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 IBE 25.0032X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 0	
Date of Issue:	2026-11-03		
Applicant:	**PFLITSCH GmbH & Co. KG** Ernst-Pflitsch-Straße 1 Hückeswagen 42499 **Germany**		
Equipment:	**Cable gland type blueglobe ***********, blueglobe AC *********** and blueglobe TRI **************		
Optional accessory:			
Type of Protection:	**Increased safety "eb" and protection by enclosure "tb"**		
Marking:	Ex eb IIC Gb Ex tb IIIC Db		

Approved for issue on behalf of the IECEx Certification Body: **Dr.-Ing. Peter Cimalla**

Position: **Deputy Head of department Certification Body**

Signature: (for printed version)

Date: (for printed version) 2026-11-03

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Certificate issued by:

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg
Germany

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Certificate No.: **IECEx IBE 25.0032X**

Issue No: 0

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

Manufacturing locations: **PFLITSCH GmbH & Co. KG**
Ernst-Pflitsch-Straße 1
Hückeswagen 42499
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 Edition:7.0 — Explosive atmospheres - Part 0: Equipment - General requirements

IEC 60079-31:2022 Edition:3.0 — **Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"**

IEC 60079-7:2017 Edition:5.1 — Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

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/IBE/ExTR25.0034/00

Quality Assessment Report:

DE/IBE/QAR25.0001/00

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Cable gland type blueglobe **********, blueglobe AC ********** and blueglobe TRI **********

SPECIFIC CONDITIONS OF USE: YES as shown below:
When using the pressure screw without a strain-relief pressure screw, only wired cables that are to be installed permanently may be inserted and appropriate strain relief must be provided.

Degree of protection IP66/IP68 for M12 to M63 and IP66 for M10 and enclosure type ratings are only attained if the seal and the cable glands are properly assembled. The manufacturer´s instructions must be observed.

The permitted service temperature range for cable glands: -20 °C...+60 °C

The cable glands of size M10, M12 and M16 has been tested for low risk of mechanical hazard and should be mounted in such a way that they are mechanically protected against the kinetic energy of impact.

The sealing plugs of POM must be installed in such way, that they are not exposed to UV light.

IECEx Certificate of Conformity

Equipment (continued):

The cable glands type blueglobe **********, blueglobe AC ********** and blueglobe TRI ********** made of stainless steel, brass, brass nickel-plated or brass lead-free serve for introducing permanently installed cables into electrical equipment of the types of protection increased safety "e" and protection by enclosure "t".

Type blueglobe AC ********** is suitable for armoured cables and the other ones for non armoured cables.

The cable gland type blueglobe **********, blueglobe AC ********** and blueglobe TRI **********consists of:

- pressure screw (brass, brass nickel-plated, brass lead-free or stainless steel)
- sealing ring (TPE)
- intermediate connection blueglobe AC ********** armoured (only for blueglobe AC **********) (brass, brass nickel-plated, brass lead-free or stainless steel)
- intermediate connection Klemm AC (only for blueglobe AC **********) (brass, brass nickel-plated, brass lead-free or stainless steel)
- intermediate connection O-ring (only for blueglobe AC **********)
- double nipple with metric thread (brass, brass nickel-plated, brass lead-free or stainless steel)
- TRI spring (only for blueglobe TRI **********) (stainless steel or bronze)
- connection thread O-ring (HNBR or silicone)

Accessories are lock nut, blind plugs and a selective screen for armoured cables for type blueglobe AC ********** and TRI spring for shielded cables for blueglobe TRI **********.

Annex:

IB2530089-00_DEIBEExTR25.0034_00_Annex-00.pdf

IECEx Certificate of Conformity - Annex

Certificate No:	IECEx IBE 25.0032X	Issue No: 0
Date of Issue:	2026-11-03	Page 1 of 4

General product information:

The cable glands type blueglobe **********, blueglobe AC ********** and blueglobe TRI ********** made of stainless steel, brass, brass nickel-plated or brass lead-free serve for introducing permanently installed cables into electrical equipment of the types of protection increased safety "e" and protection by enclosure "t".

Technical data:

Size of connection thread	blueglobe ********** and blueglobe TRI ********** M10 to M63	blueglobe AC ********** M20 to M63
Cable diameter	see table below	see tables below
Suited for devices of equipment group II with mechanical risk level	▪ high (M20, M25, M32, M40, M50 and M63) ▪ low (M10, M12 and M16)	
For installing in devices with threaded holes ▪ Plastic, wall thickness ▪ Metal, wall thickness	 ≥ 5.0 mm ≥ 3.0 mm	
For installing in devices with through-holes ▪ Plastic, wall thickness ▪ Metal, wall thickness	 ≥ 2.0 mm ≥ 1.0 mm	
Service temperature range	-20 °C…+60 °C	
Ingress protection	IP66 and IP68 – M32 (15 bar, 30 min); M25 and M63 (10 bar, 30 min) and M12, M20 and M50 (15 bar, 60 min) in acc. with IEC 60529	

List of variants of types. with different sizes and technical parameters:

Type blueglobe **********						
Thread size	**Sealing range with Inlet (mm)**		**Sealing range without Inlet (mm)**		**Tightening torque**	
metric	Max.	Min.	Max.	Min.	Double nipple	Pressure screw
M 10	6.0	3.0	6.0	3.0	3 Nm	3 Nm
M 12	5.0	3.0	8.0	5.0	5 Nm	4 Nm
M 16	7.0	5.0	11.0	7.0	8 Nm	8 Nm
M 20	9.0	6.0	14.0	9.0	10 Nm	6 Nm
M 25	16.0	12.0	20.0	16.0	15 Nm	15 Nm
M 32	20.0	17.0	25.0	20.0	15 Nm	14 Nm
M 40	26.0	21.0	32.0	26.0	20 Nm	20 Nm
M 50	35.0	32.0	42.0	35.0	30 Nm	30 Nm
M 63	46.0	42.0	54.0	46.0	35 Nm	35 Nm

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IECEx Certificate of Conformity - Annex

Certificate No: IECEx IBE 25.0032X Issue No: 0

Date of Issue: 2026-11-03 Page 2 of 4

Type blueglobe TRI **********						
Thread size	**Sealing range with Inlet (mm)**		**Sealing range without Inlet (mm)**		**Tightening torque**	
metric	Max.	Min.	Max.	Min.	Double nipple	Pressure screw
M 12	-	-	8.0	5.0	5 Nm	4 Nm
M 16	-	-	11.0	7.0	8 Nm	8 Nm
M 20	-	-	14.0	9.0	10 Nm	6 Nm
M 25	16.0	12.0	20.0	16.0	15 Nm	15 Nm
M 32	20.0	17.0	25.0	20.0	15 Nm	14 Nm
M 40	26.0	21.0	32.0	26.0	20 Nm	20 Nm
M 50	35.0	32.0	42.0	35.0	30 Nm	30 Nm
M 63	46.0	42.0	54.0	46.0	35 Nm	35 Nm

Types blueglobe AC **********									
Thread size	**Head thread size**	**Sealing range with Inlet (mm)**		**Sealing range without Inlet (mm)**		**Clamping range* (steel reinforcement / armour)**		**Tightening torque**	
metric	metric	Max.	Min.	Max.	Min.	Max.	Min.	Double nipple	Pressure screw
M 20				14.0	9.0	13.0	9.0	15 Nm	10 Nm
M 20	M25	16.0	12.0	20.0	16.0	15.0	10.0	15 Nm	10 Nm
M 25				20.0	16.0	17.0	14.0	15 Nm	15 Nm
M 32				25.0	20.0	23.0	19.0	15 Nm	25 Nm
M 32	M40	26.0	21.0	32.0	26.0	27.0	23.0	15 Nm	25 Nm
M 40				32.0	26.0	31.0	28.0	20 Nm	20 Nm
M 50		35.0	32.0	42.0	35.0	36.0	30.0	30 Nm	50 Nm
M 50				42.0	35.0	40.0	34.0	30 Nm	50 Nm
M 63		46.0	42.0	54.0	46.0	46.0	39.0	35 Nm	50 Nm
M 63				54.0	46.0	51.0	45.0	35 Nm	50 Nm

*The connection must be fully tightened.

FB107009_1_170526 | Vorlage: 00VD002v170_170117 | öffentlich

IECEx Certificate of Conformity - Annex

Certificate No: IECEx IBE 25.0032X Issue No: 0

Date of Issue: 2026-11-03

Type code:

blueglobe or blueglobe TRI	*	*	*	*	*	*	*	*	*	*	*	*
1	2	3	4	5	6	7	8	9	10	11	12	13

1	Type designation	blueglobe blueglobe TRI
2	Part of type designation	bg
3	selective screen option (type blueglobe)	SS
4	Type of thread	2 = metric 8 = metric 15mm long
5	Connecting thread (code number)	Metric ISO- thread EN 60423 10 = M10 12 = M12 16 = M16 20 = M20 25 = M25 32 = M32 40 = M40 50 = M50 63 = M63
6	Material	VA = AISI 303, V4A = AISI 316Ti; ms = brass, nickel-plated, LF = brass lead free
7	Option without inlet (type blueglobe; blueglobe TRI)	**Cable diameter** (code number): 5 = 5.0 – 3.0 6 = 6.0 – 3.0 8 = 8.0 – 5.0 11 = 11.0 – 7.0 14 = 14.0 – 9.0 20 = 20.0 – 16.0 25 = 25.0 – 20.0 32 = 32.0 – 26.0 42 = 42.0 – 35.0 54 = 54,0 – 46,0
8	Clamping range Total screen Clamping range Selective screen (type blueglobe SS)	**Cable diameter** (code number): M20 11-7 11.0 – 7.0 3.5 – 1.5 M25 12-10 12.0 – 10.0 5.0 – 2.0 M25 16-12 16.0 – 12.0 5.0 – 2.0 M32 16-12 16.5 – 12.5 5.0 – 2.0 M32 20-16 20.5 – 16.5 5.0 – 2.0
9	TRI spring (type blueglobe TRI)	tri
10	Explosion protection: - Type of protection: Ex eb and Ex tb	ex
11	Additional letters for material AISI 316L	/316L
12	Pressure screw silicone coated (option)	/sc
13	*Additional letters for variants*	non Ex-relevant associated equipment such as dust protection disc for transport
Remark: Variant numbers can be unoccupied		

FB107009_1_170526 | Vorlage: 00VD002v170_170117 | öffentlich

IECEx Certificate of Conformity - Annex

Certificate No: IECEx IBE 25.0032X Issue No: 0

Date of Issue: 2026-11-03 Page 4 of 4

blueglobe AC	*	*	*	*	*	*	*	*	*	*	*
1	2	3	4	5	6	7	8	9	10	11	12

1	Type designation	blueglobe AC
2	Type of thread (type blueglobe AC)	2 = metric 8 = metric 15mm long
3	Metric Adaptor (type blueglobe AC)	Metric ISO- thread EN 60423 20 = M20 25 = M25 32 = M32 40 = M40 50 = M50 63 = M63
4	Part of type designation	bg
5	Type of thread	2 = metric 8 = metric 15mm long
6	Connecting thread (code number)	Metric ISO- thread EN 60423 10 = M10 12 = M12 16 = M16 20 = M20 25 = M25 32 = M32 40 = M40 50 = M50 63 = M63
7	Material	VA = AISI 303, V4A = AISI 316Ti; ms = brass, nickel-plated, LF = brass lead free
8	AC: Armoured Cables (type blueglobe AC)	Clamping range steel wire armour (code number): 11 = KM 11/ 8 13 = KM 13/11 15 = KM 15/13 17 = KM 17/14 23 = KM 23/19 27 = KM 27/23 31 = KM 31/27 36 = KM 36/31 40 = KM 40/34 46 = KM 46/40 51 = KM 51/45
	Explosion protection: - Type of protection: Ex eb and Ex tb	ex
10	Additional letters for material AISI 316L	/316L
11	Pressure screw silicone coated (option)	/sc
12	Additional letters for variants	non Ex-relevant associated equipment such as dust protection disc for transport
Remark: Variant numbers can be unoccupied		

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