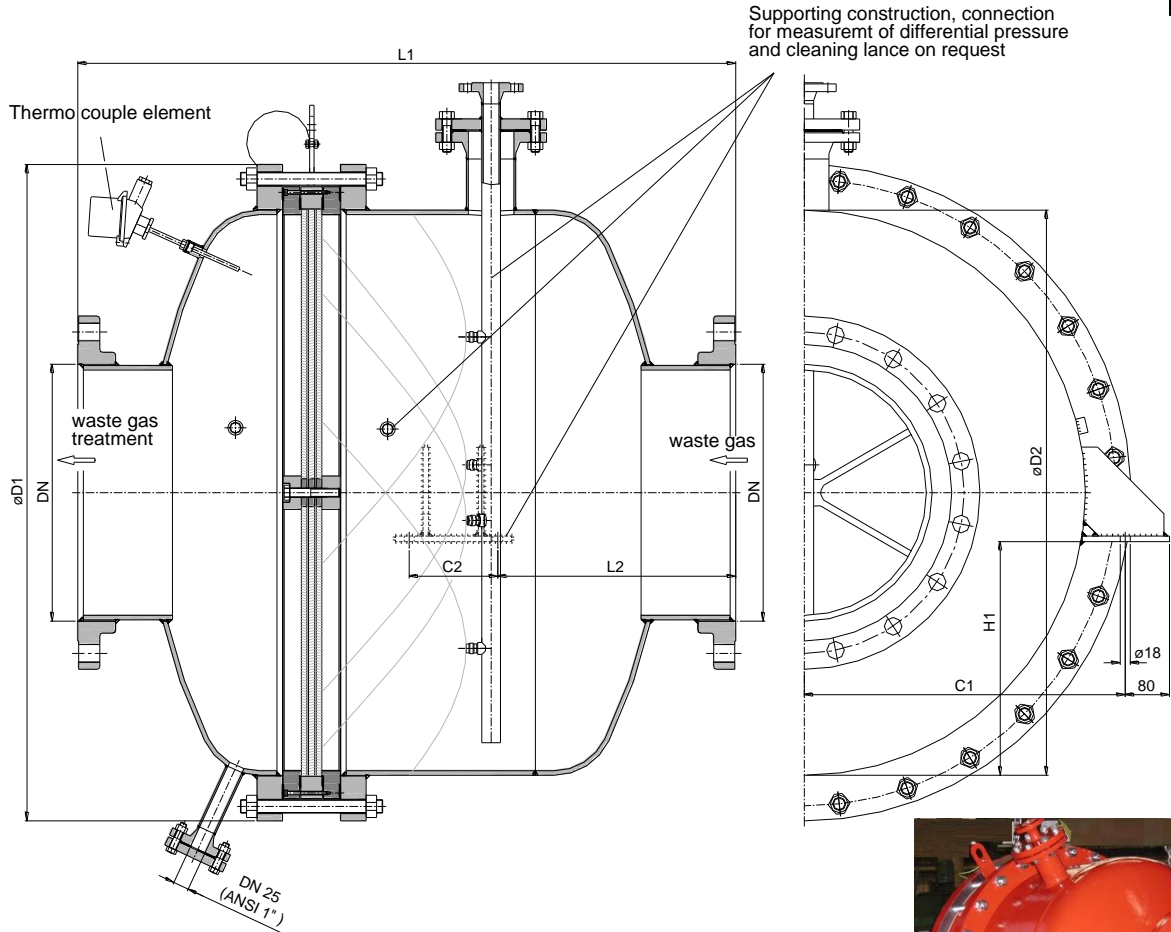
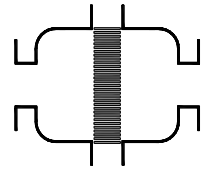


In-line Deflagration Flame Arrester

KITO® RV/N-IIA-1000/...-1.2-X08

KITO® RV/N-IIA-1000/...-1.2-X08-T



Supporting construction, connection for measurement of differential pressure and cleaning lance on request

Type examination certificate to DIN EN ISO 16852

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

Example to order:

KITO® RV/N-IIA-1000/400-1.2-X08



| size | DN | ANSI | D1 | D2 | L1 | L2 | C1 | C2 | H1 | max. L/D** | kg* (DN) | kg* (ANSI) |
|------|-----|------|------|------|------|-----|-----|-----|-----|------------|----------|------------|
| 1000 | 400 | 16" | 1180 | 1016 | 1190 | 405 | 580 | 210 | 420 | 50 | 824 | 862 |
| | 450 | 18" | | | | | | | | | | |
| | 500 | 20" | | | | | | | | | | |
| | 600 | 24" | | | | | | | | | | |

Dimensions in mm

* weights refer to the standard design

** ratio of pipe length to nominal pipe diameter

Design subject to change

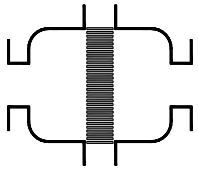
performance curves: H 0.26.2 N

Standard design

| | |
|------------------------------|--|
| housing | : <u>steel</u> , stainless steel mat. no. 1.4571 or 1.4301 |
| gasket | : <u>HD3822</u> , PTFE |
| KITO® flame arrester element | : completely interchangeable |
| KITO® casing | : <u>steel</u> , stainless steel mat. no. 1.4571 or 1.4301 |
| KITO® grid | : stainless steel mat. no. <u>1.4310</u> or 1.4571 |
| temperature sensor | : 2x PT100 (option) |
| condensate drain | |
| connecting piece | : blank flanged |
| flange connection | : <u>DIN EN 1092-1 PN 10 form A</u> , ANSI 150 lbs. RF |

Application

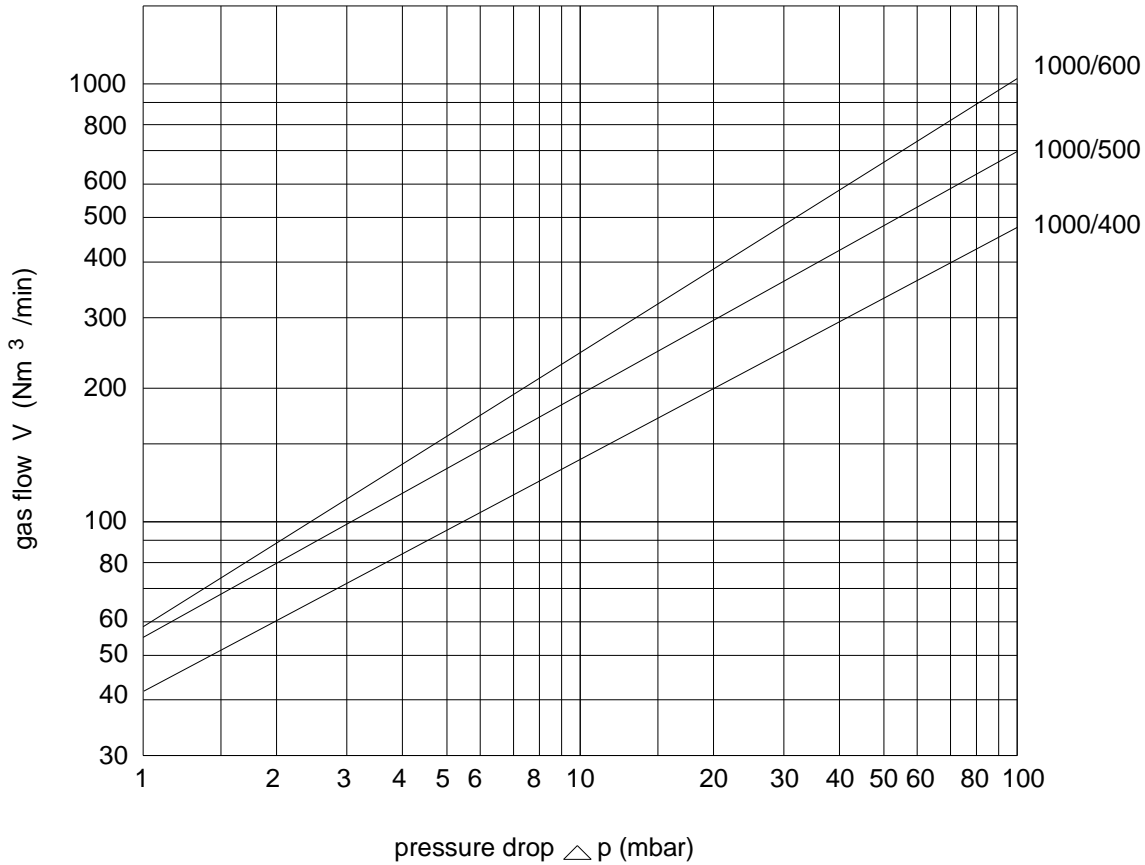
Intermediate armature, mainly installed as in-line deflagration flame arrester in pipes to thermal incineration plants for vapor/air and air/gas mixtures. Unilaterally working in pipes, whereby an operating pressure of 1.2 bar abs. and an operating temperature of 80°C must not be exceeded. Approved for all substances of the explosion group IIA with a MESH > 0.9 mm. The maximum length of the pipes from the KITO® flame arrester to the ignition source is limited (L/D tube length/tube diameter). It is only allowed to install the device in pipes with nominal widths ≤ than the nominal width of the armature (DN). The thermal sensor serves to trigger an emergency function, e.g. shutting off or inverting the gas flow if a stabilized burning occurs at the KITO® flame arrester. Proof against "stabilized burning" and withstand this up to a max. burn time BT = 1.0 min.



In-line Deflagration Flame Arrester
KITO® RV/N-IIA-1000/...-1.2-X08
KITO® RV/N-IIA-1000/...-1.2-X08-T
H 26.2 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 $\dot{V} = \dot{V}_b \cdot \sqrt{\frac{\rho_b}{1.29}}$ or $\dot{V}_b = \dot{V} \cdot \sqrt{\frac{1.29}{\rho_b}}$



Design subject to change