



## EC - TYPE EXAMINATION CERTIFICATE

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

- 3 EC - Type Examination Certificate Number: **Baseefa06ATEX0056X**
- 4 Equipment or Protective System: **A Range of Cable Glands with Compression Type Seals**
- 5 Manufacturer: **Hawke International**
- 6 Address: **Oxford Street West, 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 Baseefa (2001) Ltd., 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/ExTR 06.0011/00**
- 9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN60079-0: 2004, EN60079-1: 2004, EN60079-7: 2003 + Amendment 1, IEC61241-0: 2004, IEC61241-1: 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 [or +100°C see Special Conditions])**

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Baseefa Customer Reference No. **0500**

Project File No. **04/0381**

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.

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Baseefa is a trading name of Baseefa (2001) Ltd  
Registered in England No. 4305578 at the above address

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

13

## Schedule

14

Certificate Number Baseefa06ATEX0056X

### 15 Description of Equipment or Protective System

Each of the following gland types may be manufactured in brass, stainless steel or aluminium and may be supplied with agreed alternative entry thread forms.

#### Variant 0.1 TYPE 501/421 CABLE GLAND

The Type 501/421 Cable Gland is intended for use with an effectively filled and circular unarmoured cable and comprises the following components :-

- a. An entry component, in the size range Os to J (M16 to M100)
- b. A compressible sealing ring
- c. A compression spigot
- d. A back nut
- e. An optional earth continuity device for use with metallic sheathed cables

#### Variant 0.1.1 Type 501/421 Size 2K Variant

The Type 501/421 'Size 2K' gland comprises the following components only :-

- a. A dedicated entry component (M16)
- b. A compressible sealing ring
- c. A nylon skid washer
- d. A threaded compression spigot

#### Variant 0.2 TYPE 501/423 CABLE GLAND

The Type 501/423 Cable Gland is intended for use with an effectively filled and circular unarmoured cable and comprises the following components :-

- a. An entry component, in the size range Os to J (M16 to M100)
- b. Two compressible sealing rings
- c. Two compression spigots
- d. A middle nut
- e. A back nut
- f. An optional earth continuity device for use with metallic sheathed cables

#### Variant 0.3 TYPE 501/453 RAC CABLE GLAND

The Type 501/453 RAC Cable Gland is intended for use with an effectively filled and circular armoured or braided cable and comprises the following components :-

- a. An entry component, in the size range Os to F (M16 to M75)
- b. A compressible sealing ring
- c. A combined compression spigot and armour clamping cone
- d. A reversible armour clamping ring
- e. A middle nut
- f. An outer seal assembly (sleeve seal and support ring)
- g. A back nut
- h. An optional earth continuity device for use with metallic inner sheathed cables

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**Variant 0.4 TYPE 501/453 CABLE GLAND**

The Type 501/453 Cable Gland is intended for use with an effectively filled and circular armoured or braided cable and comprises the following components :-

- a. An entry component, in the size range Os to J (M16 to M100)
- b. A compressible sealing ring
- c. A combined compression spigot and armour clamping cone
- d. A dedicated armour, or braid, clamping ring
- e. A middle nut
- f. An outer seal assembly (sleeve seal and support ring [Os-F] or compression ring [G-J])
- g. A back nut
- h. An optional earth continuity device for use with metallic inner sheathed cables

**Variant 0.5 TYPE PSG 553 RAC CABLE GLAND**

The Type PSG 553 RAC Cable Gland is intended for use with a circular armoured or braided cable of unspecified construction, and comprises the following components :-

- a. An entry component, in the size range A to C (M20 to M32)
- b. A compressible seal, punched to accept a number of individual conductors
- c. A combined compression spigot and armour clamping cone
- d. A reversible armour clamping ring
- e. A middle nut
- f. An outer seal assembly (sleeve seal and support ring)
- g. A back nut

**Variant 0.6 TYPE PSG 553 CABLE GLAND**

The Type PSG 553 Cable Gland is intended for use with a circular armoured or braided cable of unspecified construction, and comprises the following components :-

- a. An entry component, in the size range A to C (M20 to M32)
- b. A compressible seal, punched to accept a number of individual conductors
- c. A combined compression spigot and armour clamping cone
- d. A dedicated armour, or braid, clamping ring
- e. A middle nut
- f. An outer seal assembly (sleeve seal and support ring)
- g. A back nut

**Variant 0.7 TYPE 501/414 CONDUIT STOPPING GLAND**

The Type 501/414 Conduit Stopping Gland is intended for use with an effectively filled and circular unarmoured cable enclosed within a conduit and comprises the following components :-

- a. An entry component, in the size range A to F (M20 to M75)
- b. A compressible sealing ring
- c. A compression assembly comprising a compression spigot with a female thread at the rear and integral back nut

**Variant 0.8 TYPE SB474 CONDUIT STOPPING GLAND**

The Type SB474 Conduit Stopping Gland is intended for use with a number of circular conductors enclosed within a conduit and comprises the following components :-

- a. An entry component, in the size range A to C (M20 to M32)
- b. A compressible seal, punched to accept a number of individual conductors
- c. A compression assembly comprising a compression spigot with a female thread at the rear and integral back nut

**Variant 0.9 TYPE 501/452 RAC CABLE GLAND**

The Type 501/452 RAC Cable Gland is intended for use with an effectively filled and circular armoured or braided cable and comprises the following components :-

- a. An entry component, in the size range Os to F (M16 to M75)
- b. A compressible sealing ring
- c. A combined compression spigot and armour clamping cone
- d. A reversible armour clamping ring
- e. A back nut
- f. An optional earth continuity device for use with metallic inner sheathed cables

**16 Report Number**

Baseefa Certification Report GB/BAS/ExTR 06.0011/00

**17 Special Conditions for Safe Use**

1. These glands are suitable for use within an operating temperature range of -60°C to +80°C, or +100°C for the gland types not using the iris type outer seal assembly.
2. When the gland is used for increased safety or dust protection, the entry thread shall be suitably sealed (in accordance with IEC 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.

**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                                |
|----------------------------|-------|----------|--|
| 501/421                    | F     | 26/11/04 | G. A., Type 501/421 Cable Gland            |
| 501/421 (G to J)           | F     | 26/11/04 | G. A., Type 501/421 Cable Gland (Oversize) |
| 501/423                    | F     | 26/11/04 | G. A., Type 501/423 Cable Gland            |
| 501/423 (G to J)           | F     | 26/11/04 | G. A., Type 501/423 Cable Gland (Oversize) |
| 501/453 RAC                | F     | 26/11/04 | G. A., Type 501/453 RAC Cable Gland        |
| 501/453 Dedicated          | F     | 26/11/04 | G. A., Type 501/453 Cable Gland            |
| 501/453 Dedicated (G to J) | F     | 26/11/04 | G. A., Type 501/453 Cable Gland (Oversize) |
| PSG 553 RAC                | D     | 03/10/05 | G. A., Type PSG 553 RAC Cable Gland        |
| PSG 553 Dedicated          | D     | 03/10/05 | G. A., Type PSG 553 Cable Gland            |



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| Number      | Issue | Date     | Description                               |
|-------------|-------|----------|---|
| 501/414     | F     | 26/11/05 | G. A., Type 501/414 Conduit Stopper Gland |
| SB 474      | F     | 03/10/05 | G. A., Type SB474 Conduit Stopper Box     |
| 501/452 RAC | F     | 26/11/04 | G. A., Type 501/452 RAC Cable Gland       |

These drawings are common to BAS IECEx 05.0013X and are controlled on and held with GB/BAS/ExTR 06.0011/00



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: **Baseefa06ATEX0056X/1**

4 Equipment or Protective System: **A Range of Cable Glands with Compression Type Seals**

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. **Baseefa06ATEX0056X** 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.

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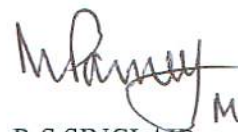
Baseefa Customer Reference No. 0500

Project File No. 07/0054

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## Schedule

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Certificate Number Baseefa06ATEX0056X/1

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### Description of the variation to the Equipment or Protective System

#### Variation 1.1

To allow the use of an alternative entry component and rear compression nut on the Type 501/421 Cable Gland intended for use with an effectively filled and circular unarmoured cable and comprises the following components:

- a. An alternative entry component, in the size range Os to F (M16 to M75)
- b. A compressible sealing ring
- c. A compression spigot
- d. An alternative rear compression nut in size range Os to F
- e. An optional earth continuity device for use with metallic sheathed cables.

The alternative rear compression nut can be readily interchanged with the existing certified components.

#### Variation 1.2

To allow the use of an alternative entry component, body nut and rear compression nut on the Type 501/423 Cable Gland intended for use with an effectively filled and circular unarmoured cable and comprises the following components:

- a. An alternative entry component, in the size range Os to F (M16 to M75)
- b. Two compressible sealing rings
- c. Two compression spigots
- d. An alternative body nut in size range Os to F
- e. An alternative rear compression nut in size range Os to F
- f. An optional earth continuity device for use with metallic sheathed cables.

The alternative body nut and rear compression nut can be readily interchanged with the existing certified components.

#### Variation 1.3

To allow the use of an alternative entry component, and alternative compression spigot (body) and integral rear compression nut on the Type 501/414 Conduit Stopping Gland intended for use with an effectively filled and circular unarmoured cable enclosed within a conduit and comprises the following components:

- a. An alternative entry component, in the size range O to F (M16 to M75)
- b. A compressible sealing ring
- c. An alternative compression assembly comprising a compression spigot with a female thread at the rear (body) and integral alternative rear compression nut.

The alternative compression spigot and integral rear compression nut can be readily interchanged with the existing certified components.

#### Variation 1.4

To allow the use of an alternative entry component, and alternative compression spigot and integral rear compression nut on the Type SB474 Conduit Stopping Gland is intended for use with a number of circular conductors enclosed within a conduit and comprises the following components:

- a. An alternative entry component, in the size range A to C (M20 to M32)
- b. A compressible seal, punched to accept a number of individual conductors



- c. An alternative compression assembly comprising a compression spigot with a female thread at the rear (body) and integral back nut.

The alternative compression spigot (body) and integral rear compression nut can be readily interchanged with the existing certified components.

**16 Report Number**

Baseefa Certification Report IECEx GB/BAS/ExTR 07.0021/00

**17 Special Conditions for Safe 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                               |
|---------|-------|----------|---|
| 501/421 | G     | 22/01/07 | G. A., Type 501/421 Cable Gland           |
| 501/423 | G     | 22/01/07 | G. A., Type 501/423 Cable Gland           |
| 501/414 | G     | 22/01/07 | G. A., Type 501/414 Conduit Stopper Gland |
| SB474   | G     | 22/01/07 | G. A., Type SB474 Conduit Stopper Box     |

These Drawings Rare common to IECEx BAS 06.0013X and are held with that certificate





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: **Baseefa06ATEX0056X/2**
- 4 Equipment or Protective System: **A Range of Cable Glands with Compression Type Seals**
- 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. **Baseefa06ATEX0056X** 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.

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Baseefa Customer Reference No. **0500**

Project File No. **07/0285**

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Re-issued 19<sup>th</sup> February 2007 to replace original



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## Schedule

14

Certificate Number Baseefa06ATEX0056X/2

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

### Variation 2.1

To allow the introduction of a Type 8430-501/453 J M100 cable gland for use with an effectively filled and circular armoured or braided cable and comprising the following components.

- a. An entry component
- b. A compressible sealing ring
- c. A compression spigot
- d. A middle nut
- e. A backnut and rear seal arrangement.

16 **Report Number**

IECEX GB/BAS/ExTR 07.0057/00

17 **Special Conditions for Safe Use**

This gland may only be used for fixed cable installations of Group II equipment. The user shall ensure that the cable is effectively clamped to prevent pulling and twisting.

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                          |
|---------------------------|-------|---------|--------------------------------------|
| 8430-501/453 Sheets 1 & 2 | A     | 23/3/07 | G. A., Type 8430-501/453 Cable Gland |

These drawings are common to and held with IECEX BAS 06.0013X.



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: **Baseefa06ATEX0056X/3**

4 Equipment or Protective System: **A Range of Cable Glands with Compression Seals**

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. Baseefa06ATEX0056X 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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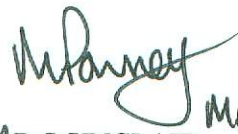
Baseefa Customer Reference No. 0500

Project File No. 07/0770

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DIRECTOR  
On behalf of  
Baseefa



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## Schedule

14

Certificate Number Baseefa06ATEX0056X/3

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

### Variation 3.1

TYPE 501/421 CABLE GLAND

To allow the use of a modified entry component 3080 and rear compression nut 3077 on the Type 501/421 2K Cable Gland intended for use with an effectively filled and circular unarmoured cable.

### Variation 3.2

TYPE 501/453 DEDICATED and PSG 553 DEDICATED GLANDS Sizes O to F

To allow the introduction of alternative dedicated armour clamping rings 3259 and 3260 together with the use of alternative middle nut 3257 and entry component 3250.

### Variation 3.3

TYPE 501/453 RAC and PSG 553 RAC GLANDS

To allow the use of a modified 3041 RAC clamping ring on the gland sizes Os/O and A, also to allow the use of the alternative middle nut 3257 and entry component 3250 on glands sizes Os to F.

### Variation 3.4

TYPE 501/452 RAC CABLE GLAND

To allow the use of a modified 3041 RAC clamping ring on the gland sizes Os/O and A, also to allow the use of the alternative back nut 3258 and entry component 3250 on glands sizes Os to F.

16 **Report Number**

Baseefa Certification Report GB/BAS/ExTR008.0173/00

17 **Special Conditions for Safe 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                            |
|-------------------|-------|----------|--|
| PSG 553 Dedicated | G     | 14/09/07 | G A Type PSG 553 Dedicated Cable Gland |
| 501/453 Dedicated | G     | 04/07/08 | G A Type 501/453 Dedicated Gland       |
| PSG 553           | G     | 14/09/07 | G A Type PSG 553 RAC Cable Gland       |
| 501/453 RAC       | G     | 14/09/07 | G A Type 501/453 RAC Cable Gland       |
| 501/452 RAC       | G     | 14/09/07 | G A Type 501/452 RAC Cable Gland       |

These drawings are common to IECEx BAS 06.0013X and are held with that certificate



**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: Baseefa06ATEX0056X/4**

**4 Equipment or Protective System: A Range of Cable Glands with Compression Seals**

**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. Baseefa06ATEX0056X 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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Baseefa Customer Reference No. **0500**

Project File No. **09/0174**

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DIRECTOR  
On behalf of  
Baseefa



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## Schedule

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Certificate Number Baseefa06ATEX0056X/4

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### Description of the variation to the Equipment or Protective System

#### Variation 4.1

To introduce an alternative iris type back seal either singly or in conjunction with a reversible clamping ring (RAC) to the gland type 501/453 Oversize Dedicated gland for sizes G, H and J.

Alternative parts, iris back seal only.

- a) 3034 Back nut
- b) 3035 Back nut seal
- c) 3036 Back nut clamp
- d) 3272 Middle nut

Alternative parts, iris back seal in conjunction an RAC ring.

- a) 3047 Spigot
- b) 3055 Middle nut
- c) 3041 RAC ring
- d) 3034 Back Nut
- e) 3035 Back nut seal
- f) 3036 Back nut clamp

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### Report Number

Baseefa Certification Report GB/BAS/ExTR 09.0165/00 held with IECEx BAS 06.0013X

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### Special Conditions for Safe Use

None additional to those listed previously

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### 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 Oversize | G     | 29/05/09 | G. A., Type 501/453 Oversize Clamping Gland |

This drawing is common to, and held with, IECEx BAS 06.0013X