



## (1) EC-TYPE-EXAMINATION CERTIFICATE (Translation)

- (2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**
- (3) EC-type-examination Certificate Number:



**PTB 02 ATEX 1125**

- (4) Equipment: Cable gland, type Progress ... Ex
- (5) Manufacturer: AGRO AG
- (6) Address: Korbackerweg 7, 5502 Hunzenschwil, Switzerland
- (7) This equipment and any acceptable variation thereto are 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 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.
- The examination and test results are recorded in the confidential report PTB Ex 03-12309.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN 50014:1997 + A1 + A2**                      **EN 50019:2000**
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EC-type-examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the equipment shall include the following:



**II 2 G/D EEx e II IP 68**

Zertifizierungsstelle Fachamt Schutz

Braunschweig, April 07, 2003

By order:

Dr.-Ing. U. Klausmeyer  
Regierungsdirektor



(13)

## SCHEDULE

(14)

### EC-TYPE-EXAMINATION CERTIFICATE PTB 02 ATEX 1125

(15) Description of equipment

The cable gland of type Progress ... EX is made from brass or steel. It is used as cable entry into electrical equipment designed to type of protection Increased Safety "e". The cable gland is mounted in enclosures provided with threaded holes and feed-through openings.

The main elements of the cable gland are the forcing nut, the adapter gland, and the sealing element. The sealing element, or an additional cable grip, provides the required strain relief. Accessories provided include reducers, expansion fittings, plugs and counter nuts.

#### Technical data

Type	Type and size of thread
Progress MS EMV KB EX	M16x1.5 to M63x1.5, long and short Conduit thread Pg9 to Pg48, long and short
Progress MS KB EX	M16x1.5 to M63x1.5, long and short Conduit thread Pg9 to Pg48, long and short
Progress S2 KB EX	M12x1.5 to M63x1.5, long Conduit thread Pg7 to Pg48, long
Progress MS HT KB EX	M16x1.5 to M63x1.5, long and short Conduit thread Pg9 to Pg48, long and short
Progress S2 HT KB EX	M12x1.5 to M63x1.5, long Conduit thread Pg7 to Pg48, long
Progress S4 HT KB EX	M12x1.5 to M63x1.5, long Conduit thread Pg7 to Pg48, long
Progress MS T+KB EX	M16x1.5 to M40x1.5, long and short Conduit thread Pg9 to Pg29, long and short
Progress MS HT T+KB EX	M16x1.5 to M40x1.5, long and short Conduit thread Pg9 to Pg29, long and short
Expansion MS EX	M16x1.5 to M50x1.5, short Conduit thread Pg9 to Pg48, short
Expansion S2 EX	M8x1 to M50x1.5, short Conduit thread Pg7 to Pg48, short
Expansion S4 HT Ex	M8x1 to M50x1.5, short Conduit thread Pg7 to Pg48, short
Reducer MS EX	M10x1 to M63x1.5, short Conduit thread Pg7 to Pg48, short
Reducer S2 EX	M10x1 to M63x1.5, short Conduit thread Pg7 to Pg48, short
Reducer S4 HT EX	M10x1 to M63x1.5, short Conduit thread Pg7 to Pg48, short
Plug MS EX	M8x1 to M63x1.5, long and short Conduit thread Pg7 to Pg48, long and short
Plug S2 EX	M8x1 to M63x1.5, long and short
Plug S4 HT EX	M8x1 to M63x1.5, long and short
Counter nut MS EX, MS EMV EX and S2 EX	M8x1 to M63x1.5 Conduit thread Pg7 to Pg36

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EC-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.

Nominal diameter of cables ..... 3 mm to 52 mm  
 Min. wall thickness:  
   for equipment with threaded holes .....4.0 mm  
   for equipment with feed-through openings .....2.0 mm to 6.0 mm  
 Max. operating temperatures, sealing ring TPE, black ..... -20 °C to +100 °C  
   sealing ring FPM, green ..... -20 °C to +200 °C

(16) Test report PTB Ex 03-12309

(17) Special conditions for safe use

None;

Notes for manufacturing and operation

Cable glands with heavy-gauge conduit thread must be clearly marked.

(18) Essential health and safety requirements

met by compliance with the standards mentioned above

Zertifizierungsstelle Explosionsschutz

By order:

*U. Klammann*

Dr.-Ing. U. Klammann  
 Regierungsdirektor



Braunschweig, April 07, 2003