

[1] **EU - TYPE EXAMINATION CERTIFICATE**
[2] **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
Directive 2014/34/EU Annex III, Module B

- [3] EU – Type Examination Certificate Number ACE25ATEX010X Rev00
- [4] Product Solenoid for Injection Pump
- [5] Manufacturer Petrosavin Sanat Engineering Co.
- [6] Address No.313, Kolahdooz St., Shariati St., Tehran, Iran
- [7] This equipment or protective system and any acceptable variation there to are specified in the schedule to this certificate and the documents therein referred to.
- [8] Advanced Consulting and Engineering Iberia SL (A.C.&E. Iberia S.L.), Notified body Accreditation nº: NB3024 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the 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. EX_EXE003_25_25-397
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0 2018: Explosive atmospheres — Part 0: Equipment — General requirements
EN 60079-7: 2015/A1: 2018: Explosive atmospheres — Part 7: Equipment protection by increased safety ‘e’
- [10] If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the point 17 of 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 this certificate.
- [12] The marking of the equipment or protective system shall include the following:



II 2G Ex eb IIB T4 Gb

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Date: 05/05/2025



**Advanced Consulting and Engineering
Iberia SL**
Notified Body No NB3024

Matteo Marconi, CEO

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[13] **SCHEDULE**

[14] EU-Type Examination Certificate No: ACE25ATEX010X Rev00

[15] Description of equipment

Increased safety solenoid

A solenoid is a device comprised of a coil of wire, the housing and a moveable plunger (armature). When an electrical current is introduced, a magnetic field forms around the coil which draws the plunger in. More simply, a solenoid converts electrical energy into mechanical work.

The solenoid connected to the certified Exe terminal placed in Ex terminal box. The winding is installed and impregnated by Silicone Adhesive inside the cylindrical steel enclosure.

Normal operation temperature: -15 °C to 55 °C

Maximum working voltage: 300Vdc

Housing material: SS316

Housing degree of protection: IP 65

Ex-Certified terminals: Raad (FTZU 22 ATEX 0015U)

Junction box can be :

Brand	Material	Dimension	ATEX
CORTEM	AL.	90x90x73	CESI 03 ATEX 333
STAHL	Polyester resin	85x85x55	PTB 99 ATEX 3103

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[13] **SCHEDULE**

[14] EU – Type Examination Certificate No: ACE25ATEX010X Rev00

- [16] Test documents are listed in the test report nº 24/Ex eb/8486/C,
 [17] Special conditions for safe use
 Assembling, disassembling maintenance and repair of the increased safety solenoid on the pump should only be done by the manufacturer
 Using Ex-certified cable gland with suitable degree of protection on solenoid terminal box is the responsibility of the user
 The range of stroke adjustment of solenoid is 0-120 pulses per min.
 The continuous operation that causes overheating should be protected in control circuit.
 [18] Essential Health and Safety Requirements
 Are fulfilled by the harmonized standard

The manufacturer shall be performing dielectric routine test according to EN60079-7 clause 7.1 Documents and technical datasheets:

Title	Object	Revision	Date
24/Ex eb/8486/C,	Laboratory Test report	00	28/09/2024
EHSRs_analysis_&_Risk Assessment_Petro_Savin_V0.1	Risk assessment and EHSR	01	28/09/2024
TECHNICAL_V0.2	Technical file	02	10/2024
Operating Instruction	Instruction	00	10/2024
Solenoid01	Drawing	01	

The above-mentioned documents are strictly confidential and they are of only use of authorities. A copy of the documents is saved by A.C.&E. Iberia S.L.

[20] Certificate History

Certificate Number	Rev.	Comments	Date
ACE25ATEX010X	00	First issue	05/05/2025

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