



1 **EC-TYPE EXAMINATION CERTIFICATE**

2 Component Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number : SIRA99ATEX3050U

Classification Index : 18

4 Range of Breather / Drains for Ex e Enclosures

5 Applicant :

Redapt Engineering Company Limited

6 Address :

Units 46 & 47 Darlaston Central Trading Estate
Salisbury Street
Darlaston
West Midlands
WS10 8XB

7 This component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of the Council Directive 94/9/EC of 23 march 1994, certifies that this component has been found to comply with the relevant Essential Health and Safety Requirements relating to the design and construction of components intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report number R51X5803A.

9 Compliance with the Essential Health and Safety Requirements, with exception to those listed in the schedule to this certificate, has been assured by compliance with the following documents :

EN 50014:1997
EN 50019:1994
EN 50281-1-1:1998

10 The sign 'U' is placed after the certificate number, to indicate that the product assessed is a component and may be subject to further assessment when incorporated into equipment. Any special conditions for safe use are listed in the schedule to this certificate.

Project Number 51X5803A
Date 1 October 1999

M D Shearman
Certification Manager

Sira Certification Service

Rake Lane, Eccleston, Chester, CH4 9JN, England
Tel: +44 (0) 1244 670900 Fax: +44 (0) 1244 681330
Email: exhazard@sirac.co.uk

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11 This EC-Type Examination Certificate relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

12 The marking of the component shall include the following:-



I M2 II 2 DG EEx e I/II (Group I and II applications)

or



II 2 DG EEx e II (Group II applications)

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SCHEDULE

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13 DESCRIPTION OF COMPONENT

The Breather / Drains are designed to allow moisture emission from Increased Safety Type 'Ex e' enclosures. Each device comprises a brass body with an M20 or M25 entry thread. The body is machined such that a moisture seal, manufactured from Hydrophilic Polyethylene, can be pressed in place. Drainage channels through the body allow for the passage of moisture through the seal.

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

Design Options

Alternative materials of manufacture:

Groups I and II - Mild Steel or Stainless Steel

Group II only - Glass filled nylon (Durathon glass filled nylon BKV30) or Aluminium

Alternative equivalent entry threads in NPT, NPS BSPP, BSPT, Imperial Conduit, ET or Pg.

Alternative suitable metallic plating of metallic variants.

14 DESCRIPTIVE DOCUMENTS

14.1	Drawing No.	Issue	Sheet	Date	Title
	98-S-10	1	1 of 1	-	EExe II Breather Drain
	98-S-11	1	1 of 1	-	Castellated Locknut

14.2 Report NoR51X5803A

15 SPECIAL CONDITIONS FOR SAFE USE

15.1 These components shall be used on equipment where the temperature range, at the point of mounting, is within -50 °C to 85°C.

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ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSR'S)

The table below lists all relevant EHSR's not addressed by the standards listed in this certificate. These EHSR's have been assessed in report no. R51X5803A.

Annex II Clause Number	Title
1.0.2	Analysis of possible operating faults
1.0.3	Special checking and maintenance conditions
1.0.6	Instructions
1.1.3	Changes in characteristics of materials and combinations thereof
1.2.2	Components for incorporation or replacement
1.2.5	Additional means of protection
1.2.7	Protection against other hazards
1.4.2	Withstanding attack by aggressive substances
1.3.5	Hazards arising from pressure compensation operations

17 CONDITIONS OF CERTIFICATION

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of SCS certificates.
- 17.2 This certificate relates only to the component specified herein as executed in the samples supplied for evaluation.
- 17.3 In affixing the Sira certificate number to the component the applicant attests on his own responsibility that the apparatus conforms to the documents listed herein.

If the marked component is found not to comply Sira Certification Service should be notified immediately at its offices at South Hill, Chislehurst, Kent BR7 5EH, England.

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