

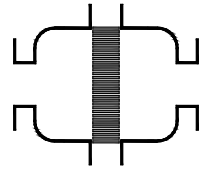


Type sheet

Uni-directional in-line deflagration flame arrester, short-time burning proof

KITO® RV/N-IIA-.../...-1.2

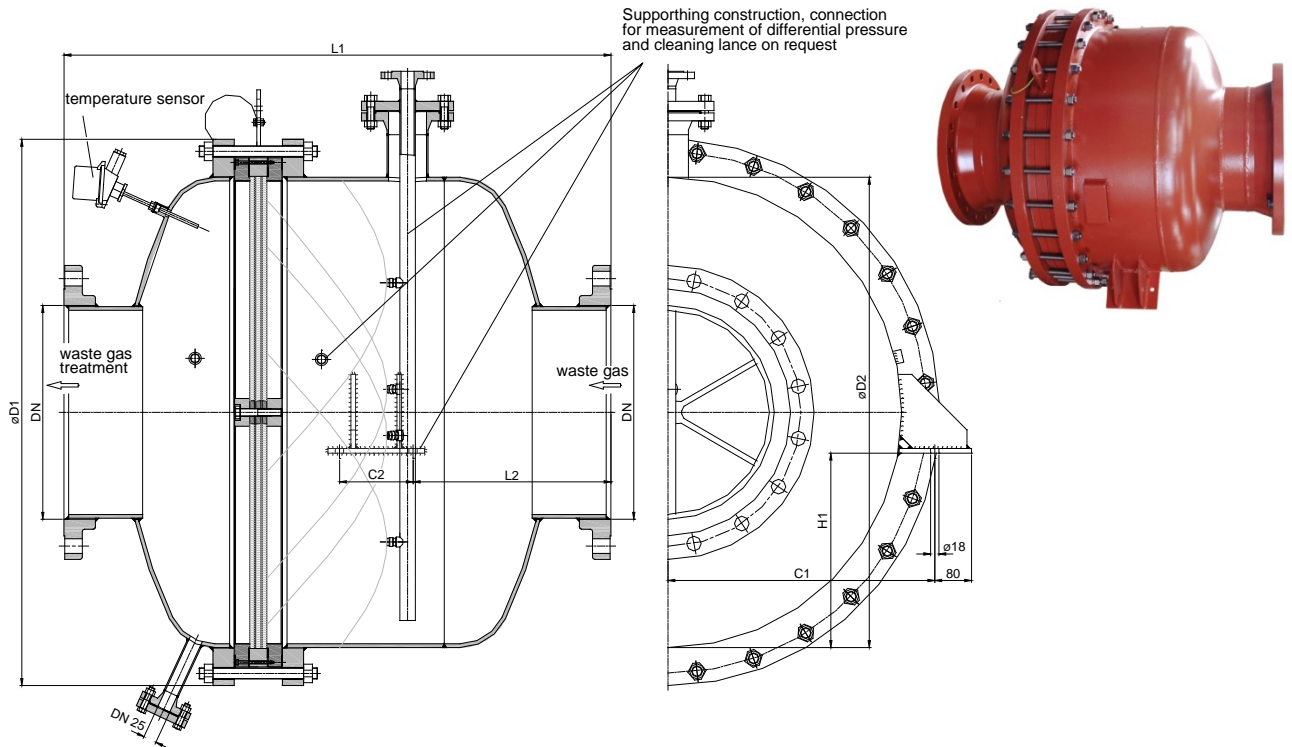
KITO® RV/N-IIA-.../...-1.2-T



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 60 °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 pipe 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 temperature sensors (2 pieces, arranged on one side) serves to trigger an emergency function, e.g. shutting off or inerting the gas flow if a stabilized burning occurs at the KITO® flame arrester.

Dimension (mm)



NG	DN		D1	D2	L1	L2	C1	C2	H1	max. L/D*	kg (DIN)	kg (ASME)
	DIN	ASME										
800	400	16"	1015	813	900	295	487	130	316	10	540	
	500	20"									560	
1000	400	16"	1180	1016	1190	405	580	210	420	50	824	862
	450	18"									821	879
	500	20"									839	939

Weight refers to the standard design

* Ratio of pipe length to nominal pipe diameter

Example for order

KITO® RV/N-IIA-800/400-1.2-T

(Design NG 800 with flange connection DN 400 PN 10 and two temperature sensors)

Type examination certificate to EN ISO 16852 and CE-marking in accordance to ATEX-Directive 2014/34/EU

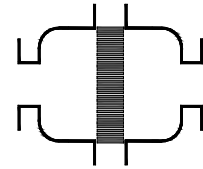


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Design

	standard	optionally
housing	steel	stainless steel mat. no. 1.4301 / 1.4571
gasket	HD 3822	PTFE
KITO®-flame arrester element	completely interchangeable	
KITO®-casing	steel	stainless steel mat. no. 1.4301 / 1.4571
KITO®-grid	stainless steel mat. no. 1.4310	stainless steel mat. no. 1.4571
temperature sensor		2x PT 100, connection 3/8", 1.4571
condensate drain connecting piece	blank flanged	
flange connection	EN 1092-1 type A	ASME B16.5 Class 150 RF

Performance curves

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

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

