



[1] **EU-TYPE EXAMINATION CERTIFICATE**

[2] **Component intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

[3] EU-type Examination Certificate number: **IMQ 16 ATEX 013 U**

[4] COMPONENT: **Fittings**  
 TYPE/SERIES: **EX6014-...; EX6014XX...; EX6015-...; EX6115-...; EX6024-...; EX6025-...; EXT06014-...; EX6111-...; EX6111-...XX; EX6112-...; EX6112-...XX; EX6003-...; EX6016-...; EX6028-...; EX6029-...; EX6050-...; EX6051-...; EX6052-...**

[5] MANUFACTURER: **DKC EUROPE S.r.l.**

[6] ADDRESS: **Via Giovanni Marradi 1 - 20123 Milano (MI) – Italy**

[7] This component and any acceptable variation thereto are specified in the annex to this certificate and the documents therein referred to.

[8] IMQ, notified body N° 0051, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No.:

**AT18-0028223-07**



[9] Compliance with Essential Health and Safety Requirements, except in respect of those listed at item 18 of the annex, has been assured by compliance with:

**EN 60079-0:2012+A11:2013; EN 60079-7:2015+A1:2018; EN 60079-31:2014**

[10] If the sign "U" is placed after the certificate number indicates that this certificate shall 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 EU-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified component. 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 2GD Ex eb IIC Gb, and Ex fb IIIC Db** OR  **II 2G II 2D Ex eb IIC Gb, and Ex fb IIIC Db**

This document is composed of 4 pages including 1 annex

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 B.U. PRODUCT CONFORMITY ASSESSMENT  
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[13] **Annex**

[14] EU-type Examination Certificate number: **IMQ 16 ATEX 013 U**

[15] **Component Description:**

Fittings, series EX6014-...; EX6014XX...; EX6015-...; EX6115-...; EX6024-...; EX6025-...; EXT06014-...; EX6111-...; EX6111-...XX; EX6112-...; EX6112-...XX; EX6003-...; EX6016-...; EX6028-...; EX6029-...; EX6050-...; EX6051-...; EX6052-..., made in brass or stainless steel, are suitable to be installed in zone 1 and zone 21 on equipment with type of protection Ex eb IIC / Ex tb IIIC.

The degree of protection IP66/67 is achieved by using gaskets/O-rings on accessories with cylindrical thread, as shown on the drawings listed to Certificate. All fittings can be dismantled only by use of a tool. All cylindrical threads tolerance are 6g-6H according ISO 965-1 and ISO 965-3 standards.

The coupling threads to electrical equipment enclosures can be the following:

ISO 262 (Mx1,5) ; ISO 228 – GAS ; ISO 7/1 ; PG (DIN 40430) ; ANSI B1 20.1 – NPT

Service temperature range: from -45°C to +85°C.

Trademark: "DKC" or "DKC manufactured by COSMEC" or "Cosmec" or "DKC Cosmec" or "ARMEC"

[15.1] **Models/Series Identification:**

Raccordi per condotti flessibili / Connectors for flexible conduits	
Serie / Series	Descrizione / Description
EX6014-...	Fixed male connectors
EX6014XX...	Fixed male connectors made in stainless steel
EX6015-... EX6115-...	Fixed female connectors
EX6024-...	Elbow fittings 45°
EX6025-...	Elbow fittings 90°
EXT06014-...	Double locking connectors for conduits with braided sleeving

Raccordi per condotti rigidi / Connectors for rigid conduits	
Serie / Series	Descrizione / Description
EX6111-...	Quick coupling fittings with male thread
EX6111-...XX	Quick coupling fittings with male thread made in stainless steel
EX6112-...	Quick coupling fittings with female thread
EX6112-...XX	Quick coupling fittings with female thread made in stainless steel

Adattatori / Fittings	
Serie / Series	Descrizione / Description
EX6003-...	Couplings
EX6016-...	Reducers
EX6028-...	Elbow fittings 45°
EX6029-...	Elbow fittings 90°
EX6050-...	Plugs
EX6051-...	Nipples
EX6052-...	Couplings

## [13] Annex

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Models covered by this EC Type Examination Certificate are only those belonging to series shown in Tables as above. For a complete list of models see documents listed attached to this Certificate.  
Additional accessories series: EX6110-...; EX6110-...XX; EX6117-...; EX6117XX...; EXT06117...

[15.2] **Ratings:** N/A

[15.3] **Safety Ratings:** N/A

[15.4] **Ambient temperature and temperature classes:**

Tamb: -45°C ÷ +85°C.

[15.5] **Degree of protection (IP code):** IP66/67

[15.6] **Warnings:** None

[16] **Report:** AT18-0028223-07

### **Routine (factory) tests:**

[16.1] The manufacturer shall carry out the routine test prescribed at clauses 27 of the EN 60079-0.

### **Conformity with the documentation:**

The manufacturer shall carry out the verifications or tests necessary to ensure that the product complies with the documentation.

Marking the equipment in accordance with Clause 29 of EN 60079-0, the manufacturer attests on his own responsibility that:

- ▶ the equipment has been constructed in accordance with the applicable requirements of the relevant standards in safety matters;
- ▶ the routine verifications and routine tests in 28.1 of EN 60079-0 have been successfully completed with positive results.

### **Installation conditions:**

Above referred equipment is foreseen to be installed in locations where there are environmental conditions, as clearly specified at clause 1, par. 2 of EN 60079-0.

Installation and use in atmospheric and environmental conditions that are out of above mentioned intervals request special considerations and additional measures by the side of installer or user.

These should be specified to the manufacturer by the user;

It is not a required by applicable standard listed in [9] that the certification body confirm suitability for the adverse conditions.

The installation and maintenance of fittings type EX60\*\*-\*\* must be realized in accordance to the plant and maintenance standards for classified area with the presence of potentially explosive gases or dusts. (EN 60079-14, EN 60079-17)

All fittings shall be fully tightened without damaging the threads.

The nominal torque to be applied is indicated in relevant safety notes.

Mounting ground or equipotential bonding conductor: minimum cable cross-section at least 4mm<sup>2</sup>.

The metallic fittings and conduits shall be connected to grounding or equipotential bonding according to EN 60079-0, connection shall have low resistance.

Protective earth connections have to be protected against self-loosening.

### **Schedule of limitations:**

The fitting used shall be suitable to the installation zone, gas/dust group and temperature present.

Service temperature: from -45°C to +85°C.

## [13] Annex

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In zones with presence of combustible dusts it is necessary to periodically clean to limit the depth of the layer to less than 5 mm, if non-metallic conduits are used electrostatic charge hazardous shall be take into account.

The conduit of fittings if non-conductive may generate an ignition-capable level of electrostatic charges under certain extreme conditions. (see instructions for detail)

The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions that might cause a build-up of electrostatic charges on non-conducting surfaces.

When fittings and conduits are used to connect two increased safety enclosures they shall be positioned in the same hazardous area (for example only Zone 1 or Zone 21).

Is not permitted to connect an enclosure located in Zone 1 to another located in Zone 2 or in safe area.

### [18] **Essential Health and safety Requirements:**

This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed in [9].

This Certificate **does not** cover hazards coming from environmental conditions different from those clearly and precisely indicated and covered in clause 1 of EN 60079-0.

ESHR 1.2.7 According Annex VIII of the Directive

ESHR 1.4 Not verified.

ESHR 1.5 Not verified.

ESHR 3 Not applied.

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at [9], the following are considered relevant to this product, and conformity is demonstrated in the report: n/a

### [19] **Descriptive documents:**

DL-AT18-0028223-01, dated 2018-10-16.

### [20] **Certification Validity Conditions:**

The use of this Certificate is subject to the Certification Scheme and to the Regulation applicable to holders of IMQ Certificates. The validity of this certificate is subject to the condition that the manufacturer complies with the results of the document review and of the pertinent requirement if any included, recorded in the relevant copy of documentation as per 19.

One copy of the mentioned documentation is kept in IMQ file.

### [21] **Variations**

2019, April:

- Update to Directive 2014/34/EU.
- Update to European Standard EN 60079-0 and EN 60079-7
- New company name.