



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx SIR 09.0132U issue No.:0 Certificate history:

Status: Current

Date of Issue: 2010-03-05 Page 1 of 4

Applicant: **Peppers Cable Glands Ltd**
Stanhope Road
Camberley
Surrey
GU15 3BT
United Kingdom

Electrical Apparatus: **ACDP Breather Drains**
Optional accessory:

Type of Protection: **Increased Safety and Dust**

Marking: **Ex e IIC Gb**
Ex e I Mb
Ex tb IIIC Db IP66

Approved for issue on behalf of the IECEx
Certification Body:

D R Stubbings BA MIET

Position:

Certification Manager

Signature:
(for printed version)

Date:

2010-03-05

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

SIRA Certification Service
Rake Lane
Eccleston
Chester
CH4 9JN
United Kingdom

sira
CERTIFICATION



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Manufacturer: **Peppers Cable Glands Ltd.**
Stanhope Road
Camberley
Surrey
GU15 3BT
United Kingdom

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2007-10 Explosive atmospheres - Part 0: Equipment - General requirements
Edition: 5

IEC 60079-31 : 2008 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure 't'
Edition: 1

IEC 60079-7 : 2006-07 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition: 4

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[GB/SIR/ExTR10.0032/00](#)

Quality Assessment Report:

[GB/SIR/QAR06.0018/01](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The breather drain plug is designed to allow moisture emission from Ex e and Ex tb enclosures and to allow air within the enclosure to breathe with the surrounding atmosphere. The device body may be manufactured from aluminium, brass or stainless steel with a 10 mm long metric or NPT thread. The body is machined to house a sintered bronze filter. Drainage channels through the body allow for the passage of moisture through the filter

The device may be screwed into the wall of an enclosure or into a through hole, being secured by a castellated locknut

The parallel threaded Breather Drains may be fitted with or without an O-ring seal, refer to the annexe for approved seals. When fitted with an O-ring seal and screwed into the wall of an enclosure or into a through hole, being secured with a castellated locknut, they will maintain IP66 degree of protection

See Annexe for Design Options and EQUIPMENT (continued) Special points for noting.

The Manufacturer shall comply with the following condition of manufacture:

1. Breather drains manufactured from aluminium shall not be marked for Group I use.

CONDITIONS OF CERTIFICATION: NO



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EQUIPMENT(continued):

SPECIAL POINTS FOR NOTING

1. The breather drains are only suitable for bottom entry applications within associated Ex e and Ex tb enclosures.
2. 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.
3. When used in explosive dust atmospheres, the breather drain shall be fitted with sealing ring.

Annexe to: IECEx SIR 09.0132U Issue 0
Applicant: Peppers Cable Glands Ltd
Apparatus: ACDP Breather Drains



Tapered threaded Breather Drain may be fitted with or without an O-ring seal, see below for approved seals. When fitted with an O-ring seal and secured into a through hole, they will maintain IP66 degree of protection.

Design Options

Extended Thread Length:

The breather drain plug may be machined with a long thread. Long threads have two additional drainage channels machined into the thread.

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

'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:

The breather drain plugs may be manufactured from the following materials:

Brass grade CW614 (CuZn 39Pb3)/ CZ121 3Pb	I M2 / II 2G
Brass grade CW617N (CuZn 40Pb2)/ CZ122	I M2 / II 2G
Brass grade CW614N (CuZn 38Pb4)/ CZ121 4Pb	I M2 / II 2G
Brass grade Ecobrass C69300/ C87850	I M2 / II 2G
Stainless Steel 1.4401/ 316 S31	I M2 / II 2G
Stainless Steel 1.4404/ 316 S11	I M2 / II 2G
Stainless Steel 1.4305/ 303	I M2 / II 2G
Stainless Steel 1.4301/ 304	I M2 / II 2G
Aluminium AW6082/ AW 6262/ 6082TF	II 2G
Aluminium B21.1.90 AA6262T9/ 6262T9	II 2G

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

Annexe to: IECEx SIR 09.0132U Issue 0
Applicant: Peppers Cable Glands Ltd
Apparatus: ACDP Breather Drains



Product Type Ref:

The product type is derived from the following options:

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

A Product Type

ACDP = Breather drain

B Material of manufacture

A = Aluminium

B = Brass

S = Stainless Steel

C 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)

D Certification order code

E Plating

OO = Not plated

NP = Nickel Plated

ZP = Zinc

TP = Tin

F Thread Size

Metric = M20/ M25/ M32

NPT = 1/2" / 3/4"

G Lock nut

X = No lock nut

Date: 04 March 2010

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Sira Certification Service

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