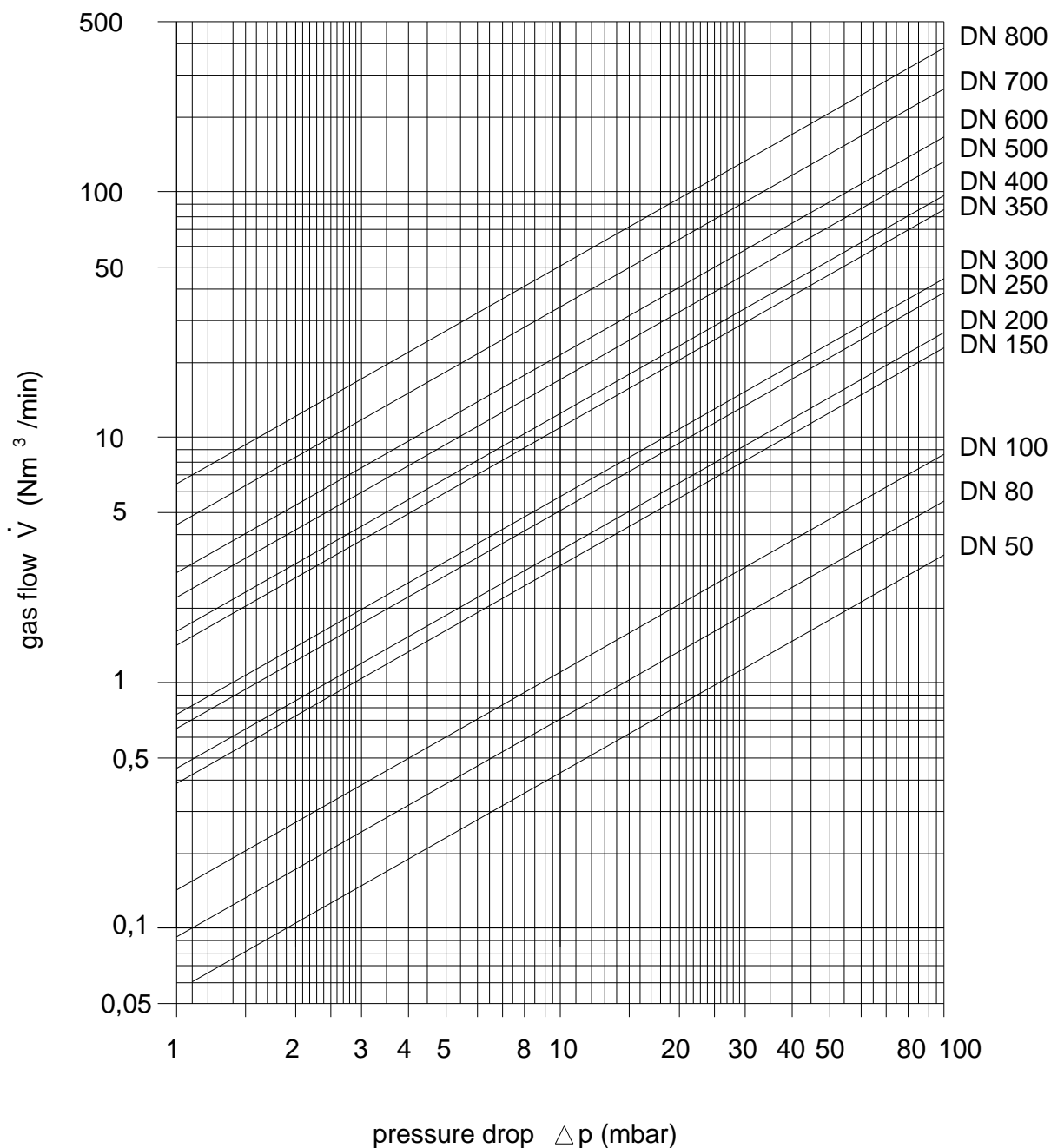
This device is not permitted to be installed in enclosed areas. Approved for all materials of the explosion group IIC with a maximum experimental safe gap (MESG) < 0.5
Design with temperature sensor, to detect a "stabilized burning" (burn time 1 minute).



Hooded Tank Vent
KITO® VH-...-IIC-T
B 7.1 N

Flow capacity \dot{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