



- (2) **Equipment and protective systems intended for use in potentially explosive atmospheres
Directive 94/9/EC**

(1) **EC-TYPE EXAMINATION CERTIFICATE**

- (3) Number of the EC type examination certificate: **INERIS 15ATEX0028X**

- (4) Equipment or protective system:

CABLE GLAND TYPE TB-P... or TB-B...

- (5) Manufacturer: **TechNed BENELUX BV**

- (6) Address: **Veersteeg 15
4212 LR Spijk
The Netherlands**

- (7) This equipment or protective system and any other acceptable alternative of this one are described in the annex of this certificate and the descriptive documents quoted in this annex.

- (8) INERIS, notified body and identified under number 0080, in accordance with article 9 of Council Directive 94/9/EC of the 23rd March 1994, and accredited by COFRAC under number 5-0045 for certification of products and services (scope of accreditation available on the website www.cofrac.fr) certifies that this equipment or protective system fulfils the Essential of Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, described in annex II of the Directive.

The examinations and the tests are consigned in report No 028943/15.

The rules of certification are available on the website www.ineris.fr.

- (9) The respect of the Essential Health and Safety Requirements is ensured by:

- conformity with:

EN 60079-0	:	2012/A11 : 2013	IEC 60079-0	:	2011
EN 60079-1	:	2007	IEC 60079-1	:	2007
EN 60079-7	:	2007	IEC 60079-7	:	2006
EN 60079-31	:	2014	IEC 60079-31	:	2013

- specific solutions adopted by the manufacturer to meet the Essential Health and Safety Requirements described in the descriptive documents.

- (10) Sign X, when it is placed following the Number of the EC type examination certificate, indicates that this equipment and protective system is subjected to the special conditions for safe use, mentioned in the annex of 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 the protective system will have to contain:

Verneuil-en-Halatte, 2015.10.01



The Chief Executive Officer of INERIS
By delegation


Olivier COTTIN
Responsable de l'Unité EQEN
Head of Equipment
and Corporate Services Unit

(13)

A N N E X

(14)

EC TYPE EXAMINATION CERTIFICATE N° INERIS 15ATEX0028X

(15)

DESCRIPTION OF THE EQUIPMENT OR THE PROTECTIVE SYSTEM

This range of cable glands type TB-P... or TB-B..., made in stainless steel or brass nickel plated, is protected by flameproof enclosure, increased safety, and dust protection.

They may be fitted on "Ex d", "Ex e", "Ex tb", "Ex i", "Ex m", "Ex p", and "Ex n" equipment.

These cable glands are foreseen, in accordance with the type, for armored cables or non armored cables. In accordance with the type, the cable gland can be realized with a single or double sealing ring.

The cable glands type TB-B... can be provided with a sealed bushing.

These cable glands get the degrees of protection IP66 according to EN/IEC 60529 standard.

PARAMETERS RELATING TO THE SAFETY


The cable glands can be used for cables with diameter from 4 mm to 68 mm.

MARKING

Marking has to be readable and indelible; it has to include the following indications:

A - Cable glands size 1 to 8A:

TechNed BENELUX BV
The Netherlands
TB-P... or TB-B... (*)
INERIS 15ATEX0028X
(Year of construction)

 II 2 GD
Ex d IIC Gb / Ex e IIC Gb
Ex tb IIIC Db IP66
(Type and size of the thread)

On the sealing ring:

Indication of the minimum and maximum diameters

On the small cable glands the marking can be reduced at :

TB-nl
TB-P... or TB-B... (*)
INERIS 15ATEX0028X
Ex d/e/tb
(Type and size of the thread)

B - Cable glands size 1 to 5:

TechNed BENELUX BV
The Netherlands
TB-P... or TB-B... (*)
INERIS 15ATEX0028X
(Year of construction)



Ex d I Mb / Ex e I Mb
(Type and size of the thread)

On the sealing ring:

Indication of the minimum and maximum diameters

On the small cable glands the marking can be reduced at :

TB-nl
TB-P... or TB-B... (*)
INERIS 15ATEX0028X
Ex d/e
(Type and size of the thread)

(*) Type is completed by letters and numbers corresponding to the size and the manufacturing variation. Different types are defined in the descriptive documents.

Marking may be carried out in the language of the country of use.

The protective system or equipment has also to carry the marking normally stipulated by its construction standards.

ROUTINE EXAMINATIONS AND TESTS

None.

(16) DESCRIPTIVE DOCUMENTS

The descriptive document quoted hereafter constitutes the technical documentation of the equipment, subject of this certificate.

Certification file n° 2015-02 rev.0 of 2015.08.02 (16 rubrics)

signed on 2015.08.02

(17) SPECIAL CONDITIONS FOR SAFE USE

- The temperature of the enclosure, at the connection point of the cable gland must not exceed 100°C with sealing ring in EPDM with or without sealing compound.
- The minimum temperature for use is -40°C.
- For sizes 6, 7, 8 and 8A groups IIC and IIIC, the clamping of the cables must be realized outside nearby to the enclosure on which the cable gland is installed.
- For sizes 1, 2, 3, 4 and 5 group I, during the installation, the user will take into consideration that the cable gland underwent only a shock corresponding to an energy of a low risk.
- These cable gland, group I, must not be exposed to chemical agents during the use.

The other conditions are stipulated in the instructions.

(18) ESSENTIAL SAFETY AND HEALTH REQUIREMENTS

The respect of the Essential Health and Safety Requirements is ensured by:

- Conformity to the standards quoted in clause (9).
- All provisions adopted by the manufacturer and defined in the descriptive documents.