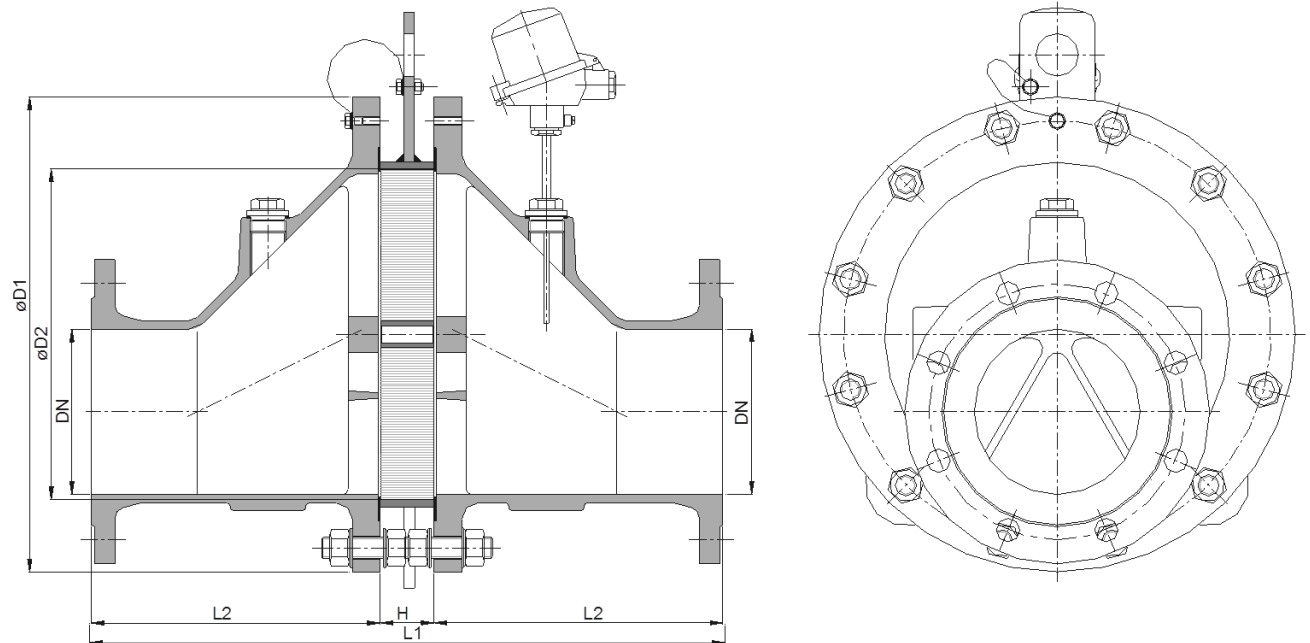
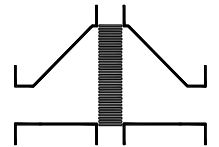


Bi-directional in-line detonation flame arrester

KITO® EFA-Det4-I-.../...-2.5

KITO® EFA-Det4-I-.../...-2.5-T (-TT)



Type examination certificate to DIN EN ISO 16852 and C E -designation in accordance to ATEX-Guideline 94/9/EC

NG	DN	ANSI	D1	D2	L1	H	L2	kg*
65	25 PN 40	1"	155	70	290	50	120	11
	32 PN 40	1 1/4"						12
100	40 PN 40	1 1/2"	220	106	340	50	145	24
	50 PN 16	2"						25
150	50 PN 16	2"	285	159	400	50	175	26
	65 PN 16	2 1/2"						43
	80 PN 16	3"						65
200	80 PN 16	3"	340	206	502	102	200	71
	100 PN 16	4"						115
300	100 PN 16	4"	445	308	642	102	270	200
	125 PN 16	5"						
	150 PN 16	6"						
400	150 PN 16	6"	565	388	732	102	315	
	200 PN 10	8"						
500	200 PN 10	8"	670	485	862	102	380	
	250 PN 10	10"						
600	250 PN 10	10"	780	584	1002	102	450	
	300 PN 10	12"						

Dimensions in mm

* weight refers to the standard design



Design subject to change

performance curves: G 0.21 N

Standard design

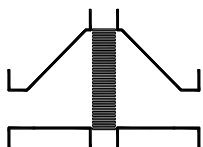
housing	: cast steel 1.0619, stainless cast steel 1.4408
gasket	: HD 3822, PTFE
KITO® flame arrester element	: completely interchangeable
KITO® casing	: galvanized steel, stainless steel mat. no. 1.4571, 1.4581
KITO® grid	: stainless steel mat. no. 1.4310, 1.4571,
bolts/nuts	: galvanized steel, SS
temperature sensor	: PT 100 (option); connection 3/8"
flange connection	: DIN EN 1092-1 form B1, ANSI 150 lbs. RF

Example for orders :

KITO® EFA-Det4-I-100/40-2.5-T
(design with thermo couple element)

Application

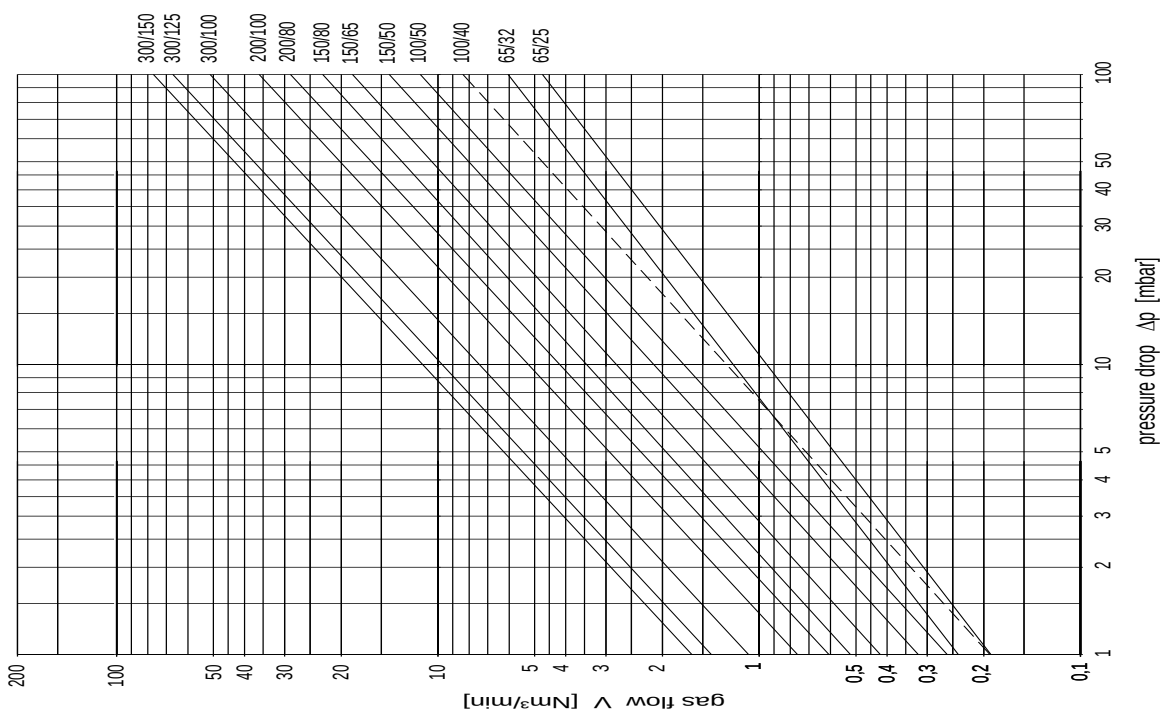
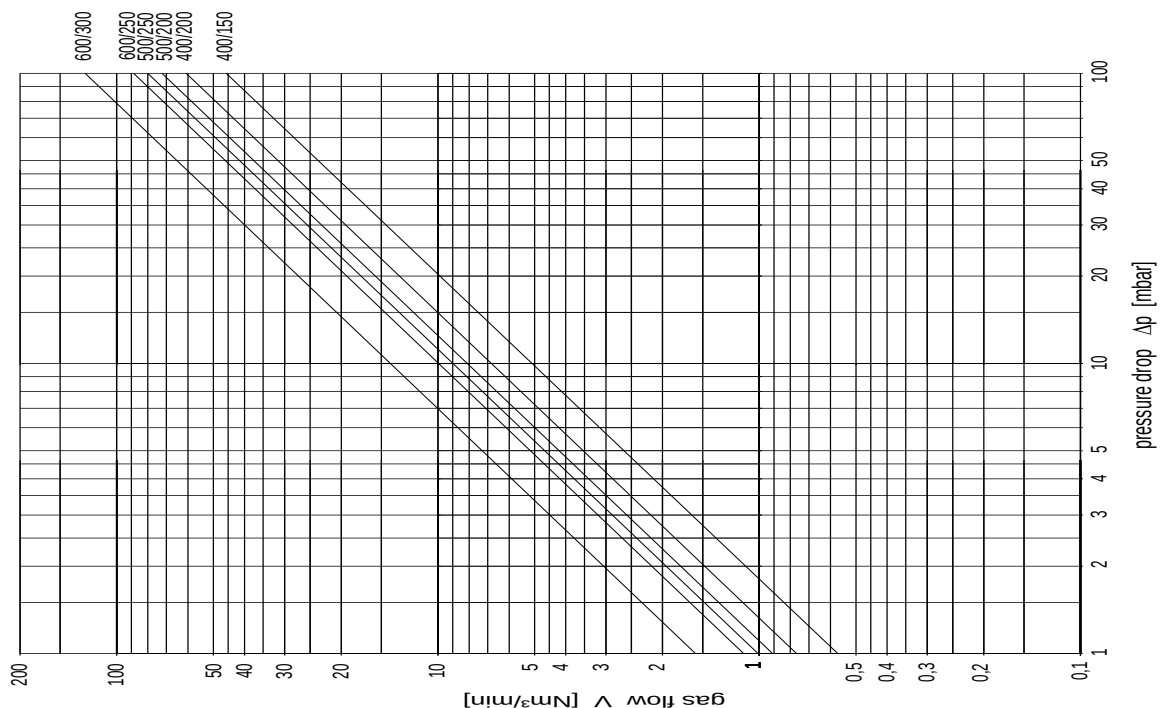
For installation into pipes to the protection of vessels and components against **stable** detonation of flammable liquids and gases. Tested and approved as detonation flame arrester **type 4**. Approved for all substances of explosion group IIA1 with a maximum experimental safe gap (MESG) ≥ 1.14 mm. Bi-directionally working in pipes, whereby an operating pressure of 2.5 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.



Bi-directional in-line detonation flame arrester KITO® EFA-Det4-I-.../...-2.5 KITO® EFA-Det4-I-.../...-2.5-T (-TT) G 21 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

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



Design subject to change