



# 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](http://www.iecex.com)

Certificate No.: **IECEx PTB 12.0055X**

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Certificate history:

Status: **Current**

Issue No: 1

Issue 0 (2013-03-01)

Date of Issue: **2023-12-21**

Applicant: **AGRO AG**  
Korbackerweg 7  
5502 Hunzenschwil  
Switzerland

Equipment: **Cable gland type EX Compact MS, EX Compact A2 and EX Compact A4**

Optional accessory:

Type of Protection: **db, eb, ta**

Marking: **Ex db eb IIC Gb**  
**Ex ta IIIC Da**

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)

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: **AGRO AG**  
Korbackerweg 7  
5502 Hunzenschwil  
Switzerland

Manufacturing  
locations: **AGRO AG**  
Korbackerweg 7  
5502 Hunzenschwil  
Switzerland

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 60079-1:2014** 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 60079-7:2017** 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/ExTR12.0069/01**

Quality Assessment Report:

**CH/SEV/QAR12.0001/09**



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

### **Description**

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

They are used for entering cables into electrical equipment that is designed to Increased Safety "eb", Flameproof Enclosure "db", and Protection by Enclosure "ta" type of protection.

They are installed in enclosures with threaded holes or through-holes.

Technical data and Nomenclature see Annex.

### **SPECIFIC CONDITIONS OF USE: YES as shown below:**

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.





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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

1. No technical changes. Updated to current editions of IEC 60079-0 (Ed. 7), IEC 60079-1 (Ed. 7), IEC 60079-7 (Ed. 5.1), IEC 60079-31 (Ed. 2).
2. Marking is changed to:  
Ex db eb IIC Gb  
Ex ta IIIC Da

## **Annex:**

[COCA120055-01\\_1.pdf](#)



**Applicant:** AGRO AG  
Korbackerweg 7  
5502 Hunzenschwil  
Switzerland

**Electrical Apparatus:** Cable gland type EX Compact MS, EX Compact A2 and EX Compact A4

### Description

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

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





## Nomenclature

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

- 1) Code type 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  $\varnothing$   
e.g. 140 = 14 mm

## 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.