

# 防爆合格证

## Electrical Apparatus for Explosive Atmospheres CERTIFICATE OF CONFORMITY



国家防爆

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

**Product** Breather Drains

**Type** ACDP\*\*\*\*\*

**Marking** Ex eb IIC Gb/Ex eb I Mb/Ex ta IIIC Da

**Standard(s)** --

**Drawing No.** PCG/ATX/ACDP

The drawings, technical documents and the samples are verified and certified according to standard(s) for safety as below:

GB/T3836.1-2021	Explosive atmospheres - Part 1: Equipment - General requirements
GB/T3836.3-2021	Explosive atmospheres - Part 3: Equipment protection by increased safety "e"
GB/T3836.31-2021	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

**Note:**

See Annex (3 pages in total).

**Director**

**Date:**

2023-06-29

**Valid until:**

2026-12-14



NANYANG EXPLOSION PROTECTED ELECTRICAL APPARATUS RESEARCH INSTITUTE

国家防爆电气产品质量检验检测中心

CHINA NATIONAL QUALITY SURVEY AND TEST CENTER FOR EXPLOSION PROTECTED ELECTRICAL PRODUCTS

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Note: This certificate is only valid for products which are identical with the sample(s) tested and verified. Holder of this certificate has the responsibility to ensure the products comply with relevant standards.



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1. This product has been certified, under certificate number IECEx CML 19.0105X , issue 0, dated 2019-10-10 and Test report GB/CML/ExTR19.0133/00 dated 2019-10.
2. Design options:

The breather drain may have the following threads:		
M12	M25	3/8" NPT
M16	M32	1/2" NPT
M20		1/4" or 3/4" NPT

'O' ring seals materials fitted to male thread forms may be provided in the following materials to suit the application:	
Nitrile O-ring	Fluorosilicone O-ring
Neoprene O-ring	Viton O-ring
Silicone O-ring	EPDM O-ring

**Materials of Manufacture and Marking:**

Brass grade CW614N (CuZn 38Pb4)/ CZ121 4Pb	Ex eb IIC Gb, Ex eb I Mb, Ex ta IIIC Da
Brass grade Ecobross C69300	Ex eb IIC Gb, Ex eb I Mb, Ex ta IIIC Da
Stainless Steel 1.4401/ 316 S31	Ex eb IIC Gb, Ex eb I Mb, Ex ta IIIC Da
Stainless Steel 1.4404/ 316 S11	Ex eb IIC Gb, Ex eb I Mb, Ex ta IIIC Da
Stainless Steel 1.4301/ 304	Ex eb IIC Gb, Ex eb I Mb, Ex ta IIIC Da
Aluminium AW6082/ AW 6262/ 6082T6	Ex eb IIC Gb, Ex ta IIIC Da

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

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## 3. Product Type Ref:

The product type is derived from the following options:

A-B-C-D-E-F-G

Type	A	B	C	D	E	F	G
A	Product type Breather drain ACDP =						
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 B = Brass S = Stainless-Steel						
D	Protection concept code E - Ex eb I Mb/ Ex eb IIC Gb/ Ex ta IIIC Da						
E	Plating OO = Not plated NP = Nickel plated ZP = Zinc AN = Anodized						
F	Thread size Metric = M12/M16/M20/ M25/ M32 NPT = 1/4" / 3/8" / 1/2" / 3/4"						
G	Lock nut X = No lock nut S = Stainless Steel Option						

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### 4. Specific conditions of safety use:

- Ingress protection: IP66.
  - The breather/drains are only suitable for bottom entry applications within associated Ex eb and Ex ta enclosures.
  - The products are approved for a temperature range at their point of mounting based upon the interface seal and material combinations of construction:
    - No seal fitted (-100°C to +400°C)
    - Nitrile O-ring (-30°C to +100°C)
    - Neoprene O-ring (-35°C to +90°C)
    - Silicone O-ring (-60°C to +200°C)
    - Fluorosilicone O-ring (-55°C to +200°C)
    - Viton O-ring (-20°C to +180°C)
    - EPDM O-ring (-50°C to +110°C)
  - When no seal is fitted and the breather drain is installed in an increased safety (Ex e) enclosure, the user shall ensure that a minimum degree of protection IP54 is maintained.
  - When used in explosive dust atmospheres, the breather drain shall be fitted with sealing a ring except when installed into a tapered threaded hole. In this case the short threaded versions 10 mm (¼" NPT, ⅜" NPT) or 13 mm (½" NPT, ¾" NPT) shall be used to ensure that a minimum of 3 full threads of contact will be maintained.
  - The M12 and ¼" NPT threaded breather drains made of brass and intended for mining (Group I) applications shall be installed in areas where they are subject to low risk of mechanical impact or are protected from mechanical damage.
5. Renewal the certificate due to the change of standards.

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