



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 15.0018	Page 1 of 6	<u>Certificate history:</u>
Status:	Current	Issue No: 3	Issue 2 (2020-12-03)
Date of Issue:	2022-08-17		Issue 1 (2018-11-15)
			Issue 0 (2016-01-13)
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:

Patrick Gutensohn

Position:

Manager Product Certification

Signature:
(for printed version)

Date:
(for printed version)

2022-08-17

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Eurofins Electric & Electronic Product Testing AG
Luppenstrasse 3
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Switzerland



E&E



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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 60079-31:2013 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:

[CH/SEV/ExTR15.0020/03](#)

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, steel or reinforced plastics 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.

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] II 2G Ex eb IIC Gb [Ex] II 2D Ex tb IIIC Db
2nd variant:	[Ex] II 2GD Ex eb IIC tb IIIC
3rd variant:	[Ex] II 2GD Ex eb IIC Gb Ex tb IIIC Db

Ratings:

Classification of installation and use:	Stationary
Ingress protection:	IP66 / IP68
Rated ambient temperature range (°C):	See at service temperature
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

Type references:

"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.

Type	Impact low	Sealing insert	O-ring
Progress MS **** KB EX (M16...M63; Pg9...Pg48; NPT3/8"...NPT2")	No restrictions	TPE, NBR or FKM	FKM
Progress S2 **** KB EX (M12...M63; Pg7...Pg48; NPT1/4"...NPT2")			
Progress S4 **** KB EX (M12...M63; Pg7...Pg48; NPT1/4"...NPT2")			
Progress MS EMV KB EX (M16...M63; Pg9...Pg48; each long & short)			
Progress S2 EMV KB Ex (M16 – M63, Pg9 – Pg48; each long & short)			
Progress S4 EMV KB Ex (M16 – M63, Pg9 – Pg48; each long & short)			

SPECIFIC CONDITIONS OF USE: NO



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Equipment (continued):

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.: EX1813.25 EX1813.25.94
without number = Brass, nickel plated / TPE, NBR
91 = Brass, nickel plated / FKM, sealing insert one-piece
92 = Brass, nickel plated / FKM, sealing insert two-pieces
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

Type	Impact low	Sealing insert	O-ring
Thread adapters (Reductions, Extensions) MS EX (M16...M63; Pg9...Pg48)	No restrictions	---	FKM
Thread adapters (Reductions, Extensions) S2 EX (M12...M63; Pg7...Pg48)			
Thread adapters (Reductions, Extensions) S4 EX (M12...M63; Pg7...Pg48)			
Blanking elements MS EX; S2 EX; S4 EX (M8...M63; Pg7...Pg48)			
Counter nuts MS EX; S2 EX; S4 EX (M8...M63; Pg7...Pg48)			

This table part gives more information about metallic parts
Code in the part number for material, O-Ring always FKM e.g.: EX3600.20.25 EX3600.20.25.98
without number = Brass, nickel plated
96 = Steel A2 (1.4305)
98 = Steel A4 (1.4435)

Type	Impact low	Sealing insert	O-ring
Progress MS EMV easyCONNECT KB EX (brass nickel plated with clamping jaws, M16...M63; Pg9...Pg48; NPT3/8"...NPT2")	No restrictions	TPE, NBR or FKM	FKM
Progress S2 EMV easyCONNECT KB Ex (stainless steel A2 with clamping jaws, M12...M63; Pg7...Pg48; NPT1/4"...NPT2")			
Progress S4 EMV easyCONNECT KB Ex (stainless steel A4 with clamping jaws, M12...M63; Pg7...Pg48; NPT1/4"...NPT2")			



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This table part gives more information about metallic parts and sealing inserts
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Code in the part number for combination of material of the cable gland and the gasket, O-Ring always FKM e.g.: EX1803.83.32 EX1803.83.32.97
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without number = Brass, nickel plated / TPE, NBR
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91 = Brass, nickel plated / FKM, sealing insert one-piece

92 = Brass, nickel plated / FKM, sealing insert two-piece

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

* = (Explanation: Blanking elements are intended to close unused openings in the enclosure walls of electrical equipment. They are also called as locking plugs)





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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 3:

The sealing inserts FKM are tracked. The tests were already carried out in 2015 and are not a technical change, but only a supplement to the understanding of the certificates. Note: FKM English term for FPM in German language, these can be found in the test matrixes from the year 2015.

Assessment to the standard 60079-0:2017 ed 7.0 has been re-created to allow the .X04 and .X16 to work independently.

Issue 2:

There were added new types of cable glands Progress made in stainless steel

Issue 1:

The product group was supplemented. The supplemented products are cable glands.

