



(1) **EU-TYPE EXAMINATION CERTIFICATE**
(Translation)

(2) Equipment or Protective Systems Intended for Use in
Potentially Explosive Atmospheres - **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:

PTB 11 ATEX 1007 X

Issue: 1

(4) Product: Kabel- und Leitungseinführung Typ blueglobe HT xx x xx xxxx xx,
blueglobe HT AC xxx xx x xx xxxx xx und blueglobe HT TRI xx x xx xxxx xx

(5) Manufacturer: PFLITSCH GmbH & Co. KG

(6) Address: Ernst-Pflitsch-Straße 1, 42499 Hückeswagen, Deutschland

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential Test Report PTB Ex 20-10025.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018, EN IEC 60079-7:2015+A1:2018, EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.


(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

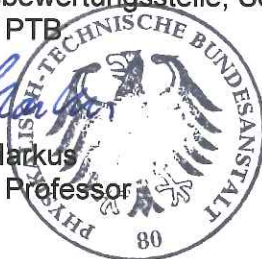
(12) The marking of the product shall include the following:

 **II 2 G Ex eb IIC Gb**
 **II 2 D Ex tb IIIC Db**

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB

Braunschweig, April 22, 2020


Dr.-Ing. D. Markus
Direktor und Professor



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EU-Type Examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

(13)

SCHEDULE

(14) **EU-Type Examination Certificate Number PTB 11 ATEX 1007 X, Issue: 1**

(15) Description of Product

The cable gland type blueglobe HT xx x xx xxxx xx, blueglobe HT AC xxx xx x xx xxxx xx and blueglobe HT TRI xx x xx xxxx xx made of brass blank or nickel-plated and stainless steel, serves to introduce fixed cables into electrical apparatus of the type of protection increased safety "eb" and protection by enclosure "tb". The cable gland consists of:

- pressure screw without clamping device
- sealing component with moulded inlet or two-part sealing component
- double nipple with metric connection thread in different length and an O-ring.

For mounting enclosures with through bore-holes or threaded holes are used. Lock nuts are used with through bore-holes.

Accessory is an AC group for steel armoured cables, a TRI-spring for shielded cables as well as a plastic bolt for sealing of cable glands which are not used.

Technical data

Size of thread	M12 to M40
Suited for devices of equipment group II with mechanical risk level	High
Mounted in enclosures with clearance holes	≥ 2 mm
Plastic, wall thickness	≥ 1 mm
Metal, wall thickness	
Mounted in enclosures with threaded holes	≥ 5 mm
Plastic, wall thickness	≥ 3 mm
Metal, wall thickness	
Torque see list below	Depending on the nominal size metric: 5 Nm to 20 Nm
Ambient temperatures	
Insert and connecting O-ring Silicon	-55 °C to +160 °C
Bolt	-55 °C to +90 °C
Protection against solid foreign objects, water and contact	IP66 and IP 68 in accordance with EN 60529

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SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 11 ATEX 1007 X, Issue: 1

max. Torque blueglobe and blueglobe TRI

blueglobe HT and blueglobe TRI HT					
Thread	Molded inlet	Torque Pressure screw / double nipple	Cable diameter with inlet	Cable diameter without inlet	Mechanical strength
M12	X	5 Nm	---	8,0 – 5,0	7 J
M16	X	8 Nm	7,0 – 4,0	11,0 – 7,0	7 J
M20	X	10 Nm	9,0 – 5,0	14,0 – 9,0	7 J
M25	X	15 Nm	16,0 - 11,0	20,0 – 16,0	7 J
M32		15 Nm	20,0 – 15,0	25,0 – 20,0	7 J
M40		20 Nm	26,0- 20,0	32,0 – 26,0	7 J
Connection thread: metric, acc. to IEC 60 423					
Note: The torque depends on the cable used and the insert seal but should not exceed the value given in the table.					

max. Torque blueglobe AC

blueglobe HT AC for armoured cable						
Thread	Molded inlet	Torque Pressure screw / double nipple	Cable diameter with inlet	Cable diameter without inlet	Clamping range of AC group	Mechanical strength
M20	X	15 Nm	14,0 – 9,0	---	13,0 – 9,0	7 J
M20	X	15 Nm	20,0 - 16,0	16,0 - 11,0	15,0 - 10,0	7 J
M25	X	15 Nm	20,0 – 16,0	---	17,0 - 14,0	7 J
M32		15 Nm	25,0 – 20,0	---	23,0 – 19,0	7 J
M32		15 Nm	32,0 - 26,0	26,0 - 20,0	27,0 - 23,0	7 J
M40		20 Nm	32,0 - 26,0	----	31,0 - 28,0	7 J
Connection thread: metric, acc. to IEC 60 423						
Note: The torque depends on the cable used and the insert seal but should not exceed the value given in the table.						

Nomenclature

blueglobe HT	xx	x	xx	xxxx	xx
1	2	3	4	5	6

- 1: Type
- 2: bg
- 3: Type of thread, 2 = serie metric, 8 = serie metric long
- 4: Connecting thread
- 5: Material
- 6: Ex

SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 11 ATEX 1007 X, Issue: 1

blueglobe HT AC	xxx	xx	x	xx	xxxx	xxxx	xx
1	2	3	4	5	6	7	8

- 1: Type
- 2: Metric adapter
- 3: bg
- 4: Type of thread, 2 = serie metric
- 5: Connecting thread
- 6: Material
- 7: AC for amoured cable, clamping range
- 8: Ex

blueglobe HT TRI	xx	x	xx	xxxx	xx
1	2	3	4	5	6

- 1: Type
- 2: bg
- 3: Type of thread, 2 = serie metric
- 4: Connecting thread
- 5: Material
- 6: Ex

Changes with respect to previous editions

- 1) The pressure screw can be optionally equipped with a silicone coating
- 2) Two different sealing components can be used: sealing component with moulded inlet and two-part sealing component
- 3) New test according to EN IEC 60079-0:2018, EN IEC 60079-7:2015+A1:2018 and EN 60079-31:2014.

(16) Test Report PTB Ex 20-10025

(17) Specific conditions of use

Only permanently wired cables may be entered. The user shall provide the required strain relief.

SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 11 ATEX 1007 X, Issue: 1

(18) Essential health and safety requirements

Met by compliance with the aforementioned standards.

According to Article 41 of Directive 2014/34/EU, EC-type examination certificates which have been issued according to Directive 94/9/EC prior to the date of coming into force of Directive 2014/34/EU (April 20, 2016) may be considered as if they were issued already in compliance with Directive 2014/34/EU. By permission of the European Commission supplements to such EC-type examination certificates and new issues of such certificates may continue to hold the original certificate number issued before April 20, 2016.

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB:

Braunschweig, April 22, 2020


Dr.-Ing. D. Markus
Direktor und Professor





Konformitätsbewertungsstelle, Sektor Explosionsschutz

PTB • Postfach 33 45 • 38023 Braunschweig • Germany

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 Herr B. Saßenbach
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 42499 Hückeswagen

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 Your letter of:
 My reference: PEx1201900139
 My letter of:
 Handled by: Dr.-Ing. S. Essmann
 Telephone: +49 531 592-3445
 Fax: +49 531 592-3505
 E-mail: Stefan.Essmann@ptb.de
 Date: November 24, 2020

Re.: Modification of brass material for several products

Dear Mr. Saßenbach,

with respect to safety technology there are no objections to use the material brass lead-free (CuZn21Si3P) instead of the material brass Ms 58 (CuZn39Pb3) for the products listed below. This evaluation is based on the specifications in the provided material data sheets.


Please incorporate these modifications with future editions of the certificates for the respective products concerned.

Product	Certificate
blueglobe (AC) cable gland made of brass, nickel-plated, bright and stainless	PTB 06 ATEX 1036X
Cable gland type blueglobe xx x xx xxxx xx, blueglobe TRI xx x xx xxxx xx and blueglobe AC xxx xx x xx xxxx xx	IECEX PTB 10.0004X Issue 1
Cable gland type blueglobe HT xx x xx xxxx xx, blueglobe HT AC xxx xx x xx xxxx xxxx xx and blueglobe HT TRI xx x xx xxxx xx	PTB 11 ATEX 1007X issue 01
Cable gland type blueglobe HT xx x xx xxxx xx, blueglobe HT AC xxx xx x xx xxxx xxxx xx and blueglobe HT TRI xx x xx xxxx xx	IECEX PTB 11.0019X Issue 2
Cable gland type UNI Ex * Dicht ***(*)*****(*) und Typ UNI Ex Klemm * Dicht *****	PTB 14 ATEX 1011X issue 01
Cable gland type UNI Ex * Dicht ***(*)*****(*) and type UNI Ex Klemm * Dicht *****	IECEX PTB 14.0021X Issue 2
Cable gland type UNI Ex Klemm * Dicht *****	PTB 14 ATEX 1012 issue 01
Cable gland type UNI Ex Klemm * Dicht *****	IECEX PTB 14.0022 Issue 1
Cable gland type UNI Ex * Dicht Silikon ***** und Type UNI Ex Muffe EMV Dicht Silikon *****	PTB 15 ATEX 1001X issue 02
Cable gland type UNI Ex * Dicht Silicone ***** and UNI Ex Sleeve EMC Dicht Silicone *****	IECEX PTB 15.0001X Issue 1

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Blanking plug type Ex e * (*) * * * * , Extender type Ex e * * * * * and Reducer type Ex e * * * * *	PTB 09 ATEX 1002
Blanking plug, type Ex e *(*)****, Extender, type Ex e ***** and Reducer, type Ex e *****	IECEX PTB 10.0003 Issue 1
Cable gland type LevelEx Lex *****	PTB 18 ATEX 1001X Ausgabe 00
Cable gland type LevelEx Lex *****	IECEX PTB 18.0001X Issue 0
Adaptor type AD***** , Reducer type RED***** and Blind plug type BSM*****	PTB 19 ATEX 1010 issue 0
Adaptor type AD***** , Reducer type RED***** , Blind plug type BSM*****	IECEX PTB 19.0033 Issue 0

Best regards



Dr.-Ing. Stefan Essmann

Enc.



Konformitätsbewertungsstelle, Sektor Explosionsschutz

PTB • Postfach 33 45 • 38023 Braunschweig • Germany

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 Herr B. Saßenbach
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 42499 Hückeswagen

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Date:

January 9, 2023

**Error in certificates for cable gland type blueglobe HT xx x xx xxxx xx,
 blueglobe HT AC xxx xx x xx xxxx xxxx xx and blueglobe HT TRI xx x xx xxxx xx**

Dear Mr. Saßenbach,

in the English language certificates for the above product there is an error in the column heading of the table "max. Torque blueglobe AC". This table appears in

PTB 11 ATEX 1007 X, Issue 1, on sheet 3 of 5,

IECEx PTB 11.0019X, Issue No. 2, Attachment to Certificate, page 2 of 3.

Here, the column headings of column 4 and 5 are reversed. The correct table reads:

max. Torque blueglobe AC

blueglobe HT AC for armoured cable						
Thread	Molded inlet	Torque Pressure screw / double nipple	Cable diameter without inlet	Cable diameter with inlet	Clamping range of AC group	Mechanical strength
M20	X	15 Nm	14,0 – 9,0	---	13,0 – 9,0	7 J
M20	X	15 Nm	20,0 - 16,0	16,0 - 11,0	15,0 - 10,0	7 J
M25	X	15 Nm	20,0 – 16,0	---	17,0 - 14,0	7 J
M32		15 Nm	25,0 – 20,0	---	23,0 – 19,0	7 J
M32		15 Nm	32,0 - 26,0	26,0 - 20,0	27,0 - 23,0	7 J
M40		20 Nm	32,0 - 26,0	----	31,0 - 28,0	7 J
Connection thread: metric, acc. to IEC 60 423						
Note: The torque depends on the cable used and the insert seal but should not exceed the value given in the table.						

The corresponding table in the German language version of certificate PTB 11 ATEX 1007 X does not contain this error.

Kind regards

Dr.-Ing. Stefan Essmann

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