1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Component intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 13ATEX1196U** Issue: **5**

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

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

6 Address: 2112 Fenton Logistics Park Blvd.
Fenton
Missouri 63026
United States

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

8 CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of a component 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 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

IEC 60079-0:2017 Ed.7 EN 60079-1:2014 IEC 60079-7:2015 Ed 5.1 EN 60079-31:2014

10 The sign 'U' is placed after the certificate number to indicate that the product assessed is a component and may be subject to further assessment when incorporated into equipment. Any limitations of use are listed in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacture and supply of this component.

12 The marking of the component shall include the following:

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

Project Number 80004511

Signed: J A May

Title: Director of Operations

CSA Group Netherlands B.V.
Utrechtseweg 310,
6812 AR, Arnhem,
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SCHEDULE

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13 **DESCRIPTION OF COMPONENT**

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
½"-14 NPT	A2 = Aluminium, AA356-T6
¾"-14 NPT	A3 = Aluminium, Modified A413.1 Alloy Per Killark Spec. MA-0105
1"-11 ½ NPT	S = Z Electroplated Steel (12L14); or Z Electroplated Steel (12L14-SA)
1 ¼"-11 ½ NPT	S3 = SS-303 Grade
2"-11 ½ NPT	S4 = SS-304 Grade
2 ½"-8 NPT	S6 = SS-316 Grade
3"-8 NPT	
3 ½"-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 machined with NPT thread forms in sizes and materials as follows:

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	

Variation 1 - This variation introduced the following change:

i. The introduction of a 3"-1¼" NPT reducer, Type reference R-84, to the existing range.

Variation 2 - This variation introduced the following changes:

i. Change of the notified body responsible for quality on the marking from 0539 to a drawing note.
ii. The inclusion of the 1½"-11½" NPT reducer, Type reference R-51, R-52, R-53 and R-54, to the existing range.
iii. Correction of administrative error on the Nipple scheduled drawing 23541.
iv. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-1:2007, EN 60079-7:2007 and EN 60079-31:2009 were replaced by EN 60079-1:2014, EN 60079-7:2015 and EN 60079-31:2014. The markings have been updated in accordance with the latest standards.

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Variation 3 - This variation introduced the following changes:

i. A change to the upper ambient temperature of components, from +60ºC, to +70ºC was approved.

ii. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2012/A11:2013 and EN 60079-7:2015 were replaced by IEC 60079-0:2017 Ed.7 and IEC 60079-7:2015 Ed 5.1. The markings have been updated in accordance with the latest standards.

Variation 4 – This variation introduced the following changes:

i. The certificate holders address was changed:

From:	To:
3940 Dr. Martin Luther King Drive Saint Louis Missouri 63113 USA	2112 Fenton Logistics Park Blvd., Fenton Missouri 63026 USA

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	27 June 2013	R28593A/00	The release of the prime certificate.
1	31 January 2014	R32724A/00	The introduction of Variation 1.
2	19 December 2017	R70159950A	This Issue covers the following changes: • EC-Type Examination Certificate in accordance with 94/9/EC updated to EU-Type Examination Certificate in accordance with Directive 2014/34/EU. *(In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC-Type Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)* • The introduction of Variation 2
3	17 May 2018	R70179043A	The introduction of Variation 3.
4	15 October 2019	0484	Transfer of certificate Sira 13ATEX1196U from Sira Certification Service to CSA Group Netherlands B.V.
5	26 February 2020	R80004511A	The introduction of Variation 4.

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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 OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

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Certificate Annexe

Certificate Number: **Sira 13ATEX1196U**

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

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

Issue 0

Drawing No.	Sheets	Rev.	Date (Sira Stamp)	Title
B-23541	1 of 1	A	17 Jun 13	AN & AN-XS Series Close Nipples for IECEx/ATEX Certification
D-23389	1 of 1	A	17 Jun 13	CUP & PLUG Series Stoppers (plugs) for IECEx/ATEX Certification
D-23534	1 of 1	A	17 Jun 13	R & RExxS Series Reducer Bushings for IECEx/ATEX Certification

Issue 1

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
D-23534	1 of 1	B	22 Jan 14	R & RExxS Series Reducer Bushings for IECEx/ATEX Certification

Issue 2

Drawing No.	Sheets	Rev.	Date (Sira Stamp)	Title
D-23389	1 of 1	B	24 Oct 17	Cup & Plug Series Stoppers (Plugs) for IECEx/ATEX Certification
B-23541	1 of 1	B	24 Oct 17	AN & AN-xS Series Close Nipples for IECEx/ATEX Certification
D-23534	1 of 1	C	24 Oct 17	R & RExxS Series Reducer Bushings for IECEx/ATEX Certification

Issue 3

Drawing No.	Sheets	Rev.	Date (Sira Stamp)	Title
D-23389	1 of 1	C	02 May 18	CUP & Plug Series Stoppers (Plugs) for IECEx/ATEX Certification
B-23541	1 of 1	C	02 May 18	AN & AN-xS Series Close Nipples for IECEx/ATEX Certification
D-23534	1 of 1	D	02 May 18	R & RExxS Series Reducer Bushings for IECEx/ATEX Certification

Issues 4 and 5. No new drawings were introduced

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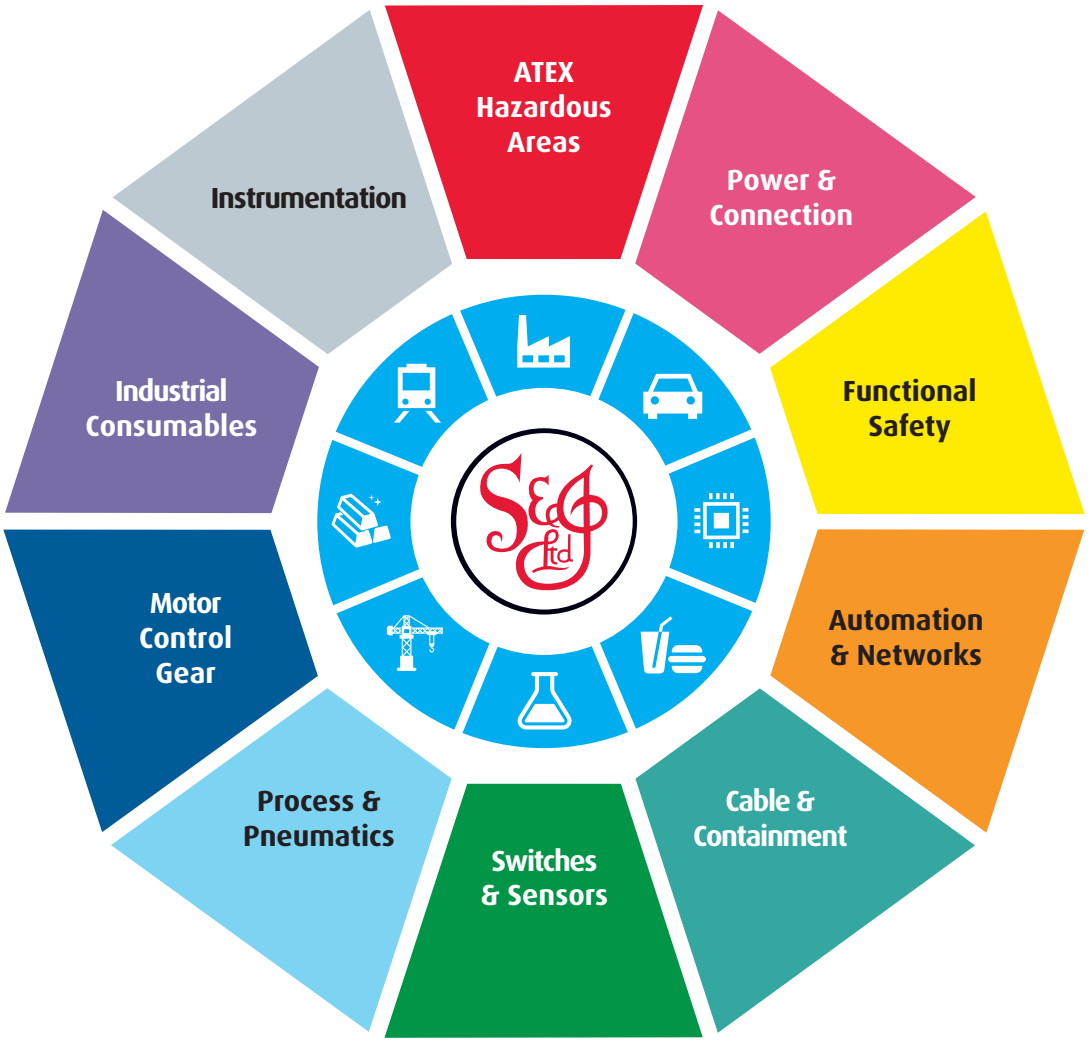

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