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Registro Imprese di Milano
Sezione Ordinaria
N. R.E.A. 429022
P.I. IT00793580150

CESI ATEX

Schema di certificazione

Il CESI è stato autorizzato dal governo italiano ad operare quale organismo di certificazione di apparecchi e sistemi destinati a essere utilizzati in atmosfera potenzialmente esplosiva con D.M. 1/3/1983, D.M. 19/6/1990, D.M. 26/7/1998, D.M. 27/9/2000 e D.M. 02/02/2006

ATEX E C-02 - 1

CERTIFICATE

[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:

CESI 06 ATEX 034 X

[4] Equipment: Cable glands series EBM, EBS, EBSP, EBMBE, EBSBE, EBMEN and EBSEN; plugs series EBMBS/E e EBMBS/I.

[5] Manufacturer: **BIMED A.S.**

[6] Address: Beylikduzu Mevkii S.S. Bakir ve Pirinic San.Sitesi Leylak cad. No:6 34520 Buyukcekmece – ISTAMBUL; TURKEY

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] CESI, notified body n. 0722 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system 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 n. EX-A6/012259.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014: 1997+A1..A2 EN 50019: 2000 EN 50281-1-1: 1998+A1

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following:

II 2GD EEx e II IP 66/68

Date 06/05/2006 - Translation issued the 06/05/2006

Prepared	**Verified**	**Approved**
Pierluigi Molinari	Mirko Balaz	Fiorenzo Bregani

CESI S.p.A.
Divisione Energia
"Area Tecnica Certificazione"
Il Responsabile

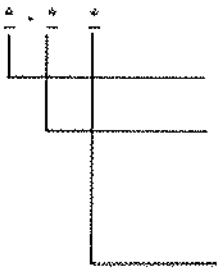
[13] **Schedule**

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 06 ATEX 034 X**

[15] **Description of equipment**

The cable glands series EBM, EBS and EBSP made of polyamide, is used for the entry of fixed wiring in electrical equipment with the type of protection Increased safety "EEx e". The cable glands series EBM and EBS consist of gland body, inner gasket, cup nut and external flat gasket. The cable glands series EBSP consist of gland body, inner gasket and cup nut. The cable glands type EBM-25 with special sealing rubber are intended for use with the flat cable. The cable glands series EBM, EBS and EBSP may be provided with an additional sealing gasket, which will be fitted into the large sealing gasket in order to reduce the cable clamping area. Protection tabs (plugs) type EBPT are accessories.

The above mentioned cable glands are identified by a code as follows:



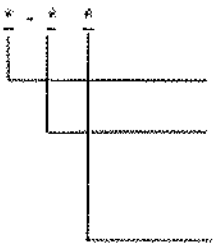
series of cable glands (EBM, EBS, EBSP)

size of cable glands:
XS, X11., X21., X6 ÷ X9, X0; for series EBM (with ISO metric thread)
21 ÷ 30; for series EBS (with Pg DIN 40430 thread)
A-21, B-22, D-23, 24; for series EBSP (with NPT ANSI ASME B1.20.1 thread)

thread dimension

The cable glands series EBMBE, EBSBE (for non armoured cable) and EBMEN, EBSEN (for armoured cable) are manufactured from brass and are used for the entry of fixed wiring in electrical equipment with the type of protection Increased safety "EEx e". The cable glands series EBMBE, EBSBE consist of gland body, inner gasket, cup nut, clamping plastic insert and external sealing o-ring. The cable glands series EBMEN, EBSEN consist of gland body, inner gasket, cup nut, clamping plastic insert, pressure ring and external sealing o-ring. Protection tabs (plugs) type EBPT are accessories.

The above mentioned cable glands are identified by a code as follows:



series of cable glands (EBMBE, EBSBE) (EBMEN, EBSEN)

size of cable glands:
02, 01, 1 ÷ 6 for series EBMBE, EBSBE
02, 01, 1 ÷ 6 for series EBMEN, EBSEN

thread dimension (ISO metric thread or Pg DIN 40430 thread)

The cable glands of all the series EBM, EBS, EBSP, EBMBE and EBSBE, are protected against the risk of explosion for the presence of combustible dusts according to the standard EN 50281-1-1.

The cable glands EEx e II can be used in EEx i intrinsic safety circuits. In this case the cable glands have a part painted light blue.

The complete code, the dimensional and constructive characteristics of the cable glands are reported in the descriptive documents annexed to this certificate.

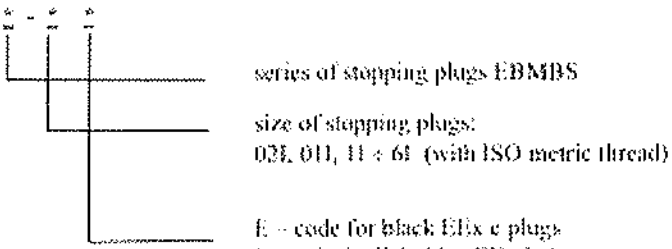
[13] # Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 06 ATEX 034 X**

[15] **Description of equipment** (follows)

The stopping plugs series EBMBS/. are manufactured from polyamide and are used to fill unused entries in electrical equipment with the type of protection Increased safety "EEx e". The stopping plugs series EBMBS consists of a body and external flat gasket.

The above mentioned stopping plugs are identified by a code as follows:



The stopping plugs series EBMBS.. are protected against the risk of explosion for the presence of combustible dusts according to the standard EN 50281-1-1.

The complete code, the dimensional and constructive characteristics of the plugs are reported in the descriptive documents annexed to this certificate.

Operating temperature

The operating temperature of the cable glands and plugs in subject shall be in the range –20 ÷+80°C.

The maximum operating temperature shall take into account the ambient temperature, the heating of the cable and the heating of the apparatus.

Degree of protection IP 66/68 (EN 60529: 1991)

The cable glands and plugs in subject, when coupled with the enclosures as indicated in the annexed documents to this certificate, guarantee a degree of protection IP 66 and IP 68.

Installation conditions

The coupling of cable glands and plugs with the enclosure shall be made as indicated by the manufacturer in the documents annexed to this certificate, in order to not jeopardise the type of protection of the electrical apparatus on which they are mounted

[13] **Schedule**

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 06 ATEX 034 X**

[16] **Report n.** EX- A6/012259.

Routine tests

The manufacturer shall carry out the routine tests prescribed at clause 24 of the EN 50014 standard

Descriptive documents (prot. EX- A6/012263)

- n. A4 - 822	Rev. 0 (5 p.)	dated	18.04.2004
- n. A3 - 241	Rev. 0	dated	20.03.2006
- n. A3 - 242	Rev. 0	dated	08.12.2003
- n. A3 - 340	Rev. 0	dated	08.12.2003
- n. A3 - 341	Rev. 0	dated	08.12.2003
- n. A3 - 342	Rev. 0	dated	08.12.2003
- n. A3 - 343	Rev. 0	dated	20.03.2006
- n. A3 - 344	Rev. 0	dated	20.03.2006
- n. A3 - 345	Rev. 0	dated	20.03.2006
- n. A3 - 350	Rev. 0	dated	20.03.2006
- n. A4 - 1000	Rev. 0	dated	20.03.2006
- n. A4 - 1001	Rev. 0	dated	20.03.2006
- n. A4 - 1002	Rev. 0	dated	20.03.2006
- n. A4 - 1008	Rev. 0	dated	20.03.2006
- n. A4 - 1009	Rev. 0	dated	20.03.2006
- n. A4 - 824	Rev. 0	dated	20.03.2006
- n. A4 - 825	Rev. 0	dated	20.03.2006

- Brochure A (28 p.) - Components of cable glands type EBM
- Brochure B (31 p.) - Components of cable glands type EBS
- Brochure C (13 p.) - Components of cable glands type EBSP
- Brochure D (24 p.) - General information of materials and tests.
- Brochure E (51 p.) - Components of cable glands type EBMBE-EBSBE
- Brochure F (41 p.) - Components cable glands type EBMEN-EBSEN
- Mounting instructions Annex A19 Rev. 0 (6 p.) dated 08.11.2003
- EC declaration of conformity n° CE0004 dated 08.11.2003

One copy of all documents is kept in CESI files.

[17] **Special conditions for safe use (X)**

The cable glands of all the series EBM, EBS, EBSP, EBMBE, EBSBE, EBMEN and EBSEN shall only be used for fixed installations. The installer shall also ensure that the cable is adequately clamped. The clamping of the cables shall be made outside the cable entries.

[18] **Essential Health and Safety Requirements**

Covered by standards.