



# 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](http://www.iecex.com)

Certificate No.:

IECEx CES 10.0003U

issue No.:1

Status:

Current

Certificate history:

Issue No. 1 (2012-12-3)

Issue No. 0 (2010-6-11)

Date of Issue:

2012-12-03

Page 1 of 4

Applicant:

**CORTEM S.p.A.**  
Via Aquileia 10  
I - 34070 Villesse (GO)  
Italy

Electrical Apparatus:  
*Optional accessory:*

**Conductor sealing bushings type NPS, TP, NCS, CP and LPS**

Type of Protection:

**Flameproof enclosures 'd'; Dust ignition protection 't'**

Marking:

**Ex d IIC Gb**  
**Ex tb IIIC Db, IP66/67 (for NPS type only).**

*Approved for issue on behalf of the IECEx  
Certification Body:*

Mirko Balaz

*Position:*

Head of IECEx CB

*Signature:  
(for printed version)*

*Date:*

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:

**CESI**  
**Centro Elettrotecnico**  
**Sperimentale Italiano S.p.A.**  
Via Rubattino 54  
20134 Milano  
Italy

**CESI**



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Certificate No.: IECEx CES 10.0003U

Date of Issue: 2012-12-03

Issue No.: 1

Page 2 of 4

Manufacturer: **CORTEM S.p.A.**  
Via Aquileia 10  
I - 34070 Villesse (GO)  
**Italy**

Additional 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:

<b>IEC 60079-0 : 2011</b> Edition: 6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2007-04</b> Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2008</b> Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"

*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:

[IT/CES/ExTR10.0007/00](#)

[IT/CES/ExTR10.0007/01](#)

### Quality Assessment Report:

[IT/CES/QAR06.0002/06](#)



# IECEx Certificate of Conformity

Certificate No.: IECEx CES 10.0003U

Date of Issue: 2012-12-03

Issue No.: 1

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The conductor bushings, type **NPS** are the sealing bushings with two threaded joints (male-male same sizes sealing nipple) and serves as electrical connection between flameproof enclosures or between a flameproof enclosures and an enclosures with another type of protection.

The sealing bushings type **CP..**, **TP..** and **LPS..** are bushings with a threaded or cylindrical joint and can be used for the passage of cabling between two separate inner enclosure compartments with different types of protection.

The **NPS..** types are bushings with two threaded joints (male-male same sizes nipple) while types **NCS..** are bushings with one threaded joint and one cylindrical joint. For sealing bushings type **TP..**, **NPS..** and **NCS..** the standard threads are cylindrical ISO Metric 965/1 and ISO 965/3 from M10x1.5 up to M42X1.5 or tapered NPT ANSI ASME B1.20.1 from 1/8" up to 1"1/2. Alternatively other threads can be supplied.

The standard service temperature range for fittings is from -50°C to +110 °C wit the exception of the bushings made of carbon steel A 105 (-20°C to +110 °C).

For the technical data and the schedule of limitation for manufacturing and operation see Annex..

### CONDITIONS OF CERTIFICATION: NO



# IECEx Certificate of Conformity

Certificate No.: IECEx CES 10.0003U

Date of Issue: 2012-12-03

Issue No.: 1

Page 4 of 4

## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

### Variation 1.1

The sealing bushings type **NPS..** originally assessed in compliance with IEC 60079-0: 2004, IEC 60079-1:2007, IEC 61241-0:2004 and IEC 61241-1:2004, have been re-assessed on the basis of the standard:

- IEC 60079-0: 2011 - Electrical apparatus for explosive atmospheres - Part 0: general requirements.
- IEC 60079-31: 2008 - Electrical apparatus for use in the presence of combustible dust - Part 31: protection by enclosures "t".

Upgraded the marking of the components in compliance to the new standards assessed, including the equipment protection level (EPL) "**Gb**" or "**Db**".

### Variation 1.2

To the sealing bushings type **NPS..** has been added the new sizes up to M42x1,5 and 1"1/2. Unchanged the other characteristics of these sealing bushings.

### Variation 1.3

To the sealing bushings type **NPS..** has been added the new type of bi-component resin ELANTAS.

### Variation 1.4

To the certificated sealing bushings type **NPS..** has been added the new models **TP..**, **CP..**, **NCS..** and **LPS..**.