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

Certificate No.: **IECEx BAS 06.0013X** Issue No.: **0**

Status: **Current**

Date of Issue: **2006-08-07** Page **1** of **3**

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 Compression 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 [or +100°C see Special Conditions])

Approved for issue on behalf of the IECEx Certification Body: R S Sinclair

Position: Managing Director

Signature:
(for printed version)

Date: 7-8-06

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.

Certificate issued by:

Baseefa (2001) Ltd.
Rockhead Business Park
Staden Lane
Buxton
Derbyshire
SK17 9RZ
United Kingdom

Baseefa

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Lancashire
OL7 0NA
United Kingdom

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'rs 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 "tD"

*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/ExTR06.0011/00

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 compression type cable glands manufactured in brass, stainless steel or aluminium. The glands may be supplied with metric or specified non-metric equivalent thread forms. These glands are intended for use with effectively filled circular cables. The cable type and/or cable protection/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°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.

Annexe: IECEx BAS 06.0013x.pdf

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Each of the following gland types may be manufactured in brass, stainless steel or aluminium and may be supplied with specified 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

Variant 0.4 TYPE 501/463 CABLE GLAND

The Type 501/463 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