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 SEV 15.0019X**	Page 1 of 5	Certificate history:
Status:	**Current**	Issue No: 6	Issue 5 (2022-08-17) Issue 4 (2020-12-03) Issue 3 (2018-12-18) Issue 2 (2018-10-01) Issue 1 (2018-07-16) Issue 0 (2016-01-13)
Date of Issue:	2024-02-02		
Applicant:	**AGRO AG** Korbackerweg 7 5502 Hunzenschwil **Switzerland**		
Equipment:	**Cable glands and accessories, Type: Progress *** ***** EX**		
Optional accessory:	reductions, extensions, blanking elements and counter nut and blanking bolts		
Type of Protection:	**"e", "t"**		
Marking:	Ex eb IIC Gb Ex tb IIIC Db		

Approved for issue on behalf of the IECEx Certification Body: **Munira Gamma**

Position: **Manager Product Certification**

Signature: (for printed version) M. Gamma

Date: (for printed version) 2024-02-02

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

Eurofins Electric & Electronic Product Testing AG
Luppmenstrasse 3
8320 FEHRALTORF .
Switzerland

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Date of issue: 2024-02-02 Issue No: 6

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

Manufacturing locations:

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

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:

CH/SEV/ExTR15.0021/06

Quality Assessment Report:

CH/SEV/QAR12.0001/08

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

General product information:

The cable gland type Progress *** EX made of brass, reinforced plastics or steel for installation of cables in equipment with type of protection increased safety "eb" and protection by enclosure "tb".
Installation takes place into the enclosure with threaded holes and through holes.
The cable gland consists essentially of the compression nut, intermediate support and seal insert.
The strain relief takes place by the use of seal insert or by an additional strain relief device. Accessories are reductions, extensions, blanking elements and counter nut and blanking bolts.

A new type EX1311.25.4.900LVZ has been added to Progress MS Multi Ex. With this type 4 different cables can be inserted directly into a housing using a cable gland.

See Annexe

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Only permanently installed cable may be inserted into an enclosure. The user must provide a suitable strain relief. (not valid for Progress MS ***** KB EX (M12; PG7; NPT1/4"))
- The types with a low impact energy must be installed on the enclosure in such way, that they are protected mechanically from impact energy according to EN 60079-0 clause 26.4.2.

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Equipment (continued):

See Annexe

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Assessment to the standard IEC 60079-31:2013 ed 2.0 has been updated to IEC 60079-31:2022 ed 3.0

  See amendment report.

- Include the product EX1311.25.4.900LVZ.

  A new type EX1311.25.4.900LVZ has been added to Progress MS Multi Ex.

  With this type 4 different cables can be inserted directly into a housing using a cable gland.

Annex:

Annex IECEx SEV 15.0019X Issue 6.pdf

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Annexe to: **IECEx SEV 15.0019X** **Issue No.: 6**

Applicant Name: **AGRO AG**

Equipment: **Cable glands and accessories**

Description of product

The cable gland type Progress *** EX made of brass, reinforced plastics or steel for installation of cables in equipment with type of protection increased safety "eb" and protection by enclosure "tb". Installation takes place into the enclosure with threaded holes and through holes.
The cable gland consists essentially of the compression nut, intermediate support and seal insert. The strain relief takes place by the use of seal insert or by an additional strain relief device.

Accessories are reductions, extensions, blanking elements and counter nut and blanking bolts.
A new type EX1311.25.4.900LVZ has been added to Progress MS Multi Ex. With this type 4 different cables can be inserted directly into a housing using a cable gland.
Comment:
Since the cable and line entries only provide a small amount of space for marking, the Ex marking is not written in detail.

However, since this cable gland is suitable for 3 types of protection, the following notation is used:

1st variant :	Ex eb IIC Gb Ex tb IIIC Db
2nd variant:	Ex eb IIC tb IIIC
3rd variant:	Ex eb IIC Gb Ex tb IIIC Db

Ratings:

Classification of installation and use:	Fixed
Ingress protection:	IP66/ 68
Rated ambient temperature range (°C):	See at service temperatures
Rated service temperature range (°C) for Ex Components	-60 °C … +100 °C for metallic types -20 °C … +85 °C for GFK types -50 °C … +60 °C for MS FK EX, A2 FK EX, A4 FK EX

"Progress" means the product group and e.g. EX1000.08.035 designates the article number Both pieces of information can be used to draw conclusions about the certification during installation.

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Type	Impact low	Sealing insert	O-ring
Progress MS **** KB EX (M12; Pg7; NPT1/4")	X	TPE, NBR or FKM (see next table part for more information)	FKM
Progress MS **** EX (M8…M12; Pg7; NPT1/8"…NPT1/4")	X		
Progress S2 **** EX (M8…M10; NPT1/8")	X		
Progress S4 **** EX (M8…M10; NPT1/8")	X		
Progress MS **** EX (M16…M63; Pg9…Pg48; NPT3/8"…NPT2")			
Progress S2 **** EX (M12…M63; Pg7…Pg48; NPT1/4"…NPT2")			
Progress S4 **** EX (M12…M63; Pg7…Pg48; NPT1/4"…NPT2")			
Progress GFK*** EX (M16…M63; Pg9…Pg48)	X		

This table part gives more information about metallic parts and sealing inserts			
Code in the part number for combination of material of the cable gland and the gasket, O-Ring always FKM *e.g.: EX1000.17.080* *EX1000.17.**94**.080*			
without number = Brass, nickel plated / TPE, NBR			
91 = Brass, nickel plated / FKM			
94 = Steel A2 (1.4305) / TPE, NBR			
96 = Steel A2 (1.4305) / FKM			
97 = Steel A4 (1.4435) / TPE, NBR			
98 = Steel A4 (1.4435) / FKM			
Thread adapters (Reductions, Extensions) MS EX (M8…M12; Pg7)	X	---	FKM
Thread adapters (Reductions, Extensions) S2 EX (M8…M10)	X		
Thread adapters (Reductions, Extensions) S4 EX (M8…M10)	X		

This table part gives more information about metallic parts			
Code in the part number for material, O-Ring always FKM *e.g.: EX3600.10.12* *EX3600.10.12.**96***			
without number = Brass, nickel plated			
96 = Steel A2 (1.4305)			
98 = Steel A4 (1.4435)			
Additional the following customer variants are included: EX1000.12.91.900; EX1100.12.91.900; EX1700.12.86.901.91; EX1700.12.86.903.91; EX1700.17.86.900.91; EX1710.12.86.901.91; EX1710.12.86.903.91; EX1710.17.86.900.91		FKM	FKM
Progress MS FK EX, A2 FK EX, A4 FK EX, article number. EX130*.75.*620.140		NBR or FKM	NBR or FKM
Progress MS Multi EX ; EX1311.25.4.900LVZ	---	NBR or FKM	NBR or FKM
Progress MS EMV easyCONNECT KB EX (brass nickel plated with clamping jaws, M12; Pg7; NPT1/4")	X	TPE, NBR or FKM	FKM

This table part gives more information about metallic parts and sealing inserts
Code in the part number for combination of material of the cable gland and the gasket, O-Ring always FKM *e.g.: EX1803.83.12.065* *EX1803.83.12.**98**.065*
without number = Brass, nickel plated / TPE, NBR
91 = Brass, nickel plated / FKM
94 = Steel A2 (1.4305) / TPE, NBR
96 = Steel A2 (1.4305) / FKM
97 = Steel A4 (1.4435) / TPE, NBR
98 = Steel A4 (1.4435) / FKM