



# 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 14.0019X** Issue No.: **0** Certificate history:

Status: **Current**

Date of Issue: **2014-06-24** Page 1 of 3

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

Electrical Apparatus: **Sealing fittings series EYS, EZS, EYD and EZD**  
Optional accessory:

Type of Protection: **Flameproof enclosures 'd'; Dust ignition protection 't'**

Marking: **Ex d IIC Gb**  
**Ex tb IIIC Db**  
**IP 66**


Approved for issue on behalf of the IECEx  
Certification Body:

Mirko Balaz

Position:

Head of IECEx CB

Signature:  
(for printed version)

  
24-6-2014

Date:

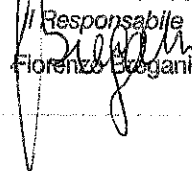
1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

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

**CESI**

**CESI** S.p.A.  
Testing & Certification Division  
Business Area Certification

Responsabile  
  
Firenze Erogani

PAD B4016557 (1966605) - USO RISERVATO



# IECEx Certificate of Conformity

Certificate No.: IECEx CES 14.0019X

Date of Issue: 2014-06-24

Issue No.: 0

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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/ExTR14.0016/00

##### Quality Assessment Report:

IT/CES/QAR06.0002/08



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## Schedule

### EQUIPMENT:

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

The sealing fittings series EYS, EZS, EYD and EZD are the stopping box with compound filling and are suitable to be mounted on cable conduit or on flameproof enclosures.

The sealing fittings types are identified as follows:

- EYS for sealing in vertical position;
- EZS for sealing in horizontal and/or vertical position;
- EYD for sealing in vertical position complete with drain valve;
- EZD for sealing in horizontal and/or vertical position complete with drain valve.

The sealing fittings characteristics are further described in the Annexe of this certificate.

### CONDITIONS OF CERTIFICATION: YES as shown below:

- The total cross-sectional area of the cables, including insulation, shall be not more than 40% of the cross-sectional area of the fitting according to IEC 60079-14.
- The minimum length of the compound shall be  $\geq 20$ mm and at least 20% of that cross-sectional area shall be filled with compound.
- The sealing fittings shall be coupled with the enclosure or with cable conduit as indicated by the manufacturer's documents in order to not jeopardise the type of protection of the electrical apparatus on which the sealing fittings are mounted.
- The sealing fittings are approved to be used with setting compound provided by manufacturer and may be applied by installer or user of electrical apparatus following the manufacturer's instructions.
- The service temperature range of the sealing fittings is: from -20°C to +100°C.
- The ambient temperature range of the sealing fittings is:
  - - from -20°C to +60°C for series EYD and EZD with drain valve and
  - - from -20°C to +100°C for series EYS and EZS.



## IECEX Certificate of Conformity

# CESI

Prot: B4016557

**Annex to certificate:**

IECEX CES 14.0019X Issue No.:0 of 2014-06-24

**Applicant:**

CORTEM S.p.a.,

Via Aquileia 10, I - 34070 Villesse (GO), Italy

**Electrical Apparatus:**

Sealing fittings series EYS, EZS, EYD and EZD

### General product information:

The sealing fittings series EYS, EZS, EYD and EZD are the stopping housing with compound filling and are suitable to be mounted on cable conduit or on flameproof enclosures.

The sealing fittings types are identified as follows:

- EYS for sealing in vertical position;
- EZS for sealing in horizontal and/or vertical position
- EYD for sealing in vertical position complete with drain valve;
- EZD for sealing in horizontal and/or vertical position complete with drain valve.

### EYS

Sealing fittings series EYS are provided of two coaxial threaded hubs and are suitable for connections of conduit systems. They are used for vertical connections. These fittings are divided on two construction types:

- from size 1/2" up to 1" the body of fitting have one lateral threaded hub used for glass fibre positioning and for compound filling;
- from size 1.1/4" up to 3" the body of fitting have two lateral threaded hubs, one at 45° from vertical axis used for compound filling and one bigger at 90° from vertical axis for glass fibre positioning.

### EZS

Sealing fittings series EZS are provided of two coaxial threaded hubs and are suitable for connections of conduit systems. They are used for each horizontal and vertical connection.

These fittings have the same construction form for all sizes from 1/2" up to 3". They are complete with an threaded cover at 90° from vertical axis used for glass fibre positioning. The cover has an threaded hub for compound filling.

### EYD

Sealing fittings series EYD are provided of two coaxial threaded hubs and are suitable for connections of conduit systems. They are used for vertical connections. These fittings are divided on two construction types:

- from size 1/2" up to 1" the body of fitting have one lateral threaded hub used for glass fibre positioning and for compound filling;
- from size 1"1/4 up to 3" the body of fitting have two lateral threaded hubs, one at 45° from vertical axis used for compound filling and one bigger at 90° from vertical axis for glass fibre positioning.

Fittings EYD are also complete with drain valve type ECD110 certified IECEx.

### EZD

Sealing fittings series EZD are provided of two coaxial threaded hubs and are suitable for connections of conduit systems. They are used for each horizontal and vertical connections.

These fittings have the same construction form for all sizes from 1/2" up to 3". They are complete with an threaded cover at 90° from vertical axis used for glass fibre positioning. The cover has an threaded hub for compound filling.

Fittings EYD are also complete with drain valve type ECD110 certified IECEx.

### Material:

Sealing fittings are manufactured in copper free aluminium alloys with copper content 0,1% and magnesium content less than 0,45%.

On request fittings can be manufacture in stainless steel AISI 316, AISI 304, AISI 303.

Two-component resin are used for compound filling.

PAD B4016557 (1966606) - USO RISERVATO



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**Applicant:**

IECEx CES 14.0019X Issue No.:0 of 2014-06-24  
CORTEM S.p.a.,  
Via Aquileia 10, I - 34070 Villesse (GO), Italy  
Sealing fittings series EYS, EZS, EYD and EZD

**Electrical Apparatus:**

General product information (follows)

Model Identification:

TYPE				Standard thread size (*)
EYS 1	EZS 1	EYD 1	EZD 1	1/2" NPT
EYS 2	EZS 2	EYD 2	EZD 2	3/4" NPT
EYS 3	EZS 3	EYD 3	EZD 3	1" NPT
EYS 4	EZS 4	EYD 4	EZD 4	1.1/4" NPT
EYS 5	EZS 5	EYD 5	EZD 5	1.1/2" NPT
EYS 6	EZS 6	EYD 6	EZD 6	2" NPT
EYS 7	EZS 7	EYD 7	EZD 7	2.1/2" NPT
EYS 8	EZS 8	EYD 8	EZD 8	3" NPT

(\*) other type of threads are available as indicated in the manufacturer's documents.

**Service temperature:**

The sealing fittings have the service temperature range: from -20°C to +100°C.

**Ambient temperature:**

The sealing fittings series EYS and EZS have ambient temperature range: from -20°C to +100°C.

The sealing fittings series EYD and EZD, with drain valve, have ambient temperature range: from -20°C to +60°C.