

EU - TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

EU - Type Examination Certificate Number: **Baseefa11ATEX0149X – Issue 7**

In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

Product: **487 Stopping Plug**

Manufacturer: **Hawke International**

Address: **A Division of Hubbell Limited, A Member of the Hubbell Group of Companies,
Oxford Street West, Ashton-under-Lyne, Lancashire, OL7 0NA, UK**

This re-issued certificate extends EC Type Examination Certificate No. Baseefa11ATEX0149X to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

The examination and test results are recorded in confidential Report No. **See Certificate History**

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0: 2018 EN 60079-1: 2014 EN IEC 60079-7: 2015; +A1: 2018 EN 60079-31: 2014

except in respect of those requirements listed at item 18 of the Schedule.

If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

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.

The marking of the product shall include the following – **See schedule**

SGS Fimko Oy Customer Reference No. **0500**

Project File No. **22/0214**

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Authorised Signatory for SGS Fimko Oy

13 **Schedule**

14 **Certificate Number Baseefa11ATEX0149X – Issue 7**

15 **Description of Product**

The Type 487 Range of Stopping Plugs is manufactured in brass, steel, stainless steel or aluminium and is designed for the closure of unused entries in flameproof, increased safety or dust protected enclosures. The range covers sizes with metric threads from M16 to M130, other parallel thread forms of equivalent sizes, for example electrical conduit (ET), Pg, BSPP are provided.

Each plug has a threaded portion, 15mm to 20mm long as a minimum, depending on the thread type and size, and a larger circular head with a tapered shoulder. The stopping plug is manufactured with a broached hexagon hole in the larger diameter which is intended for tightening purposes. The underside of the shouldered head may be machined with a groove into which a nitrile or silicone rubber o-ring may be fitted to provide sealing to an associated enclosure.

The stopping plug, when provided with a o-ring and fitted in to suitable equipment, is capable of meeting the requirements of IP66/IP67.

The M20 and M25 version of the stopping plugs can be fitted with an optional suitably certified RFID transponder which screws into a clearance hole beneath the main hexagonal Allen cap socket.

The marking is as follows:

⊕ II 2G Ex db IIC Gb

⊕ II 2G Ex eb IIC Gb

⊕ II 2D Ex tb IIIC Db

⊕ I M2 Ex db I Mb

⊕ I M2 Ex eb I Mb

NOTE: Aluminium is not permitted for Group I Mining applications.

16 **Report Number**

GB/BAS/ExTR22.0112/00.

17 **Specific Conditions of Use**

1. The maximum operation temperature range of the stopping plug when fitted with a nitrile O-ring is -60°C to +80°C.
2. The maximum operating temperature range of the stopping plug when fitted with a silicone O-ring is -60°C to +160°C.
3. The maximum operating temperature range of the stopping plug when fitted with no O ring is -60°C to +200°C.
4. When the stopping plug is fitted in plain holes in increased safety or dust protected enclosures the sealing face of the enclosure is to be smooth and the hole no larger than 0.7mm above the major diameter of the male thread on the stopping plug. The stopping plug is to be secured with a locknut and optional locking washer.
5. When fitted in threaded holes the sealing face of the enclosure is to be smooth, the threaded hole perpendicular to the wall of the enclosure and the thread medium fit.
6. When the stopping plugs are used for increased safety or dust protection and no O Ring is fitted the user is to ensure that the enclosure and stopping plug interface is suitably sealed, in accordance with EN 60079-14, to maintain the ingress protection rating of the associated enclosure and protection concept.
7. Anti-seize spray shall be applied to the stopping plug manufactured from aluminium.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.2.7	LVD type requirements
1.2.8	Overloading of equipment (protection relays, etc.)
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

Updated drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
487	1 to 2	H	08/06/21	Exe/Exd Group I & Group II Stopping Plug

Current drawings which remain unaffected by this issue:

None

Drawings are common to Baseefa11ATEX0149X, BAS21UKEX0058X and IECEx BAS 11.0071X, and held on the latter.

20 Certificate History

Certificate No.	Date	Comments
Baseefa11ATEX0149X	26 August 2011	The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0:2009, EN 60079-1:2007, EN 60079-7:2007 and EN 60079-31:2009 is documented in Test Report No. GB/BAS/ExTR11.0165/00. Project File 11/0129c.
Baseefa11ATEX0149X/1	01 August 2013	To permit the reduction of the diameter of the optional sealing O-Ring on M16, M20 and M25 plugs, to improve retention. The associated test and assessment is recorded in Test Report Number GB/BAS/ExTR13.0164/00. Project File 13/0599.
Baseefa11ATEX0149X/2	05 September 2014	To permit an alternative design of the M20 and M25, 487 stopping plug, to allow for the external fitting of an optional suitably certified RFID transponder for equipment identification. The associated test and assessment is recorded in Test Report Number GB/BAS/ExTR14.0223/00. Project File 14/0532.
Baseefa11ATEX0149X/3	06 February 2015	To review the equipment against the updated requirements of EN 60079-0:2012, EN 60079-1:2014, EN 60079-7:2007 and EN 60079-31:2014 and the differences with respect the standards when the certificate was issued. The associated test and assessment is recorded in Test Report Number GB/BAS/ExTR15.0032/00. Project File 15/0101.

Certificate No.	Date	Comments
Baseefa11ATEX0149X/4	05 January 2017	To review the equipment against the updated requirements of EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-7:2015 and EN 60079-31:2014 in respect of differences from the standards to which the previous supplementary was issued. The associated test and assessment is recorded in Test Report Number GB/BAS/ExTR16.0322/00. Project File 16/0801.
Baseefa11ATEX0149X Issue 5	22 March 2017	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and permits a change in the internal screw thread size from M5 to a maximum of M5 for use with different size RFID screws. The associated test and assessment is recorded in Test Report Number GB/BAS/ExTR17.0095/00. Project File 17/0210.
Baseefa11ATEX0149X Issue 6	6 February 2020	This issue of the certificate is to allow the 487 stopping plug to be manufactured in an alternative aluminium alloy for the metric, NPT and NPSM thread forms. The associated test and assessment is recorded in Test Report Number GB/BAS/ExTR19.0284/00. Project File 18/0061.
Baseefa11ATEX0149X Issue 7	8 August 2022	Variation 7.1: This issue of the certificate confirms the current design meets the requirements of EN IEC 60079-0: 2018 and EN IEC 60079-7: 2015: +A1: 2018. Variation 7.2: Description updated. Variation 7.3: Marking modification to include associated UKEX information. The Ex marking code remains unchanged. This is documented in GB/BAS/ExTR22.0112/00.
For drawings applicable to each issue, see original of that issue.		