



# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312313000373

**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** Adaptors and Reducers  
**Model/Type** AR\*\*\*\*\*, ARMM\*\*\*\*\*, ARFF\*\*\*\*\*,  
**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 (12 pages)

Initial issue date: 2021-05-17

Issued date: 2023-04-28

Valid to: 2026-05-16

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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[ccc.china-ex.com](http://ccc.china-ex.com)

Add: No. 20, North Zhongjing Road, Nanyang, Henan, P. R. China  
Tel: 0377-63239734

P.C.: 473008  
Email: [ccc@cn-ex.com](mailto:ccc@cn-ex.com)

CN 0001763



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**Product information:**

1. This certificate covers the following models:

- AR\*\*\*\*\*, ARMM\*\*\*\*\*, ARFF\*\*\*\*\*

The products are manufactured with the following threadform options:

Metric	GB/T197 and GB/T2516 - M16 to M100: M16×1.5, M20×1.5, M25×1.5, M32×1.5, M40×1.5, M50×1.5, M63×1.5, M75×1.5, M80×1.5, M85×1.5, M90×1.5, M100×1.5, M80×2.0, M85×2.0, M90×2.0, M100×2.0
NPT	ANSI/ASME B1.20.1 - ¼" to 4"
PG	DIN 40430 – 7 / 9 / 11 / 13.5 / 16 / 21 / 29 / 36 / 42 / 48

*Note: All threads are manufactured in accordance with GB/T3836.2 clauses 5.3 and C.2.2 (as applicable).*

**Design Options:**

O-Ring seals

O-Ring seal materials fitted to male thread forms may be provided in the following materials to suit the application:

Nitrile
Silicone
Viton
Neoprene
Fluorosilicone
EPDM

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**Material of manufacture and marking**

The Adaptors and Reducers may be manufactured from the following materials:

Brass	CW614N (CuZn 39Pb3)/ CZ121 3Pb, Ecobrass C69300/ C87850
Aluminium*	AW 6082 T6 AISI 1MgMn
Stainless Steel	1.4404/ 316L S11, 1.4401/ 316 S31, 1.4301/ 304, 1.4305/ 303

\*Not suitable for Group I use.

**Surface coating:**

The products may additionally be metal plated with either: Nickel, Zinc or Anodised (0.008 mm thick max.) to suit the application.

**Product Type Reference:**

The product type reference is derived from the following options:

A-B-C-D-E-F-G		
A - Product Type		
AR	Adaptor/Reducer Type	
ARMM		
ARFF		
B - IP Seal code		
0	No seal fitted	(-100°C to +400°C)
1	Nitrile O-ring	(-30°C to +100°C)
2	Neoprene O-ring	(-35°C to +90°C)
3	Silicone O-ring	(-60°C to +200°C)
4	Fluorosilicone O-ring	(-55°C to +200°C)

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5	Viton O-ring	(-20°C to +180°C)
6	EPDM O-ring	(-50°C to +110°C)
C - Material of manufacture		
A	Aluminium	
B	Brass	
S	Stainless Steel	
D - Protection concept code E: Ex eb I Mb, Ex eb IIC Gb 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	
AN	Anodised	
NP	Nickel Plated	
ZP	Zinc	
F - Male thread (female for ARFF) size and type		
G - Female thread (male for ARMM) size and type		

### Degree of protection

The Adaptors and Reducers, when installed in accordance with the manufacturer's instructions, are capable of providing, with an enclosure on which they are fixed, an ingress protection rating of IP 66.

The Adaptors and Reducers with parallel threads and fitted with sealing rings, when installed in accordance with the manufacturer's instructions, are capable of providing, with an enclosure on which they are fixed, an ingress protection rating of IP 66 / IPX8

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to 100 m for 7 days.

The Adaptors and Reducers with tapered threads, fitted with sealing rings and installed in clearance holes, when installed in accordance with the manufacturer's instructions, are capable of providing, with an enclosure on which they are fixed, an ingress protection rating of IP 66 / IPX8 to 100 m for 7 days.

Restricted breathing:

AR, ARMM and ARFF Adaptors and Reducers with tapered threads provide a restricted breathing seal.

AR, ARMM and ARFF Adaptors and Reducers with parallel threads and fitted with appropriate sealing rings provide a restricted breathing seal.

AR, ARMM and ARFF Adaptors and reducers with tapered or parallel threads, installed into unthreaded entry holes and fitted with appropriate sealing rings provide a restricted breathing seal.

Arrangements

The following arrangements are permitted:

Sizes marked \* have a larger hexagon size where a sealing washer is required.

		Female Thread												
		Metric												
		M16	M20	M25	M32	M40	M50	M63	M75	M80	M85	M90	M100	
Male Thread	Metric	M16	A	A										
		M20	R	A	A	A								
		M25	R	R	A	A	A							
		M32	R	R	R	A	A	A						
		M40	R	R	R	R	A	A	A					
		M50	R	R	R	R	R	A	A	A				

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	M63	R	R	R	R	R	R	R	A	A	A	A		
	M75	R	R	R	R	R	R	R	R	A	A	A	A	A
	M80	R	R	R	R	R	R	R	R	A	A	A	A	A
	M85	R	R	R	R	R	R	R	R	R	A	A	A	A
	M90	R	R	R	R	R	R	R	R	R	R	A	A	A
	M100	R	R	R	R	R	R	R	R	R	R	R	R	A

A= Adaptor R= Reducer		Female Thread													
		Metric													
		M16	M20	M25	M32	M40	M50	M63	M75	M80	M85	M90	M100		
Male Thread	NPT	1/2"	R*	A*	A	A									
		3/4"	R*	R*	A*	A	A								
		1"	R*	R*	R*	A*	A	A							
		1 1/4"	R*	R*	R*	R*	A*	A	A						
		1 1/2"	R*	R*	R*	R*	R*	A	A	A					
		2"	R*	R*	R*	R*	R*	R*	A	A	A	A			
		2 1/2"	R	R	R	R	R	R	R	A	A	A	A	A	
		3"	R*	R*	R*	R*	R*	R*	R*	R*	A*	A	A	A	A
		3 1/2"	R*	R*	R*	R*	R*	R*	R*	R*	R*	R*	R*	R*	A
		4"	R*	R*	R*	R*	R*	R*	R*	R*	R*	R*	R*	R*	R*

Female Thread
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		Metric											
		M16	M20	M25	M32	M40	M50	M63	M75	M80	M85	M90	M100
Male Thread	PG	PG9	A	A									
		PG11	A	A	A	A							
		PG13.5	R	A	A	A							
		PG16	R	A	A	A	A						
		PG21	R	R	A	A	A	A					
		PG29	R	R	R	R	A	A	A				
		PG36	R	R	R	R	R	A	A	A			
		PG42	R	R	R	R	R	A	A	A			
		PG48	R	R	R	R	R	R	A	A	A	A	

		Female Thread											
		NPT											
		½"	¾"	1"	1¼"	1½"	2"	2½"	3"	3½"	4"		
Male Thread	Metric	M16	A										
		M20	A	A	A	A							
		M25	R	A	A	A							
		M32	R	R	A	A	A						
		M40	R	R	R	A	A	A					
		M50	R	R	R	R	A	A	A				
		M63	R	R	R	R	R	A	A				

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	M75	R	R	R	R	R	R	A	A	A	
	M80	R	R	R	R	R	R	A	A	A	
	M85	R	R	R	R	R	R	R	A	A	
	M90	R	R	R	R	R	R	R	A	A	A
	M100	R	R	R	R	R	R	R	R	A	A

A= Adaptor R= Reducer		Female Thread										
		NPT										
		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	
Male Thread	NPT	1/2"	A*	A	A							
		3/4"	R*	A*	A	A						
		1"	R*	R*	A*	A	A					
		1 1/4"	R*	R*	R*	A*	A	A				
		1 1/2"	R*	R*	R*	R*	A	A	A			
		2"	R*	R*	R*	R*	R*	A	A	A		
		2 1/2"	R	R	R	R	R	R	A	A	A	
		3"	R*	R*	R*	R*	R*	R*	R*	A	A	A
		3 1/2"	R*	R*	R*	R*	R*	R*	R*	R*	A	A

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http://www.ccc-cnex.com  
ccc.china-ex.com

Add: No. 20, North Zhongjing Road, Nanyang, Henan, P. R. China  
Tel: 0377-63239734

P.C.: 473008  
Email: ccc@cn-ex.com





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		4"	R*	R*	R*	R*	R*	R*	R*	R*	R*	A
--	--	----	----	----	----	----	----	----	----	----	----	---

A= Adaptor R= Reducer			Female Thread										
			NPT										
			½"	¾"	1"	1¼"	1½"	2"	2½"	3"	3½"		
Male Thread	PG	PG9	A										
		PG11	A	A	A								
		PG13.5	A	A	A								
		PG16	A	A	A	A							
		PG21	R	A	A	A	A						
		PG29	R	R	A	A	A	A					
		PG36	R	R	R	A	A	A	A				
		PG42	R	R	R	R	R	A	A				
		PG48	R	R	R	R	R	A	A				

A= Adaptor R= Reducer			Female Thread									
			PG									
			PG9	PG11	PG13.5	PG16	PG21	PG29	PG36	PG42	PG48	
Male Thread	Metric	M16	A	A	A							
		M20	R	A	A	A	A					
		M25	R	R	R	A	A	A				

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	M32	R	R	R	R	A	A	A		
	M40	R	R	R	R	R	A	A	A	
	M50	R	R	R	R	R	R	A	A	A
	M63	R	R	R	R	R	R	R	R	A
	M75	R	R	R	R	R	R	R	R	R
	M80	R	R	R	R	R	R	R	R	R
	M85	R	R	R	R	R	R	R	R	R
	M90	R	R	R	R	R	R	R	R	R
	M100	R	R	R	R	R	R	R	R	R

A= Adaptor R= Reducer		Female Thread									
		PG									
		PG9	PG11	PG13.5	PG16	PG21	PG29	PG36	PG42	PG48	
Male Thread	NPT	½"	R*	A*	A*	A					
		¾"	R	R	R	A	A	A			
		1"	R	R	R	R	A	A	A		
		1 ¼"	R	R	R	R	R	A	A	A	
		1 ½"	R	R	R	R	R	R	A	A	A
		2"	R	R	R	R	R	R	R	R	A
		2 ½"	R	R	R	R	R	R	R	R	R

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		3"	R	R	R	R	R	R	R	R	R
		3 1/2"	R	R	R	R	R	R	R	R	R
		4"	R	R	R	R	R	R	R	R	R

A= Adaptor R= Reducer		Female Thread									
		PG									
		PG9	PG11	PG13.5	PG16	PG21	PG29	PG36	PG42	PG48	
Male Thread	PG	PG9	A	A	A	A					
		PG11	A	A	A	A	A				
		PG13.5	R	A	A	A	A				
		PG16	R	R	A	A	A	A			
		PG21	R	R	R	R	A	A	A		
		PG29	R	R	R	R	R	A	A	A	
		PG36	R	R	R	R	R	R	A	A	A
		PG42	R	R	R	R	R	R	R	A	A
PG48	R	R	R	R	R	R	R	R	A		

The following conditions are required of the manufacturing process for compliance with the certification: Aluminium devices shall not be marked with any information indicating that they are suitable for Group I use.

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

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- 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 threaded entry component threads without interface O-ring seals that are installed in explosive dust atmospheres, within threaded entries, shall only be fitted into enclosures that have either:

- Parallel entries that ensure that a minimum of 5 full threads of contact will be maintained.
- Tapered entries that ensure that a minimum of 3.5 full threads of contact will be maintained.

- Adaptors and Reducers shall not to be used for the direct inter-connection of enclosures.

- Only one adaptor or reducer is to be used with any single cable entry on the associated equipment.

- The products are approved for a temperature range at their point of mounting based upon the interface seal:

0	No seal fitted	(-100°C to +400°C)
1	Nitrile O-ring	(-30°C to +100°C)
2	Neoprene O-ring	(-35°C to +90°C)
3	Silicone O-ring	(-60°C to +200°C)
4	Fluorosilicone O-ring	(-55°C to +200°C)

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5	Viton O-ring	(-20°C to +180°C)
6	EPDM O-ring	(-50°C to +110°C)

- See instruction for other information.

3. Certificate related report(s):

- Type test report: CQST2102C002, CQST2102C002/01
- Factory inspection report: CN2021Q010178

4. Certificate change information:

- 1st change on April 28, 2023: Updated the standards for certification.

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Add: No. 20, North Zhongjing Road, Nanyang, Henan, P. R. China P.C.: 473008  
Tel: 0377-63239734

Email: [ccc@cn-ex.com](mailto:ccc@cn-ex.com)