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 CML 19.0045X

Issue No: 0

Certificate history:
Issue No. 0 (2019-06-04)

Status: **Current**

Date of Issue: **2019-06-04**

Applicant: **Hawke International (A Division of Hubbell Limited) (A member of the Hubbell group of Companies)**
Oxford Street West, Ashton under Lyne OL7 0NA
United Kingdom

Equipment: **A Range of Cable Glands with Compression Seals**
Optional accessory:

Type of Protection: **Flameproof, Increased Safety, Dust**

Marking:

Ex db IIC Gb

Ex eb IIC Gb

Ex tb IIIC Db

IP 66/67

-60°C to 80°C or 100°C – See condition of use for temperature range.

Approved for issue on behalf of the IECEx Certification Body: A C Smith

Position: Technical Operations Director

Signature:
(for printed version)

Date: 2019-06-04

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:

Certification Management Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom

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Manufacturer: **Hawke International (A Division of Hubbell Limited) (A member of the Hubbell group of Companies)**
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United Kingdom

Additional 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 manufacturer'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 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 : 2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*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/CML/ExTR19.0096/00

Quality Assessment Report:

GB/BAS/QAR06.0061/07

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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.

Refer to Certification Annex for full description.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Except for PSG glands, all glands are suitable for use within an operating temperature range of -60°C to +100°C. The PSG range of glands are limited to an operating temperature range of -60°C to +80°C.
2. When the glands are 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. Not applicable when Hawke IP 66/67 seal is used.
3. Except for the 501/421R glands, all 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. The type 8430-501/453 J M100 gland with components as detailed in design option 5, 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.
5. 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 (does not apply when fitted with rear clamping device).

Annex:

Certificate Annex IECEx CML 19.0045X Issue 0.pdf

Annexe to:	IECEx CML 19.0045X Issue 0
Applicant:	Hawke International (A Division of Hubbell Limited) (A member of the Hubbell group of Companies)
Apparatus:	A Range of Cable Glands with Compression Seals

Description:

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.

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

The Type PSG 421 Cable Gland is intended for use with an unfilled circular cable or individual circular cores and comprises the following components: -

a) An entry component in the size range Os to C (M20 to M32)
b) A compressible sealing ring
c) A compression spigot
d) A back nut

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

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

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 rru1ge Os to F (M16 to M75)
b) A compressible sealing ring
c) A comb ir1ed compression spigot and am1our clamping cone
d) A reversible armour clamping ring
e) A middle nut
f) An outer seal assembly (sleeve sea l and support ring)

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g) A back nut
h) An optional earth continuity de vice for use with metallic inner sheathed cables

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 sea l and support ring)
g) A back nut

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

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

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

Design option

1. The use of a 3M cold Shrink tubing to be fitted to the outer sheath of specific non-circular cables as specified in the drawing 320000, and fitted into 'Os', 'O' and 'A' sizes of the 501/453 cable glands. To ensure that the IP sealing arrangement utilising the cable shrink tube assembly does not affect the assigned IP rating of the glands. The selection of the relevant cable gland to meet the protection concept for the cable and the enclosure it is fitted on to as detailed in EN 60079-1 4:2014 remain un-affected.

Conditions of Manufacture:

None