

[1]

# EU-TYPE EXAMINATION CERTIFICATE



[2]

## Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

[3]

EU-Type Examination Certificate Number: **DEMKO 08 ATEX 143928X Rev. 2**

[4]

Product: **Explosion Protected Coil for Magnetic Valve**

[5]

Manufacturer: **Baccara Geva Agriculture Corporation Society Ltd.**

[6]

Address: **Kibbutz Geva, Kvutzat Geva, 18915, Israel**

[7]

This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8]

UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. **4789125917.1.1**

[9]

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0:2012+A11:2013**

**EN 60079-18:2015**

[10]

If the sign "X" is placed after the certificate number, it indicates that the product is subject to special conditions for safe use specified in the schedule to this certificate.

[11]

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.

[12]

The marking of the product shall include the following:

 **II 2 G Ex mb IIC T6 Gb**

### Certification Manager

Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

**Date of issue:** 2008-06-04

**Re-issued:** 2019-08-20

### Notified Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark  
Tel. +45 44 85 65 65, [info.dk@ul.com](mailto:info.dk@ul.com), [www.ul.com](http://www.ul.com)



## Schedule

### EU-TYPE EXAMINATION CERTIFICATE No.

DEMKO 08 ATEX 143928X Rev. 2

[13]

[14]

[15] Description of Product

The solenoid type GEM-BE-1-\*\* produces a magnetic field for magnetic valve. The coil and PWB is potted inside an overall polymeric housing.

Nomenclature for type: GEM-BE-1-\*\*

Where '-xx' is electrical ratings

-21	12V	AC/DC, inrush 8.6W (720 mA) / holding 0.8W (66 mA)
-31	24V	AC/DC, inrush 9.6W (400 mA) / holding 0.9W (36 mA)
-41	48V	AC/DC, inrush 9.6W (200 mA) / holding 0.9W (20 mA)
-51	115V	AC/DC, inrush 9.7W (88 mA) / holding 0.9W (8 mA)
-71	230V	AC/DC, inrush 9.2W (40 mA) / holding 0.9W (4 mA)

Temperature range

The ambient temperature range is -20 °C to +50 °C.

Electrical data

The rating of the voltage is  $\pm 10\%$ .

See nomenclature above '-xx' for electrical rating.

Routine tests

Routine tests according to EN 60079-18 cl. 9 are required. A visual inspection shall be subjected to each piece followed by a dielectric strength test according to cl. 8.2.4 of EN 60079-18.

[16]

Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [ 8 ] on page 1 of this EU-Type Examination Certificate.

[17]

Specific conditions of use:

- The solenoid must be protected against direct sunlight and other ultraviolet light sources.
- The solenoid shall always be mounted on the valve when the power is connected. When the valve is removed the solenoid shall be disconnected. If power is connected and the solenoid is without valve the temperature can exceed the temperature class.
- Fluid temperature shall be taken into account so the solenoid coil and valve surface temperature do not exceed 70°C.
- In case of cleaning the solenoid, this must be done with a moist cloth, in order to prevent build-up of electrostatic charges.
- The coil shall be protected against any impact greater than 4 joule.
- The ambient temperature must be within the range:  $-20 < t_a < +50$  °C

[18]

Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

The GEM-BE-1-\*\* has in addition passed the requirements for Ingress Protection to IP 65 in accordance with EN60529:1991+A1:2000+A2:2013.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.

Accredited by DANAK under registration number 7011 to certification of products.