



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 10 ATEX 1034 X

Issue: 1

(4) Product: Cable gland type EX Compact MS, EX Compact A2 and EX Compact A4

(5) Manufacturer: AGRO AG

(6) Address: Korbackerweg 7, CH-5502 Hunzenschwil, Switzerland

(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 23-11140.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018, EN 60079-1:2014, 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 db eb IIC Gb**

 **II 2 D Ex ta IIIC Da**

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB:

Braunschweig, December 21, 2023

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 10 ATEX 1034 X, Issue: 1**

(15) Description of Product

The cable gland type EX Compact MS, EX Compact A2 and EX Compact A4 is made from brass or steel. It consists of a pressure nut, adapter socket, press-fit element, sealing ring and 'O' ring.

It is used for entering cables into electrical equipment of the types of protection Increased Safety "eb", Flameproof Enclosure "db", and Protection by Enclosure "ta".

It can be installed in enclosures with threaded holes or through-holes.

Technical data

Type name	Type and size of thread
EX Compact MS	M16x1.5 to M63x1.5 NPT 3/8" to NPT 2"
EX Compact A2	M16x1.5 to M63x1.5 NPT 3/8" to NPT 2"
EX Compact A4	M16x1.5 to M63x1.5 NPT 3/8" to NPT 2"

Nominal diameter of cables	3 mm to 50 mm
Minimum wall thickness for equipment with threaded holes	3.0 mm (metal) 5.0 mm (plastic)
for equipment with through-holes	1.0 mm (metal) 2.0 mm (plastic)
Ambient temperatures	-60 °C to +105 °C
Ingress protection	IP 66, IP68 in accordance with IEC 60529

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SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 10 ATEX 1034 X, Issue: 1

Article number	Nominal cable diameter \varnothing / mm		Torque / Nm	
	min	max	Pressure nut	Lower part
EX1126.17.**.070	3	7	12	12
EX1126.17.**.100	5	10	16	16
EX1126.20.**.110	5	11	20	20
EX1126.20.**.140	9	14	25	25
EX1126.25.**.150	7.5	15	30	30
EX1126.25.**.180	12.5	18	25	25
EX1126.32.**.230	17	23	50	50
EX1126.32.**.260	21	26	50	50
EX1126.40.**.260	21	26	50	50
EX1126.40.**.320	24	32	40	40
EX1126.50.**.360	28	36	30	30
EX1126.50.**.420	35	42	38	38
EX1126.63.**.440	36	44	80	80
EX1126.63.**.500	43	50	84	84

Article number	Nominal cable diameter \varnothing / mm		Torque / Nm	
	min	max	Pressure nut	Lower part
EX1126.3/8NPT.**.070	3	7	12	12
EX1126.3/8NPT.**.100	5	10	16	16
EX1126.1/2NPT.**.110	5	11	20	20
EX1126.1/2NPT.**.140	9	14	25	25
EX1126.3/4NPT.**.150	7.5	15	30	30
EX1126.3/4NPT.**.180	12.5	18	25	25
EX1126.1NPT.**.230	17	23	50	50
EX1126.1NPT.**.260	21	26	50	50
EX1126.11/4NPT.**.320	24	32	40	40
EX1126.11/2NPT.**.360	28	36	30	30
EX1126.11/2NPT.**.420	35	42	38	38
EX1126.2NPT.**.440	36	44	80	80
EX1126.2NPT.**.500	43	50	84	84

SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 10 ATEX 1034 X, Issue: 1

Nomenclature

EX1126.	**.	**.	***
1	2	3	4

1) Code serie EX Compact

2) Code size of connection thread

12 = M12x1.5

17 = M16x1.5

20 = M20x1.5

25 = M25x1.5

32 = M32x1.5

40 = M40x1.5

50 = M50x1.5

63 = M63x1.5

3/8NPT = NPT 3/8"

1/2NPT = NPT 1/2"

3/4NPT = NPT 3/4"

1NPT = NPT 1"

1 1/4NPT = NPT 1 1/4"

1 1/2NPT = NPT 1 1/2"

2NPT = NPT 2"

3) Code combination of material of the cable gland and the gasket, O-ring always FPM
without number = brass, nickel plated / NBR

94 = steel A2 (1.4305) / NBR

97 = steel A4 (1.4435) / NBR

4) Code max. cable ø

e.g. 140 = 14 mm

Changes with respect to previous editions

1) No technical changes. Updated to current editions of EN IEC 60079-0, EN 60079-1, EN IEC 60079-7, EN 60079-31.

2) Marking is changed to:

II 2 G Ex db eb IIC Gb

II 2 D Ex ta IIIC Da

(16) Test Report PTB Ex23-11140

SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 10 ATEX 1034 X, Issue: 1

(17) Specific conditions of use

- 1) Only permanently wired cables shall be entered. The user shall provide for the required strain relief.
- 2) When the cable gland is used with equipment of the type of protection Flameproof Enclosure "db", the threaded holes have to meet the minimum requirements as set forth in the relevant standard.
- 3) When the cable gland is used with equipment of the type of protection Flameproof Enclosure "db", and if the reference pressure exceeds 20 bar, the cable gland must be included in the type test of IEC 60079-1, section 15.1.3 (overpressure test) as required for IIA, IIB or IIC classification of the corresponding equipment.

(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, December 21, 2023


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