

UK Type Examination Certificate CML 22UKEX1751X Issue 0

United Kingdom Conformity Assessment

- 1 Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended) – Schedule 3A, Part 1
- 2 Equipment **Range of Conduit Fittings**
- 3 Manufacturer **Killark, a Division of Hubbell Inc. (Delaware)**
- 4 Address **2112 Fenton Logistics Park Blvd.
Fenton, Missouri 63026,
United States of America**

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 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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 specific conditions of 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:

EN IEC 60079-0:2018

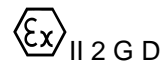
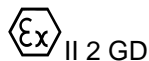
EN 60079-1:2014

EN 6007931:2014

10 The equipment shall be marked with the following:

Swivel Elbows

Capped & Plugged Elbows, Standard Elbows and Unions



Ex db IIB Gb

Ex db IIB Gb

Ex tb IIIC Db

Ex tb IIIC Db

IP65

IP65

The operating temperature range of the Range of Conduit Fittings is up to -50°C to +400°C; refer to Description.





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11 Description






The equipment is a flameproof and dust protected Range of Conduit Fittings (Unions, as well as Swivel, Capped, Plugged and Standard Elbows):

The approval covers the following Types:

GUFS-**-EX; GUMFS-**-EX; Y-*-EX; EYMF-*-EX; FF-***-EX; MF-***-EX; MM-***-EX; BL-***-EX; GUM-*-EX; GUMM-*-EX; GUML-*-EX; UNY*-EX; GUF-*-EX; UNF*-EX.

The conduit fitting can be manufactured from Aluminium 356, 6061-T6 and 6061-T651, Stainless steel 316 or Ductile Iron.

The assigned protection codes, IP and allowable operating temperature range area as follows:

Product Type	Model Ref	Protection Code	Maximum Operating Temperature Range
Swivel Elbows	GUFS-**-EX GUMFS-*-EX	 II 2GD Ex db IIB Gb Ex tb IIIC Db IP65	Up to -50°C to +400°C
Capped Elbows	Y-*-EX	 II 2GD Ex db IIC Gb Ex tb IIIC Db IP66	Up to -50°C to +100°C (with gasket), or, Up to -50°C to +400°C (without gasket)
Plugged Elbows	EYMF-*-EX	 II 2GD Ex db IIC Gb Ex tb IIIC Db IP65	Up to -50°C to +400°C
Standard Elbows	FF-***-EX MF-***-EX MM-***-EX BL-***-EX	 II 2GD Ex db IIC Gb Ex tb IIIC Db IP66	Up to -50°C to +400°C
Unions	GUM-*-EX GUF-*-EX GUMM-*-EX GUML-*-EX UNY*-EX UNF*-EX	 II 2GD Ex db IIC Gb Ex tb IIIC Db IP65	Up to -50°C to +400°C



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12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	20 Apr 2023	R16050A/00	Issue of prime certificate

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

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Where the product incorporates certified parts or safety critical components, the manufacturer of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.

14 Specific Conditions of Use

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

- i. The conduit fittings shall not exceed the following maximum operating temperature ranges:
 - The Capped Elbow (Type Y*-EX), gasketed, threaded cover-to-joint, with an IP66 rating and have a -50°C to +100°C continuous operating temperature range.
 - All other fittings, IP65 minimum rating and have a -50°C to +400°C continuous operating temperature range.
- ii. A flameproof seal is not required between the fitting and a flameproof enclosure, provided:
 - The enclosure volume is less than 160 litres and has a simple internal geometry, or
 - The enclosure reference pressure does not exceed 234 psi (16.13 bar) for IIC applications, and 196 psi (13.5 bar) for IIB applications.
- iii. A flameproof seal shall be provided within 50 mm from the free end of the fitting.

Certificate Annex

Certificate Number CML 22UKEX1751X
Equipment Range of Conduit Fittings
Manufacturer Killark, a Division of Hubbell Inc. (Delaware)



The following documents describe the equipment defined in this certificate:

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Drawing No	Sheets	Rev	Approved date	Title
C- 25676	1 of 4	E	20 Apr 2023	ATEX/IECEX Elbows Markings & Recommended Locations
C-25676	2 of 4	B	20 Apr 2023	ATEX/IECEX Unions Markings & Recommended Locations
C-25676	3 of 4	D	20 Apr 2023	ATEX/IECEX capped/plugged elbows markings & Recommended Locations
C-25676	4 of 4	B	20 Apr 2023	ATEX/IECEX swivel elbows markings & Recommended Locations