



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 6	<u>Certificate history:</u>
Status:	Current	Issue No: 5	Issue 4 (2020-12-03)
Date of Issue:	2022-08-17		Issue 3 (2018-12-18)
Applicant:	AGRO AG Korbackerweg 7 5502 Hunzenschwil Switzerland		Issue 2 (2018-10-01)
Equipment:	Cable glands and accessories, Type: Progress *** ***** EX		Issue 1 (2018-07-16)
Optional accessory:	reductions, extensions, blanking elements and counter nut and blanking bolts		Issue 0 (2016-01-13)
Type of Protection:	"e", "t"		
Marking:	Ex eb IIC Gb Ex tb III C 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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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/ExTR15.0021/05](#)

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.

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 (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		

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):

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

Type	Impact low	Sealing insert	O-ring
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 and sealing inserts
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)

Type	Impact low	Sealing insert	O-ring
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 EMV easyCONNECT KB EX (brass nickel plated with clamping jaws, M12; Pg7; NPT1/4")	x	TPE, NBR or FKM	FKM



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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





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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 5:

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.

Update to IEC 60079-0:2017 edition 7.0

Issue 4:

New types of cable glands Progress made in stainless steel were added

Issue 3:

Progress MS EMV easyCONNECT KB EX
(brass Ni with clamping jaws, M12; Pg7; NPT1/4") [low impact]

Issue 2:

There were added new types for ribbon cable:
Progress MS FK EX, A2 FK EX, A4 FK EX, article number. EX130*.75.*620.140

Issue 1:

There were added new Types with new divided seal insert.

