



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEX CML 19.0101X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 4	Issue 3 (2020-10-02)
Date of Issue:	2021-12-14		Issue 2 (2020-05-21)
Applicant:	Peppers Cable Glands Limited Stanhope Road, Camberley, Surrey, GU15 3BT United Kingdom		Issue 1 (2020-02-18)
Equipment:	RA** Range of Rotating Adaptors Reducers and Elbows		Issue 0 (2019-09-06)
Optional accessory:			
Type of Protection:	Flameproof "db", Increased Safety "eb", Restricted Breathing "nR", Dust Ignition "ta"		
Marking:	Ex db I Mb Ex db IIC Gb Ex eb I Mb Ex eb IIC Gb Ex nR IIC Gc Ex ta IIIC Da Ts = -60°C to +135°C IP66 / IP68 (2 m for 24 hours)		

Approved for issue on behalf of the IECEx
Certification Body:

R C Marshall

Position:

Operations Manager

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





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Date of issue: 2021-12-14

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Manufacturer: **Peppers Cable Glands Limited**
Stanhope Road, Camberley, Surrey, GU15 3BT
United Kingdom

Manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-15:2017](#) Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:5.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[GB/CML/ExTR19.0164/00](#)
[GB/CML/ExTR21.0287/00](#)

[GB/CML/ExTR19.0164/01](#)

[GB/CML/ExTR20.0040/00](#)

Quality Assessment Report:

[GB/CML/QAR19.0022/03](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The RA** range of rotating adaptors, reducers and elbows are constructed from brass or stainless-steel hexagonal shape extrusion or block of material machined to form a 90° elbow.

Refer to Annex for full description.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Annex for specific conditions of use.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1

This issue introduced the following changes:

1. To permit the use of an alternative internal O-ring seal material.
2. To permit modifications to the product length to accommodate design requirements for other approvals.
3. To recognise minor certification document modifications.

Issue 2

This issue introduced the following changes:

1. Addition of specific condition of use relating to EPL Mb.

Issue 3

This issue introduced the following changes:

1. Addition of updated QAR - GB/CML/QAR 19.0022

No other changes

Issue 4

This issue introduced the following changes:

1. Changes to tolerance dimensions. Reduction of diameters 'K' on F1 and M1 options.
2. The option to leave a full hexagon form on components F1 & M1 in brass material.
3. Reduction to IPX8 depth and duration.
4. Re-introduction of silicone O-ring seal material 714177.

Annex:

[IECEX CML 19.0101X Certificate Annex Issue 4.pdf](#)



The equipment comprises of two parts, linked together in which they can rotate whilst are interlocked. Once the parts are linked together, they form a cylindrical flameproof joint coupled with O-ring and snap ring to hold the two parts together. The internal or external threads at each end may be provided with the above thread options and configurations. The assembly is rated for IP66 and IP68 ratings.

The Types and Model numbers of the RA** Range of Rotating Adaptors Reducers and Elbows are as follows:

Type	Adaptors/Reducers	Type	Elbow
RAFF	Female to Female	RAFF 90	Female to Female Elbow
RAMF	Male to Female	RAMF 90	Male to Female Elbow
RAMM	Male to Male	RAMM 90	Male to Male Elbow

Conditions of Manufacture

None.

Specific Conditions of Use

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

- i. The Adaptors, Reducers, and Elbows are manufactured with a cylindrical joint between the entry body and threaded ferrule. This joint shall not be repaired.
- ii. The Adaptors, Reducers, and Elbows shall not be used outside their service temperature range of -60°C to +135°C.
- iii. The Adaptors, Reducers, and Elbows, when used in Group I (mining) applications, shall be mounted in a location with low risk of mechanical damage.

Components covered by Ex Certificates issued to older editions of Standards

None.