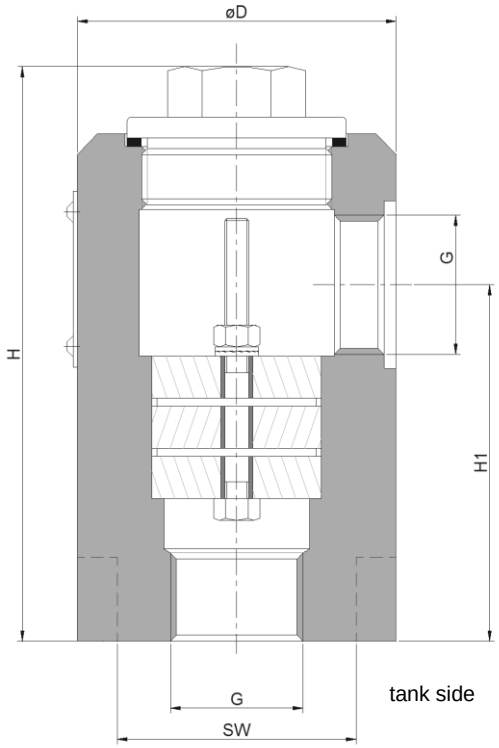
Detonation flame arrester
KITO® Rd/C-Det4-IIA-…-1.2



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

thread G	D	H	H1	SW	kg*
G 1/8“	80	137	85	60	4.5
G 1/4“					
G 3/8“					
G ½“					
G ¾“					
G 1“					

Dimensions in mm

* weight refers to the standard design

Example to order :
KITO® Rd/C-Det4-IIA-1“-1,2
(design with threaded connections 1“)

Design subject to change

performance curves: M 0.5 N / G 0.5 N

Standard design

housing : St 52-3N, stainless steel mat. no. 1.4571
gasket : HD 3822, PTFE
KITO® flame arrester element : completely interchangeable
KITO® grid : stainless steel mat. no. 1.4310, 1.4571,
connection : thread connection

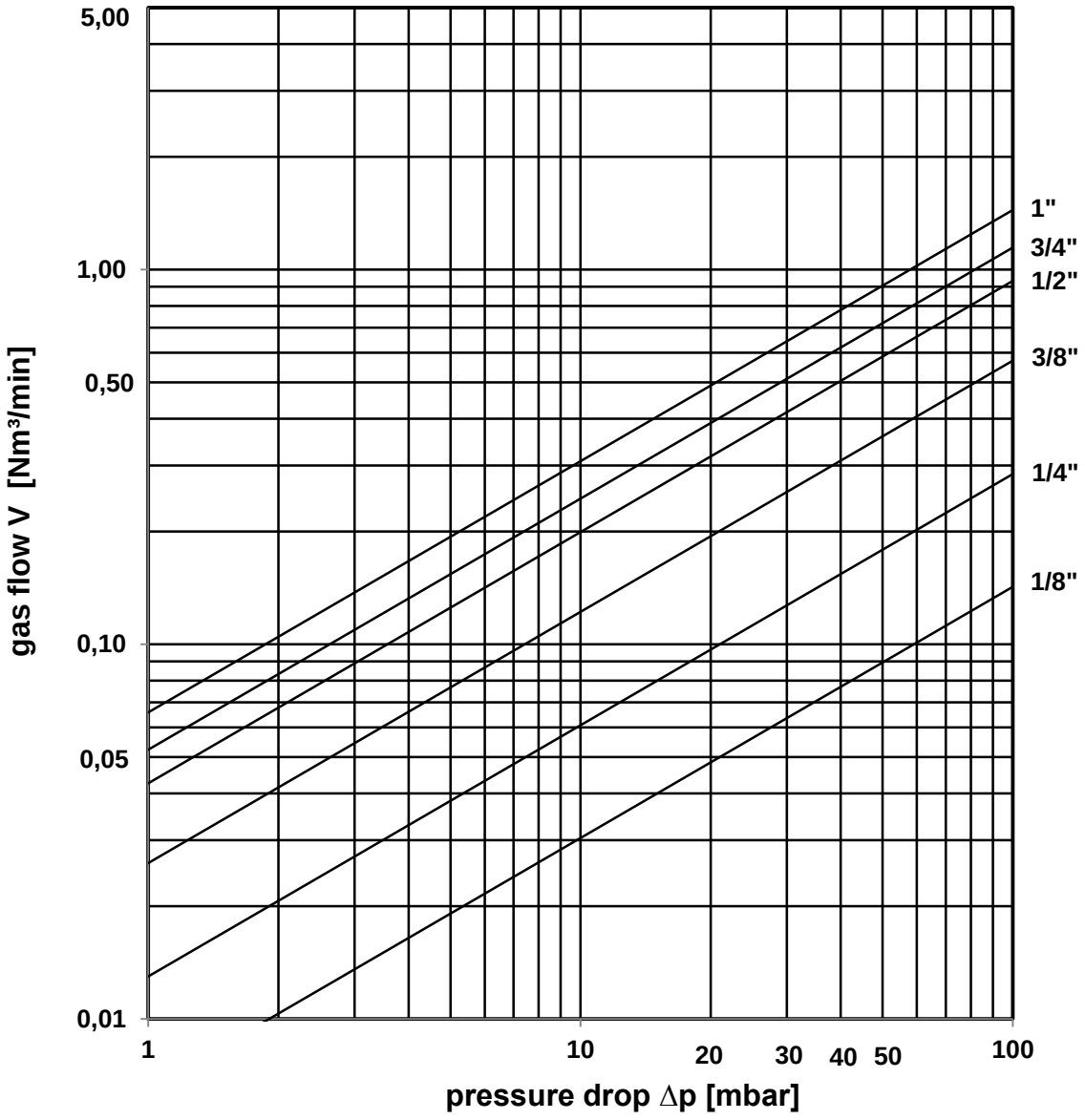
Application

Detonation flame arrester for installation into pipes to protect containers 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.
An operating pressure of 1.2 bar abs. and an operating temperature of 60°C must not be exceeded.
Positioning should be as close as possible to the protected object; it is only allowed to connect pipes with the same or a smaller diameter than the diameter (G) of the device.
The installation of the detonation flame arrester into horizontal and vertical pipes is permissible.

The flow capacity V refer to a density of air with ρ = 1.29 kg/m³ at T = 273 K and a pressure of p = 1.013 mbar

The flow capacity for gases with different densities can be calculated sufficiently accurate by the following approximation equation:

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



Design subject to change