



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

Certificate No.: **IECEx LCIE 16.0026X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2016-08-19)

Status: **Current** Issue No: 1

Date of Issue: 2018-06-14

Applicant: **SIB - Schlemmer Industry & Building Parts**
25 Rue Théophile Somborn
57220 Boulay
France

Equipment: **Cable gland - Type: CG d X**

Optional accessory:

Type of Protection: **Ex db, Ex eb, Ex tb**

Marking: Ex db IIC
Ex eb IIC
Ex tb IIIC
See attachment for full marking.

Approved for issue on behalf of the IECEx
Certification Body:

Julien Gauthier

Position:

Certification Officer

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Laboratoire Central des Industries Electriques (LCIE)
33 Avenue du General Leclerc
FR-92260 Fontenay-aux-Roses
France





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Manufacturer: **SIB - Schlemmer Industry & Building Parts**
25 Rue Théophile Somborn
57220 Boulay
France

Additional
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 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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1:2014-06 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 60079-7:2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

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:

[FR/LCIE/ExTR16.0036/00](#)

[FR/LCIE/ExTR18.0041/00](#)

Quality Assessment Report:

[FR/LCI/QAR10.0003/10](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The metallic cable glands "CG d X" are intended to be mount on a flameproof, dust-tight and increased safety enclosures.

The sealing rings are made of either Neoprene or Viton.

The "CG d 1F" types are the cable glands for non-armoured cable.

The "CG d 4F" types are the cable glands for armoured cable. The "CG d 4FDEL" types have an additional O-ring compared to the "CG d 4F STD" types.

See attachment for full description.

SPECIFIC CONDITIONS OF USE: YES as shown below:

For the models "CG d X" n° 4 to n° 8:

- For the "CG d 1F" types the user shall ensure adequate clamping of the cables against pulling and twisting.
- The cable gland "CG d 1F", size ISO M12 & NPT 1/4" shall be submitted to low mechanical impact only.
- Service temperature of sealing ring in Neoprene (black color) is -60°C to +80°C, and this is -20°C to +200°C for sealing ring in Viton (red color).

For the models "CG d X" n° 9 to n° 16:

- For the "CG d 1F" types the user shall ensure adequate clamping of the cables against pulling and twisting.
- Service temperature of sealing ring in Neoprene (black color) is -60°C to +80°C.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 00:

- Standards applied: IEC 60079-0, Ed.6.0; IEC 60079-1, Ed7.0; IEC 60079-7, Ed 4 and IEC 60079-31, Ed.2.
- Types included: "CG d 1F", "CG d 4 F STD" and "CG d 4 F DEL".
- Models included: N° 4 to 8.
- Sealing ring material: Neoprene and Viton.

Issue 01:

- Normative update according to IEC 60079-7, Ed.5.0 standard.
- Addition of models N°9 to N°16 for all types. For these new models only sealing rings in neoprene can be used.

Annex:

[Annex 01 to certificate IECEx LCIE 16.0026 X issue 01.pdf](#)

MARKING

Complete marking:

SIB - Schlemmer Industry & Building
 Address: ...
 Type: "CG d X"
 Model: N° XX (XX = 4 to 16), thread, pitch (only for ISO)
 Serial number: ...
 Year of construction: ...
 Ex db IIC Gb / Ex eb IIC Gb
 Ex tb IIIC Db
 IECEX LCIE 16.0026X
 -60°C ≤ Tamb ≤ +80°C (Neoprene - for all models)
 -20°C ≤ Tamb ≤ +200°C (Viton - only for models n° 4 to 8)

Note: Reduced marking permitted for this apparatus.

Reduced marking:

SIB
 Type: "CG d X"
 Model: N° XX (XX = 4 to 16), thread, pitch (only for ISO)
 Ex db IIC / Ex eb IIC
 Ex tb IIIC
 IECEX LCIE 16.0026X

RANGE DETAILS

Designation of type: "CG d X" (X: 1F, 4F STD, 4F DEL)

Designation of model: N° XX (XX = 4 to 16), thread, pitch (only for ISO)

Type	Model						
	N°	ISO	NPT	N°	ISO	NPT	
CG d 1F	4	M12 x 1.5	1/4"	9	M40x1,5	1"1/4	
		M16 x 1.5	3/8"		M50x1,5	1"1/2	
		/	1/2"		10	M50x1,5	1"1/2
	5	M16 x 1.5	3/8"	11	M63x1,5	2"	
		M20 x 1.5	1/2"	12	M63x1,5	2"	
		M25 x 1.5	3/4"		M75x1,5	2"1/2	
	6	M20 x 1.5	1/2"	13	M75x1,5	2"1/2	
		M25 x 1.5	3/4"		M80x2	/	
	7	M25 x 1.5	3/4"	14	M80x2	/	
		M32 x 1.5	1"		M90x2	3"	
	8	M32 x1.5	1"	15	M90x2	3"	
		M40 x1.5	1"1/4	16	M100x2	3"1/2	
	CG d 4F STD & CG d 4F DEL	5	M12 x1.5	1/4"	11	M50x1,5	1"1/2
			M16 x 1.5	3/8"	12	M50x1,5	1"1/2
			M20 x 1.5	1/2"		M63x1,5	2"
		6	M16 x 1.5	3/8"	13	M63x1,5	2"
M20 x 1.5			1/2"	M75x1,5		2"1/2	
7		M25 x 1.5	3/4"	14	M75x1,5	2"1/2	
		M20 x 1.5	1/2"		M80x2	/	
8		M25 x 1.5	3/4"	15	M80x2	/	
		M32 x 1.5	1"		M90x2	3"	
9		M32x1,5	1"	16	M90x2	3"	
		M40x1,5	1"1/4		M100x2	3"1/2	
10		M40x1,5	1"1/4				
		M50x1,5	1"1/2				

APPARATUS OVERVIEW



CG d 1F



CG d 4F STD



CG d 4F DEL