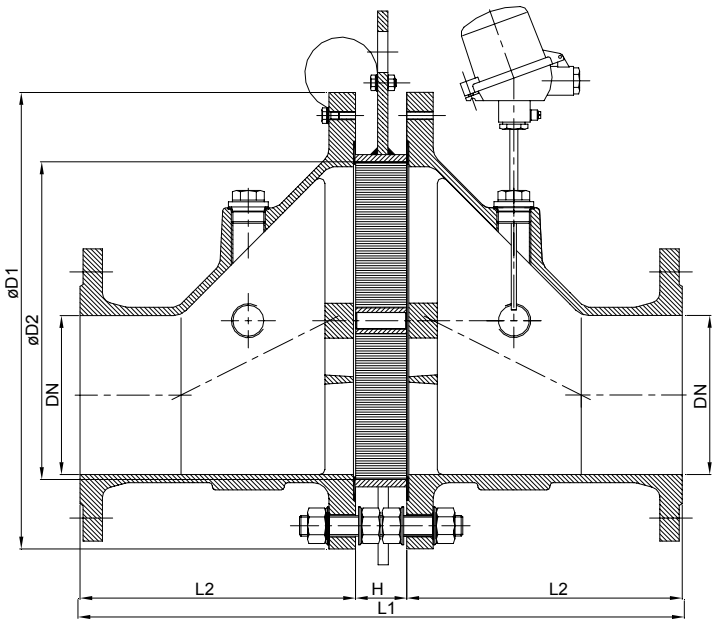
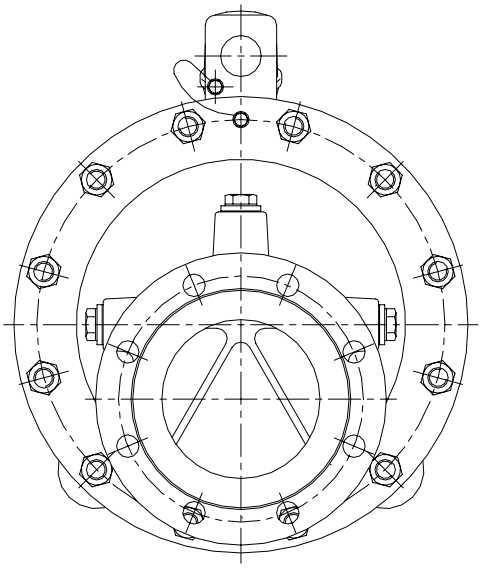
Bi-directional in-line detonation flame arrester
KITO EFA-Det-I-…/…
KITO EFA-Det-I-…/…T





size	DN	ANSI	D1	D2	L1	H	L2	kg*
65	**25**	**1“**	155	70	290	50	120	11
	32	**1 ¼“**						12
100	**40**	**1 ½“**	220	106	340	50	145	24
	50	**2“**						25
150	**50**	**2“**	285	159	400	50	175	26
	65	**2 ½“**						42
	80	**3“**						44
200	**80**	**3“**	340	206	450	50	200	
	100	**4“**						63
300	**100**	**4“**	445	308	590	50	270	
	125	**5“**						108
	150	**6“**						114
400	**150**	**6“**	565	388	732	102	315	
	200	**8“**						158
500	**200**	**8“**	670	485	862	102	380	
	250	**10“**						
600	**250**	**10“**	780	584	1002	102	450	
	300	**12“**						

*weights refer to the standard design

dimension in mm

EC type approval
ATEX 100 a and EN 12874

CE -designation available

Example to order :
KITO EFA-Det-I-300/150-T
(design with temperature sensor)

Design subject to change

For performance curves see diagram : G 0.15 N

Standard design

housing	: cast steel 1.0619, stainless cast steel 1.4408
gasket	: HD 3822, PTFE
casing for grid	: 1.0305, stainless steel mat. no. 1.4571, 1.4581
grid	: stainless steel mat. no. 1.4310, 1.4571, strip thickness 0.15 mm
bolts/nuts	: galvanized steel, SS
temperature sensor	: PT 100 (option)
flange connection	: DIN 2501 PN 10 ANSI 150 lbs. RF

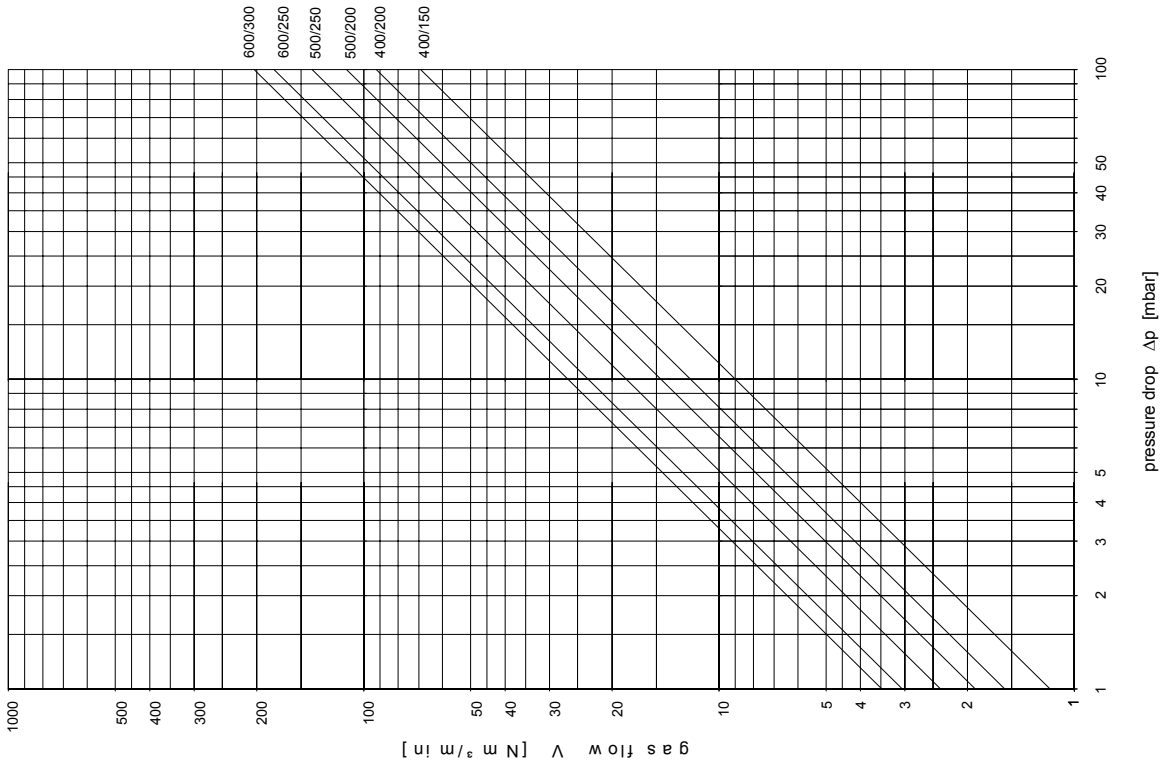
Other materials, special designs, heating etc. upon request.

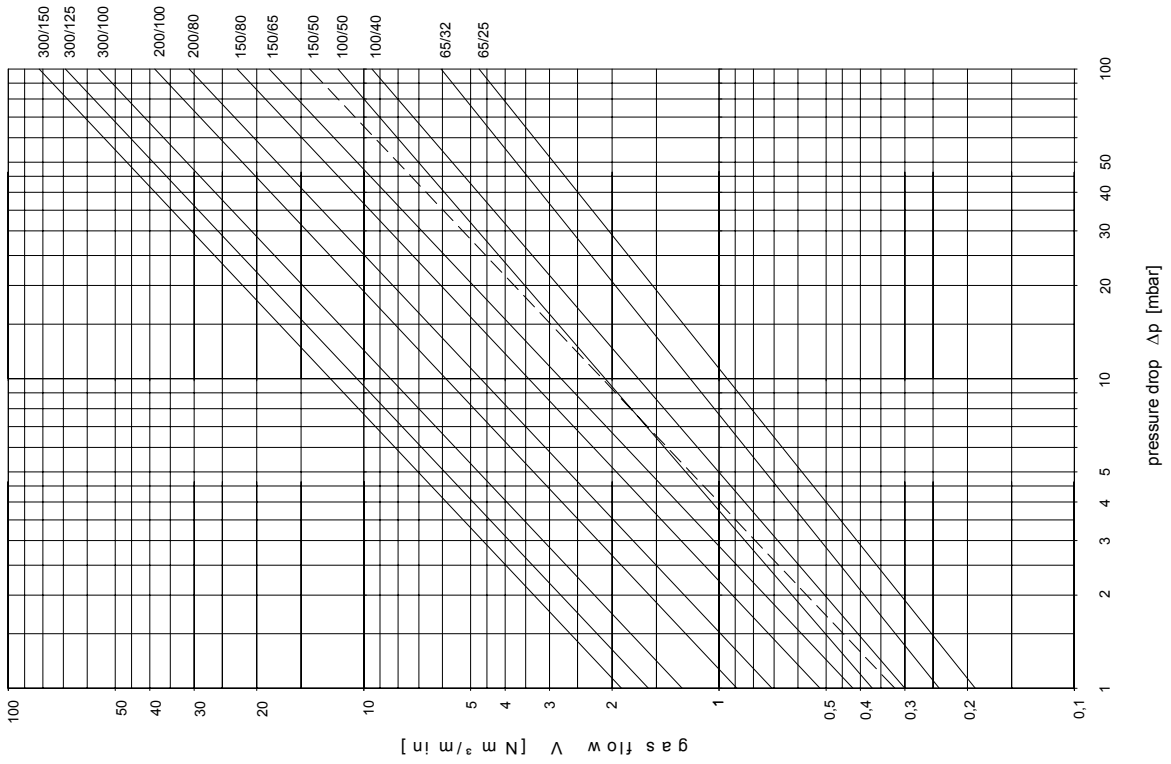
Application

For installation into pipelines to the protection of containers and components against **stable** detonation of flammable liquids and gases.
Approved for all materials of the explosion group I with a maximum experimental safe gap (MESG) ≥ 1,14 mm.
Preventing flame transmission from both sides in pipelines operating under atmospheric conditions (operating pressure ≤ 1.1 bar abs).
Provided with one or two temperature sensors (PT 100) the armature is safe 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 detonation flame arrester from which a fire is expected.
The installation of the detonation flame arrester into horizontal and vertical pipelines is permissible.

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 $\dot{V} = \dot{V}_b \cdot \sqrt{\frac{\rho_b}{1{,}29}}$ *or* $\dot{V}_b = \dot{V} \cdot \sqrt{\frac{1{,}29}{\rho_b}}$





Design subject to change