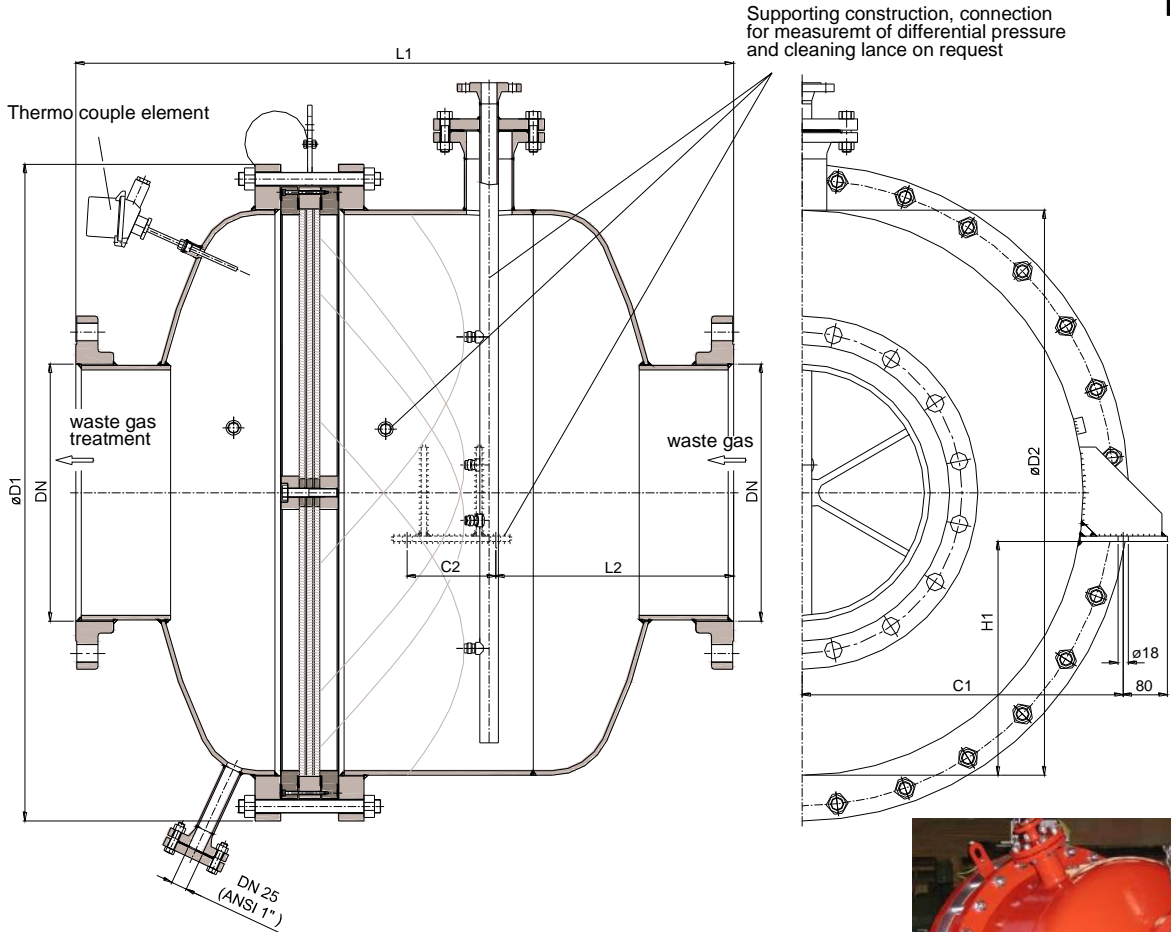
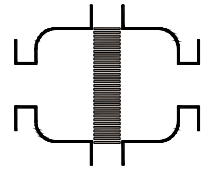


# In-line Deflagration Flame Arrester

**KITO® RV/N-IIA-1000/...-1.2-X08**

**KITO® RV/N-IIA-1000/...-1.2-X08-T**



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

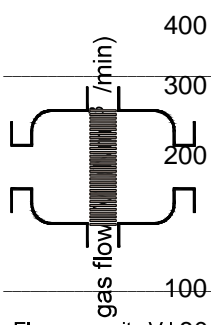
performance curves: H 0.26.2 N

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 MESG > 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.



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

