[1]

TYPE EXAMINATION STATEMENT
CATEGORY 3 EQUIPMENT

[2] **Equipment intended for use in potentially explosive atmospheres**

[3] Type Examination Statement number: **IMQ 22 ATEX 022 X**

[4] PRODUCT: **Single coils for solenoid valves**
TYPE/SERIES: **Series 4408/3**

[5] MANUFACTURER: **AE.CAS. S.r.l.**

[6] ADDRESS: Via Novara 1 – Nova Milanese (MB) 20834 - Italy

[7] IMQ states that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of Category 3 equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive 2014/34/EU with reference to the requirements covered by the standards below defined.

[8] Compliance with EHSRs given in the Directive 2014/34/EU, except for those listed at item 17 of the annex, has been assured by compliance with the requirements of the following standard:

EN IEC 60079-0:2018; EN 60079-18:2015; EN 60079-18/A1:2017

Other reference standard: EN IEC 60079-0:2018/A1:2024

[9] If the sign "X" is placed after the statement number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this statement

[10] This TYPE EXAMINATION STATEMENT relates only to the design and construction of the specified equipment. Further requirements of the Directive are **not covered** by this statement.

[11] The marking of the equipment shall include the following:

II 3G **Ex mc IIC T3 Gc**

This document is composed of 4 pages including 1 annex

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B.U. PRODUCT
CERTIFICATION SECTOR – MANAGER

Mod. 3681/4

[12] # ANNEX

[13] Type Examination Statement number: **IMQ 22 ATEX 022 X**

[14] Description of product:
Single coils for solenoid valves.
The coils control the solenoids which are normally closed, they open when the coils are energized.
Coils with encapsulation made by glass reinforced molding compound (HR5330HF BK503).

[14.1] **Models/Series Identification:**

Single coil series 4408/3 which consists of the following models:

Code	Voltage	Power	Resistance Ω 20°C ± 5%	Cable length
195S006B015	24 VDC	14,4W	40,2	15 mt
87206822	24 VDC	14,4W	40,2	15 mt

[14.2] **Ratings:**
Vn= 24 Vdc; In= 0,6 A; Pn= 14,4 W

[14.3] **Safety Ratings:** -

[14.4] **Ambient temperature and temperature classes:**
Ambient temperature: -40 °C ÷ +85 °C.
Temperature Class: T3

[14.5] **Degree of protection (IP code):** IP65 according to EN 60529

[14.6] **Warnings:**
Potential electrostatic charging hazard – See instructions

[15] Report: AT25-0124332-01

[15.1] **Routine (factory) tests:**
The manufacturer must carry out the routine test and verifications prescribed at clause 27 of the EN 60079-0 and clause 9 of the EN 60079-18:
- §9.1 Visual inspection
- §9.2 Dielectric strength test: 500 V maintained for at least 1 seconds, on complete device, with a maximum leakage current of 5 mA.

[15.2] **Conformity with the documentation:**
The manufacturer shall carry out the verifications or tests necessary to ensure that the product complies with the documentation.
Marking the equipment in accordance with Clause 29 of EN 60079-0, the manufacturer attests on his own responsibility that:
- the equipment has been constructed in accordance with the applicable requirements of the relevant standards in safety matters;

the routine verifications and routine tests in 28.1 of EN 60079-0 have been successfully completed with positive results.

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[15.3] **Installation conditions:**
The equipment is foreseen to be installed in locations where there are environmental conditions, as specified at clause 1 of EN 60079-0. Installation and use at environmental conditions outside of above-mentioned intervals request special considerations and additional measures by the side of installer or user.
Installation of equipment shall be done according to EN 60079-14.

Specific condition of use (X) / Schedule of limitations:
• A Current Fuse corresponding to the solenoid operator's rated current (not above to 1,6 A, Breaking capacity not below 1500A. IEC 60127) must be positioned in the respective power
[16] supply or it must be installed separately.
•The coil must be protected from solar or any artificial light.
•Potential electrostatic charging hazard. In case of cleaning of the coil use ONLY wet cloth.
•The equipment shall be used where protection against risk of mechanical damage is provided.

[17] **Essential Health and safety Requirements:**
This Statement **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed in [8].
This Statement **does not** cover hazards coming from environmental conditions different from those clearly and precisely indicated and covered in clause 1 of EN 60079-0.

ESHR 1.2.7 to be fulfilled by manufacturer according to Annex VIII of the Directive
ESHR 1.4 Not verified.
ESHR 1.5 Not verified.
ESHR 3 Not applied.

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at [8], the following are considered relevant to this equipment, and conformity is demonstrated in the report:
N/A

[18] **Descriptive documents:** DL-AT25-0124332-01, Rev.0 dated 2025-11-07.

[19] **Certification Validity Conditions:**
This Statement is subject to general rules for the issuing of products type certificates and to special requirement for equipment intended for use in potentially explosive atmospheres.
This Statement is issued according to product certification system 1a of EN ISO/IEC 17067; therefore, it does not imply any judgment on the production and it does not permit the use of a mark of conformity.
This statement does not replace the conformity assessment procedure, to be carried out by the Manufacturer, referred to in Annex VIII of Directive 2014/34/EU.

[12] # ANNEX

[13] Type Examination Statement number: **IMQ 22 ATEX 022 X**

[20] Variations

Issue 0: 2022, May
- First emission

Issue 1: 2025, December
- Increased wall thickness of the coil encapsulation;
- Change the name of the series;
- Added a second new coil code.