



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEx BAS 08.0107X**

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Certificate history:

Status: **Current**

Issue No: 9

Issue 8 (2021-03-15)

Issue 7 (2018-09-03)

Issue 6 (2015-01-21)

Issue 5 (2013-04-11)

Issue 4 (2012-06-21)

Issue 3 (2012-05-31)

Issue 2 (2012-01-04)

Issue 1 (2010-04-19)

Issue 0 (2010-03-16)

Date of Issue: 2024-06-04

Applicant: **nVent Thermal Belgium NV**  
Research Park Haasrode - Zone 2  
Romeinsestraat 14  
B-3001 Leuven  
**Belgium**

Equipment: **The Compression Ring Type Cable Glands**

Optional accessory:

Type of Protection: **Flameproof or Increased Safety or Dust Protection by Enclosure**

Marking: **Ex db IIC Gb Ex eb IIC Gb**  
**Ex tb IIIC Db**

Approved for issue on behalf of the IECEx  
Certification Body:

**P Oates**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

4/6/2024

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Certificate issued by:

**SGS UK Limited**  
**Rockhead Business Park**  
**Staden Lane**  
**Buxton, Derbyshire SK17 9RZ**  
**United Kingdom**





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Research Park Haasrode - Zone 2  
Romeinsestraat 14  
B-3001 Leuven  
**Belgium**

Manufacturing locations: **nVent Thermal Belgium NV**  
Research Park Haasrode - Zone 2  
Romeinsestraat 14  
B-3001 Leuven  
**Belgium**

**Thermocoax Isopad GmbH**  
Englerstrasse 11  
Heidelberg D-69126  
**Germany**

**nVent Thermal Canada Ltd**  
250 West Street  
Trenton  
Ontario  
K8V 5S2  
**Canada**

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 equipment 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

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

This Certificate **does not** indicate compliance with 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 Reports:

[GB/BAS/ExTR08.0224/00](#)  
[GB/BAS/ExTR13.0208/00](#)  
[GB/SGS/ExTR24.0068/00](#)

[GB/BAS/ExTR11.0323/00](#)  
[GB/BAS/ExTR17.0234/00](#)

[GB/BAS/ExTR12.0139/00](#)  
[GB/BAS/ExTR20.0202/00](#)

### Quality Assessment Reports:

[GB/BAS/QAR06.0036/10](#)

[GB/BAS/QAR07.0053/10](#)

[GB/BAS/QAR09.0003/09](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

### The Compression Ring Type Cable Glands

The cable glands each comprise a threaded gland body, a compression ring and a back-nut all manufactured in either brass, nickel plated brass or stainless steel for use with copper or stainless steel cable respectively.

The glands are manufactured to fit a range of propriety mineral insulated metal sheathed cables of sizes ranging from 5mm to 26mm diameter.

Guidance on the selection of appropriate gland sizes is included in the manufacturer's instructions.

The entry threads provided on the gland body are shown in the table below.

The manufacturer may provide a sealing washer for dust protection to maintain the ingress protection rating of IP66. The plain clearance hole in the Ex enclosure shall have a maximum diameter of not more than 0.7 mm greater than the nominal diameter of the gland entry thread diameter. The operating temperature range of the compression ring type cable glands is therefore dependent on the washer fitted, as shown in the table below:-

Gland Body Thread Size	Sealing Washer	Operating Temperature Range
M20, M25, M32, M40 ½" NPT, ¾" NPT, 1" NPT, 1 ¼" NPT	No Washer	-60°C to +250°C
M20, M25, ½" NPT, ¾" NPT	Washer A (white PTFE)	-60°C to +140°C
M20, M25, ½" NPT, ¾" NPT	Washer B (Green Fibre)	-60°C to +140°C
M20, M25, ½" NPT, ¾" NPT	Washer C (Blue Glyon)	-60°C to +140°C

### SPECIFIC CONDITIONS OF USE: YES as shown below:

1. When the glands are used for increased safety or a dust environment, the entry thread shall be suitably sealed, in accordance with IEC/EN 60079-14, to maintain the ingress protection rating of the associated enclosure.
2. If these glands are to be used on metal sheathed heater cables, the gland shall only be fitted on the cold lead-in section of the cable.
3. Gland parts are not interchangeable and different cable sizes or gland materials should not be mixed.
4. The operating temperature range of the glands is detailed in the product description.



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

### Variation 9.1

To amend the nameplates to accommodate UKEX certificate numbers.

ExTR: **GB/SGS/ExTR24.0068/00**

File Reference: **21/0319**