

OR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312313000373

Applicant Peppers Cable Glands Limited

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

Peppers Cable Glands Limited Manufacturer

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

AR*****, ARMM*****. ARFF***** Model/Type

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

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

GB/T 3836.8-2021, GB/T 3836.31-2021

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

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

Valid to: 2026-05-16 Issued date: 2023-04-28

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.





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



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

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

Tel: 0377-63239734 Email: ccc@cn-ex.com



(Annex)

No.: 2021312313000373

Page 1 of 12

Product information:

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 - 1/4" 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	20,
Viton	
Neoprene	776
Flurorosilicone	
EPDM	

Issued date: 2023-04-28

Director:









(Annex)

No.: 2021312313000373

Page 2 of 12

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 Typ	e							
AR								
ARMM	Adaptor/Reducer Type	Adaptor/Reducer Type						
ARFF								
B - IP Seal cod	e	(Care						
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	Neoprene O-ring Silicone O-ring	(-35°C to +90°C) (-60°C to +200°C)						

Issued date: 2023-04-28

Director:





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No.: 2021312313000373

Page 3 of 12

5	Viton O-ring	(-20°C to +180°C)
6	EPDM O-ring	(-50°C to +110°C)
C - Material o	of manufacture	25 <u>, in 1</u> 1111111111111111111111111111
A	Aluminium	
В	Brass	
S	Stainless Steel	
	o, Ex eb IIC Gb o, Ex db IIC Gb, Ex eb I Mb, Ex	eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da
	o, Ex db IIC Gb, Ex eb I Mb, Ex	eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da
F: Ex db I Mb		eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da
F: Ex db I Mb E - Plating	o, Ex db IIC Gb, Ex eb I Mb, Ex	eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da
F: Ex db I Mb E - Plating	o, Ex db IIC Gb, Ex eb I Mb, Ex Not plated	eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da
F: Ex db I Mb E - Plating AN NP	Not plated Anodised	eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da
F: Ex db I Mb E - Plating AN NP ZP	Not plated Anodised Nickel Plated	

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

Issued date: 2023-04-28

Director:









(Annex)

No.: 2021312313000373

Page 4 of 12

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.

	Adapt		STANING	linesto.				Fema	le Threa	ıd				
R=	Redu	cer			Solver			N	letric					
			M16	M20	M25	M32	M40	M50	M63	M75	M80	M85	M90	M100
200	7277	M16	Α	Α			19							77711
ad	Thread etric	M20	R	Α	Α	Α		10	<i>2011</i> 11111	1111///	7/1/////		de servicio de la companya della companya della companya de la companya della com	HILLIE
hre	Metric	M25	R	R	Α	Α	Α	1116		HILLIAN	HERE	MUMBER	MARIN	MANITON
le T	Me	M32	R	R	R	A	Α	Α	(6)		JJJJ)}}}	11/22/21	111111111111111111111111111111111111111	// //
Male		M40	R	R	R	R	Α	Α	A					WITH CO
		M50	R	R	R	R	R	Α	Α	A	(IIII)	anna (111111111	000

Issued date: 2023-04-28

Director:









(Annex)

No.: 2021312313000373

Page 5 of 12

1770	M63	R	R	R	R	R	R	A	Α	Α	Α		
1000	M75	R	R	R	R	R	R	R	Α	Α	Α	Α	A
	M80	R	R	R	R	R	R	R	Α	Α	Α	Α	Α
200	M85	R	R	R	R	R	R	R	R	Α	Α	Α	Α
	M90	R	R	R	R	R	R	R	R	R	Α	Α	A
Jya(C	M100	R	R	R	R	R	R	R	R	R	R	R	Α

	Adapto							Fema	ale Thre	ad	٧,,,,	. 13		
R= F	Reduc	er	13.7					ı	Metric	16				
			M16	M20	M25	M32	M40	M50	M63	M75	M80	M85	M90	M100
	1.7	1/2"	R*	A*	Α	Α								
		3/4"	R*	R*	A*	Α	Α			2,	-10			
		1"	R*	R*	R*	A*	Α	Α						
D D		11/4"	R*	R*	R*	R*	A*	Α	Α					
hrea	F-	1½"	R*	R*	R*	R*	R*	Α	А	Α		E mini		
Male Thread	NPT	2"	R*	R*	R*	R*	R*	R*	Α	Α	Α	Α		
Σ E		21/2"	R	R	R	R	R	R	R	Α	Α	Α	А	Α
		3"	R*	R*	R*	R*	R*	R*	R*	R*	A*	Α	Α	Α
	0011	31/2"	R*	R*	R*	R*	R*	R*	R*	R*	R*	R*	R*	А
		4"	R*	R*	R*	R*	R*	R*	R*	R*	R*	R*	R*	R*

Female Thread

Issued date: 2023-04-28

Director:









(Annex)

No.: 2021312313000373

Page 6 of 12

								М	etric					
			M16	M20	M25	M32	M40	M50	M63	M75	M80	M85	M90	M100
3	900)	PG9	Α	Α	(G)(U)	(((())	ico:							
ÙŅ.	77.500	PG11	Α	Α	Α	Α	1000	(re	20,					
vui		PG13.5	R	Α	Α	Α	Dian	11/17						
ead		PG16	R	Α	Α	Α	Α	5	Hing.					
Thr	PG	PG21	R	R	Α	Α	Α	Α	17					
Male Thread		PG29	R	R	R	R	Α	Α	Α					
_		PG36	R	R	R	R	R	Α	Α	A				
		PG42	R	R	R	R	R	Α	Α	Α				
		PG48	R	R	R	R	R	R	A	Α	Α	Α		1000

	daptor						Femal	le Threa	d	100		
R= R	educe	r					ı	VPT			The state of the s	
			1/2"	3/4"	1"	11/4"	1½"	2"	21/2"	3"	3½"	4"
		M16	Α									
		M20	Α	Α	Α	A						
ead		M25	R	Α	Α	Α						
Ţ	Metric	M32	R	R	Α	Α	Α					
Male Thread	Σ	M40	R	R	R	Α	A	Α				
		M50	R	R	R	R	Α	Α	Α			
		M63	R	R	R	R	R	Α	A		71/11/11	(iliter

Issued date: 2023-04-28

Director:









OR CHINA COMPULSORY PRODUCT CERTIFICATION (Annex)

No.: 2021312313000373

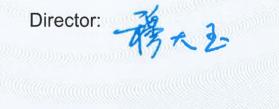
Page 7 of 12

	M75	R	R	R	R	R	R	Α	Α	Α	
0.000	M80	R	R	R	R	R	R	Α	Α	Α	
	M85	R	R	R	R	R	R	R	Α	Α	
900 A.	M90	R	R	R	R	R	R	R	Α	Α	A
	M100	R	R	R	R	R	R	R	R	Α	A

	dapto:						Femal	e Threa	d						
1.7 1.	(Cauce	ž1		NPT											
			1/2"	3/4"	1"	11/4"	1½"	2"	2½"	3"	3½"	4"			
		1/2"	A*	Α	Α										
		3/4"	R*	A*	Α	Α									
		1"	R*	R*	A*	A	A								
Male Thread		11/4"	R*	R*	R*	A*	A	Α				(1)			
	TAN	1½"	R*	R*	R*	R*	A	Α	A						
	-	2"	R*	R*	R*	R*	R*	A	Α	Α					
		2½"	R	R	R	R	R	R	Α	A	A				
		3"	R*	R*	R*	R*	R*	R*	R*	Α	A	Α			
		3½"	R*	R*	R*	R*	R*	R*	R*	R*	Α	A			

Issued date: 2023-04-28











No.: 2021312313000373

Page 8 of 12

www.	4"	R*	R*	R*	R*	R*	R*	R*	R*	R*	A
The second		Chilian -	8 (30)		93) niveo		2001	(1 <i>77799</i>))))	Walter of		

A= Adaptor					410	Female	Thread	1000						
R= R	Reduce	er	355000	NPT										
				3/4"	1"	11/4"	11/2"	2"	21/2"	3"	3½"			
na.	1000	PG9	Α					Tre						
ad		PG11	Α	Α	Α				77					
		PG13.5	Α	Α	Α									
		PG16	Α	Α	Α	Α								
Male Thread	B	PG21	R	Α	Α	Α	Α							
Male		PG29	R	R	Α	Α	Α	Α						
		PG36	R	R	R	Α	Α	Α	Α					
		PG42	R	R	R	R	R	А	Α					
	100	PG48	R	R	R	R	R	Α	Α					
	1 (1/2)		11.3435			18 (73 TO TO THE PARTY OF THE PARTY				

A= Adaptor R= Reducer						Fe	male Thre	ead			
			PG								
			PG9	PG11	PG13.5	PG16	PG21	PG29	PG36	PG42	PG48
Thread		M16	Α	Α	Α	100					
Male Thre	etric	M20	R	Α	Α	Α	A				
	Σ	M25	R	R	R	Α	Α	Α			(Tage)

Issued date: 2023-04-28











(Annex)

No.: 2021312313000373

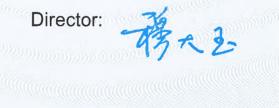
Page 9 of 12

	M32	R	R	R	R	Α	Α	Α		
((news	M40	R	R	R	R	R	Α	Α	Α	
100	M50	R	R	R	R	R	R	Α	Α	Α
3311	M63	R	R	R	R	R	R	R	R	Α
000	M75	R	R	R	R	R	R	R	R	R
luces -	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		(Minner	Female Thread PG										
		PG9	PG11	PG13.5	PG16	PG21	PG29	PG36	PG42	PG48			
		1/2"	R*	A*	A*	Α							
Male Thread		3/4"	R	R	R	Α	Α	Α		1211111111111111			
	NPT	1"	R	R	R	R	A	Α	Α				
		1 1/4"	R	R	R	R	R	Α	Α	А			
	Z	1 ½"	R	R	R	R	R	R	Α	Α	Α		
		2"	R	R	R	R	R	R	R	R	Α		
		2 1/2"	R	R	R	R	R	R	R	R	R		

Issued date: 2023-04-28











OR CHINA COMPULSORY PRODUCT CERTIFICATION (Annex)

No.: 2021312313000373

Page 10 of 12

	3"	R	R	R	R	R	R	R	R	R
(III)	3 ½"	R	R	R	R	R	R	R	R	R
100 ON	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		
		PG9	Α	Α	Α	Α							
ad	PG11	Α	Α	Α	Α	Α	e.						
		PG13.5	R	Α	Α	Α	Α						
		PG16	R	R	Α	Α	Α	Α					
Thread	ည	PG21	R	R	R	R	Α	Α	Α				
Male		PG29	R	R	R	R	R	Α	Α	Α			
		PG36	R	R	R	R	R	R	Α	Α	Α		
		PG42	R	R	R	R	R	R	R	Α	Α		
		PG48	R	R	R	R	R	R	R	R	Α		

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

Issued date: 2023-04-28

Director:





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



P.C.: 473008



ATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION (Annex)

No.: 2021312313000373

Page 11 of 12

- Producers should organize production in accordance with the technical documents approved by the certification body.
- Specific conditions of safety use:
 - For Ex db: only Metric and NPT threads can be used,

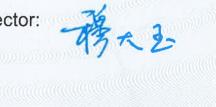
For Ex eb, Ex ta and Ex nR: Metric, NPT and PG threads can be used.

- 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)	1111111
4	Fluorosilicone O-ring	(-55°C to +200°C)	

Issued date: 2023-04-28

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(Annex)

No.: 2021312313000373

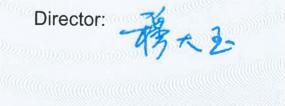
Page 12 of 12

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

- See instruction for other information.
- Certificate related report(s):
 - Type test report: CQST2102C002, CQST2102C002/01
 - Factory inspection report: CN2021Q010178
- Certificate change information:
 - 1st change on April 28, 2023: Updated the standards for certification.

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