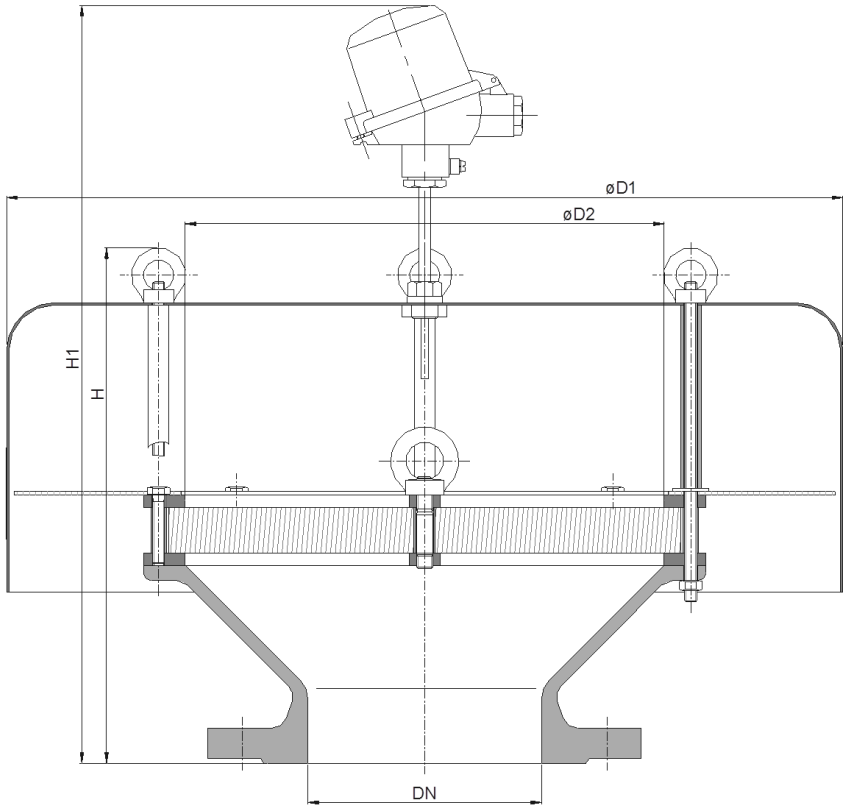
Hooded Tank Vent
KITO® VH-...-IIB3-XT



Type examination certificate to DIN EN ISO 16852

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

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

Dimensions in mm

* weight refers to the standard design

Example to order :
KITO® VH-200-IIB3-XT
(design with flange connection DN 200 and temperature sensor)

Design subject to change

performance curves : B 0.6.2 N

Standard design

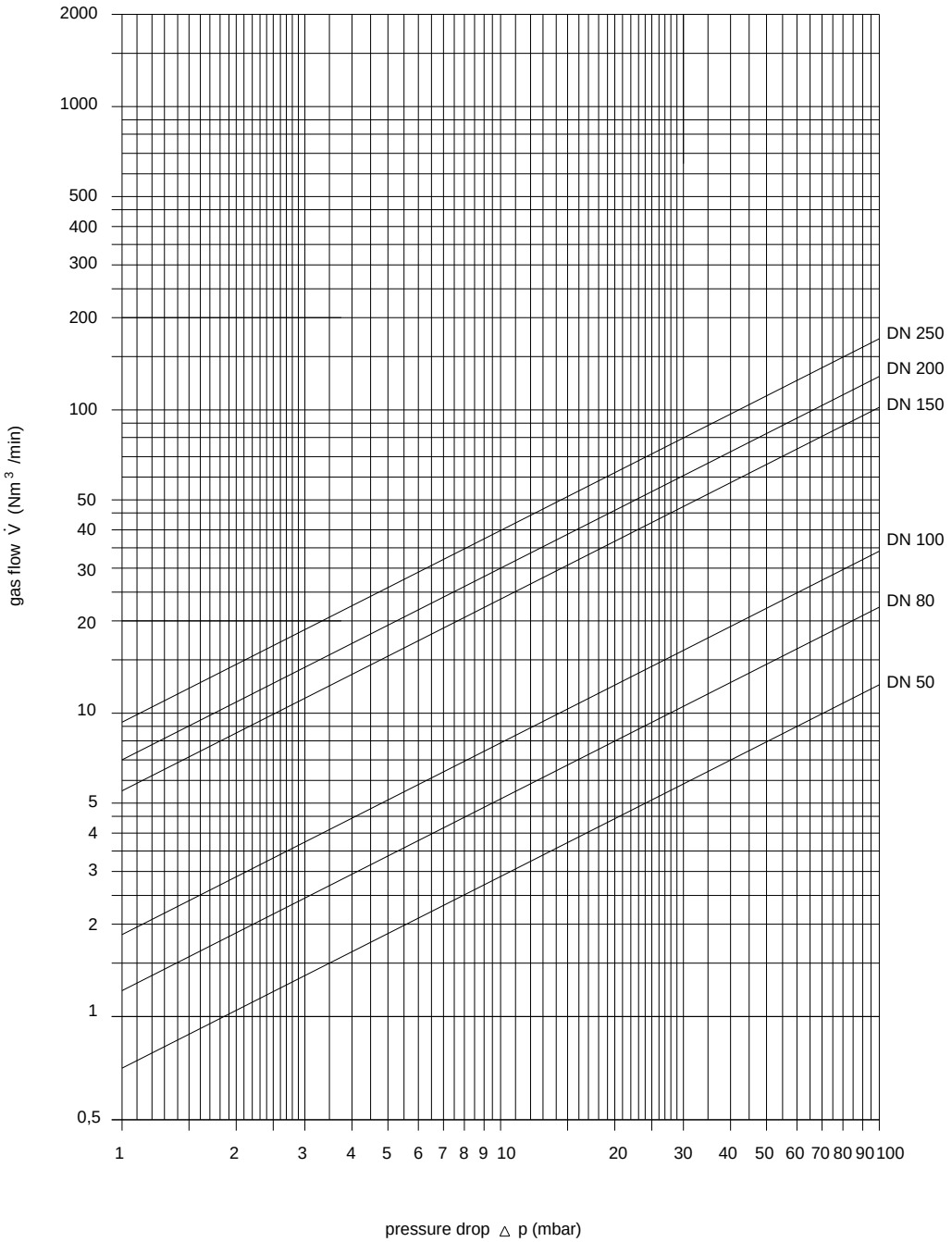
housing	: cast steel 1.0619, stainless cast steel 1.4408
KITO® flame arrester element	: interchangeable
KITO® casing	: steel, stainless steel mat. no. 1.4571
KITO® grid	: stainless steel mat. no. 1.4310, 1.4571
weather hood	: stainless steel mat. no. 1.4301, 1.4571
protective screen	: stainless steel mat. no. 1.4301
flange connection	: DIN EN 1092-1 form B1 ANSI 150 lbs. RF
temperature sensor	: PT 100

Application

End-of-line venting device incorporating an explosion and **short-time burn proof** flame arrester element for installation on storage tanks. Suitable to protect flammable products of explosion group IIB3 up to a maximum operating temperature of 180 °C. This device is not permitted to be installed in enclosed areas.
Installation on top of storage tanks, tank access covers or at the end of breather pipes. It prevent a flashback into the tank and allows the inbreathing and out breathing of the tank.
Design with temperature sensor, to detect a “**stabilized burning**” (**burn time 1 minute**).

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