

CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **KEMA 02ATEX1347 X** Issue Number: **4**

(4) Product: **Valve Solenoids, Series 029***

(5) Manufacturer: **IMI International s.r.o.**

(6) Address: **CT Park Evropská 852, Modřice 664 42, Czech Republik**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the 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 test report number NL/DEK/ExTR13.0012/02.

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

EN IEC 60079-0 : 2018

EN 60079-18 : 2015 + A1 : 2017

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of 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 this certificate.

(12) The marking of the product shall include the following:



II 2 G Ex mb IIC T4...T3 Gb
II 2 D Ex mb IIIC T115 °C...T155 °C Db

Date of certification: 25 November 2022

DEKRA Certification B.V.

L.G. van Schie
Certification Manager



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 02ATEX1347 X**

Issue No. 4

(15) **Description**

Valve Solenoids, Series 029* consisting of a metallic housing, with a coil in type of explosion protection encapsulation “mb”, with or without an internal fuse.

For details on the type description, thermal data and electrical data see Annex 1 to Report No. NL/DEK/ExTR13.0012/02.

Marking

Space for marking is limited. The postal address of the manufacturer has been abbreviated to 664 42 Modřice, which is the zip code of the PO box of the manufacturer.

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

NL/DEK/ExTR13.0012/02.

(17) **Specific conditions of use**

The Valve Solenoids without internal fuse shall have a short circuit protection by means of a fuse with a rating in accordance with the nominal supply current and voltage (max. $3 \times I_R$ according to EN 60127-2-1). The breaking capacity of the fuse must be equal or greater than the prospective short circuit current of the supply.

The internal fuse of the Valve Solenoid has a breaking capacity of 35 A. When the short circuit current is greater than 35 A, suitable measures shall be taken.

The encapsulation surface of the Valve Solenoids shall be protected from exposure to UV light when installed.

The Valve Solenoids shall be installed in an environment where a low risk of mechanical danger applies.

Electrical and temperature ratings to be observed as listed in the Annex 1.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

EHSR 1.2.1: Subject: Equipment must be designed and constructed with due regard to technological knowledge of explosion protection so that they can be safely operated throughout their foreseeable lifetime.
By compliance with EN 50028 : 1987, Appendix A, cl. 6.2.1.2.

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 02ATEX1347 X**

Issue No. **4**

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR13.0012/02.

(20) **Certificate history**

Issue 1 - 202400700	Initial certificate
Issue 2 - 214290500	Update to EN 60079-0 : 2012 and EN 60079-18 : 2009 Addition of alternative encapsulation
Issue 3 - 224102900	Update to EN IEC 60079-0 : 2018 and EN 60079-18 : 2015 + A1 Change in construction and ratings
Issue 4 - 226752400	Manufacturer change