CERTIFICATE

[1] EC-TYPE EXAMINATION CERTIFICATE

[2] Component to be integrated into Equipment or protective Systems intended for use in potentially explosive atmospheres

Directive 94/9/EC

[3] EC-type Examination Certificate number:

ICEPI 10 ATEX 03C006U

[4] Component: **Sealed Nipples series GN and multicore Bushings series TL**

[5] Manufacturer: **COELBO S.r.l.**

[6] Address: **Via S. Margherita, 83 - 20047 Brugherio (MB) - ITALIA**

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

[8] ICEPI S.p.A., Notified Body number 0066 in accordance with article 9 of the Council Directive 94/9/EC of 23 march 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report nr. RP10A0701.

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

EN 60079-0:2006 EN 60079-1:2007 EN 60079-7:2007
EN 61241-0:2006 EN 61241-1:2004

[10] The sign "U" placed after the certificate number indicates that this certificate shall not be intended as a certificate for equipments or protective systems. This partial certificate may be used as a basis for a certificate of equipments or protective systems.

[11] This EC-type Examination Certificate relates only to the design and construction of the specified component. Further requirements of this directive apply to the manufacture and supply of the component. These are not covered by this certificate.

[12] The marking of the component shall include the following

II 2GD Ex d IIC Ex tD A21 IP66 **II 2GD Ex e II Ex tD A21 IP66**
I M2 II 2GD Ex de I/IIC Ex tD A21 IP66

Piacenza, 30.07.2010 Translation issued on 25.07.2011

Prepared
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[13] **Schedule**

[14] **EC-TYPE EXAMINATION CERTIFICATE nr. ICEPI 10 ATEX 03C006U**

[15] **Description of the component**

The sealed nipples series GN and the multicore bushings series TL are components used for the entry of one or more conductors in enclosures of "Ex" apparatus. Sealed nipples series GN are used to interconnect group II apparatus, both in presence of flammable gas or vapors, and of combustible dusts, while the multicore bushings series TL can be used also in apparatus intended for use in mines susceptible to firedamp (group I). For limits of use see § [17.]

Meaning of the identification code

The sealed nipples and multicore bushings are identified by a code as follows:

GN (TL)	:	Sealed **Nipple** (multicore **Bushing**)
x	:	Size, **1** (1/2" - M20x1,5) ÷ **6** (2" - M63x1,5)
x	:	Thread code, *if different from NPT*: **I** = ISO 261 **G** = Gk (CEI EN 60079-1:2007, Annex 1) **C** = ISO 228
x	:	Material code: **G** = galvanized steel **A** = aluminium (only for group II 2GD) **B** = brass **S** = stainless steel

Rated characteristics

Cross-sectional area of conductors:	1,5 ÷ 185 mm^2
Maximum rated voltage:	1000 V
Maximum rated current:	275 A

[16] **Report nr.** RP10A0701

Routine verifications and tests

The Manufacturer shall carry out the routine verifications and tests required at paragraph 27 of the standard EN 60079-0 and at paragraph 24 of the standard EN 61241-0.

[13] **Schedule**

[14] **EC-TYPE EXAMINATION CERTIFICATE nr. ICEPI 10 ATEX 03C006U**

Descriptive documents

1) – Technical File nr. DCEN6-ICE1 (23 sheets) Rev. 0 dated 09.07.2010

A copy of the above listed documents is kept in ICEPI's file.

[17] **Limits of use**

Sealed nipples series GN and multicore bushings series TL can be used in group II apparatus, with one or more types of protection listed in the standard EN 60079-0 (category 2G), or in the standards EN 61241-0 and EN 61241-1 (category 2D, type of protection "tD").

Multicore bushings series TL can be used also in group I apparatus, in general for connection between enclosures with type of protection "d" and apparatus with type of protection "e"; in such case the bushings cannot be made in aluminium.

The coupling of sealed nipples and multicore bushings with the enclosures shall be made as indicated by the manufacturer in the instructions of use, to don't jeopardize their type of protection.

The tests on sealed nipples and multicore bushings have been carried out in such a way to permit their use on enclosures with type of protection "d" without limitation in volume.

The working temperature of sealed nipples and multicore bushings is – 40 ÷ + 135 °C.

The working temperature is determined by the temperature of conductors (due to circulation of the intended current), by the heating of the apparatus on which the component is installed, and by the ambient temperature.

[18] **Essential health and safety requirements**

Covered by the conformity to the listed standards.

Certification validity conditions.
Validity conditions of ICEPI's certification are indicated at points 4 & 5 of the contract between Client and ICEPI.

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VARIATION nr. 01/13

to the EC-Type Examination Certificate ICEPI 10 ATEX 03C00U

Component: **Sealed Nipples series GN and multicore Bushings series TL**

Manufacturer: **COELBO S.r.l.**

Address: **Via S. Margherita, 83 - 20047 Brugherio (MB) - ITALIA**

Variations

- Verified conformity to standards **EN 60079-0:2009**, **EN 60079-0:2012** and **EN 60079-31:2009**

New Marking: **II 2G Ex d IIC Gb** *or* **Ex e IIC Gb** *or* **Ex d e IIC Gb**

I M2 Ex d e I Mb

II 2D Ex tb IIIC Db IP66

The above marking can be combined, in versions for gas and dust.

Report nr. RP13A1204

Descriptive documents

1) Technical File nr. DCEN6-ICE2 (18 pages) Rev. 0 dated 26.09.2013

A copy of the above listed documents is kept in ICEPI's file.

Limits of use

Unchanged

Piacenza, 17.12.2013 – Translation issued on 17.12.2013

Prepared
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Verified
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