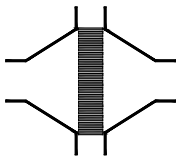
KITO Armaturen GmbH

Type sheet

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

KITO® RG-Det4-IIA-…-4.5

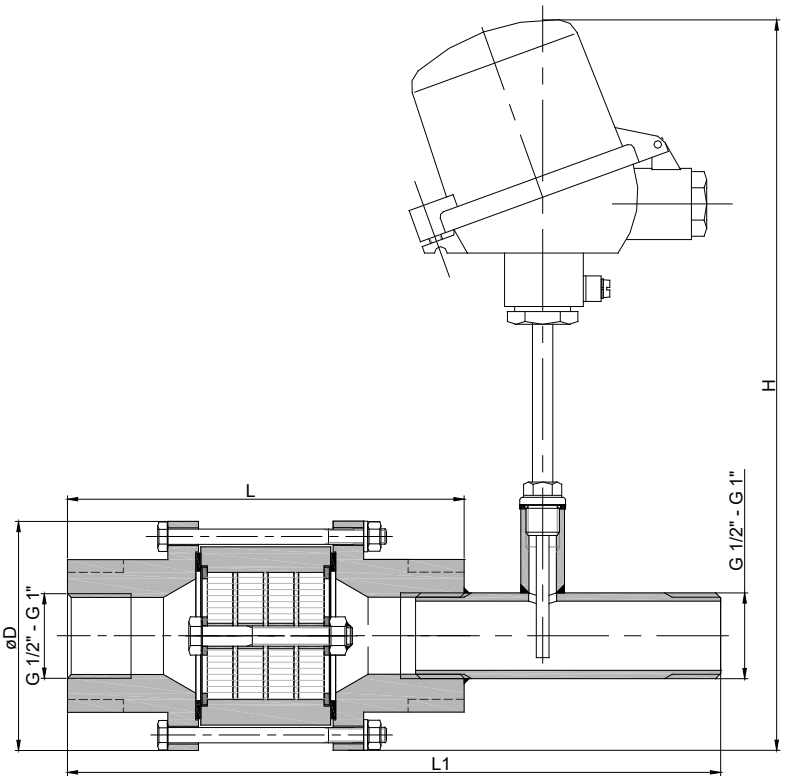
KITO® RG-Det4-IIA-…-4.5-T (-TT)

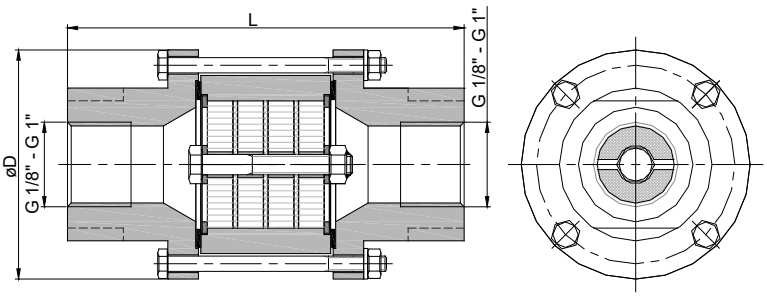


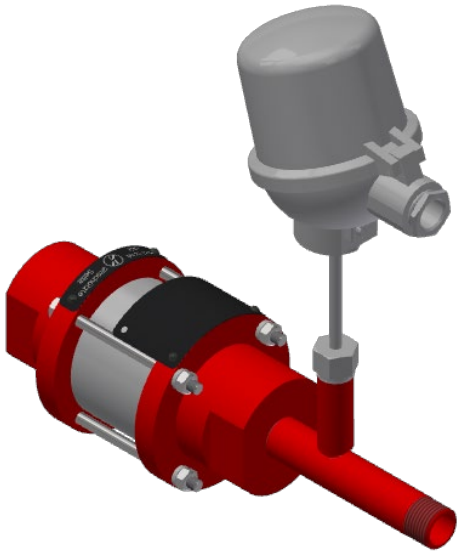
Application

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 IIA with a maximum experimental safe gap (MESG) > 0.9 mm. Bi-directionally working in pipes, whereby an operating pressure of 4.5 bar abs. and an operating temperature of 60 °C must not be exceeded. All sizes are tested against “stabilized burning” and withstand this up to a max. burn time BT ≤ 1.0 min. To detect a “stabilized burning” a temperature sensor must be installed at each endangered side. Mounting is acceptable in any position, in horizontal as well as in vertical pipes.

Dimension (mm)







G	D	L	L1	H	kg
⅛“, ¼“, ⅜“	90	156	-	-	4.0
½“, ¾“, 1“			261	290	

Weight refers to the standard design

Example for order

KITO® RG-Det4-IIA-1”-4.5-T
(design with threaded connection G 1“ and a temperature sensor)

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

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G 26.2 N
Date: 11.2020
Created: Abt. Doku KITO
Design subject to change

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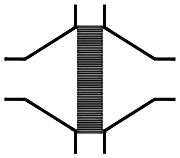


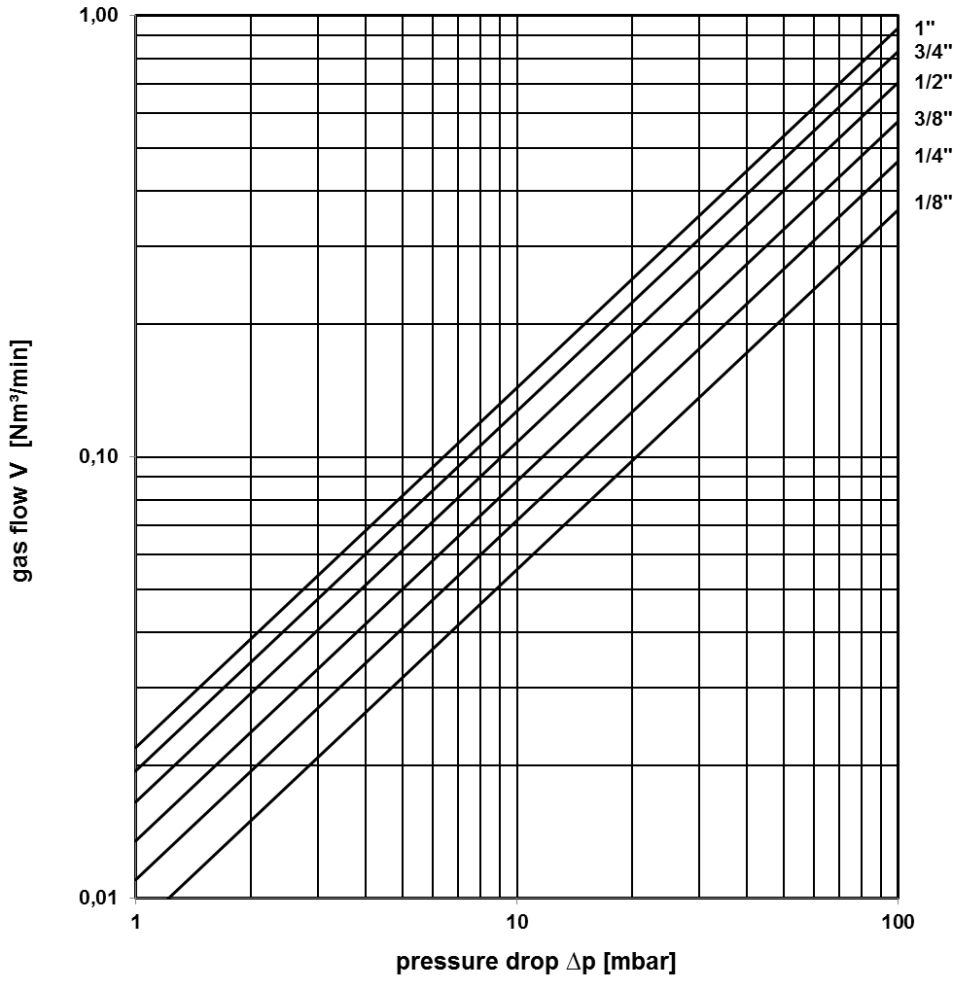
Design

	standard	optionally
housing	steel	stainless steel mat. no. 1.4571
gasket	HD 3822	PTFE
KITO®-flame arrester element	completely interchangeable	
KITO®-casing / KITO®-grid	stainless steel mat. no. 1.4301 / 1.4310	stainless steel mat. no. 1.4571 / 1.4571
bolts / nuts	A2	A4
temperature sensor ***-not for connection G ⅛"- ⅜"-***		PT 100, connection ¼", 1.4571
connection	thread connection	

Performance curves

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

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



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