



Intertek ETL SEMKO

1. **EC-TYPE EXAMINATION CERTIFICATE**

2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**
3. EC-Type Examination Certificate Number: **ITS03ATEX21357U**
4. Equipment or Protective System: **BDI BURST DISC INDICATOR**
5. Manufacturer: **CONTINENTAL DISC CORPORATION**
6. Address: **3160 West Heartland Drive, Liberty, Missouri 64068 – 3385, USA**
7. This component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
8. The Intertek Testing and Certification Limited, notified body number 0359 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 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:
ITS Report Re 03009980, dated September 2003
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014:1977 + Amds 1 & 2 and EN 50020:2002
except in respect of those requirements listed at item 18 of the Schedule.
10. The sign "U" placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.
11. This EC Type Examination Certificate relates only to the design, examination and tests of the specified component in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.
12. The marking of the component shall include the following:-



II 2 G D, EEx ia IIC (Tamb = -40°C to +204°C)

R M Adams
Certification Manager
10 February 2005

Intertek Testing & Certification Limited
Intertek House, Cleeve Road, Leatherhead, Surrey
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Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA

This certificate may only be reproduced in its entirety and without any change, schedule included.

This certificate, originally dated 17 September 2003, has been re-issued to correct maximum power input parameter.

13. **Schedule**
14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS03ATEX21357U
15. DESCRIPTION OF COMPONENT.

The BDI BURST DISC INDICATOR consists essentially of two parallel flexible copper strips located between layers of Kapon film. The strips are linked at the end remote to the electrical connections. The center section of each strip is reduced in width.

The copper strip assembly is mounted on a Teflon membrane and is installed between pipeline flanges. The assembly may be integral with a bursting disc or mounted separately from, but adjacent to, a bursting disc.

The maximum intrinsically safe input parameters are as follows:

$U_i = 24 \text{ V dc}$
 $I_i = 50 \text{ mA dc}$
 $P_i = 0.3 \text{ W}$

The equivalent parameters are:

$C_i = 0$
 $L_i = 0$

16. REPORT NO. ITS Report Ref 03009980, dated September 2003

17. SCHEDULE OF LIMITATIONS

1. The arrangements for connection of external circuits must comply with the requirements of Clause 6.3 of EN 50020.
2. The component must be housed in an enclosure which provides a Degree of Protection of at least IP20

18. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The Essential Health and Safety Requirements not covered by Standards listed at 9 are identified in ITS Report Ref 03009980, September 2003.

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13.

Schedule

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19. DRAWINGS

Reference	Rev	Date	Description
6176-1	P	4-29-03	1" to 3" Disc Assembly
6176-3	P	4-29-03	14" to 36" Disc Assembly
6214	D	8-1-96	1" to 3" Membrane
6215	D	8-1-96	4" to 36" Membrane
6216, Sheet 1	B	12-15-97	1" to 3" Alarm Strip Template
6217, Sheet 2	B	12-15-97	4" to 36" Alarm Strip Template
4032	F	3-17-03	1" to 12" Copper Indicator Strip
3390	N	12-27-00	14" and Larger Copper Indicator Strip
5397	P	9-8-03	Burst Disc Indicator Strip Label

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