



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX BAS 06.0015X** Issue No.: **1**

Status: **Current**

Date of Issue: **2007-03-15** Page **1** of **4**

Applicant: **Hawke International**  
A Division of Hubbell Ltd.  
A member of the Hubbell Group of  
Companies  
Oxford Street West, Ashton-under-Lyne  
Lancashire, OL7 0NA  
United Kingdom

Electrical Apparatus: **A Range of Barrier Type Cable Glands,**  
*Optional accessory:*

Type of Protection: **Ex d, Ex e, Ex tD**

Marking: **Ex d IIC Ex e II Ex tD A21 IP66**  
**(- 60°C ≤ ta ≤ + 80°C)**

Approved for issue on behalf of the IECEx  
Certification Body:

*AP* R S Sinclair

Position:

Managing Director

Signature:  
(for printed version)

*M. Payne* M. PAYNE  
15/3/07

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**Baseefa (2001) Ltd.**

Rockhead Business Park  
Staden Lane  
Buxton  
Derbyshire  
SK17 9RZ  
United Kingdom





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Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacture's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 : 2003 Edition: 5	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'
IEC 60079-7 : 2001 Edition: 3	Electrical apparatus for explosive gas atmospheres - Part 7: Increased safety 'e'
IEC 61241-0 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
IEC 61241-1 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "ID"

*This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

GB/BAS/ExTR06.0013/00

Quality Assessment Report:

GB/BAS/QAR06.0061/00



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

A range of barrier type cable glands manufactured in brass, stainless steel or aluminium. Glands may be supplied with metric or approved non-metric equivalent thread forms. The cable retention method is specific to each gland type designation – see annex for detail.

### CONDITIONS OF CERTIFICATION: YES as shown below:

1. These glands are suitable for use within an operating temperature range of  $-60^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$ .
2. When the gland is used for increased safety, the entry thread shall be suitably sealed to maintain the ingress protection rating of the associated enclosure



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

### Variation 1.1

To allow the use of an alternative entry component and rear compression nut on the Type ICG 623 Cable Gland intended for use with unarmoured cable and comprises the following components:

- a. An alternative entry component, in the size range Os to F (M16 to M75)
- b. A compound pot
- c. A spigot
- d. An alternative body nut sizes Os to F
- e. An alternative rear compression nut in size range Os to F.

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, and alternative spigot (body CSB) and integral rear compression nut on the Type CSB656 Conduit Stopping Gland intended for use with 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 compound pot
- c. An alternative spigot with a female thread at the rear (body CSB) and integral alternative rear compression nut

In this form the gland is designated a CSB 656N Conduit Stopping Gland.

### Special Conditions for Safe Use

None additional to those listed previously

ExTR: GB/BAS/07.0019/00

File Reference: 07/0055

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 ICG 623 CABLE GLAND**

The Type ICG 623 Cable Gland is intended for use with a circular unarmoured cable and comprises the following components:-

- a. An entry component, in the size range Os to F (M20 to M75)
- b. An elastomeric ferrule
- c. An epoxy barrier compound
- d. A compression spigot
- e. A middle nut
- f. A sealing ring
- g. A second compression spigot
- h. A back nut

**Variant 0.2 TYPE ICG 653 UNIV CABLE GLAND**

The Type ICG 653 Universal Cable Gland is intended for use with a circular armoured or braided cable and comprises the following components:-

- a. An entry component, in the size range Os to F (M20 to M75)
- b. An elastomeric ferrule
- c. An epoxy barrier compound
- d. A combined compression spigot and armour clamping cone
- e. A reversible armour clamping ring
- f. A middle nut
- g. An outer seal assembly (sleeve seal and support ring)
- h. A back nut
- i. An optional earth continuity device for use with metallic sheathed cables

**Variant 0.3 TYPE ICG 653 CABLE GLAND**

The Type ICG 653 Cable Gland is intended for use with a 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. An elastomeric ferrule
- c. An epoxy barrier compound
- d. A combined compression spigot and armour clamping cone
- e. A dedicated armour, or braid, clamping ring
- f. A middle nut
- g. An outer seal assembly (sleeve seal and support ring)
- h. A back nut
- i. An optional earth continuity device for use with metallic sheathed cables

**Variant 0.4 TYPE CSB 656 COMPOUND STOPPER GLAND**

The Type CSB 656 Compound Stopper Gland is intended for use with a number of conductors enclosed within a conduit, or retained by a separate cable gland, and comprises the following components:-

- a. An entry component, in the size range A to F (M20 to M75)
- b. An elastomeric ferrule
- c. An epoxy barrier compound
- d. A compression assembly comprising a compression spigot with a female thread at the rear
- e. A dedicated back nut

**Variant 0.5 TYPE ICG 659 FLEXIBLE CONDUIT CABLE GLAND**

The Type ICG 653 Cable Gland is intended for use with a number of conductors enclosed within a flexible conduit and comprises the following components:-

- a. An entry component, in the size range M20 to M63
- b. An elastomeric ferrule
- c. An epoxy barrier compound
- d. A combined compression spigot and conduit grounding ferrule
- e. An outer clamping ring cup
- f. An elastomeric clamping ring
- g. A back nut

**Variant 0.6 TYPE ICG 611 CABLE GLAND**

The Type ICG 611 Cable Gland is intended for use with a circular metalclad jacketed cable and comprises the following components:-

- a. An entry component, in the size range A to F (M20 to M75)
- b. An elastomeric ferrule
- c. An epoxy barrier compound
- d. A compression spigot comprising:-
  - i. A locating spigot
  - ii. A collapsible metallic cladding clamp
  - iii. A compression ring
- e. A middle nut
- f. An outer seal assembly (sleeve seal and support ring)
- h. A back nut