



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312313000375

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 ARMR***** , ARFR***** , AEMF***** , AEFF***** , ATMF***** , ATFF*****
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 CNEC-C2301-2019 *Guideline of China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product*.

See Annex for the detailed product information (11 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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产品
PRODUCT
CNAS C208-P



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Product information:

1. This certificate covers the following models:

- ARMR*****, ARFR*****, AEMF*****, AEFF*****, ATMF*****, ATFF*****

Product Type Reference:

The product type reference is derived from the following options:

A-B-C-D-E-F-G		
A - Product Type		
ARMR	90° Male/Female Adaptor/Reducer	
ARFR	90° Female/Female Adaptor/Reducer	
AEMF	45° Male/Female Adaptor/Reducer	
AEFF	45° Female/Female Adaptor/Reducer	
ATMF	30° Male/Female Adaptor/Reducer	
ATFF	30° Female/Female Adaptor/Reducer	
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)
5	Viton O-ring	(-20°C to +180°C)
6	EPDM O-ring	(-50°C to +110°C)
C - Material of manufacture		
A	Aluminium	

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B	Brass
S	Stainless Steel
D – Protection concept code	
E = Ex eb, Ex ta IIIC Da	
F = Ex db, Ex eb, Ex nR IIC Gc, Ex ta IIIC Da	
E - Plating	
--	Not plated
AN	Anodised
NP	Nickel Plated
ZP	Zinc
F - Male thread (female for ARFR, AEFB and ATFF) size and type	
G - Female thread size and type	

The products are manufactured with the following threadform options:

ISO Metric	GB/T197 and GB/T2516 - 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 - 3/8" to 4"
PG	DIN 40430 – 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).

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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

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.

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

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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 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 meters for 7 days.

Arrangements

The following arrangements are permitted:

A= Adaptor R= Reducer		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									
		M25	R	R	A	A								
		M32	R	R	R	A	A							
		M40	R	R	R	R	A	A						
		M50	R	R	R	R	R	A	A					
		M63	R	R	R	R	R	R	A	A				
		M75	R	R	R	R	R	R	R	A	A	A		
		M80	R	R	R	R	R	R	R	R	A	A	A	A
		M85	R	R	R	R	R	R	R	R	R	A	A	A
M90	R	R	R	R	R	R	R	R	R	R	A	A		

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		M100	R	R	R	R	R	R	R	R	R	R	R	A
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A= Adaptor R= Reducer		Female Thread													
		Metric													
		M16	M20	M25	M32	M40	M50	M63	M75	M80	M85	M90	M100		
Male Thread	NPT	3/8"	A	A											
		1/2"	R	A	A										
		3/4"	R	R	A	A									
		1"	R	R	R	A	A								
		1 1/4"	R	R	R	R	A	A							
		1 1/2"	R	R	R	R	R	A	A						
		2"	R	R	R	R	R	R	A	A					
		2 1/2"	R	R	R	R	R	R	R	A	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

A= Adaptor R= Reducer		Female Thread												
		Metric												
		M16	M20	M25	M32	M40	M50	M63	M75	M80	M85	M90	M100	
Male Thread	PG	PG9	A											
		PG11	A	A										
		PG13.5	A	A	A									
		PG16	A	A	A									
		PG21	R	A	A	A								

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	PG29	R	R	A	A	A							
	PG36	R	R	R	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											
		NPT											
		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"		
Male Thread	Metric	M16	A	A									
		M20	R	A	A								
		M25	R	R	A	A							
		M32	R	R	R	A	A						
		M40	R	R	R	R	A	A					
		M50	R	R	R	R	R	A	A				
		M63	R	R	R	R	R	R	A	A			
		M75	R	R	R	R	R	R	R	A	A	A	
		M80	R	R	R	R	R	R	R	A	A	A	
		M85	R	R	R	R	R	R	R	A	A	A	
		M90	R	R	R	R	R	R	R	R	A	A	
M100	R	R	R	R	R	R	R	R	R	A			

A= Adaptor R= Reducer		Female Thread										
		NPT										

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		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"
Male Thread	NPT	1/2"	A	A							
		3/4"	R	A	A						
		1"	R	R	A	A					
		1 1/4"	R	R	R	A	A				
		1 1/2"	R	R	R	R	A	A			
		2"	R	R	R	R	R	A	A		
		2 1/2"	R	R	R	R	R	R	A	A	
		3"	R	R	R	R	R	R	R	A	A
		3 1/2"	R	R	R	R	R	R	R	R	A
	4"	R	R	R	R	R	R	R	R	R	A

A= Adaptor R= Reducer		Female Thread									
		NPT									
		3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"
Male Thread	PG	PG9	A								
		PG11	A	A							
		PG13.5	A	A	A						
		PG16	A	A	A						
		PG21	R	A	A	A					
		PG29	R	R	A	A	A				
		PG36	R	R	R	A	A	A			
		PG42	R	R	R	R	R	A	A		

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		PG48	R	R	R	R	R	A	A		
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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				
		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	R	A
		M75	R	R	R	R	R	R	R	R	R	R
		M80	R	R	R	R	R	R	R	R	R	R
		M85	R	R	R	R	R	R	R	R	R	R
		M90	R	R	R	R	R	R	R	R	R	R
		M100	R	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		

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	1¼"	R	R	R	R	R	A	A	A	
	1½"	R	R	R	R	R	R	A	A	A
	2"	R	R	R	R	R	R	R	R	A
	2½"	R	R	R	R	R	R	R	R	R
	3"	R	R	R	R	R	R	R	R	R
	3½"	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					
		PG13.5	R	A	A	A					
		PG16	R	R	A	A					
		PG21	R	R	R	R	A	A			
		PG29	R	R	R	R	R	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.
- Blanking elements shall not be used in conjunction with an adapter or reducer when installed into a flameproof 'Ex db' applications.
- The Ingress Protection rating that is required to ensure compliance with the standards used in this certificate was determined by testing the devices fitted into a representative enclosure having a smooth flat mounting surface. In practice, the interface between the male thread of the adapters/reducers and their associated enclosure cannot be defined; therefore, it is the user's responsibility to ensure that the appropriate Ingress Protection level is maintained at these interfaces.
- The parallel threaded entry component threads will be suitably sealed using a method that is applicable to the associated equipment to which the adapters/reducers will be attached. This will be in accordance with the relevant installation code of practice and will ensure that any ingress protection requirements are maintained.
- The threaded entry component threads without interface O-ring seals installed in an explosive dust atmosphere, within threaded entries, shall only be fitted into enclosures with 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

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

- See instruction manual for other information.

3. Certificate related report(s):

- Type test report: CQST2102C004, CQST2102C004/01
- Factory inspection report: CN2021Q010178

4. Certificate change information:

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

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