



# 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.:  issue No.:

Certificate history:

Status:

Date of Issue: **2016-07-29** Page 1 of 4

Applicant: **Bimed Teknik Aletler Sanayi Ve Ticaret A.S.**  
S.S Bakir Piriç Sanayi Sitesi Leylak Caddesi no:15  
TR - 34524 Beylikdüzü - Istanbul  
**Turkey**

Equipment: **Adaptors and Plugs, series B-RA., B-RB., B-RM., B-RN., B-TS., NB-TS., MB-TS..**  
Optional accessory:

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

Marking: **Ex db IIC Gb  
Ex eb IIC Gb  
Ex tb IIIC Db  
IP 66/68**

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**



# IECEX Certificate of Conformity

Certificate No.: IECEx CES 13.0022X

Date of Issue: **2016-07-29**

Issue No.: **1**

Page 2 of 4

Manufacturer: **Bimed Teknik Aletler Sanayi Ve Ticaret A.S.**  
S.S Bakir Pirinç Sanayi Sitesi Leylak Caddesi no:15  
TR - 34524 Beylikdüzü - İstanbul  
**Turkey**

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 : 2014-06</b> Edition: 7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2013</b> Edition: 2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
<b>IEC 60079-7 : 2015</b> Edition: 5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*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/ExTR13.0023/00](#)

[IT/CES/ExTR13.0023/01](#)

Quality Assessment Report:

[IT/CES/QAR12.0003/03](#)



# IECEx Certificate of Conformity

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Page 3 of 4

## Schedule

### EQUIPMENT:

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

The Adaptors series B-RA., B-RB., B-RM. and B-RN. are used to match equipments, pipes and hubs having different threaded or plane entry sizes. Attachment of the Adaptors to an enclosure is by means of the male threaded portion on the male body.

The series of available Adaptors are:

B-RA – they are used to reduce a female hub or increase a male hub.

B-RB – they are used to increase a female hub or reduced a male hub.

B-RM – they are used to vary the diameter of a male hub by transforming it into a female hub.

B-RN – they are used to vary the diameter of a female hub by transforming it into a male hub.

The male Plugs series B-TS., MB-TS and NB-TS are suitable for closing female hubs or unused openings on Ex db pipes or Ex db, Ex eb and Ex tb enclosures.

The series of available Plugs are:

B-TS – they are used to close a female hub with cylindrical or tapered threads.

MB-TS – they are used to close a female hub with ISO Metric threads only.

NB-TS – they are used to close a female hub with NPT tapered threads and Ex eb or Ex tb execution only.

The adaptors and plugs characteristics are further described in the Annexe of this certificate.

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

- The coupling of the adaptors and plugs with the conduits or enclosures shall be made as indicated by the manufacturer in the documents annexed to this certificate in order respect the type of protection of the electrical apparatus on which the adaptors and plugs are mounted.

- The adaptors and plugs shall be mounted at the conduit or at the electrical apparatus in such a way that accidental rotation and loosening will be prevented.

- The adaptors and plugs shall be installed in such a way that the temperature at the mounting point will remain within the following service temperature ranges:

-40°C to +100°C for Adaptors and Plugs with Chloroprene O-rings;

-60°C to +130°C for Adaptors and Plugs with Silicon O-rings and flat washers;

-40°C to +80°C for Adaptors and Plugs with Chloroprene or Fiber flat washers;

Restricted use up to -20°C for adaptors and plugs made of galvanized carbon steel.

- The degree of protection IP 66/68 according to the IEC 60529 standard will be guaranteed for the adaptors and plugs if the holes into which adaptors and plugs are mounted are suitably sealed. To this scope the correct positioning of the gaskets (for cylindrical threads) or the application of sealant on the threads (for tapered threads), shall be done as indicated in the manufacturer instruction.



# IECEx Certificate of Conformity

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Page 4 of 4

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

### Variation 1.1.

To the Adaptors and Plugs series originally assessed in Issue no. 0 the new type of Plugs MB-TS and NB-TS series have been added.

### Variation 1.2.

To the Adaptors and Plugs series the new sizes M60, M70, M80, M85 and M100 ISO pitch 1.5 and NPT 3 ½ “ have been added.

### Variation 1.3.

To the Adaptors and Plugs series the nickel plated brass as new constructional material has been added.

### Variation 1.4.

To the Adaptors and Plugs series the new ambient temperature range have been added:

- operating temperature range from -60°C up to +130°C for Adaptors and Plugs with Silicon O-rings or flat washers;
- operating temperature range from -40°C up to +80°C for Adaptors and Plugs with Chloroprene or fiber flat washers.

### Variation 1.5.

Minor construction changes on B-TS.. Plugs series.

### Variation 1.6.

Adaptors and Plugs originally assessed in compliance to IEC 60079-1:2007, IEC 60079-7:2006 and IEC 60079-31:2008 have been re-assessed on the basis of the Standards IEC 60079-1:2014, IEC 60079-7:2015 and IEC 60079-31:2013. Unchanged the constructional characteristics of other Adaptors and Plugs B-RA., B-RB., B-RM.. and B-TS.. series.