



1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa09ATEX0186X**

4 Equipment or Protective System: **AAG XXX Range of Cable Glands**

5 This certificate is held by: **Abtech Limited**

6 Address: **Sanderson Street, Lower Don Valley, Sheffield, S9 2UA**

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa, Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this 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 systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. GB/BAS/ExTR09.0126/00

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0: 2006, EN 60079-1: 2004, EN 60079-7: 2006, IEC 61241-0: 2004, IEC 61241-1: 2004
except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include the following :

⊕ II 2GD Ex d IIC Ex e II Ex tD A21 IP66 (- 60°C ≤ ta ≤ + 80°C)

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. 6376

Project File No. 09/0435

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.


Baseefa

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ

Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601
e-mail: info@baseefa.com web site: www.baseefa.com

Baseefa is a trading name of Baseefa Ltd

Registered in England No. 4305578. Registered address as above.


R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



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Schedule

14

Certificate Number Baseefa09ATEX0186X

15 Description of Equipment or Protective System

The AAG XXX RANGE OF CABLE GLANDS

The AAG Range of Cable Glands is intended for use with an effectively filled and circular, armoured or basket weave armoured, or braided (screened) cable and comprises the following components the metal parts of which can be manufactured in brass and may be nickel plated to suit the application:-

- a. An entry component, in the size range (M20 to M75)
- b. A displacement sealing ring
- c. A combined compression spigot and armour clamping cone
- d. An armour clamping ring for steel wire armour
- e. An armour clamping ring for basket weave steel wire armour or braided (screened cable)
- f. A middle nut
- g. An outer seal assembly (sleeve seal and support ring)
- h. A back nut

The XXX is used to define the size of gland e.g 20a or 25 etc.

Variation 0.1

Substitution of the M20 to M75 entry component with an entry component having an NPT equivalent in the range 1/2"NPT to 3"NPT.

Variation 0.2

Substitution of the M20 to M50 entry component with an entry having a Pg equivalent in the range Pg13.5 to Pg 42.

Variation 0.3

To allow the introduction of additional sizes of glands AAG-20/16, AAG-20b, AAG-80, AAG-90 and AAG-100 to the range.

16 Report Number

GB/BAS/ExTR09.0126/00

17 Special Conditions for Safe Use

1. These glands are suitable for use within an operating temperature range of -60°C to +80°C.
2. When the gland is used for increased safety or dust protection, the entry thread shall be suitably sealed, in accordance with EN 60079-14, to maintain the ingress protection rating of the associated enclosure
3. Glands for use with conduit, unarmoured or braided cables are only suitable for fixed installations, the cable for which must be effectively clamped to prevent pulling and twisting.
4. In all installations both clamping rings must be fitted. When used with armoured or braided cable the unused ring must be installed behind the used ring.



18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Issue	Date	Description
ABT20091	A	02/07/09	Certification Marking – AAG cable glands
Baseefa07ATEX0152X	--	18/07/07	DEX-A XXX Range of Cable Glands



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
Directive 94/9/EC

3 Supplementary EC - Type Examination Certificate Number: **Baseefa09ATEX0186X/1**

4 Equipment or Protective System: **AAG XXX Range of Cable Glands**

5 This certificate is held by: **Abtech Limited**

6 Address: **Sanderson Street, Lower Don Valley, Sheffield, S9 2UA**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa09ATEX0186X to apply to equipment or protective systems 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.

This supplementary certificate shall be held with the original certificate.

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **6376**

Project File No. **10/0453**

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

A handwritten signature in black ink, appearing to read "R S Sinclair".

Baseefa

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601
e-mail info@baseefa.com web site www.baseefa.com
Baseefa is a trading name of Baseefa Ltd
Registered in England No. 4305578. Registered address as above.

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



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Schedule

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Certificate Number Baseefa09ATEX0186X/1

15 **Description of the variation to the Equipment or Protective System**

Variation 1.1

An alternative armour clamping arrangement utilising single piece armour clamping rings, in two sizes, for either wire armoured cable (UW), or braided cables (UX). The alternative rings optionally replace the existing assembly using two rings together (i.e. one used to clamp and the other used as a spacer), in gland sizes 2016 to 75 (and equivalent).

Variation 1.2

Introduction of alternative sealing rings for gland sizes 80, 90 and 100 to increase the range of cable sizes that can be accommodated.

Variation 1.3

Use of stainless steel as an alternative material of manufacture.

Variation 1.4

Extension of the permitted service temperature range to +100°C.

16 **Report Number**

Baseefa Report GB/BAS/ExTR10.0149/00

17 **Special Conditions for Safe Use**

1. The permitted service temperature range is -60°C to +100°C

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 **Drawings and Documents**

Number	Sheet	Issue	Date	Description
ABT20091	---	C	30/06/10	Certification marking

Drawing held on IECEx BAS 09.0088X

1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 Supplementary EC - Type Examination Certificate Number: **Baseefa09ATEX0186X/2**

4 Equipment or Protective System: **AAG XXX Range of Cable Glands**

5 Is held by: **Abtech Limited**

6 Address: **Sanderson Street, Lower Don Valley, Sheffield, S9 2UA**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa09ATEX0186X** to apply to equipment or protective systems 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.

8 Item 9 of the original Certificate is replaced by “Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN60079-0: 2006 EN60079-1: 2004 EN60079-7: 2006 IEC 61241-0: 2004 IEC 61241-1: 2004

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

9 The marking of the equipment has changed from the original Certificate and shall include the following:

⊕ II 2GD Ex d IIC Ex e II Ex tD A21 IP66/67 (-60°C ≤ta ≤+100°C)

This certificate shall be held with the original certificate.

Baseefa Customer Reference No. **6376**

Project File No. **13/0306**

This document is issued by the Company subject to its General Conditions for Certification Services accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and the Supplementary Terms and Conditions accessible at <http://www.baseefa.com/terms-and-conditions.asp>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. It does not necessarily indicate that the equipment may be used in particular industries or circumstances. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, schedule included, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Baseefa Limited

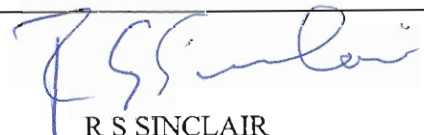
Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ

Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601

e-mail info@baseefa.com web site www.baseefa.com

Registered in England No. 4305578.

Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN



R S SINCLAIR
GENERAL MANAGER

On behalf of SGS Baseefa Limited

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Schedule

14

Certificate Number Baseefa09ATEX0186X/2

15 Description of the variation to the Equipment or Protective System

Variation 2.1

Alternative entry adaptor and middle nut with an external seal to form a AAG-XXXX-D range of cable glands.

Variation 2.2

The metallic parts of the cable gland may be manufactured in aluminium alloy A6061-T6.

Variation 2.3

To allow the introduction of an alternative inner seal range together with an increase in the armour clamping thickness of the UW and W clamping rings and relevant minor dimensional changes to the UX and X clamping rings and spigots to accommodate this change for glands sizes 2016, 20a 20b 20c and 32.

16 Report Number

Baseefa Certification Report GB/BAS/ExTR13.0161/00

17 Specific Conditions of Use

None additional to those listed previously

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

Number	Issue	Date	Description
ABT20091	D	19/09/13	Certification marking

Drawing held on IECEx BAS 09.0088X