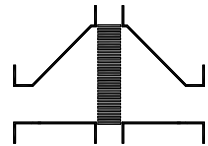


Type sheet

Bi-directional in-line detonation flame arrester, short-time burning proof

KITO® EFA-Det4-IIB3-.../...-1.2

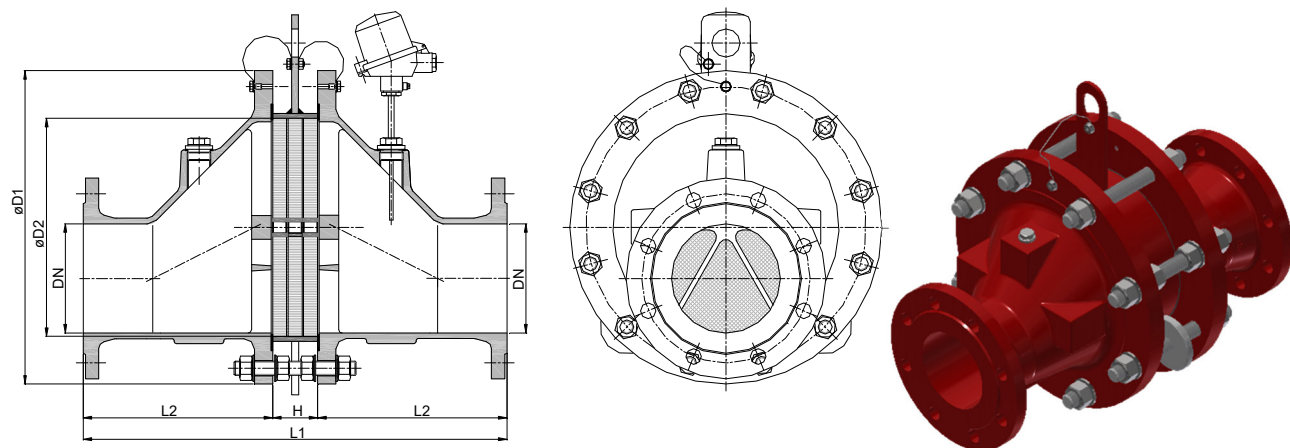
KITO® EFA-Det4-IIB3-.../...-1.2-T (-TT)



Application

For installation into pipes to the protection of vessels 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 IIB3 with a maximum experimental safe gap (MESG) ≥ 0.65 mm. Bi-directionally working in pipes, whereby an operating pressure of 1.2 bar abs. and an operating temperature of 60 °C must not be exceeded. The installation of the detonation flame arrester into horizontal and vertical pipes is permissible. Provided with one or two temperature sensors (PT 100) the armature is certified against short time burning from one or both sides. If only one thermal sensor is attached, it must be installed into that part of the body from which a fire is expected.

Dimension (mm)



NG	DN		D1	D2	L1	H	L2	kg
	DIN	ASME						
65	25 PN 40	1"	155	70	304	64	120	12
	32 PN 40	1 1/4"						14
100	40 PN 40	1 1/2"	220	106	354	64	145	25
	50 PN 16	2"						27
150	50 PN 16	2"	285	159	414	64	175	44
	65 PN 16	2 1/2"						45
	80 PN 16	3"						47
200	80 PN 16	3"	340	206	464	64	200	66
	100 PN 16	4"						67
	100 PN 16	4"						120
300	125 PN 16	5"	445	308	626	86	270	126
	150 PN 16	6"						129
	150 PN 16	6"						195
400	200 PN 10	8"	565	388	716	86	315	210
	200 PN 10	8"						293
500	250 PN 10	10"	670	485	846	86	380	311
	250 PN 10	10"						414
600	300 PN 10	12"	780	584	986	86	450	431
	350 PN 10	14"						
800	400 PN 10	16"	1015	810	1350	110	620	

Weight refers to the standard design

Example for order

KITO® EFA-Det4-IIB3-100/40-1.2-T

(design NG 100 with flange connection DN 40 PN 40 and a temperature sensor)

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



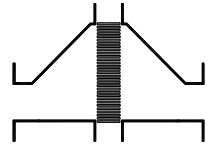


Type sheet

Bi-directional in-line detonation flame arrester, short-time burning proof

KITO® EFA-Det4-IIB3-.../...-1.2

KITO® EFA-Det4-IIB3-.../...-1.2-T (-TT)



Design

	standard	optionally
housing	cast steel 1.0619	stainless cast steel 1.4408
gasket	HD 3822	PTFE
KITO®-flame arrester element	completely interchangeable	
KITO®-casing	steel (galvanized to NG 400)	stainless steel mat. no. 1.4571 or 1.4581
KITO®-grid	stainless steel mat. no. 1.4310	stainless steel mat. no. 1.4571
bolts / nuts	galvanized steel	A2
temperature sensor		PT 100, connection 3/8", 1.4571
flange connection	EN 1092-1 type B1	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

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

