

UK Type Examination Certificate CML 21UKEX1160X Issue 0

United Kingdom Conformity Assessment

- 1 Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1
- 2 Equipment **A Type 453 Universal Group I Cable Gland**
- 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 Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, CH65 4LZ, United Kingdom, Approved Body Number 2503, in accordance with Regulation 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696), 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 Schedule 1 of the Regulations.

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 UK Type Examination certificate relates only to the design and construction of the specified equipment. Further requirements of the Regulations apply to the manufacturing process and supply of the product. These are not covered by this certificate.


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:

BS EN IEC 60079-0:2018

EN 60079-1:2014

EN IEC 60079-7:2015 +A1:2018

10 The equipment shall be marked with the following:

 I M 2

Ex db I Mb

Ex eb I Mb

-60°C to +100°C





**CML 21UKEX1160X
Issue 0**

11 Description

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

The Type 453 Universal Cable Gland is intended for use with an effectively filled and circular armoured, steel basket weave armoured, unarmoured or braided (screened) cable and comprises the following components: -

- a) An entry component, in the size range Os to F (M16 to M75)
- b) A combined silicone inner seal, polymer support ring and metallic armour clamping cone.
- c) A reversible armour clamping ring.
- d) A middle nut.
- e) An outer seal assembly (sleeve seal and support cage).
- f) A back nut.

The cable glands in this form are rated for ingress protection IP66/67, IPX8 (sizes Os to C) – 10m/24 hours and IPX9.

12 Certificate history and evaluation reports

| Issue | Date | Associated report | Notes |
|-------|--------------|-------------------|---------------------------------|
| 0 | 29 Sept 2021 | R13593C/00 | The issue of prime certificate. |

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

13 Conditions of Manufacture

None.

14 Specific Conditions of Use

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

- i. When the gland is used for increased safety 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.
- 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.

Note: This specific condition of use is not applicable when the cable glands are fitted with rear clamping device

Certificate Annex

Certificate Number CML 21UKEX1160X
Equipment A Type 453 Universal Group I Cable Gland
Manufacturer Hawke International (A Division of Hubbell Limited) (A member of the Hubbell group of companies)



The following documents describe the equipment defined in this certificate:

Issue 0

| | Drawing No. | Sheets | Rev | Approved /issued date | Title |
|---|--------------------|--------|--|-----------------------|--------------------------------|
| 01 | 320013 | 1 of 1 | A | 28-09-2021 | Certification drawing 453/Univ |
| 02 | 320014 | 1 of 2 | A | 28-09-2021 | 453/Univ |
| a | 320008* - ** | 1 of 1 | A | 28-09-2021 | OMNI Entry |
| b | 320001* | 1 of 1 | A | 28-09-2021 | Diaphragm seal |
| c | 320007* - ** | 1 of 1 | A | 28-09-2021 | Deluge boot |
| d | 320002* - ** | 1 of 1 | A | 28-09-2021 | Armour Clamping Ring |
| e | 320009* - ** | 1 of 1 | A | 28-09-2021 | Middle nut |
| f | 320003* - ** | 1 of 1 | A | 28-09-2021 | Back nut seal |
| g | 320010* - ** | 1 of 1 | A | 28-09-2021 | Back nut |
| h | 320011* - ** - *** | 1 of 1 | A | 28-09-2021 | Thread forms |
| i | 320012* - ** | 1 of 1 | A | 28-09-2021 | External clamp |
| *These drawings are common to: CML 18ATEX1268X, CML 21UKEX1132X and IECEx CML 18.0131X CML 19ATEX4507X, CML 21UKEX4133X and IECEx CML 21.0012X CML 19ATEX3164X, CML 21UKEX3163X and IECEx CML 19.0042X | | | **These drawings are common to: CML 19ATEX1165X, CML 21UKEX1159X and IECEx CML 19.0043X CML 19ATEX1167X, CML 21UKEX1161X and IECEx CML 19.0045X CML 19ATEX1169X, CML 21UKEX1162X and IECEx CML 19.0047X | | |
| ***This drawing is common to: CML 19ATEX1170X, CML 21UKEX1164X and IECEx CML 19.0048X | | | | | |