



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 : **BAS01ATEX2078X**

4 Equipment or Protective System: **TYPE 501/453 UNIVERSAL CABLE GLAND**

5 Manufacturer: **HAWKE CABLE GLANDS LIMITED**

6 Address: **Ashton-under-Lyne, Lancashire, OL7 0NA**

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 The Electrical Equipment Certification Service, notified body number 600 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 N°


BASEEFA Certification Report No. 01(C)0271/2 dated 16 August 2001

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014: 1997 + Amds 1 & 2 EN 50018: 2000 EN 50019: 2000 EN 50281-1-1: 1998
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. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

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

 **II 2 GD EEx d IIC EEx e II IP66**

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

File No: EECS 0500/01/052

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances.



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I M CLEARE
DIRECTOR
24 August 2001



13 **Schedule**

14 **EC-TYPE EXAMINATION CERTIFICATE N° BAS01ATEX2078X**

15 **Description of Equipment or Protective System**

The **Type 501/453 Universal Cable Gland** may be manufactured in brass, aluminium or stainless steel and is intended for use with an effectively filled and circular armoured or braided cable. This gland may be produced in the size range Os to F, i.e. with an entry thread size in the range M16 to M75, or equivalent sizes in imperial conduit, Pg, BSPP, BSPT, NPT or NPSM threadforms. The Type 501/453 Universal Cable Gland comprises the following components:-

- a. An entry component
- b. A combined silicone inner seal, polymer support ring and metallic armour clamping cone.
- c. A reversible armour clamping ring.
- d. A middle nut.
- e. An outer seal assembly (sleeve seal and support ring).
- f. A back nut.
- g. An optional earth continuity device for use with metallic inner sheathed cables

16 **Report No.**

BASEEFA Certification Report No. 01(C)0271/2

17 **Special Conditions For Safe Use**

1. These glands are not suitable for use with Group IIC flameproof enclosures with a volume greater than 2000cc.
2. These glands are suitable for use within an operating temperature range of -60°C to +80°C.
3. When the gland is used for increased safety or dust protection, the entry thread shall be suitably sealed to maintain the ingress protection rating of the associated enclosure.
4. When used with braided cable, these glands are only suitable for fixed installations, the cable for which must be effectively clamped to prevent pulling and twisting.

18 **Essential Health and Safety Requirements**

Essential Health and Safety Requirements not covered by Standards listed at (9)		
Clause	Subject	Compliance
1.0.2	Analysis of possible operating faults	BASEEFA Report No. 01(C)0271/2
1.0.3	Special checking and maintenance conditions	No special requirements
1.2.2	Components for incorporation or replacement	BASEEFA Report No. 01(C)0271/2
1.2.5	Additional means of protection	Not applicable
1.2.7	Protection against other hazards	BASEEFA Report No. 01(C)0271/2
2.1.	Category 1	Not applicable
2.2.1	Category 2G	BASEEFA Report No. 01(C)0271/2



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EC-TYPE EXAMINATION CERTIFICATE N° BAS01ATEX2078X

Clause	Subject	Compliance
2.2.2	Category 2D	BASEEFA Report No. 01(C)0271/2
2.3.	Category 3	Not applicable
3.	Requirements for protective systems	Not applicable

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DRAWING

Number	Issue	Date	Description
501/453 UNIV	A	02/05/01	General Arrangement Type 501/453 Universal Cable Glands

The detail drawing for each individual gland part referred to on the above general arrangement drawing is certified under Component Certificate BAS01ATEX2060U and held on EECS 0500/01/054.

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BASEEFA List Keywords
2CABLEGL



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: **BAS01ATEX2078X/1**

4 Equipment or Protective System: **TYPE 501/453 UNIVERSAL CABLE GLAND**

5 Manufacturer: **Hawke International**

6 Address: **Oxford Street West, Ashton-under-Lyne, Lancashire, OL7 0NA**

7 This supplementary certificate extends EC - Type Examination Certificate No. **BAS01ATEX2078X** 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.

The original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. Baseefa (2001) Ltd., Notified Body Number 1180, is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate it has issued.

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

Baseefa Customer Reference No. **0500**

Project File No. **06/0092**

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa

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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.



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Schedule

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Certificate Number BAS01ATEX2078X/1

15 Description of the variation to the Equipment or Protective System

Variation 1.1

Increase in the cable sealing range permitted with size O, A and B glands.

16 Report Number

Baseefa Certification Report No. 06(C)0092 held with BAS01ATEX2072X

17 Special Conditions for Safe Use

As 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
501/453 UNIV	D	20/01/06	General Arrangement, 501/453 UNIV Cable Gland



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: **BAS01ATEX2078X/2**

4 Equipment or Protective System: **TYPE 501/453 UNIVERSAL CABLE GLAND**

5 Manufacturer: **Hawke International**

6 Address: **Oxford Street West, Ashton-under-Lyne, Lancashire, OL7 0NA**

7 This supplementary certificate extends EC - Type Examination Certificate No. **BAS01ATEX2078X** 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.

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

Baseefa Customer Reference No. 0500

Project File No. 06/0402

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. 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".

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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.



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Schedule

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Certificate Number BAS01ATEX2078X/2

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

Variation 2.1

Modified earth continuity ring to accommodate greater diameter metal sheathed cables.

Variation 2.2

Alternative diaphragm seal assembly for gland sizes Os to F.

Variation 2.3

Alternative entry component for sizes Os to B, incorporating a seal anti-rotation broach (for use with Variation 2.2 above)

16 **Report Number**

Report No. UK/BAS/04/0259/01

17 **Special Conditions for Safe Use**

As 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
501/453 Universal	E	02/05/06	General Arrangement, 501/453 Universal Cable Gland