



[1]

# EU-TYPE EXAMINATION CERTIFICATE

[2] **Protective Systems intended for use in potentially explosive atmospheres**

**Directive 2014/34/EU – Annex III**

[3] Certificate Number: **EPT 25 ATEX 5856 X** **issue 0**

[4] Protective System: **In-line flame arrester for deflagration**

Models: **6000-50 EN P, 6000-80 EN P, 6000-100 EN P, 6000-125 EN P,  
6000-150 EN P**

[5] Manufacturer: **RIDART S.r.l.**

[6] Address: **Via Adua, 17  
21045 Gazzada Schianno (VA) – ITALY**

[7] This protective system and its accepted variations are specified in the annex to this Certificate.

[8] Eurofins Product Testing Italy S.r.l., Notified Body n. 0477 in accordance with Article 21 of the Directive 2014/34/EU of the European Parliament and of the Council of 26th February 2014, certifies that this protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of protective systems intended for use in potentially explosive atmospheres given in Annex II of the Directive. The examination and test results are recorded in the confidential Report N° EPT.25.REL.01/2413127 Revision 0.

[9] Compliance with the essential health and safety requirements is assured through the verification of them and by compliance with the following harmonized standards:

**EN ISO 16852:2016**

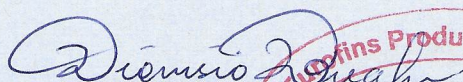
[10] If the sign "X" is placed after the Certificate number, it indicates that the protective system is subject to the special conditions for safe use specified in the annex to this Certificate.

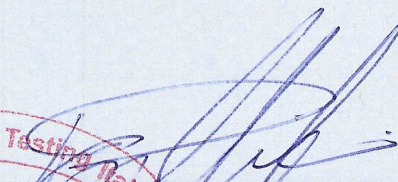
[11] This EU -TYPE EXAMINATION CERTIFICATE relates only to the design, the exam and the tests of the specified protective system.  
Further requirements of the Directive 2014/34/EU apply to the manufacture and supply of this protective system. These requirements are not object of this Certificate.

[12] The protective system shall include the marking  G IIB3

Place and date of issue:  
(DD-MM-YYYY)

**Torino, 12-06-2025**

  
Dionisio Bucchieri  
Directive Responsible

  
Paolo Trisoglio  
Managing Director



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This Certificate has 5 pages and it is reproducible only in its entirety. Conditions of validity are reported below.







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## ANNEX

### EU-TYPE EXAMINATION CERTIFICATE

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#### [15] Protective system description

The 6000-50 EN P, 6000-80 EN P, 6000-100 EN P, 6000-125 EN P, 6000-150 EN P in-line deflagration flame arresters are protective systems designed to avoid the spread of flames in the event of a deflagration of mixtures of air with gas/vapors of explosion group IIB3 (MESG  $\geq 0,65$  mm) with operating pressure up to 1.1 bar abs (110 KPa abs) and an operating temperature in a range of  $-20^{\circ}\text{C}$  to  $\leq +60^{\circ}\text{C}$ .

The flame arresters consist of two housing parts with a flange connection for DN50, DN80, DN100, DN125 or DN150 and between them, an element cage containing the flame arrester elements. The element cage contains two flame arrester elements kept in their position by means of two flat flanges with machined cross; the flanges are tightened by means of screws and threaded cylindrical spacers. The flame arrester elements are separated by means of a flat thin spacer. Each element has a thickness of 12.5 mm and a gap size of maximum 0.50 mm.

The housing of the flame arresters is equipped with two 1/8" GAS connections for the temperature sensors to detect a stabilized burning on the flame arresters; in case of monodirectional flame arresters only one temperature sensor is installed (unprotected side), while in case of bidirectional flame arresters two temperature sensors are installed. These temperature sensors defined in manufacturer's documents.

The flame arrester elements are in stainless steel, while the flame arrester body can be made of carbon steel or stainless steel as defined in manufacturer's documents.

#### Installation and use requirements

|                                                         |                         |
|---------------------------------------------------------|-------------------------|
| Type of flame arrester                                  | DEF                     |
| Explosion group Ex Gp                                   | IIB3                    |
| Burn rating                                             | BC: b                   |
|                                                         | t <sub>BT</sub> : 1 min |
| Maximum operational temperature T <sub>0</sub> / °C     | 60                      |
| Maximum operational pressure P <sub>0</sub> / bar (abs) | 1.1                     |

#### Warning label

- Flame arresters have installation and application limits
- Type designation in accordance with ISO 16852

#### Routine tests

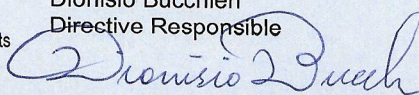
- Pressure test at a pressure not less than  $1,1 \times 10^6$  Pa for not less than 3 min without deformation in accordance with § 6.5 of ISO 16852:2016.
- Leak test with air at a pressure absolute not less than 150 kPa for not less than 3 min without leak in accordance with § 6.6 of ISO 16852:2016.



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**[16] Assessment Report N° EPT.25.REL.01/2413127 Revision 0**

This EU-Type Examination Certificate is released after the positive result of the conformity assessment of the Council Directive 2014/34/EU and to harmonized technical standards listed in this certificate performed by the Notified Body Eurofins Product Testing Italy S.r.l., and reported in the Assessment Report above cited.

**[17] Special condition for a safe use**

- The fluids to be used must be compatible with the flame arrester materials.
- Only pipes with a nominal diameter up to the nominal diameter specified in the type of designation may be connected to the deflagration flame arresters of the types. The nominal connection diameter on the protected side must not be smaller than on the unprotected side.
- Considering that the stabilized burning in the flame arresters is an additional risk, the flame arresters must be integrated with one or two temperature sensors as indicated in the instructions manual (two sensors in case of bidirectional service).

**[18] Essential Health and Safety Requirements**

Assured by compliance with harmonized standards.



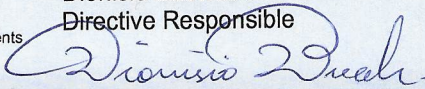
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**[19] Descriptive documents**

The protective systems object of this Certificate are described by the following documents that are scheduled documents and therefore they cannot be modified without the explicit authorization of the Notified Body.

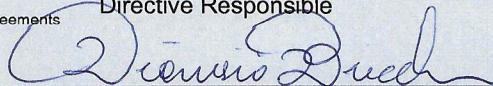
| Type of document               | Document identification /Drawing no.                       | Rev. | Date       |
|--------------------------------|------------------------------------------------------------|------|------------|
| User manual                    | USER-MANUAL-6000ENP                                        | 01   | 25-02-2025 |
| Technical descriptive document | FT_ATEX_F6000_2025                                         | 01   | 25-02-2025 |
| Marking label                  | Marchiatura singoli componenti                             | 01   | 25-02-2025 |
| Marking label                  | Marchiatura assieme complete Rompifiamma                   | 01   | 25-02-2025 |
| Assembly drawing               | Rompifiamma di linea da 2"                                 | 01   | 25-02-2025 |
| Assembly drawing               | Rompifiamma di linea da 3"                                 | 01   | 25-02-2025 |
| Assembly drawing               | Rompifiamma di linea da 4"                                 | 01   | 25-02-2025 |
| Assembly drawing               | Rompifiamma di linea da 5"                                 | 01   | 25-02-2025 |
| Assembly drawing               | Rompifiamma di linea da 6"                                 | 01   | 25-02-2025 |
| Drawing                        | Profilo e area rompifiamma                                 | 01   | 25-02-2025 |
| Drawing                        | PROFILO NASTRO ROMPIFIAMMA                                 | 01   | 25-02-2025 |
| Drawing                        | Distanziale per flangia 12" attacco rompifiamma da 6"      | 01   | 25-02-2025 |
| Drawing                        | Pilastro distanziale                                       | 01   | 25-02-2025 |
| Drawing                        | Distanziale per flangia 8" attacco rompifiamma da 4"       | 01   | 25-02-2025 |
| Drawing                        | Distanziale per flangia 6" attacco rompifiamma da 3"       | 01   | 25-02-2025 |
| Drawing                        | Perno per saldatura                                        | 01   | 25-02-2025 |
| Drawing                        | Distanziale per flangia 4" attacco rompifiamma da 2"       | 01   | 25-02-2025 |
| Drawing                        | Distanziale per flangia 10" attacco rompifiamma da 5"      | 01   | 25-02-2025 |
| Drawing                        | Perno avvolgimento ribboncoil                              | 01   | 25-02-2025 |
| Drawing                        | Pacchetto ribboncoil 12" per rompifiamma con attacco da 6" | 01   | 25-02-2025 |
| Drawing                        | Perno avvolgimento ribboncoil                              | 01   | 25-02-2025 |
| Drawing                        | Pacchetto ribboncoil 4" per rompifiamma con attacco da 2"  | 01   | 25-02-2025 |
| Drawing                        | Pacchetto ribboncoil 6" per rompifiamma con attacco da 3"  | 01   | 25-02-2025 |
| Drawing                        | Pacchetto ribboncoil 10" per rompifiamma con attacco da 5" | 01   | 25-02-2025 |
| Drawing                        | Pacchetto ribboncoil 8" per rompifiamma con attacco 4"     | 01   | 25-02-2025 |
| Drawing                        | Flangia 4" per ribboncoil con attacco da 2"                | 01   | 25-02-2025 |
| Drawing                        | Flangia 6" per ribboncoil con attacco da 3"                | 01   | 25-02-2025 |
| Drawing                        | Flange 10" per ribboncoil con attacco da 5"                | 01   | 25-02-2025 |
| Drawing                        | Flangia da 12" per ribboncoil con attacco da 6"            | 01   | 25-02-2025 |
| Drawing                        | Flangia 8" per ribboncoil con attacco da 4"                | 01   | 25-02-2025 |
| Drawing                        | ASSIEME SALDATO                                            | 01   | 25-02-2025 |
| Drawing                        | TABELLA RIBBONCOIL                                         | 01   | 25-02-2025 |
| Drawing                        | Rompifiamma con perno di avvolgimento EN-P 8               | 01   | 25-02-2025 |
| Drawing                        | Rompifiamma con perno di avvolgimento EN-P 28HF            | 01   | 25-02-2025 |
| Drawing                        | Accoppiamento pacchetto ribboncoil                         | 01   | 25-02-2025 |
| Drawing                        | TABELLA ANELLI                                             | 01   | 25-02-2025 |



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**[20] Terms and conditions**

The product liability rests with the Manufacturer, his representative or, in the absence of a representative, with the importer, in accordance with the General Product Safety Directive 2001/95/EC.

The following conditions may render this certificate invalid:

- changes in the design or construction of the product;
- changes or amendments to the Directive;
- changes or amendments in the standards which form the basis for documenting compliance with the essential requirements of the 2014/34/EU Directive.

**[21] History**

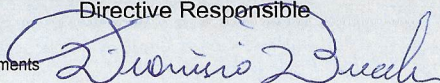
| Issue | Description    | Date       |
|-------|----------------|------------|
| 0     | First Emission | 12-06-2025 |



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End of Certificate