EU TYPE-EXAMINATION CERTIFICATE

1. **EU type-examination Certificate (Module B)**
2. **Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)**
3. **EU type examination certificate Nr** **ITS04ATEX13113X R.0**
4. **Product:** A 2, 3, 4, 6, 8, 10, 12-inch NB End of line Flame Arrester Type PVFA
5. **Manufacturer:** GFSA Ltd
6. **Address:** Gibbs Road, Lye, Stourbridge, West Midlands, DY9 8SY, UK
7. This product and any acceptable variation thereto are specified in the schedule to this certificate and therein referred to.
8. INTERTEK ITALIA S.p.A., Notified Body n° 2575 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and Council of the 26 February 2014, certifies that the equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective system intended for use in potentially explosive atmosphere, given in Annex II of the Directive.

   The examination and tests results are recorded in confidential technical evaluation Intertek Report Nr. 102655774LHD-001 dated 15th October 2025.
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN ISO 16852:2016 except in respect of those requirements referred to at item 16 of the Schedule.
10. If the sign X is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.
11. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
12. The marking of the product shall include the following:

    II G, IIA
    Tamb: -20°C to +60°C

Certificate issue date

3rd November 2025

Mark Newman
Certification Officer
Intertek Italia S.p.A. (NB 2575)

00151

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

This certificate has been issued by Intertek Italia S.p.A. NB 2575 on transfer from Intertek Testing & Certification Ltd. (NB 0359) using the same issued original certificate number.

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

SCHEDULE

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13. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

A 2, 3, 4, 6, 8, 10, 12-inch NB End of line Flame Arrester Type PVFA, comprising of a stainless-steel gauze pack element assembly sandwiched between a housing and a retainer plate. The assembly forms a protective system. The housing incorporates a mounting flange for attachment to associated pipework. The housing is made of carbon steel. A weather cowl is fitted to the retainer ring. The body can have either a slip-on flange or a weld-neck flange.

The arresters are suitable for end-of-line deflagration applications.
The ambient temperature range for the arresters is -20°C to 60°C.

CE Marking shall be accompanied by the identification number of the Notified Body responsible for surveillance of production.

14. DRAWINGS AND DOCUMENTS

TITLE	DOCUMENT Nr	LEVEL	DATE
General Arrangement of Pipe Vent Flame Arresters with slip-on flanges	D01-PVFA-1Ex	06	15.06.2023
Manufacturing and Assembly Drawing of Pipe Vent Flame Aresters with slip-on flanges	D03-PVFA-1Ex	07	15.06.2023
Manufacturing and Assembly Drawing for 150LB Pipe Vent (End of Line) Flame Arresters	D03-PVFA-2Ex	05	15.06.2023
General Arrangement and Details for 150LB Pipe Vent (End of Line) Flame Arresters	D01-PVFA-2Ex	05	15.06.2023
INSTALLATION, OPERATING & MAINTENANCE MANUAL	-	01	11.07.16

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.

SCHEDULE

EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS04ATEX13113X R.0

15. **SPECIFIC CONDITIONS OF USE**

- Depending on the operating conditions, the devices shall be equipped with temperature sensors on one or two sides which initiate measures for the elimination of the stabilized burning (for example, emergency functions like switching-off the system, inerting or similar) and this within the half of the time for which the device is short-time burn proof (0,5 × tBT). tBT = 60 seconds.
- When operating with only one temperature sensor, the installation side (identification on side to be protected) should be respected. Temperature sensors shall meet the flame arrester manufacturer's specification; they shall be installed in the flame arrester according to the flame arrester manufacturer´s instructions. Temperature sensors shall be integrated into the control system so that safety measures to stop the stabilized burning are initiated. Prior to putting the devices with safety system into operation, the switching temperature shall be adjusted so that the admissible time (60 seconds) period for the activating of the emergency measure will be observed.
- When tBT is exceeded during a short time burning situation, then the flame arresting safety cannot be assured.

16. **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS**

The relevant Essential Health and Safety Requirements have been identified and assessed in Intertek Report Nr. 04014544AC dated November 2004.

17. **ROUTINE (FACTORY) TESTS**

None.

18. **DETAIL OF CERTIFICATE CHANGES**

R.0 (3rd November 2025):

- Initial release by Intertek Italia S.p.A. NB 2575 on transfer from Intertek Testing & Certification Ltd. (NB 0359) using the same issued original certificate number.
- Update to standard EN 16852:2016 and schedule drawings.