



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEX CML 19.0045X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 3	Issue 2 (2022-03-31) Issue 1 (2021-09-28) Issue 0 (2019-06-04)
Date of Issue:	2023-08-23		
Applicant:	Hawke International A Division of Hubbell Limited A Member of the Hubbell Group of Companies Oxford Street West Ashton-under-Lyne Lancashire OL7 0NA United Kingdom		
Equipment:	A Range of Cable Glands with Compression Seals 501/421; 501/421 "Size 2K"; 501/423; 501/453 RAC; PSG 553 RAC; 501/414; SB474		
Optional accessory:			
Type of Protection:	Flameproof Ex "db", Increased Safety Ex "eb" and Dust Protection by Enclosure Ex "tb"		
Marking:	Ex db IIC Gb Ex eb IIC Gb Ex tb IIIC Db IP 66/67/X8-10m/24h See conditions of use for service temperature range		

Approved for issue on behalf of the IECEx
Certification Body:

L A Brisk

Position:

Assistant Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

23 Aug 2023

1. This certificate and schedule may only be reproduced in full.
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Certificate issued by:

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United Kingdom





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Manufacturer: **Hawke International**
A Division of Hubbell Limited
A Member of the Hubbell Group of Companies
Oxford Street West
Ashton-under-Lyne, Lancashire, OL7 0NA
United Kingdom

Manufacturing locations: **Hawke International**
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Oxford Street West
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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 equipment 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](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with 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 Reports:

[GB/CML/ExTR19.0096/00](#)
[GB/CML/ExTR23.0191/00](#)

[GB/CML/ExTR21.0018/00](#)

[GB/CML/ExTR21.0314/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0061/10](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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

Refer to Certificate Annex for full product description.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Certificate Annex for list of specific conditions of use.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1

This issue introduces the following changes:

1. Update GA drawings.
2. Add accessory optional item GMC 'Gland Mounted Clamp'.
3. Clarify the ingress protection, IP
4. To review and update the cable glands against the latest standard.
5. To include the 501/453 RAC type cable Gland.
6. To permit the update to gland sizes.
7. Update the marking.
8. To revise the equipment title.
9. To revise the product description.
10. To revise the specific conditions of use.

Issue 2

This issue introduces the following changes and it is applicable to Type PSG 553 RAC Cable Gland and Type SB474 Conduit Stopping Gland.

1. To introduce a new seal design for PSG/553/RAC, sizes Os to C and SB 474, sizes O to C; as a result the product description was amended.
2. To introduce a new compressible seal which has an increased service temperature of -60°C to +100°C; to reflect this modification the product description and Specific Conditions of Use were updated.
3. To permit minor editorial updates to the Product Description.
4. To permit changes to the Specific Conditions of Use.
5. To remove cable gland types 501/452 RAC and PSG 421; as a result, the product description was amended.

Issue 3

This issue introduces the following changes:

1. To modify the core diameter range on sizes O/A/B/C and B-ALT of the PSG 553 RAC and SB474 gland types and modify certification documentation.
2. To review and update the equipment against the latest requirement of IEC 60079-31:2022 Ed.3.

Annex:

[Certificate Annex IECEX CML 19.0045X Iss 3.pdf](#)

Annexe to: IECEx CML 19.0045X, Issue 3

Apparatus: A Range of Cable Glands with Compression Seals
501/421; 501/421 "Size 2K"; 501/423; 501/453 RAC; PSG 553
RAC; 501/414; SB474

Applicant: Hawke International (A Division of Hubbell Limited) (A member of
the Hubbell group of Companies)



Description

Each of the following gland types may be manufactured in brass, nickel plated 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 cables and comprises the following components: -

- a) An entry component in the size range Os to J
- 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 501/421 'Size 2K' Gland comprises the following components only: -

- a) A dedicated entry component
- 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 effectively filled and circular unarmoured cables and comprises the following components: -

- a) An entry component, in the size range Os to J
- 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 armoured, unarmoured, or braided cable and comprises the following components:

- a. An entry component, in the size range Os to J
- 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 cage)
- g. A back nut
- h. An optional earth continuity device for use with metallic inner sheathed cables



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

- a) An entry component in the size range Os to C
- b) A compressible seal designed 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 cage)
- 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 Os to F
- 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 O to C
- b) A compressible seal designed 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.

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 utilizing 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 60079-14 remain unaffected.
2. The gland assemblies as described above are rated for ingress protection IP66 and 67.
3. Cable glands may be fitted with an optional external clamp or a second accessory option type Hawke Gland Mounted Clamp (GMC).
4. Where marked IIC or IIIC, the equipment can also be marked for gas groups IIA or IIB and for dust groups IIIA or IIIB



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Conditions of Manufacture

None

Specific Conditions of Use

The following conditions relate to safe installation and/or use of the equipment.

- i. The PSG/553/RAC and SB 474 cables glands are limited to an operating temperature range of -60°C to $+80^{\circ}\text{C}$, unless marked "P PSG/553/RAC" and "P SB 474" respectively. In these cases, they are suitable for use with an operating temperature range of -60°C to $+100^{\circ}\text{C}$. All other cable gland types are suitable for use with an operating temperature range of -60°C to $+100^{\circ}\text{C}$.
- ii. 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.
- iii. 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 or Hawke Gland Mounted Clamp (GMC)).

Components used which are covered by Ex Certificates issued to older editions of Standards

None



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