



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 PTB 14.0022**

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Certificate history:

Status: **Current**

Issue No: 2

Issue 1 (2018-04-13)

Issue 0 (2015-02-19)

Date of Issue: **2024-02-26**

Applicant: **Pflitsch GmbH & Co. KG**
Ernst-Pflitsch-Straße 1
42499 Hückeswagen
Germany

Equipment: **Cable gland type UNI Ex Clamping * Dicht *******

Optional accessory:

Type of Protection: **"eb", "tb"**

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

Approved for issue on behalf of the IECEx
Certification Body:

Dr.-Ing. Detlev Markus

Position:

Head of Department "Explosion Protection in Energy Technology"

Signature:
(for printed version)

D. Markus
26.2.24

Date:
(for printed version)

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Certificate issued by:

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
38116 Braunschweig
Germany





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Manufacturer: **Pflitsch GmbH & Co. KG**
Ernst-Pflitsch-Straße 1
42499 Hückeswagen
Germany

Manufacturing locations: **Pflitsch GmbH & Co. KG**
Ernst-Pflitsch-Straße 1
42499 Hückeswagen
Germany

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 60079-31:2013 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 Report:

DE/PTB/ExTR14.0024/02

Quality Assessment Report:

DE/PTB/QAR10.0003/07



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description

The cable gland type UNI Ex Clamping * Dicht ***** made of brass, nickel-plated, brass lead-free and stainless steel, serves to introduce cables into electrical apparatus of the type of protection Increased Safety "eb" or Protection by Enclosure "tb".

The cable gland consists of:

- a pressure screw with clamping device.
- double nipple with metric, Pg, inch-based or NPT connecting thread of different lengths,
- TPE sealing element with a maximum of two holes or closed
- earthing cones and earthing cones with IRIS spring.

The double nipple is available as an extended and reduced version.

The cable gland is installed in enclosures with through-holes or threaded holes. For through-holes, lock nuts are used.

Technical data and Nomenclature see Annex.

SPECIFIC CONDITIONS OF USE: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

1. New material brass lead-free for the cable gland body.
2. Re-evaluation according to IEC 60079-7, Edition 5.1.
3. Name changed to UNI Ex Clamping * Dicht ***** (formerly UNI Ex Klemm * Dicht *****).

Annex:

[COCA140022-02.pdf](#)

Applicant: Pflitsch GmbH & Co. KG
Ernst-Pflitsch-Straße 1
42499 Hückeswagen
Germany

Electrical Apparatus: Cable gland UNI Ex * Clamping Dicht *****

Description of equipment

The cable gland type UNI Ex Clamping * Dicht ***** made of brass, nickel-plated, brass lead-free and stainless steel, serves to introduce cables into electrical apparatus of the type of protection Increased Safety "eb" or Protection by Enclosure "tb".

The cable gland consists of:

- a pressure screw with clamping device.
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- TPE sealing element with a maximum of two holes or closed
- earthing cones and earthing cones with IRIS spring.

The double nipple is available as an extended and reduced version.

The cable gland is installed in enclosures with through-holes or threaded holes. For through-holes, lock nuts are used.

Technical data

Size of connection thread	M25 to M80 Pg 16 to Pg 48 G 3/4" to 3" NPT 1/2" to NPT 2"
Cable diameter	6,5 mm to 70 mm
Suited for devices of equipment group II with mechanical risk level	high
Mounted in enclosures with clearance holes Plastic, wall thickness Metal, wall thickness	≥ 2 mm ≥ 1 mm
Mounted in enclosures with threaded holes Plastic, wall thickness Metal, wall thickness	≥ 5 mm ≥ 3 mm
Service temperature	-20 °C to +60 °C
Ingress protection	IP66 and IP68 (5 bar, 30 min) in accordance with EN 60529

Size Connection thread and head thread				Torque			Mechanical risk level
metric	Pg	Zoll	NPT	Connec- tion thread	Head thread	Clamping screw	
M 25 (22553d...)	Pg 16	G 3/4"	NPT 1/2"	8 Nm	8 Nm	1 Nm	high
M 25 (22528d...)				10 Nm	10 Nm	1 Nm	high
M 32	Pg 21	G 1"	NPT 3/4"	20 Nm	20 Nm	1 Nm	high
M 40	Pg 29	G 1 1/4"	NPT 1"	30 Nm	30 Nm	1 Nm	high
M 50	Pg 36 Pg 42	G 1 1/2"	NPT 1 1/4" NPT 1 1/2"	30 Nm	30 Nm	1 Nm	high
M 63	Pg 48	G 2	NPT 2"	30 Nm	30 Nm	1 Nm	high
M75		G 2 1/2"		50 Nm	50 Nm	1 Nm	high
M80		G 3"		80 Nm	80 Nm	1 Nm	high

Nomenclature

UNI Ex Clamp- ing	*	Dicht	*	*	*	*	*	*	*	*	*	*
1	2	3	4	5	6	7	8	9	10	11	12	13

1	Type designation	UNI Ex Clamping
2	Blank	
3	Part of type designation	Dicht
4	Type of thread	M = metric, Pg = Pg
5	Type of thread	1 = Pg / Inch, 2 = metric
6	Connecting thread (code number)	<p>Pg-thread DIN 40430</p> <p>53 = PG 16 56 = PG 36 54 = PG 21 57 = PG 42 55 = PG 29 58 = PG 48</p> <p>Metric ISO-thread EN 60423</p> <p>25 = M 25 63 = M 63 32 = M 32 72 = M 72 40 = M 40 75 = M 75 50 = M 50 80 = M 80</p>
7	Head thread (code number)	<p>Pg-thread DIN 46320</p> <p>53 = PG 16 57 = PG 42 54 = PG 21 58 = PG 48 55 = PG 29 212 = 2 1/2" 56 = PG 36 300 = 3"</p>
8	Material	st = stainless steel, d = brass, nickel-plated, LF = brass, lead-free
9	Kind of insert	Blank
10	Cable diameter (code number):	<p>cable diameter (code number):</p> <p>34 = 34,0 mm – 30,0 mm 8 = 8,0 mm – 6,5 mm 36 = 36,0 mm – 33,0 mm</p>

		9 = 9,5 mm – 7,0 mm 11 = 10,5 mm – 8,0 mm 13 = 13,0 mm – 10,0 mm 16 = 15,5 mm – 12,0 mm 18 = 18,0 mm – 15,0 mm 21 = 21,0 mm – 18,0 mm 25 = 25,0 mm – 21,0 mm 28 = 28,0 mm – 25,0 mm 32 = 32,0 mm – 28,0 mm	40 = 40,0 mm – 37,0 mm 44 = 44,0 mm – 40,0 mm 47 = 47,0 mm – 43,0 mm 52 = 52,0 mm – 46,0 mm 55 = 55,0 mm – 52,0 mm 57 = 57,0 mm – 51,0 mm 58 = 58,0 mm – 55,0 mm 64 = 64,0 mm – 59,0 mm 70 = 70,0 mm – 64,0 mm
11	Blank	Blank	
12	Explosion protection	ex = Ex e	
13	Additional letter for material	V4A, bl, zu	

Notes for manufacturing and operation

Degree of protection is ensured only if the seals and cable entries are properly fitted. The manufacturer's instructions must be followed.