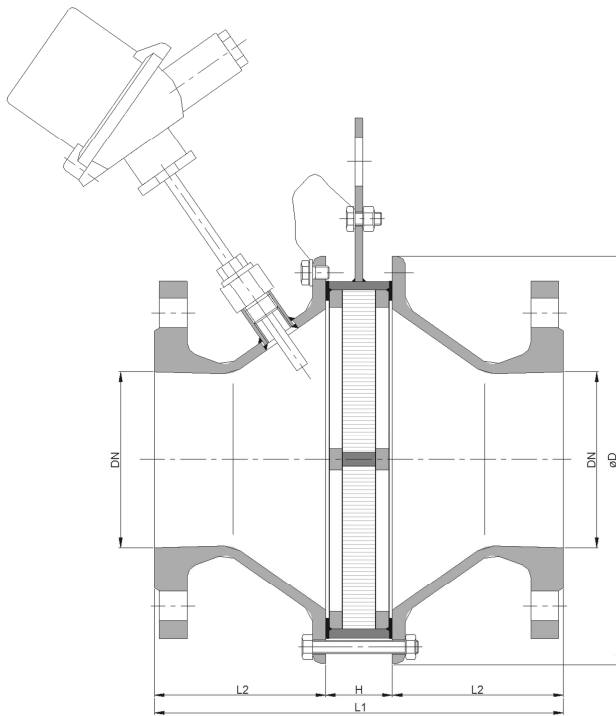
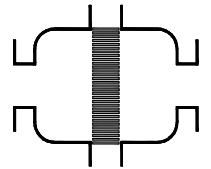


Bi-directional deflagration flame arrester
KITO® INE-I-.../...-1.5
KITO® INE-I-.../...-1.5-T (-TT)



NG	DN	ANSI	D	L1	H	L2	kg*
150	65 PN 16	2 ½"	210	239	39	100	19
	80 PN 16	3"					
200	100 PN 16	4"	268	249	39	105	27
250	125 PN 16	5"	322	279	39	120	36
300	150 PN 16	6"	370	305	45	130	50

**Type examination certificate to
DIN EN ISO 16852**

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

Example for orders :
KITO® INE-I-150/80-1.5-T
(design with thermo couple element)

Dimensions in mm

* weight refers to the variant I

Design subject to change

performance curves: H 0.32 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 :

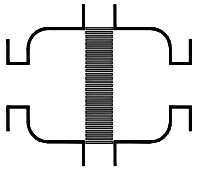
- housing : stainless cast steel 1.4408
- gasket : PTFE
- KITO® casing : stainless steel mat. no. 1.4571, 1.4581
- KITO® grid : stainless steel mat. no. 1.4571
- bolts/nuts : ss

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 1.5 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.

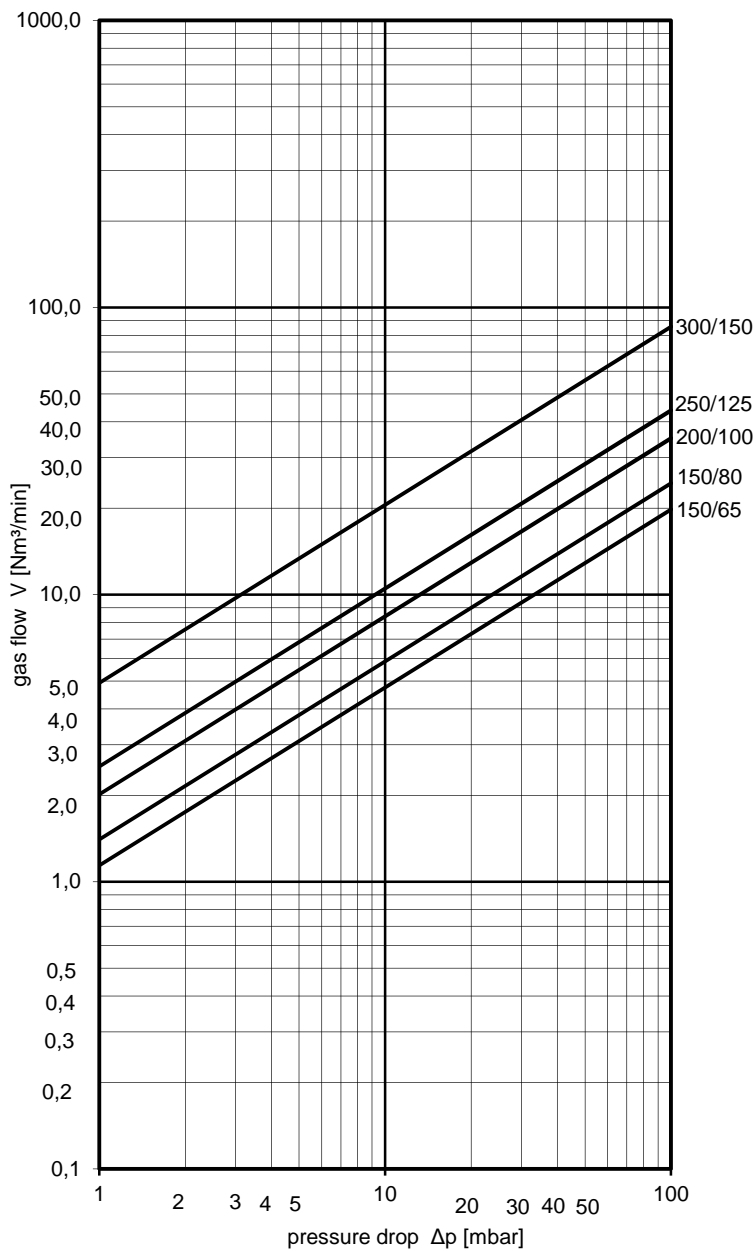


Bi-directional deflagration flame arrester
KITO® INE-I-.../...-1.5
KITO® INE-I-.../...-1.5-T (-TT)
H 32 N

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