



## EU Type Examination Certificate CML 16ATEX1325X Issue 1

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 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 CML B.V., Chamber of Commerce No 6738671, Hoogoorddreef 15, Amsterdam, 1101 BA, 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

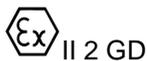
EN 60079-1:2014

EN 60079-31:2014

- 10 The equipment shall be marked with the following:

*Swivel Elbows*

*Capped & Plugged Elbows, Standard Elbows  
and Unions*



II 2 GD

Ex db IIB Gb

Ex tb IIIC Db

IP65



II 2 GD

Ex db IIC Gb

Ex tb IIIC Db

IP65 minimum

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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### Variation 1:

This variation introduced the following modifications:

- i. Capped Elbows, Y-\* -EX Series: change of gas group from IIB to IIC.
- ii. Plugged Elbows, EYMF-\* -EX Series: change of gas group from IIB to IIC.
- iii. Change to the Product Description to account for the above modifications.
- iv. Update of standard EN 60079-0:2012+A11:2013 to EN IEC 60079-0:2018.
- v. Update of the applicant/manufacturer address.
- vi. Transfer of the ATEX certificate from CML UK to CML B.V.

## 12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	07 Nov 2016	R893A/00	Issue of Prime Certificate
1	09 Apr 2020	R13203A/00	Introduction of Variation 1

Note: Drawings that describe the equipment or component 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 shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.

## 14 Specific Conditions of Use (Special Conditions)

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 16ATEX1325X  
**Equipment** Range of Conduit Fittings  
**Manufacturer** Killark, a Division of Hubbell Inc (Delaware)



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

### Issue 0

Drawing No	Sheets	Rev	Approved date	Title
C-25676	1 of 1	A	07 Nov 2016	ATEX/IECEX FITTINGS MARKINGS & RECOMMENDED LOCATIONS
D-22332	1 of 1	C	07 Nov 2016	FEMALE TO FEMALE UNIONS ATEX CERTIFICATION DRAWING
D-22333	1 of 1	D	07 Nov 2016	UNIONS ATEX CERTIFICATION DRAWING
D-22335	1 of 1	E	07 Nov 2016	REGULAR AND UNION ELBOWS ATEX CERTIFICATION DRAWING
D-22336	1 of 1	E	07 Nov 2016	CAPPED, SWIVEL, AND PLUGGED ELBOWS ATEX CERTIFICATION DRAWING

### Issue 1

Drawing No	Sheets	Rev	Approved date	Title
C-25676	1 of 4	D	09 Apr 2020	ATEX/IECEX ELBOWS MARKINGS & RECOMMENDED LOCATIONS (for BL- 90-EX, MM-90-EX, MF-45EX, MF90-EX, FF-90EX, FF-45-EX)
C-25676	2 of 4	A	09 Apr 2020	ATEX/IECEX UNIONS MARKINGS & RECOMMENDED LOCATIONS (for GUF-Ex, UNF-EX, UNY-EX, GUM-EX, GUMM-EX, GUML-Ex)
C-25676	3 of 4	A	09 Apr 2020	ATEX/IECEX CAPPED/PLUGGED MARKINGS & RECOMMENDED LOCATIONS (for Y-EX, EYMF-EX)
C-25676	4 of 4	A	09 Apr 2020	ATEX/IECEX SWIVEL ELBOWS MARKINGS & RECOMMENDED LOCATIONS for (GUFs/GUMFS-EX)



**The following pages are the prior revisions of this certificate.**



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- 2 Equipment **Range of Conduit Fittings (See description)**
- 3 Manufacturer **Killark, a Division of Hubbell Inc (Delaware)**
- 4 Address 3940 Rd.  
Martin Luther King Dr.,  
St. Louis, MO 63113,  
USA
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 Certification Management Limited, Unit 1 Newport Business Park, New Port Road, Ellesmere Port CH65 4LZ, UK, Notified Body Number 2503, 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.  
  
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- 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 60079-0:2012:A11:2013, Corr3      EN 60079-1:2014      EN 60079-31:2014

- 10 The equipment shall be marked with the following:

### Swivel, Capped & Plugged Elbows



II 2 G D

Ex db IIB Gb  
Ex tb IIIC Db  
IP 65 minimum

Ta= Up to -50°C to +400°C  
See description

### Standard Elbows and Unions



II 2 G D

Ex db IIC Gb  
Ex tb IIIC Db  
IP 65 minimum

Ta= Up to -50°C to +400°C  
See description



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Issue 0

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Capped Elbows	Y-*-EX	 II 2GD Ex db IIB Gb Ex tb IIIC Db IP66	Up to -50°C to +100°C
Plugged Elbows	EYMF-*-EX	 II 2GD Ex db IIB 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	
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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Issue 0

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## 13 Conditions of manufacture

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

- 13.1 Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.

## 14 Special Conditions for Safe Use (Conditions of Certification)

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

- 14.1 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.
- 14.2 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.

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