



1 **EC-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number : SIRA99ATEX3050U

4 Component: 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 R51X5803C.

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 51X5803
Date 1 October 1999
Re-issued 9 February 2000
Re-issued 17 February 2000
C. Index : 18

M D Shearman
Certification Manager

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Sira Certification Service

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EC-TYPE EXAMINATION CERTIFICATE NUMBER

SIRA99ATEX3050U

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)

Re-issued 9 February 2000

To permit report number R51X5803B to replace report number R51X5803A that contained a typographical error. The re-issue also incorporates variation 1 dated 19 November 1999.

Re-issued 17 February 2000

To recognise the issue of report number R51X5803C, which corrects the test references in report number R51X5803B and replaces that document.

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SCHEDULE

EC-TYPE EXAMINATION CERTIFICATE NUMBER

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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 filter.

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 metalidic 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
98-S-10/NYLON	1	1 of 1	Nov 99	G.F. Nylon Breather Drain

14.2

Report No R51X5803C

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.

Date

1 October 1999

Re-issued

9 February 2000

Re-issued

17 February 2000

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16 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. R51X5803C.

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.

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EC TYPE - EXAMINATION CERTIFICATE VARIATION

CERTIFICATE NUMBER	SIRA99ATEX3050U	Dated	1 October 1999
VARIATION NUMBER	1 (ONE)	Dated	19 November 1999

VARIATION TO COMPONENT

To permit:

- 1 The following modifications of the glass filled nylon variants:
 - The introduction of an additional internal capillary
 - The re-positioning of the external drain holes

DESCRIPTIVE DOCUMENTS

Number	Sheet	Rev	Date	Description
98-S-10/NYLON	1 of 1	1	Nov 99	G.F. Nylon Breather Drain

ADDITIONAL CONDITIONS OF CERTIFICATION

None

File No 51V6482

Report No. NA

M D Shearman
Certification Manager

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Page 1 of 1

ST&C (Chester) Form 9054A Issue 2

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