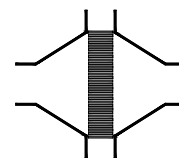


## Type sheet

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

**KITO® RG-Det4-IIC-...**

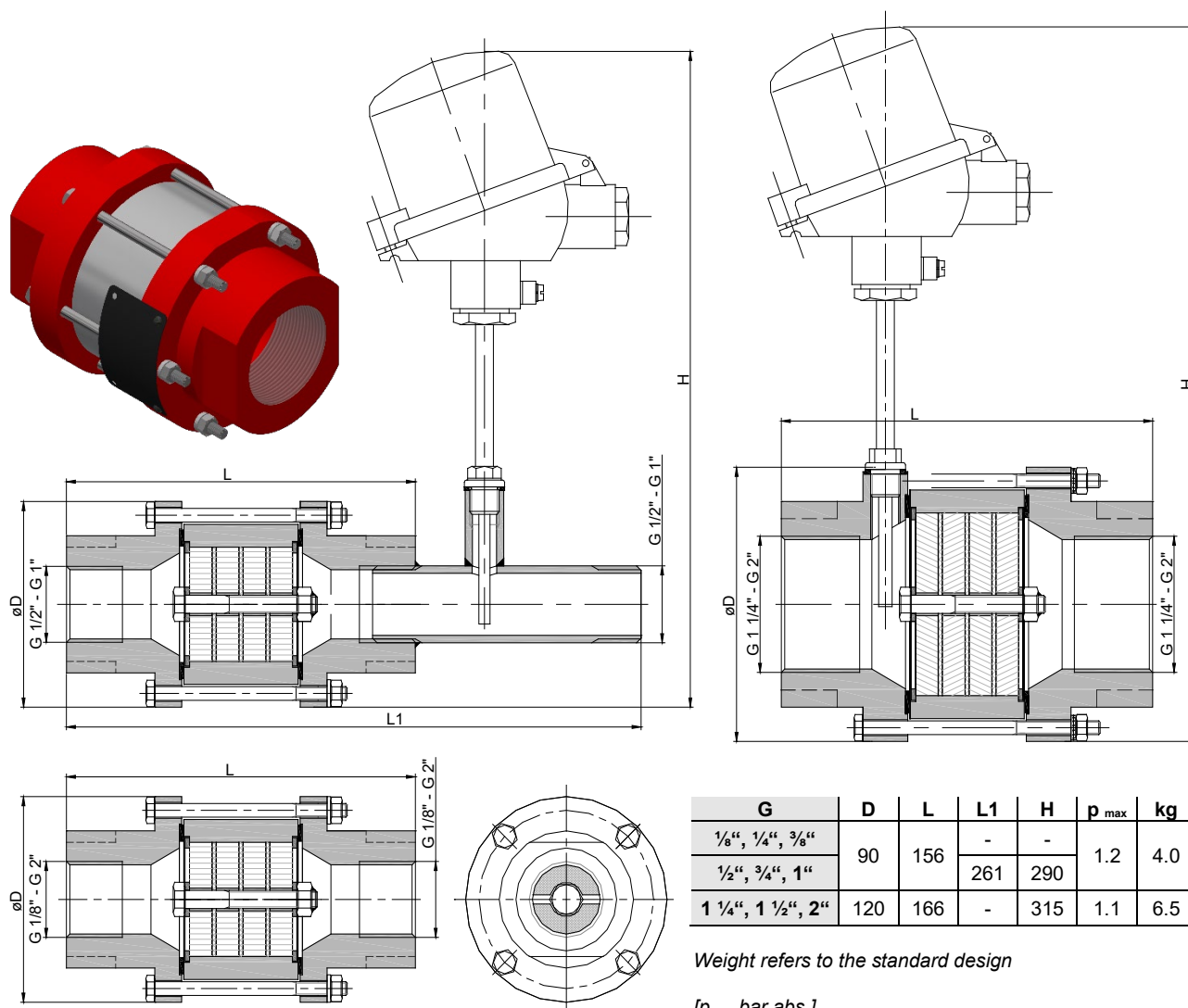
**KITO® RG-Det4-IIC-...-T (-TT)**



### 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 IIC with a maximum experimental safe gap (MESG) < 0.5 mm. Bi-directionally working in pipes, whereby an operating pressure of 1.2 or 1.1 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)



### Example for order

**KITO® RG-Det4-IIC-1 1/4"-1.2-T**

(design with threaded connection G 1 1/4" and a temperature sensor)

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

page 1 of 2

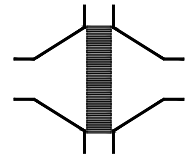


## Type sheet

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

**KITO® RG-Det4-IIC-...**

**KITO® RG-Det4-IIC-...-T (-TT)**



### 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                       |                                          | PT 100, connection 1/4", 1.4571          |
| <b>-not for connection G 1/8"- 3/8"-</b> |                                          |                                          |
| connection                               | thread connection                        |                                          |

### 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

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

