



EU Type Examination Certificate CML 15ATEX3028X Issue 1

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **KDE Series Breather/Drains**
- 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, 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 IEC 60079-7:2015 +A1:2018 EN 60079-31:2014
- 10 The equipment shall be marked with the following:



II 2 G D

Ex eb IIC Gb

Ex tb IIIC Db



CML 15ATEX3028X
Issue 1

11 Description

The KDE Series breather/drains are meant for installation on the bottom surfaces of "Ex e" Increased Safety or "Ex tb" Dust-Ignition protected electrical enclosures. They are certified for installation into clearance holes of enclosures only and are provided with locknuts for such installation.

The breather/drains consist of the following components: body, sealing O-ring, a polyethylene porous element and an element retaining clip.

The breather/drains are with bodies produced from aluminium, 303 or 304 stainless steel, 316 stainless steel, brass (no surface finish or nickel plated) or glass filled polyamide.

Nomenclature breakdown: KD¹ E² ^{**3} ^{*4} ^{***} ^{****} ⁵

1 - Series Designation

2 - Explosive Atmosphere version - IP66

3 - Material Type:

AL = Aluminium;

BR = Brass;

S3 = 303 SS;

S4 = 304 SS;

S6 = 3016 SS;

GF = Glass Filled PA6 Nylon

4 - Plating Type:

0 = Unplated;

1 = Nickel;

2 = Zinc;

3 = Cadmium;

4 = Chromatise;

5 = Electroless Nickel

5 - Thread Type:

M20 = M20;

M25 = M25;

050 = 1/2 inch NPT;

075 = 3/4 inch NPT;

050NPSM = 1/2 inch NPSM;

075NPSM = 3/4 inch NPSM

Variation 1

- i. To update and review the certification against the latest version of standards.
- ii. To amend the manufacturer name and address.

12 Certificate history and evaluation reports

| Issue | Date | Associated report | Notes |
|-------|-------------|-------------------|----------------------------------|
| 0 | 29 Apr 2015 | R470A/00 | Issue of prime certificate |
| 1 | 29 Jun 2021 | R13909A/00 | The introduction of variation 1. |



**CML 15ATEX3028X
Issue 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 breather drain shall only be mounted in the bottom face of a vertical mounted enclosure via clearance holes only, using the provided locking nut and O-ring.
- ii. The plain clearance holes shall be no larger than 0.7mm above the major diameter of the breathing/draining device thread.
- iii. The maximum operating temperature range of the breather drain is -55°C to +80°C and shall not be exceeded.
- iv. The correct tightening torque range shall be applied to the breather drain when installing:
 - Minimum – 4 Nm
 - Maximum – 8 Nm

Certificate Annex

Certificate Number CML 15ATEX3028X
Equipment KDE Series breather/drains
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 |
|------------|--------|-----|---------------|---|
| B-24132 | 1 of 3 | C | 29/04/2015 | KD4 / KDE Series Drain Body (1/2" NPT) |
| A-24132 | 2 of 3 | B | 29/04/2015 | KD4 Series Drain Body (1/2" NPT) - Marking |
| A-24132 | 3 of 3 | A | 29/04/2015 | KD4 Series Drain Body (1/2" NPT) - Marking |
| B-24133 | 1 of 3 | C | 29/04/2015 | KD4 / KDE Series Drain Body (M20) |
| A-24133 | 2 of 3 | B | 29/04/2015 | KD4 Series Drain Body (M20) - Marking |
| A-24133 | 3 of 3 | A | 29/04/2015 | KD4 Series Drain Body (M20) - Marking |
| B-24134 | 1 of 3 | C | 29/04/2015 | KD4 / KDE Series Drain Body (M25) |
| A-24134 | 2 of 3 | B | 29/04/2015 | KD4 Series Drain Body (M25) - Marking |
| A-24134 | 3 of 3 | A | 29/04/2015 | KD4 Series Drain Body (M25) - Marking |
| B-24135 | 1 of 3 | C | 29/04/2015 | KD4 / KDE Series Drain Body (1/2" NPSM) |
| A-24135 | 2 of 3 | B | 29/04/2015 | KD4 Series Drain Body (1/2" NPSM) – Marking |
| A-24135 | 3 of 3 | A | 29/04/2015 | KD4 Series Drain Body (1/2" NPSM) – Marking |
| B-24136 | 1 of 3 | C | 29/04/2015 | KD4 / KDE Series Drain Body (3/4" NPT) |
| A-24136 | 2 of 3 | B | 29/04/2015 | KD4 Series Drain Body (3/4" NPT) - Marking |
| A-24136 | 3 of 3 | A | 29/04/2015 | KD4 Series Drain Body (3/4" NPT) - Marking |
| B-24137 | 1 of 3 | C | 29/04/2015 | KD4 / KDE Series Drain Body (3/4" NPSM) |
| A-24137 | 2 of 3 | B | 29/04/2015 | KD4 Series Drain Body (3/4" NPSM) – Marking |
| A-24137 | 3 of 3 | A | 29/04/2015 | KD4 Series Drain Body (3/4" NPSM) – Marking |

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Issue 1

| Drawing No | Sheets | Rev | Approved date | Title |
|------------|--------|-----|---------------|-------------------------------|
| A-24137 | 3 of 3 | D | 29 Jun 2021 | KDE Series Drain Body ¾" NPSM |
| A-24136 | 3 of 3 | D | 29 Jun 2021 | KDE Series Drain Body ¾" NPT |
| A-24135 | 3 of 3 | D | 29 Jun 2021 | KDE Series Drain Body ½" NPSM |
| A-24134 | 3 of 3 | D | 29 Jun 2021 | KDE Series Drain Body M25 |
| A-24133 | 3 of 3 | D | 29 Jun 2021 | KDE Series Drain Body M20 |
| A-24132 | 3 of 3 | D | 29 Jun 2021 | KDE Series Drain Body ½" NPT |