



UNITED KINGDOM CONFORMITY ASSESSMENT

1 **UK TYPE EXAMINATION CERTIFICATE**

2 Component intended for use in a Product or Protective System for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3 Certificate Number: **CSAE 21UKEX1195U** Issue: **0**

4 Product: **Type R & RE Series Reducers, Type CUP & PLUG Series Plugs and
Type AN & AN-xS Series Conduit Nipples**

5 Manufacturer: **Killark, A Div. of Hubbell. (Delaware)**

6 Address: **2112 Fenton Logistics Park Blvd., Fenton, Missouri 63026 USA**

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Testing UK Limited, Approved Body number 0518, 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 product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products 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 14.2.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:


**EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-7:2015+A1:2018
EN 60079-31:2014**

Except in respect of those requirements listed at Section 16 of the schedule to this certificate. The above standards may not appear on the UKAS Scope of Accreditation, but have been added through flexible scope of accreditation, which is available on request.

10 The sign "U" placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as the basis for certification of an equipment or protective system. Any limitations are listed in Section 15.

11 This UK TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of this product shall be in accordance with Regulation 41 and include the following:

 II 2 GD
Ex db IIC Gb
Ex eb IIC Gb
Ex tb IIIC Db
Ta = -50°C to +70°C

Name: J A May
Title: Director of Operations



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13 DESCRIPTION OF PRODUCT

Type R & RExxS Series Reducers:

The Type R and RExxS Series Reducers comprise a hollow hexagonal body, partly threaded at each end, one end having a male thread and the other a female thread. The Reducers are used to convert an existing threaded cable entry aperture to a different thread form and/or size.

The Type R and RExxS Series Reducers have an IP 66 ingress protection rating in accordance with EN 60529.

The Reducers may be machined with NPT thread forms in sizes and materials as follows:

Sizes:	Materials of manufacture:
3/8"-18 NPT	A1 = Aluminium, 6061-T6, 6061-T651
1/2"-14 NPT	A2 = Aluminium, AA356-T6
3/4"-14 NPT	A3 = Aluminium, Modified A413.1 Alloy Per Killark Spec. MA-0105
1"-11 1/2 NPT	S = Z Electroplated Steel (12L14); or Z Electroplated Steel (12L14-SA)
1 1/4"-11 1/2 NPT	S3 = SS-303 Grade
2"-11 1/2 NPT	S4 = SS-304 Grade
2 1/2"-8 NPT	S6 = SS-316 Grade
3"-8 NPT	
3 1/2"-8 NPT	
4"-8 NPT	

Surface coating

The products may additionally be metallic plated with Z (0.008 mm thick max.) to suit the application.

Type CUP & PLUG Series:

The CUP & PLUG series comprise a cylindrical body, threaded with a male thread. They are intended to fill unused cable entries in associated apparatus.

The CUP & PLUG series have an IP 66 ingress protection rating in accordance with EN 60529.

The products are manufactured with the following external profiles and assigned the following prefix type designations:

- CUP-250 - CUP-6; Hexagonal socket recess
- PLUG-250 - PLUG-3; Hexagonal socket recess
- PLUG-4 - PLUG-6; Square socket recess
- CUP-7 - CUP-8 & PLUG-7-PLUG-10; Cross (X) recess

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The CUP & PLUG series may be materials as follows:

machined with NPT thread forms in sizes and

Sizes:	Materials of manufacture:
¼"-18 NPT	CUP – Series
3/8"-18 NPT	(blank); A1 = Aluminium, 6061-T6, 6061-T651
½"-14 NPT	(blank); A2 = Cast Aluminium, AA356-T6
¾"-14 NPT	S3 = SS-303 Grade
1"-11 ½ NPT	S4 = SS-304 Grade
1 ¼"-11 ½ NPT	S6 = SS-316 Grade
1 ½"-11 ½ NPT	
2"-11 ½ NPT	PLUG Series:
2 ½"-8 NPT	(blank) = Z Electroplated Steel (12L14) or Z Electroplated Steel (12L14-SA)
3"-8 NPT	S3 = SS-303 Grade
3 ½"-8 NPT	S4 = SS-304 Grade
4"-8 NPT	S6 = SS-316 Grade

Type AN & AN-xS Series Conduit Nipples:

The AN & AN-xS Series Conduit Nipples comprise a cylindrical straight body, with NPT male threads on each end. They are used for the protection of wire conductors and intended to connect conduit to cast hubs on drilled and tapped conduit openings.

The AN & AN-xS Series Conduit Nipples have an IP 66 ingress protection rating in accordance with EN 60529.

The Nipples may be threaded in sizes and materials as follows:

Sizes:	Materials of manufacture:
½"-14 NPT	(blank) = Aluminium, 6063 alloy
¾"-14 NPT	S = Z Electroplated Rigid Steel Conduit
1"-11 ½ NPT	S3 = SS-303 Grade
1 ¼"-11 ½ NPT	S4 = SS-304 Grade
2"-11 ½ NPT	S6 = SS-316 Grade
2 ½"-8 NPT	
3"-8 NPT	
3 ½"-8 NPT	
4"-8 NPT	

Incorporated amendments

The product description includes the following applicable amendments, only amendments directly applicable to UKCA certification have been included in this list.

The amendments are numbered to include a reference to the previous ATEX variation at which these were introduced.

- 1a The introduction of a 3"-1¼" NPT reducer, Type reference R-84, to the existing range.
- 2a Change of the notified body responsible for quality on the marking from 0539 to a drawing note.
- 2b The inclusion of the 1½"-11½" NPT reducer, Type reference R-51, R-52, R-53 and R-54, to the existing range.

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- 2c Correction of administrative error on the Nipple scheduled drawing 23541.
- 2d Assessment to demonstrate compliance with the latest technical knowledge.
- 3a A change to the upper ambient temperature of components, from +60°C, to +70°C was approved.
- 3b Assessment to demonstrate compliance with the latest technical knowledge.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	06 July 2021	R80076763B	The release of the prime certificate.

15 SCHEDULE OF LIMITATIONS

- 15.1 The Stopping Plugs and Blanking elements shall not be used in conjunction with an adapter or reducer when installed in a flameproof enclosure.
- 15.2 Nipples and Reducers shall not to be used for the direct inter-connection of enclosures.
- 15.3 Only one Nipple or Reducer is to be used with any single cable entry on the associated equipment.
- 15.4 The Nipples, Reducers and Plugs are for threaded entries only.
- 15.5 The interfaces between the male thread of the adaptor/reducer and an associated enclosure and between the female thread of the adaptor/reducer and the cable entry device cannot be defined. Therefore, it is the installer's responsibility to ensure that the appropriate ingress protection level is maintained at these interfaces.
- 15.6 For the nipples, installation is to be in accordance with the manufacturer's installation manual, ensuring correct thread engagement and torque is applied to ensure threads are undamaged. Installation in accordance to EN 60079-14 is also to be followed.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (REGULATIONS SCHEDULE 1)

In addition to the Essential Health and Safety Requirements covered by the standards listed in Section 9, all other requirements are demonstrated in the relevant reports.

17 PRODUCTION CONTROL

- 17.1 Holders of this certificate are required to comply with production control requirements defined in Schedule 3A, as applicable, and CSA Group Testing UK Regulations for Certificate Holders



Certificate Annexe

Certificate Number: CSAE 21UKEX1195U
Product: Type R & RE Series Reducers,
Type CUP & PLUG Series Plugs and
Type AN & AN-xS Series Conduit Nipples
Manufacturer: Killark, A Div. of Hubbell. (Delaware)

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Drawing	Sheets	Rev.	Date (Stamp)	Title
B-23541	1 of 1	C	02 May 18	AN & AN-XS Series Close Nipples for IECEX/ATEX Certification
D-23389	1 of 1	C	02 May 18	CUP & PLUG Series Stoppers (plugs) for IECEX/ATEX Certification
D-23534	1 of 1	D	02 May 18	R & RExxS Series Reducer Bushings for IECEX/ATEX Certification
B-23541	1 of 1	D	22 June 21	AN & AN-XS Series Close Nipples for IECEX/ATEX Certification
D-23389	1 of 1	D	22 June 21	CUP & PLUG Series Stoppers (plugs) for IECEX/ATEX Certification
D-23534	1 of 1	E	22 June 21	R & RExxS Series Reducer Bushings for IECEX/ATEX Certification

