



# KITO

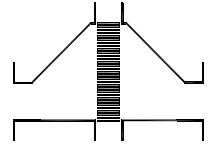
# Armaturen GmbH

## Type sheet

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

**KITO® EFA-Def0-I-.../...-1.2-X16**

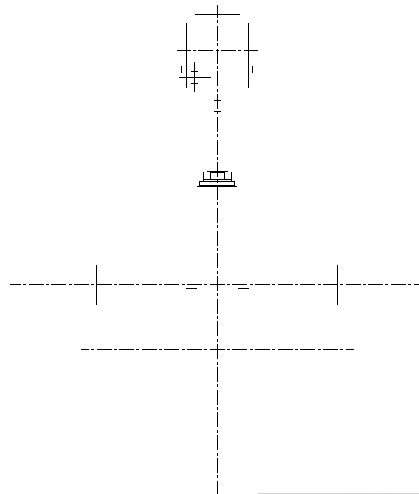
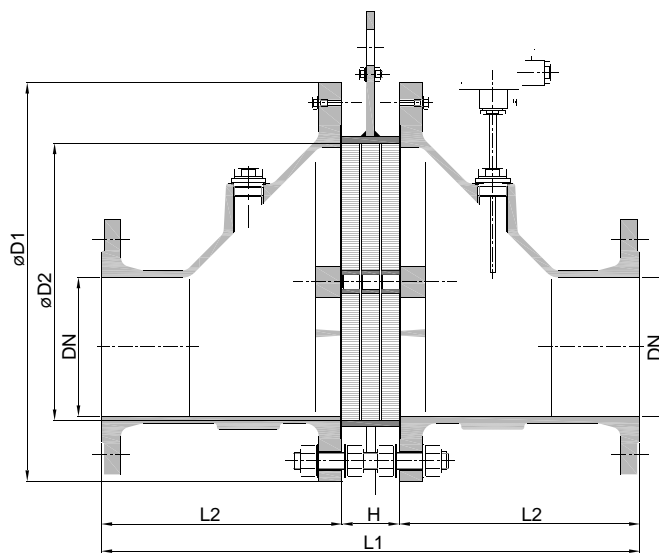
**KITO® EFA-Def0-I-.../...-1.2-X16-T (-TT)**



### 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 group IIA1 (old: I) with a maximum experimental safe gap (MESG)  $\geq 1.14$  mm. Bi-directionally working in pipes, whereby an operating pressure of 1.2 bar abs. and an operating temperature of 160 °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. When equipped with one or two temperature sensors, the devices are protected under atmospheric conditions against a short time burning by a burning time  $t_{BT} = 1.0$  min. If only one temperature sensor, then it is to be placed on the device side where a burning could be expected.

### Dimension (mm)



NG	DN		D1	D2	L1	H	L2	kg
	DIN	ASME						
800	350 PN 10	14"	1015	810	1328	88	620	
	400 PN 10	16"						

Weight refers to the standard design

### Example for order

**KITO® EFA-Def0-I-800/400-1.2-X16-T**

(Design NG 800 with flange connection DN 400 PN 10 and a temperature sensor)

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

page 1 of 2



## CMC TECHNOLOGIES

PTY LIMITED ACN: 085 991 224, ABN: 47 085 991 224

Engineering &  
Industrial  
Instrumentation

Phone: +61 2 9669 4000  
Fax: +61 2 9669 4111  
Email: [sales@cmctechnologies.com.au](mailto:sales@cmctechnologies.com.au)  
Web Site: <http://www.cmctechnologies.net.au>

Unit 19, 77 Bourke Road,  
Alexandria, NSW, 2015  
AUSTRALIA

**H 33.3 N**

Date: 05-2018

Created: Abt. Doku KITO

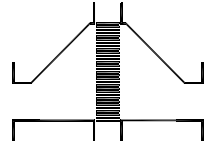
Design subject to change

## Type sheet

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

**KITO® EFA-Def0-I.../...-1.2-X16**

**KITO® EFA-Def0-I.../...-1.2-X16-T (-TT)**



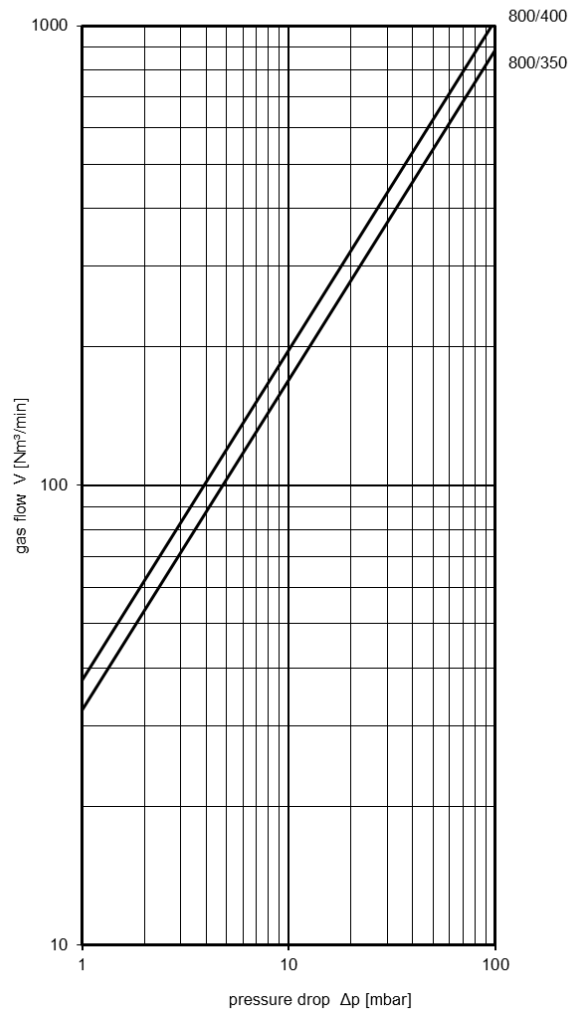
### Design

	standard	optionally
housing	cast steel 1.0619	stainless cast steel 1.4408
gasket	HD 3822	PTFE
KITO®-flame arrester element	completely interchangeable	
KITO®-casing	stainless steel mat. no. 1.4571	
KITO®-grid	stainless steel mat. no. 1.4571	
bolts / nuts	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

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



page 2 of 2



**CMC TECHNOLOGIES**

PTY LIMITED ACN: 085 991 224, ABN: 47 085 991 224

Engineering &  
Industrial  
Instrumentation

Phone: +61 2 9669 4000  
Fax: +61 2 9669 4111  
Email: [sales@cmctechnologies.com.au](mailto:sales@cmctechnologies.com.au)  
Web Site: <http://www.cmctechnologies.net.au>

Unit 19, 77 Bourke Road,  
Alexandria, NSW, 2015  
AUSTRALIA

**H 33.3 N**

Date: 05-2018

Created: Abt. Doku KITO

Design subject to change