

Type sheet Uni-directional in-line detonation flame arrester KITO[®] Rd/C-Det4-IIA-...-1.2



Application

Detonation flame arrester for installation into pipes to protect containers and components against **stable** detonation of flammable liquids and gases. Tested and approved as detonation flame arrester **type 4**. Approved for all substances of explosion groups IIA1 to IIA with a maximum experimental safe gap (MESG) > 0.9 mm. An operating pressure of 1.2 bar abs. and an operating temperature of 60 °C must not be exceeded. Positioning should be as close as possible to the protected object; it is only allowed to connect pipes with the same or a smaller diameter than the diameter (G) of the device. The installation of the detonation flame arrester into horizontal and vertical pipes is permissible.

Dimensions (mm)





thread	D	н	H1	SW	~kg
$ \begin{array}{r} G^{1}/_{8}^{"} \\ \hline G^{1}/_{4}^{"} \\ \hline G^{3}/_{8}^{"} \\ \hline G^{1}/_{2}^{"} \\ \hline G^{3}/_{4}^{"} \\ \hline G^{1}'' \end{array} $	80	137	85	60	4.5

Weight refers to the standard design

Example for order

KITO[®] Rd/C-Det4-IIA-1"-1,2 (design with threaded connections G 1")

Type examination certificate to EN ISO 16852 and $C \in Marking$ in accordance to ATEX-Directive 2014/34/EU

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M 5 N / G 5 N Date: 05-2018 Created: Abt. Doku KITO Design subject to change

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Design

	standard	optionally
housing	steel (St 52-3N)	stainless steel mat. no. 1.4571
gasket	HD 3822	PTFE
KITO [®] -flame arrester element	interchangeable	
KITO [®] -grid	stainless steel mat. no. 1.4310	stainless steel mat. no. 1.4571
connection	thread connection BSP	

Performance curves

Flow capacity V based on air of a density ρ = 1.29 kg/m³ at T = 273 K and atmospheric pressure p = 1.013 mbar. For other gases the flow can be approximately calculated by

$$\dot{\mathbf{V}} = \dot{\mathbf{V}}_{\mathrm{b}} \cdot \sqrt{\frac{\rho_{\mathrm{b}}}{1.29}} \ or \ \dot{\mathbf{V}}_{\mathrm{b}} = \dot{\mathbf{V}} \cdot \sqrt{\frac{1.29}{\rho_{\mathrm{b}}}}$$



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