



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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Certificate No.:	IECEX CML 21.0012X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 5	Issue 4 (2024-11-19)
Date of Issue:	2025-05-29		Issue 3 (2024-03-20)
Applicant:	Hubbell Limited t/a Hawke International Ashton Road Bredbury Park Industrial Estate Bredbury Stockport SK6 2QN United Kingdom		Issue 2 (2023-05-25)
Equipment:	Ranges of Compression Seal, Diaphragm Seal, Hybrid and Barrier Cable Glands		Issue 1 (2022-03-31)
Optional accessory:			Issue 0 (2021-09-29)
Type of Protection:	Restricted Breathing Ex "nR"		
Marking:	Ex nR IIC Gc		
	See conditions of use and/or Product Description 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)

29 May 2025

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Manufacturer: **Hubbell Limited t/a Hawke International**
Ashton Road
Bredbury Park Industrial Estate
Bredbury
Stockport SK6 2QN
United Kingdom

Manufacturing locations: **Hubbell Limited t/a Hawke International**
Ashton Road
Bredbury Park Industrial Estate
Bredbury
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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 60079-15:2017](#) Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:5.0

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/ExTR21.0018/00](#)
[GB/CML/ExTR24.0032/00](#)

[GB/CML/ExTR21.0316/00](#)
[GB/CML/ExTR24.0083/00](#)

[GB/CML/ExTR23.0002/00](#)
[GB/CML/ExTR24.0240/00](#)

Quality Assessment Report:

[GB/SGS/QAR24.0002/01](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The ranges of cable glands are designed in three versions: compression seal, barrier seal and diaphragm seal. Hybrid configurations of these glands are also described.

Refer to certificate annex for full product description.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to certificate annex for specific conditions of use



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1

This Issue introduced the following changes (and 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 2

This Issue introduced the following changes:

1. To introduce the APEX Range of Cable Glands to the certificate.
2. To permit minor editorial updates to the Product Description.
3. To permit changes to the Specific Conditions of Use.

Issue 3

This Issue introduced the following changes:

1. The introduction of the APEX A2e range cable glands.
2. The introduction of the APEX 413 range of cable glands
3. The introduction of the APEX 423 range of cable glands
4. To extend the cable acceptance range for the E1F* using an alternative seal design for sizes A-D.
5. To recognise an editorial change to the product description.
6. To recognise an editorial update to the Specific Condition of Use.

Issue 4

This Issue introduced the following change:

1. To recognize a change to the applicant's and manufacturer's name and address.

Issue 5

This Issue introduced the following change:

1. The introduction of the modification to size 'Os' of APEX E1F* and APEX C*e cable glands middle nut, back nut and outer sheath seal.

Annex:

[Certificate Annex IECEx CML 21.0012X Issue 5.pdf](#)

Annexe to: IECEx CML 21.0012X Issue 5
Apparatus: Ranges of Compression Seal, Diaphragm Seal, Hybrid,
and Barrier Cable Glands
Applicant: Hubbell Limited t/a Hawke International



Description

The ranges of cable glands are designed in three versions: compression seal, barrier seal and diaphragm seal. Hybrid configurations of these glands are also described.

All cable glands within the ranges are manufactured in brass, nickel plated brass, stainless steel, or aluminium (except APEX Range of Cable Glands).

Both barrier and diaphragm seal type glands internal parts marked with an asterisk (*) in the description below are interchangeable with respect to the type of application. When parts are interchanged, these assemblies may be dual marked with both product types on the stamp band. The “Deluge Boot” colour indicates the internal component that is used, the ICG/653/UNIV being indicated by a red deluge boot.

Cable glands may be fitted with an optional external clamp or a Hawke Gland Mounted Clamp (GMC) accessory. When fitted, no additional clamping is required on the barrier or diaphragm sealed glands. This accessory is not applicable to the APEX 413 cable gland.

Items in *italic* are optional and may be omitted from the cable gland dependent on the application.

Hybrid cable glands are available for the gland types ICG/653/UNIV, 501/453/RAC and 501/453/UNIV. These types are fitted with the middle nut and back nut components of any smaller trade size compared to the entry. Glands may combine entries and seals with small armour clamping rings and back nut seals. Hybrid gland marking to include second size reference with no spaces e.g. for example C2 to C hybrid size reference would be C2C.

The use of Hawke IP sealing washers may be considered a suitable sealing method to maintain IP rating to the enclosure and will maintain the service temperature (see conditions of use).

Where marked IIC or IIIC, the equipment can also be marked for gas groups IIA or IIB and for dust groups IIIA or IIIB.

Type 501/453/UNIV Cable Gland

501/453/UNIV cable gland is a diaphragm seal cable gland the glands are fitted with a diaphragm silicone rubber seal and are designed for effectively filled type cable when used for flameproof applications. This gland type is rated for ingress protection IP66, 67, 69 and IPX8 size Os to C only at 10m for 24 hours. This cable gland is available in sizes Os (M16) up to and including F(M75). The entry thread form can either be metric or NPT equivalent. They are used with cables that are circular and armoured, un-armoured or braided cables. The cable gland comprises the following components:

- a) Entry
- b) Deluge boot *
- c) Diaphragm seal *
- d) Spigot *
- e) Armour clamping ring
- f) Middle nut
- g) Back nut
- h) Back nut clamp
- i) Back nut seal



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Type ICG/653/UNIV Cable Gland

The ICG/653/UNIV Cable Gland is a barrier seal type gland designed for sealing around individual cores and are for use with circular cables of armoured, un-armoured or corrugated cables. This cable gland is available in sizes Os (M16) up to and including J (M100). The entry thread form is either metric or NPT equivalent. This gland type is rated for ingress protection IP66, 67, 69 and IPX8 size Os to C only at 10m for 24 hours. Trade size J is IP66 only.

The cable gland comprises the following components:

- a) Entry
- b) Deluge boot*
- c) Compound chamber*
- d) *Resin dam* *
- e) Spigot*
- f) *VBL Clip* *
- g) Armour/braid clamping ring
- h) Middle nut
- i) Back nut
- j) Back nut clamp
- k) Back nut seal

Type 710 Cable Gland

The 710 Cable gland is a barrier cable gland designed for sealing around individual cores and are for use with circular cables of armoured, un-armoured or corrugated cables. This gland type is rated for ingress protection IP66, 67, 69 and IPX8 size Os to C only at 10m for 24 hours. This cable gland is available in sizes Os (M16) up to and including F (M75). The entry thread form is either metric or NPT equivalent. The cable gland comprises the following components:

- a) Entry
- b) Deluge boot
- c) Compound chamber
- d) *Resin dam*
- e) Spigot
- f) Middle nut
- g) Back nut
- h) Back nut clamp
- i) Back nut seal



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Type 711 Cable Gland

711 Cable gland is a barrier cable gland designed for sealing around individual cores and are for use with circular cables of armoured, un-armoured or corrugated cables. This gland type is rated for ingress protection IP66, 67, 69 and IPX8 size Os to C only at 10m for 24 hours. This cable gland is available in sizes A (M20) up to and including F (M75). The entry thread form is either metric or NPT equivalent. The cable gland comprises the following components:

- a) Entry
- b) Deluge boot
- c) Compound chamber
- d) Resin dam
- e) Front diablo support
- f) Diablo cage
- g) Rear diablo support
- h) Middle nut
- i) Back nut
- j) Back nut clamp
- k) Back nut seal

Type 753 Cable Gland

753 cable gland Cable gland is a barrier cable gland designed for sealing around individual cores and are for use with circular cables of armoured, un-armoured or braided cables. This gland type is rated for ingress protection IP66, 67, 69 and IPX8 size Os to C only at 10m for 24 hours. This cable gland is available in sizes Os (M16) up to and including F(M75). The entry thread form is either metric or NPT equivalent. The cable gland comprises the following components:

- a) Entry
- b) Deluge boot
- c) Compound chamber
- d) Resin dam
- e) Spigot
- f) Middle nut
- g) Back nut
- h) Back nut clamp
- i) Back nut seal

Cable gland types ICG/653/UNIV, 710, 711 and 753, in trade sizes Os to F, have been subjected to overpressure test up to 62 bar/900 Psi.



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Type 501/421 Cable Gland

The Type 501/421 Cable Gland is intended for use with an effectively filled and circular unarmoured cable. The gland type is rated for ingress protection IP66 and 67. This cable gland is available in size Os (M16) up to including J (M100). The entry thread form is either metric or NPT equivalent. It comprises the following components:-

- a) An entry
- 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

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

Type 501/423 Cable Gland

The Type 501/423 Cable Gland is intended for use with an effectively filled and circular unarmoured cable. The gland type is rated for ingress protection IP66 and 67. This cable gland is available in sized Os (M16) up to including J (M100). The entry thread form is either metric or NPT equivalent. It comprises the following components:-

- a) An entry
- 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



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Type 501/453 RAC Cable Gland

The Type 501/453 RAC Cable Gland is intended for use with armoured, unarmoured, or braided cable. The gland type is rated for ingress protection IP66 and 67. This cable gland is available in sized Os (M16) up to including J (M100). The entry thread form is either metric or NPT equivalent. It comprises the following components: -

- a) An entry
- b) A compressible sealing ring
- c) A combined compression spigot and armour clamping cone
- d) A reversible armour clamping ring. (When fitted with a dedicated armour, or braid, clamping ring the gland type is 501/453).
- 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.

Type PSG 553 RAC Cable Gland

The Type PSG 553 RAC Cable Gland is intended for use with armoured, unarmoured, or braided cable of unspecified construction. The gland type is rated for ingress protection IP66 and 67. This cable gland is available in sized Os (M16) up to including C (M32). The entry thread form is either metric or NPT equivalent. It comprises the following components: -

- a) An entry
- 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. (When fitted with a dedicated armour, or braid, clamping ring the gland type is PSG 553).
- e) A middle nut
- f) An outer seal assembly (sleeve seal and support ring)
- g) A back nut

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. The gland type is rated for ingress protection IP66 and 67. This cable gland is available in sized Os (M16) up to including F (M75). The entry thread form is either metric or NPT equivalent. It comprises the following components: -

- a) An entry
- b) A compressible sealing ring
- c) A compression assembly comprising a compression spigot with a female thread at the rear and integral back nut



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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. The gland type is rated for ingress protection IP66 and 67. This cable gland is available in sized O (M16) up to including C (M32). The entry thread form is either metric or NPT equivalent. It comprises the following components: -

- a) An entry
- 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

Type CSB 656N Conduit Stopping Gland

The Type CSB 656N Conduit Stopping Gland is intended for use with a number of circular conductors either enclosed within a conduit or as part of a cable which can be retained by a separate cable gland. The gland type is rated for ingress protection IP66 This cable gland is available in sized A (M20) up to including F (M75). The entry thread form is either metric or NPT equivalent. It comprises the following components: -

- a) An entry
- 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 backnut

APEX Range of Cable Glands

The APEX range of cable glands may be provided with metric or imperial (NPT) entry threads. These glands are available in sizes Os up to and including F. The glands utilise thermoset rubber seals.

The Hawke **APEX A2e** Range of cable glands are provided with a single seal, designed to form a seal around the outer sheath of a cable and are intended for use with circular non armoured and braided cables.

The cable gland is comprised of the following components:

1. Entry
2. Compression Seal
3. Slip ring
4. Tailnut



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The Hawke **APEX C*e** Range of cable glands are designed to form a seal around the outer sheath of a cable and are intended for use with a range of circular cables including armoured, non-armoured and braided cables. The gland type includes an integral armour/braid grounding device.

The cable gland is comprised of the following components:

1. Entry
2. Deluge Boot
3. Armour Clamping Ring(s)
4. Middlednut
5. Compression Seal
6. Slip Ring
7. Backnut

The APEX C*e is provided with configurable armour clamping options, typically marked with either CUe, CXe or CWe where:

- U = suits all types of Braid, Tape and Wire Armour
- X = generally suits Braid and Tape
- W = generally suits Wire Armour

All variants of the APEX C*e are dimensionally identical with the exception of the type of ring supplied.

The Hawke **APEX A2F** Range of cable glands are provided with a single seal, designed to form a seal around the outer sheath of a cable and are intended for use with circular non armoured and braided cables.

The cable gland is comprised of the following components:

1. Entry
2. Compression Seal
3. Slip ring
4. Tailnut

The Hawke **APEX 423** Range of cable glands are provided with a double seal, designed to form a seal around the outer sheath of a cable and are intended for use with circular non armoured and braided cables.

The cable gland is comprised of the following components:

1. Entry
2. Inner Compression Seal
3. Inner Slip ring
4. Middlednut
5. Outer Compression Seal
6. Outer Slip Ring
7. Tailnut



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The Hawke **APEX 413** Range of cable glands are provided with a single seal, designed to form a seal around the outer sheath of a cable. They offer a female threaded entry and are intended for connection with conduit where the conduit fitting contains the running coupler.

The cable gland is comprised of the following components:

1. Entry
2. Compression Seal
3. Slip ring
4. Conduit Backnut

The Hawke **APEX E1F*** Range of cable glands are designed to form a seal around both the inner and outer sheath of the cable and are intended for use with a range of circular cables including armoured, non-armoured and braided cables. This gland type includes an integral armour/braid grounding device.

The cable gland is comprised of the following components:

1. Entry
2. Deluge Boot (Optional)
3. Inner Compression Seal
4. Spigot
5. Armour Clamping Ring(s)
6. Middlednut
7. Outer Compression Seal
8. Slip Ring
9. Backnut

The APEX E1F* is provided with configurable armour clamping options, typically marked with either E1FU, E1FX or E1FW where:

- U = suits all types Braid, Tape and Armour
- X = generally suits Braid and Tape
- W = generally suits Wire Armour

All variants of the APEX E1F* are dimensionally identical with the exception of the type of ring supplied.



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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. Glands when used with unarmoured or braided cables are only suitable for fixed installations, the cable for which shall be effectively clamped to prevent pulling and twisting (does not apply when fitted with rear clamping device or Hawke Gland Mounted Clamp (GMC)).
- ii. Barrier glands of sizes C2, D, E and F and containing (Express) XO99-41-2 resin when used with unarmoured or braided cables are only suitable for fixed installations, the cable for which must be effectively clamped to prevent pulling and twisting. No clamping is required on barrier cable glands sizes Os-C2, or if containing 2122 Hawkesel or 2132 QSP compound.
- iii. The service temperature range:
 - a. PSG/553/RAC and SB 474 cable 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 $+100^{\circ}\text{C}$.
 - b. The APEX cable gland type are suitable for use with operating temperature range of -60°C to $+130^{\circ}\text{C}$.
 - c. All other cable gland types are suitable for use with an operating temperature range of -60°C to $+100^{\circ}\text{C}$.
- iv. When the glands are used for restricted breathing Ex nR, the entry thread shall be suitably sealed (in accordance with IEC 60079-14) to maintain the ingress protection rating of the associated enclosure. This condition does not apply if the Hawke International nylon sealing washer is installed as part of the gland assembly.

Components covered by Ex Certificates issued to older editions of Standards

None.



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