



# 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)

### Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX CQM 11.0014U** Page 1 of 4 Certificate history:  
Status: **Current** Issue No: 1 [Issue 0 \(2011-08-31\)](#)  
Date of Issue: 2025-08-11  
Applicant: **Warom Technology Incorporated Company**  
No. 555, Baoqian Road, Jiading District, Shanghai City  
Postal code: 201 808  
**China**  
Ex Component: Explosion-proof flexible conduit typed BNG-\*\*(\*)\*\*(\*)  
*This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).*  
Type of Protection: **Flameproof enclosure "db", Increased safety "eb", Dust ignition protection by enclosure "tb"**  
Marking: Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db

Approved for issue on behalf of the IECEx  
Certification Body:

Ji Xiaodong

Position:

President

2025-08-11

Signature:  
(for printed version)

Date:  
(for printed version)

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Certificate issued by:

**China Quality Mark Certification Group Co., Ltd.**  
No. 33 Zengguang Road, Haidian District  
Beijing City, Postal code: 100048  
**China**





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Manufacturer: **Warom Technology Incorporated Company**  
No. 555, Baoqian Road, Jiading District, Shanghai City  
Postal code: 201 808  
**China**

Manufacturing  
locations:

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 component 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 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:3.0

[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 component listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[CN/CQM/ExTR11.0014/00](#)

[CN/CQM/ExTR11.0014/01](#)

Quality Assessment Report:

[CN/CQM/QAR07.0003/13](#)



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## Ex Component(s) covered by this certificate is described below:

BNG series explosion-proof flexible conduit is an Ex-component, which is comprised of connectors, a metal conduit and sheath. BNG explosion-proof flexible conduit is the type of "db", "eb" and "tb". It can be used as a connecting device for relevant explosion-proof electrical apparatus and provide connection for inlet and outlet cable of electrical apparatus or places difficult to bend in steel pipe wiring system.

Ex marking:

Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db for M, NPT thread

Ex eb IIC Gb, Ex tb IIIC Db for G thread

The product fulfills the requirements of IP66 according to IEC 60529.

Model implication: BNG-\*\*(\*)\*\*(\*) (\*from left to right)

BNG : Explosion-proof flexible conduit

\* : Thread specification

\* : Size

\* : Internal thread/external thread

Thread	Thread	Thread
1/2NPT	M20x1.5	G1/2
3/4NPT	M25x1.5	G3/4
1NPT	M32x1.5	G1
1-1/4NPT	M40x1.5	G1-1/4
1-1/2NPT	M50x1.5	G1-1/2
2NPT	M63x1.5	G2

## SCHEDULE OF LIMITATIONS:

1. Rated service temperature range (°C) : -60°C~+150°C.

2. The equipment is a component and it is not intended to be used alone and requires additional consideration when incorporated into electrical equipment or systems for use in explosive atmospheres.

3. When connected with cable glands or steel tube and pipe, additional seal ring should be used inside the cable glands or steel tube and pipe for M thread and G thread Ex flexible conduit.



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

1. The standards associated with this ExTR package upgrade from IEC 60079-0:2007, IEC 60079-1:2007, IEC 61241-0:2004 and IEC 61241-1:2004 to IEC 60079-0:2017, IEC 60079-1:2014, IEC 60079-7:2017 and IEC 60079-31:2022.
2. Changed the rated service temperature range from -60°C~+55°C to -60°C~+150°C.
3. Introducing 316L stainless steel alongside the existing 304 grade.
4. Add "Ex eb" type of protection.