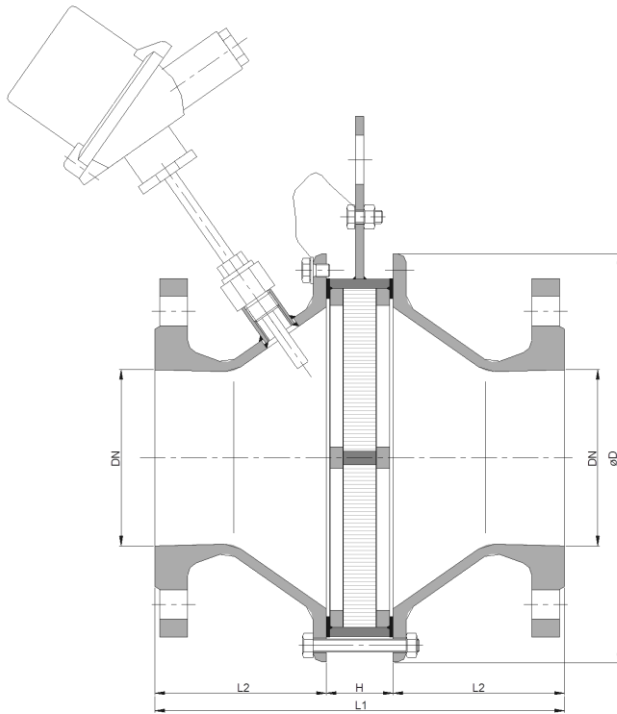
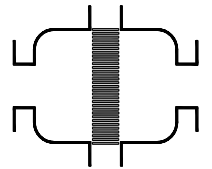


Bi-directional deflagration flame arrester

KITO® INE-I-.../...-1.2

KITO® INE-I-.../...-1.2-T (-TT)



NG	DN	ANSI	D	L1	H	L2	kg*
100	50 PN 16	2"	160	215	35	90	12
150	65 PN 16	2 1/2"	210	239	41	99	20
	80 PN 16	3"					
200	100 PN 16	4"	250	251	41	105	28
250	125 PN 16	5"	305	281	41	120	39
300	150 PN 16	6"	370	305	45	130	50
	200 PN 10	8"					58
400	250 PN 10	10"	480	345	45	150	79
	300 PN 10	12"					323

* weight refers to the standard design

Type examination certificate to
DIN EN ISO 16852

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

Example for orders :

KITO® INE-I-150/80-1.2-T

(design with thermo couple element)

Dimensions in mm

Design subject to change

performance curves: H 0.31 N

Standard design

variant I :

housing : cast steel 1.0619
gasket : HD 3822
KITO® casing : steel
KITO® grid : stainless steel mat. no. 1.4310
bolts/nuts : galvanized steel

variant II :

housing : cast steel 1.0619
gasket : PTFE
KITO® casing : stainless steel mat. no. 1.4571, 1.4581
KITO® grid : stainless steel mat. no. 1.4571
bolts/nuts : galvanized steel

variant III :

housing : stainless cast steel 1.4408
gasket : PTFE
KITO® casing : stainless steel mat. no. 1.4571, 1.4581
KITO® grid : stainless steel mat. no. 1.4571
bolts/nuts : ss

KITO® flame arrester

element : completely interchangeable
temperature sensor : PT 100 (option), connection 3/8"
flange connection : DIN EN 1092-1 Form B1
ANSI 150 lbs. RF

Application

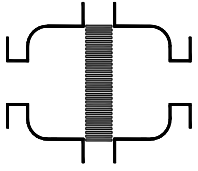
For installation into pipes to the protection of vessels and components against deflagration of flammable liquids and gases. Approved for all substances of explosion group IIA1 (old : I) with a maximum experimental safe gap (MESG) ≥ 1.14 mm.

Bi-directionally working in pipes, whereby an operating pressure of 1.2 bar abs. and an operating temperature of 60°C must not be exceeded.

The distance between a potential ignition source and the flame arrester must not exceed 50 times the inner pipe diameter.

An installation into horizontal and vertical pipes is permissible. To detect a thermal load on the KITO® flame arrester element in operation, a thermocouple can be implemented as an option into the flame arrester body.

Proof against "stabilized burning" and withstand this up to a max. burn time BT = 1.0 min.

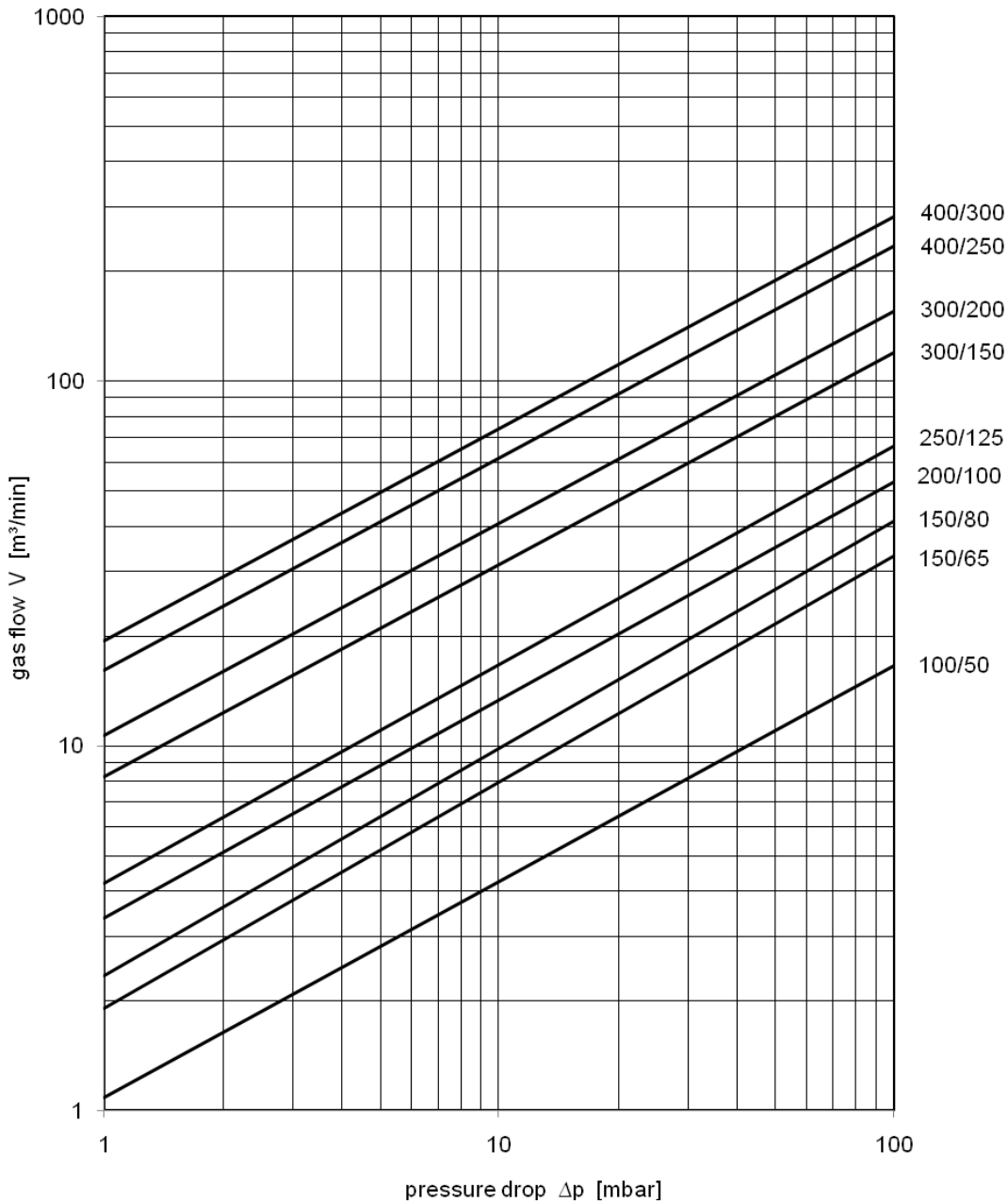


Bi-directional deflagration flame arrester
KITO® INE-I-.../...-1.2
KITO® INE-I-.../...-1.2-T (-TT)
H 31 N

The flow capacity V refers to a density of air with $\rho = 1.29 \text{ kg/m}^3$ at $T = 273 \text{ K}$ and a pressure of $p = 1.013 \text{ mbar}$

The flow capacity for gases with different densities can be calculated sufficiently accurate by the following approximation equation:

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



Design subject to change