


Device with II 2G Ex mb-certification
DEMKO 08 ATEX 143928X

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Solenoid Valve with Coil

According to ATEX 94/9/EC (ATEX 100a)
 II 2 G Ex mb IIC T6 Gb IP65
 Certification: DEMKO 08 ATEX 143928X,
 IECEX UL 14.0051X


ATEX IECEx and EC Declaration of Conformity

Dear Customer,
 In order to guarantee the function and for your own safety, please read the operating instructions carefully, before starting installation. The coil was designed to fit GEM-SOL type solenoid operators. Please consult with our technical sales department before using other solenoids.

Should you have any queries, please contact:
 Baccara Ltd.

Phone: +972 4 6535960
 Fax: +972 4 6531445
 email: info@baccara-geva.com

The device serves exclusively as a solenoid valve for the media stated in the data sheet in the catalogue, and for use in: Explosion Group II 2G and the temperature Class T6 (see data on the label plate). The type of protection used is "Encapsulation" Ex mb, by potting Epoxy.

 II 2 G Ex mb IIC T6 Gb IP65

1

Operating Instructions

General Conditions

- We are not liable for any damage caused by non-observation of this information, as well as in case of improper intervention regarding this product.
- Please observe the operating instructions and conditions, as well as the data marked on the type plates of the respective products.
- Follow the technical rules when selecting and operating a unit.
- Do not detach pipes and valves of pressurized systems.
- Fluid temperature must be taken into account so as the solenoid coil and valve temperature do not exceed 70°C.
- **Warning! Potential electrostatic charging is a hazard. To prevent these charges building up, clean the solenoid with a moist cloth ONLY.**
- The coil must be protected against any impact higher than 4 joule.
- The solenoid must be protected against direct sunlight and other UV light sources.
- Drawing number 3267.

ATTENTION!

- Observe the technical safety rules in the planning and operating of this device.
- Take precautions to prevent inadvertent operation or damage by unauthorized action.
- Make no changes in the device!
- **Caution! Risk of Injury! If power is connected and the solenoid is without the valve, it can get very hot during continuous operation.**

2

TECHNICAL DATA

Ambient temperature: -20°C to 50°C
 Explosion proof environment: Per ATEX94/9/EC II 2 G
 Coil duty cycle: 100%
 Ingress protection level: IP65
 Electrical connection: 2 [m] PVC cable with 0.75 [mm²] conductors.
 Assembly - in any position, fixing with G1/4" hexagonal nut.
 Electrical Specifications: Voltage variation: + - 10% of normal voltage.
 Inrush time: 50 [msec]

	GEM-BE-1-21	GEM-BE-1-31	GEM-BE-1-41	GEM-BE-1-51	GEM-BE-1-71
Voltage	12 AC/DC	24 AC/DC	48 AC/DC	115 AC/DC	230 AC/DC
Baccara P/N	11520239	11520240	11520241	11520242	11520243
Inrush current [mA]	720	400	200	88	40
Power inrush [w]	8.6	9.6	9.6	9.7	9.2
Holding current [mA] AC	135	55	38	17	9
Power hold [W]	0.8	0.9	0.9	0.9	0.9

* Holding current is an average value

3

INSTALLATION

Before installing the device, de-pressurize the system and disconnect the electrical power.

- Check that there is no dirt in the piping of the valve housing before installation.
- Mounting is admissible in any position, although vertical is preferred.

The power supplying the solenoid must be limited to a prospective short circuit current of a maximum of 5A according to EN60079 - 18 cl. 10(c).

Piping

- Please use the appropriate pipe size.
- A suitable filter to the system should be mounted in the flow path in the inlet side.
- Sealant particles should be avoided from entering the valve.
- Use appropriate tools to tighten the pipes. To hold the valve a counter tool must be used.

4

ELECTRICAL CONNECTION

- Place the coil onto the solenoid operator.
- Tighten the 1/4" BSP locking nut with a 19mm (3/4") wrench.
- Connect the wires (blue and brown) to the power supply and tighten all electrical terminal screws.
- Use electrical cable with cross-section of at least 0.75 [mm²]

For ambient temperatures below -10°C and above +60°C use field wiring suitable for both minimum and maximum ambient temperatures.

ALWAYS connect ground (GND) conductor! Use the earth connection (green/yellow).

ATTENTION!

- Do not apply voltage to a coil that is not mounted onto a solenoid valve.
- A 5A current fuse on the power source is advised.

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MAINTENANCE & REPAIRS

The devices are maintenance free when operated under the conditions described in this manual.

ATEX IECEx CERTIFICATION

Since 01.07.2003, the new EC Guideline 94/9/EC (ATEX 100a) is being applied. The present Baccara Geva product complies with the requirement of this Guideline. The product is a solenoid coil which has been designed to fit GEM-SOL type solenoid operators. The coil has been certified by DEMKO UL: DEMKO 08 ATEX 143928X and IECx UL 14.0051X.

NOTE: The design inspection certificate is to be found in Appendix A1.

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BEFORE OPERATING

The ambient temperatures should never be outside the range of the solenoid which is -20°C to +50°C. Before the system is pressurized, test the valve by energizing the valve several times. A metallic "click" should be heard.

8

CE DECLARATION OF CONFORMITY

BACCARA GEVA as manufacturer hereby declares that these products comply with the requirements of the Directives of the Committee for the Harmonization of the Legal Regulations of Member States concerning in respect of electrical equipment with rated voltages of 50 - 1000 VAC or 75 - 1500 VDC (Low voltage guideline 2006/95/EC). In respect of electromagnetic compatibility (2004/108/EC) equipment and protective systems intended for use in potentially explosive atmosphere. (ATEX, 95/9/EU). The following standards were used as guide lines to assess the compliance of the product with regards to:

Low voltage directive (LVD)

EN 61010 -1: Safety requirements for electrical equipment for measurement, control and laboratory use.

EN 60529: 11 /92: Degrees of protection provided by enclosures (IP code).

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TROUBLE SHOOTING

- Check the cable connections, operating voltage, pressure and flow.
- Check electrical connections.
- Check pipe for dirt.
- Should the problem persist, remove pressure and disconnect from power supply.

9

CONTACT INFORMATION

FACILITY AND HEAD OFFICE

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BACCARA

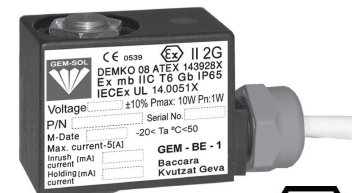
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Solenoid Valve with Coil

According to ATEX 94/9/EC (ATEX 100a)

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