



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312313000376

Applicant Peppers Cable Glands Limited

Address Stanhope Road, Camberley, Surrey, GU15 3BT, United Kingdom

Manufacturer Peppers Cable Glands Limited

Address Stanhope Road, Camberley, Surrey, GU15 3BT, United Kingdom

Production Factory Peppers Cable Glands Limited

Production Address Stanhope Road, Camberley, Surrey, GU15 3BT, United Kingdom

Product Rotating Adaptors Reducers and Elbows

Model/Type RA*****, RA**90****

Ex marking Ex db I Mb, Ex eb I Mb, Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da

Reference Standards GB/T 3836.1-2021, GB/T 3836.2-2021, GB/T 3836.3-2021, GB/T 3836.8-2021, GB/T 3836.31-2021

Certification mode Type Test + Initial Factory Inspection + Post-Certification Surveillance

The product(s) is verified and certified according to CNCA-C23-01: 2019 *China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product* and CNEX-C2301-2019 *Guideline of China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product*.

See Annex for the detailed product information (6 pages)

Initial issue date: 2021-08-20

Issued date: 2023-04-28

Valid to: 2026-08-19

The validity of this certificate is maintained through the regular supervision of the issuing authority during the validity period.

Where any discrepancy arises between the English translation and the original Chinese version, the Chinese version shall prevail.

Director:



Nanyang Explosion Protected Electrical Apparatus Research Institute Co.,Ltd.



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Product information:

1. This certificate covers the following models:

- RA***** Rotating Adaptors Reducers, RA**90***** Elbows

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

| | | | |
|--|-------------------|-------------------|------------------|
| A-B-C-D-E-F-G | | | |
| A - Product Type | | | |
| Type | Adaptors/Reducers | Type | Elbow |
| RAFF | Female to Female | RAFF90 | Female to Female |
| RAMF | Male to Female | RAMF90 | Male to Female |
| RAMM | Male to Male | RAMM90 | Male to Male |
| B - IP Seal code | | | |
| 0 | No seal fitted | (-60°C to +135°C) | |
| C - Material of manufacture | | | |
| B | Brass | | |
| S | Stainless Steel | | |
| D - Protection concept code | | | |
| F: Ex db I Mb, Ex db IIC Gb, Ex eb I Mb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da | | | |
| E - Plating | | | |
| -- | Not plated | | |
| NP | Nickel Plated | | |
| ZP | Zinc | | |

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F - entry thread size

G - connection thread size

The RA*****range of rotating adaptors, reducers and RA**90*****elbows are constructed from brass or stainless- steel hexagonal shape extrusion or block of material machined to form a 90° elbow. The ends are machined to form optional male and female entry thread connections as indicated below: (stand pitches sizes are as follows: up to M75 - 1.5mm, M80 and above -2.0mm, alternate thread pitches may be used providing there are a minimum of 8 full threads on the entry thread.)

| A=ADAPTOR R=REDUCER | | Female | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|----|--------|--------|----|--------|---|--|--|
| | | METRIC | | | | | | | | | | NPT | | | | | | | | | | | | |
| | | M12 | M16 | M20 | M25 | M32 | M40 | M50 | M63 | M75 | M80 | M85 | 1/4" | 3/8" | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | | | |
| Male | METRIC | M12 | A | A | A | | | | | | | | | A | A | A | | | | | | | | |
| | | M16 | R | A | A | A | | | | | | | | A | A | A | A | | | | | | | |
| | | M20 | R | R | A | A | A | | | | | | | R | A | A | A | A | | | | | | |
| | | M25 | R | R | R | A | A | A | | | | | | R | R | R | A | A | A | | | | | |
| | | M32 | R | R | R | R | A | A | A | | | | | R | R | R | R | A | A | A | | | | |
| | | M40 | R | R | R | R | R | A | A | A | | | | R | R | R | R | R | A | A | A | | | |
| | | M50 | R | R | R | R | R | R | A | A | A | | | R | R | R | R | R | R | A | A | A | | |
| | | M63 | R | R | R | R | R | R | R | A | A | A | A | R | R | R | R | R | R | R | A | A | | |
| | | M75 | R | R | R | R | R | R | R | R | A | A | A | R | R | R | R | R | R | R | R | A | | |
| | | M80 | R | R | R | R | R | R | R | R | R | A | A | R | R | R | R | R | R | R | R | A | | |
| | M85 | R | R | R | R | R | R | R | R | R | R | A | A | R | R | R | R | R | R | R | R | R | | |
| | M90 | R | R | R | R | R | R | R | R | R | R | R | A | R | R | R | R | R | R | R | R | R | | |
| | NPT | 1/4" | A | A | A | | | | | | | | | A | A | A | | | | | | | | |
| | | 3/8" | R | A | A | A | | | | | | | | A | A | A | A | | | | | | | |
| | | 1/2" | R | R | A | A | A | | | | | | | R | A | A | A | A | | | | | | |
| 3/4" | | R | R | R | A | A | A | | | | | | R | R | R | A | A | A | | | | | | |
| 1" | | R | R | R | R | A | A | A | | | | | R | R | R | R | A | A | A | | | | | |

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| | | | | | | | | | | | | | | | | | | | | | |
|------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PG | 1-1/4" | R | R | R | R | R | A | A | A | | | | R | R | R | R | R | A | A | A | |
| | 1-1/2" | R | R | R | R | R | R | A | A | A | | | R | R | R | R | R | R | A | A | A |
| | 2" | R | R | R | R | R | R | R | A | A | A | A | R | R | R | R | R | R | R | A | A |
| | 2-1/2" | R | R | R | R | R | R | R | R | A | A | A | R | R | R | R | R | R | R | R | A |
| | 3" | R | R | R | R | R | R | R | R | R | A | A | R | R | R | R | R | R | R | R | R |
| | PG7 | A | A | A | | | | | | | | | A | A | A | | | | | | |
| | PG9 | A | A | A | | | | | | | | | A | A | A | | | | | | |
| | PG11 | R | A | A | A | | | | | | | | R | A | A | A | | | | | |
| | PG13.5 | R | R | A | A | A | | | | | | | R | R | A | A | A | | | | |
| | PG16 | R | R | A | A | A | A | | | | | | R | R | A | A | A | | | | |
| PG21 | R | R | R | A | A | A | | | | | | R | R | R | A | A | A | | | | |
| PG29 | R | R | R | R | R | A | A | A | | | | R | R | R | R | A | A | A | | | |
| PG36 | R | R | R | R | R | R | A | A | A | | | R | R | R | R | R | A | A | A | | |
| PG42 | R | R | R | R | R | R | A | A | A | | | R | R | R | R | R | R | R | A | A | |
| PG48 | R | R | R | R | R | R | R | A | A | | | R | R | R | R | R | R | R | A | A | |

| | | | | | | | | | | | | | | | | | | | | |
|------------------------|--------|--------|-----|------|--------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|
| A=ADAPTOR R=REDUCER | | Female | | | | | | | | | | | | | | | | | | |
| | | PG | | | | | | | | | | | | | | | | | | |
| | | PG7 | PG9 | PG11 | PG13.5 | PG16 | PG21 | PG29 | PG36 | PG42 | PG48 | | | | | | | | | |
| Male | METRIC | M12 | A | A | A | A | | | | | | | | | | | | | | |
| | | M16 | R | A | A | A | | | | | | | | | | | | | | |
| | | M20 | R | R | A | A | A | A | | | | | | | | | | | | |
| | | M25 | R | R | R | R | A | A | A | | | | | | | | | | | |
| | | M32 | R | R | R | R | R | A | A | A | | | | | | | | | | |
| | | M40 | R | R | R | R | R | R | A | A | A | | | | | | | | | |

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|--|-----|--------|---|---|---|---|---|---|---|---|---|---|---|
| | | M50 | R | R | R | R | R | R | R | R | A | A | |
| | | M63 | R | R | R | R | R | R | R | R | R | R | A |
| | | M75 | R | R | R | R | R | R | R | R | R | R | R |
| | | M80 | R | R | R | R | R | R | R | R | R | R | R |
| | | M85 | R | R | R | R | R | R | R | R | R | R | R |
| | | M90 | R | R | R | R | R | R | R | R | R | R | R |
| | NPT | 1/4" | A | A | A | A | | | | | | | |
| | | 3/8" | R | A | A | A | | | | | | | |
| | | 1/2" | R | R | A | A | A | A | | | | | |
| | | 3/4" | R | R | R | R | A | A | A | | | | |
| | | 1" | R | R | R | R | R | A | A | A | | | |
| | | 1-1/4" | R | R | R | R | R | R | A | A | A | | |
| | | 1-1/2" | R | R | R | R | R | R | R | A | A | A | |
| | | 2" | R | R | R | R | R | R | R | R | R | R | A |
| | | 2-1/2" | R | R | R | R | R | R | R | R | R | R | R |
| | | 3" | R | R | R | R | R | R | R | R | R | R | R |
| | PG | PG7 | A | A | A | A | | | | | | | |
| | | PG9 | A | A | A | A | A | | | | | | |
| | | PG11 | R | A | A | A | A | A | | | | | |
| | | PG13.5 | R | R | A | A | A | A | | | | | |
| | | PG16 | R | R | R | A | A | A | | | | | |
| | | PG21 | R | R | R | R | R | A | A | | | | |
| | | PG29 | R | R | R | R | R | R | A | A | | | |
| | | PG36 | R | R | R | R | R | R | R | A | A | A | |
| | | PG42 | R | R | R | R | R | R | R | R | A | A | |
| | | PG48 | R | R | R | R | R | R | R | R | R | R | A |

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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(2m/24h) ratings.

Service Temperature Range: -60°C to +135°C

Ex marking: Ex db I Mb, Ex eb I Mb, Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc

Ex ta IIC Da

- Producers should organize production in accordance with the technical documents approved by the certification body.

2. Specific conditions of safety use:

- For Ex db: only Metric and NPT threads can be used,

For Ex eb, Ex ta and Ex nR: Metric, NPT and PG threads can be used.

- The Rotating Adaptors Reducers, and Elbows are manufactured with a cylindrical joint between the entry body and threaded ferrule. This joint shall not be repaired.

- The Rotating Adaptors Reducers, and Elbows shall not be used outside their service temperature range of -60°C to +135°C.

- The Rotating Adaptors Reducers, and Elbows, when used in Group I (mining) applications, shall be mounted in a location with low risk of mechanical damage.

- See instruction manual for other information.

3. Certificate related report(s):

- Type test report: CQST2102C008, CQST2102C008/01

- Factory inspection report: CN2021Q010178

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4. Certificate change information:

- 1st change on April 28, 2023:

1) Updated the standards for certification.

2) The depth and duration of IP68 have been changed from 100m/7 days to 2m/24 hours.

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