



## EU Type Examination Certificate CML 23ATEX1003X Issue 1

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **APEX A2F, APEX E1F\*, APEX 413, and APEX 423 Range of Cable Glands**
- 3 Manufacturer **Hawke International (A Division of Hubbell Limited) (A member of the Hubbell Group of Companies)**
- 4 Address **Oxford Street West,  
Ashton-under-Lyne,  
Lancashire,  
OL7 0NA  
United Kingdom**

- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Chamber of Commerce No 67386717, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

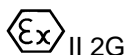
EN IEC 60079-0:2018

EN 60079-1:2014

EN IEC 60079-7:2015+A1:2018

IEC 60079-31:2022 Ed. 3

- 10 The equipment shall be marked with the following:



II 2G

II 1D

Ex db eb IIC Gb

Ex ta IIIC Da

Ts= -60°C to +130°C

IP66/67





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## **11 Description**

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. Middenut
5. Outer Compression Seal
6. Outer Slip Ring
7. Tailnut

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. Middenut
7. Outer Compression Seal
8. Slip Ring
9. Backnut

All types of glands have a suitable service temperature of -60°C to +130°C.



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The cable glands listed above may be manufactured in brass or stainless steel; all of which may be plated to suit the application. The 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 gland assemblies as described above are rated for ingress protection of IP66/67. Use of Hawke IP sealing washers may be considered a suitable sealing method to maintain IP rating to the enclosure (see conditions of use) and will maintain the service temperature of the APEX cable gland range.

These cable glands may be fitted with a Hawke Gland Mounted Clamp (GMC) accessory. When fitted with the GMC, no additional clamping is required for fixed installations. This accessory is not applicable to the APEX 413 cable gland.

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.

### **Variation 1**

This variation introduces the following modifications

- i. The introduction of the APEX 413 range of cable glands
- ii. The introduction of the APEX 423 range of cable glands
- iii. To extend the cable acceptance range for the E1F\* using an alternative seal design for sizes A-D.
- iv. To update IEC 60079-31 to the latest edition.
- v. To recognise an editorial change to the product description.
- vi. To recognise an editorial update to the Specific Condition of Use.

## **12 Certificate history and evaluation reports**

<b>Issue</b>	<b>Date</b>	<b>Associated report</b>	<b>Notes</b>
0	08 May 2023	R16051A/00	Issue of Prime Certificate
1	18 Dec 2023	R17187A/00	Introduction of Variation 1

Note: Drawings that describe the equipment are listed in the Annex.

## **13 Conditions of Manufacture**

None



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#### **14 Specific Conditions of Use (Special Conditions)**

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

- i. When the glands are used for increased safety or dust protection the entry thread shall be suitably sealed (in accordance with EN 60079-14) to maintain the ingress protection rating of the associated enclosure. Not applicable when Hawke IP 66/67 sealing washer is used.
- ii. Glands for use with 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)).

## Certificate Annex

**Certificate Number** CML 23ATEX1003X  
**Equipment** APEX A2F, APEX E1F\*, APEX 413, and APEX 423 Range of Cable Glands  
**Manufacturer** Hawke International (A Division of Hubbell Limited) (A member of the Hubbell Group of Companies)



The following documents describe the equipment or component defined in this certificate:

### Issue 0

Drawing No	Sheets	Rev	Approved date	Title
320002	1 of 1	B	08 May 2023	Armour Clamping Ring
320007	1 of 1	B	08 May 2023	Deluge Boot
320011	1 to 3	A	08 May 2023	Thread Specification
320092	1 of 1	A	08 May 2023	APEX A2F Schedule Drawing
320094	1 of 1	A	08 May 2023	APEX E1F* Schedule Drawing
320095	1 of 1	A	08 May 2023	APEX A-Type Compression Seal Entry
320096	1 of 1	A	08 May 2023	APEX A-Type Compression Seal
320097	1 of 1	A	08 May 2023	APEX A-Type Tailnut
320099	1 of 1	A	08 May 2023	APEX E-Type Compression Seal Entry
320100	1 of 1	A	08 May 2023	APEX Flameproof Seal
320101	1 of 1	A	08 May 2023	Dedicated RAC
320103	1 of 1	A	08 May 2023	Middlenut
320104	1 of 1	A	08 May 2023	APEX E/C Type Backnut seal
320105	1 of 1	A	08 May 2023	APEX E/C Type Backnut
320106	1 of 1	A	08 May 2023	Gland metallic materials

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Drawing No	Sheets	Rev	Approved date	Title
320095	1 of 1	B	18 Dec 2023	APEX A-Type Compression Seal Entry
320100	1 of 1	A	18 Dec 2023	APEX Flameproof Seal
320119	1 of 1	A	18 Dec 2023	APEX 413 Schedule Drawing
320120	1 of 1	A	18 Dec 2023	APEX 423 Schedule Drawing
320121	1 of 1	A	18 Dec 2023	APEX 423 Middlenut
320122	1 of 1	A	18 Dec 2023	APEX 413 Conduit Backnut