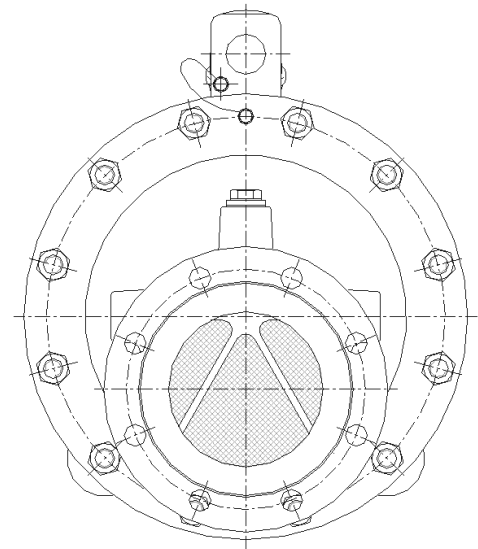
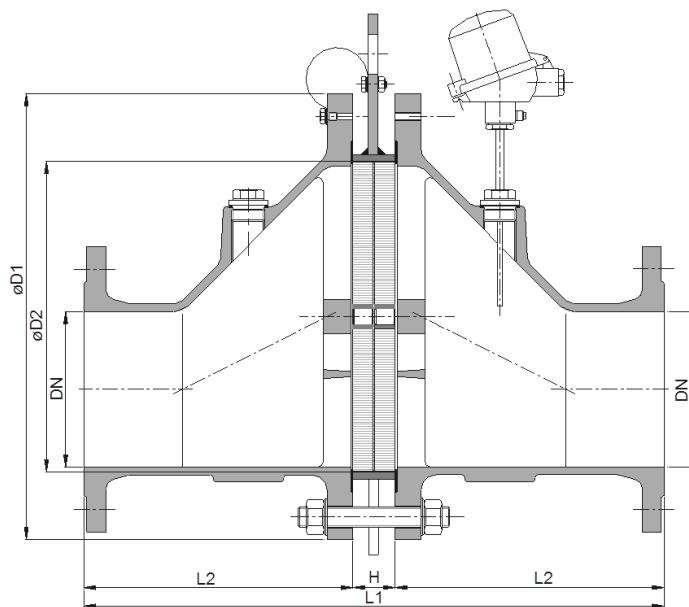
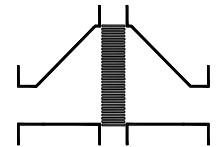


# Bi-directional deflagration flame arrester

KITO® EFA-Def0-IIB3-.../...-1.2

KITO® EFA-Def0-IIB3-.../...-1.2-T (-TT)



Type examination certificate to DIN EN ISO 16852  
 CE - 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	
	32 PN 40	1 1/4"						
100	40 PN 40	1 1/2"	220	106	340	50	145	
	50 PN 16	2"						25
150	50 PN 16	2"	285	159	392	42	175	40
	65 PN 16	2 1/2"						41
	80 PN 16	3"						43
200	80 PN 16	3"	340	206	442	42	200	59
	100 PN 16	4"						60
300	100 PN 16	4"	445	308	482	42	270	105
	125 PN 16	5"						108
	150 PN 16	6"						108
400	150 PN 16	6"	565	388	672	42	315	153
	200 PN 10	8"						172
500	200 PN 10	8"	670	485	802	42	380	243
	250 PN 10	10"						253
600	250 PN 10	10"	780	584	942	42	450	344
	300 PN 10	12"						360
800	350 PN 10	14"	1015	810	1307	67	620	
	400 PN 10	16"						



Dimensions in mm

\* weight refers to the standard design

Design subject to change

performance curves: H 0.39 N

### Standard design

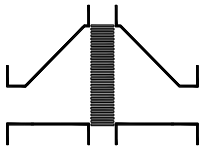
- housing : cast steel 1.0619, stainless cast steel 1.4408
- gasket : HD 3822, PTFE
- KITO® flame arrester element : completely interchangeable
- KITO casing : galvanized steel, stainless steel mat. no. 1.4571, 1.4581
- KITO grid : stainless steel mat. no. 1.4310, 1.4571,
- bolts/nuts : galvanized steel,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

### Application

For installation into pipes to the protection of vessels and components against deflagration of flammable liquids and gases. Approved for all substances of explosion groups IIA1 to IIB3 with a maximum experimental safe gap (MESG)  $\geq 0.65$  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 distance between a potential ignition source and the flame arrester must not exceed 50 times the inner pipe diameter. The installation of the deflagration 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.

Example to order:

**KITO® EFA-Def0-IIB3-100/40-1.2-T**  
 (design with thermo couple element)



## Bi-directional deflagration flame arrester

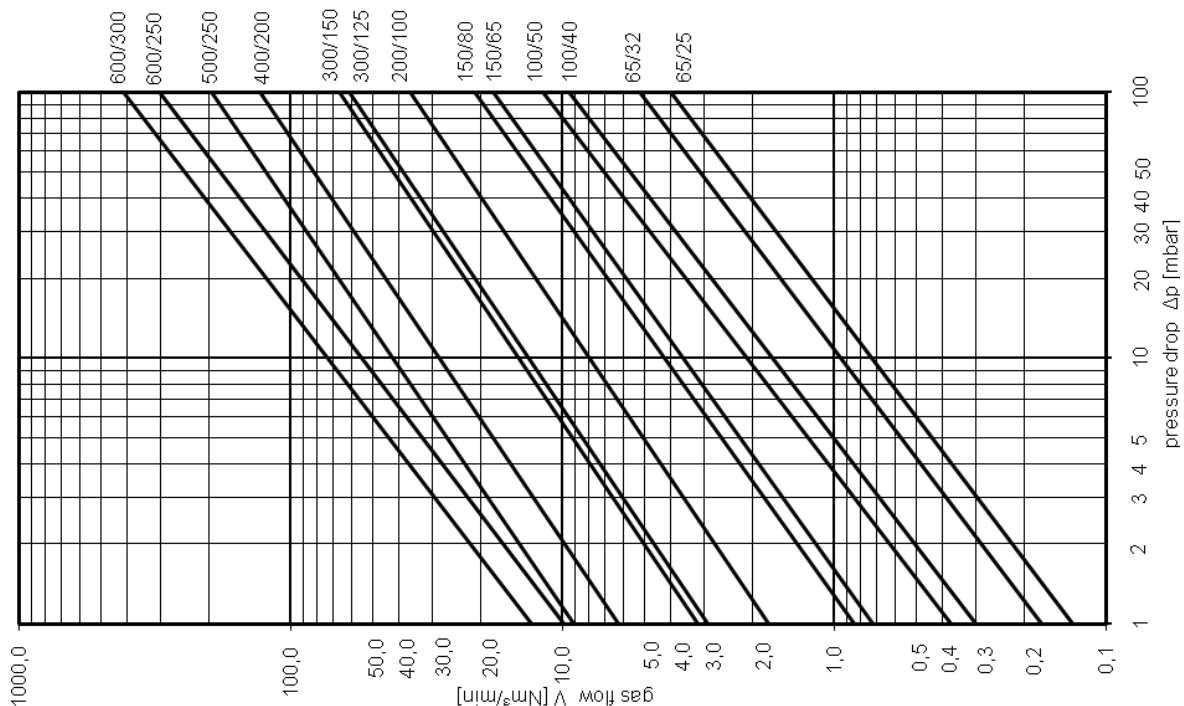
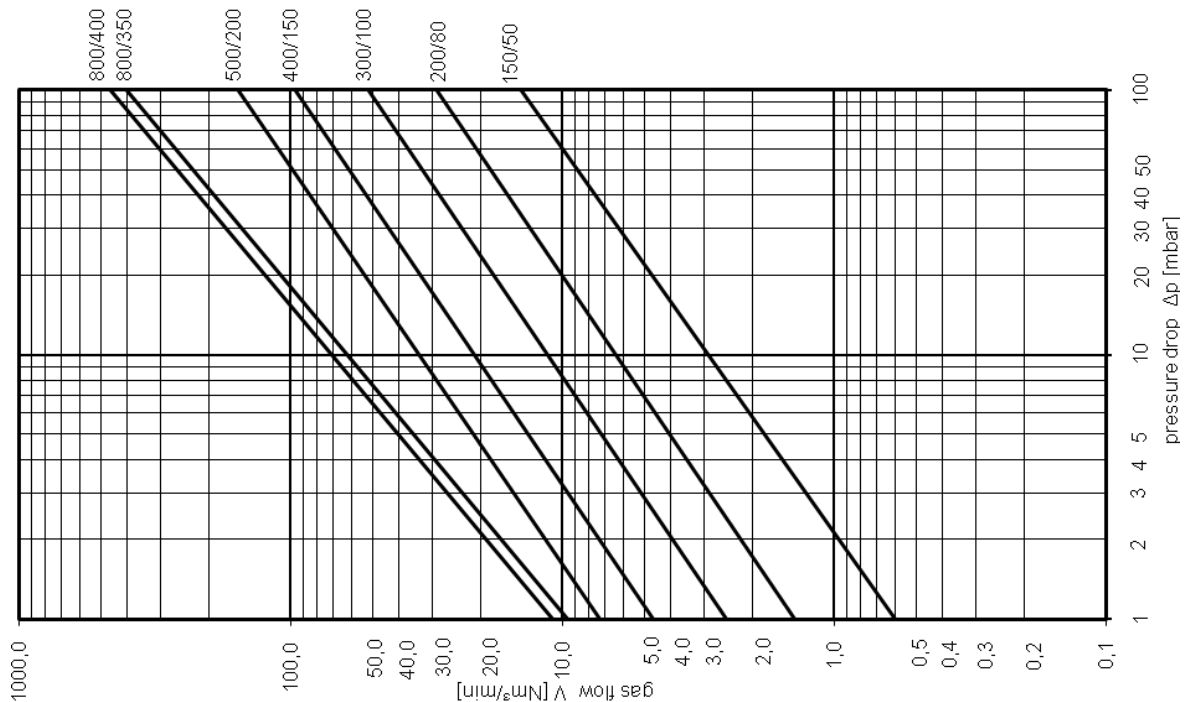
**KITO® EFA-Def0-IIB3-.../...-1.2**

**KITO® EFA-Def0-IIB3-.../...-1.2-T (-TT)**

**H 39 N**

The flow capacity  $V$  refers to a density of air with  $\rho = 1.29 \text{ kg/m}^3$  at  $T = 273 \text{ K}$  and a pressure of  $p = 1.013 \text{ mbar}$ . The flow capacity for gases with different densities can be calculated sufficiently accurate by the following approximation equation:

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



Design subject to change