

(1) **EU - Type Examination Certificate**

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**
(3) EU - Type Examination Certificate Number

EPS 18 ATEX 1 019

Revision 1

- (4) Equipment: Valve solenoids Type 48xx
(5) Manufacturer: IMI International s.r.o.
(6) Address: CTP Evropská 852
664 42 Modřice
Czech Republic
(7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.
(8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 16TH0155.
(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018




EN 60079-1:2014

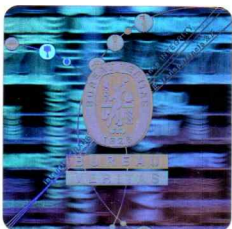
EN IEC 60079-7:2015/A1:2018

EN 60079-18:2015/A1:2017

EN 60079-31:2014

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.
(11) This EU - Type Examination Certificate relates only to the design and construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.
(12) The marking of the equipment shall include the following:

-  II 2G Ex db mb IIC T4/T6 Gb
 II 2G Ex eb mb IIC T4/T6 Gb
 II 2D Ex tb IIIC T110°C Db



Certification department of explosion protection

Tuerkheim, 2022-11-08

Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.

(13)

Annex

(14) **EU - Type Examination Certificate EPS 18 ATEX 1 019**

Revision 1

(15) Description of equipment:

The valve solenoid type 48xx is an electrical equipment for use in hazardous areas of category 2G and 2D. It consists of a cast housing with encapsulated magnetic coil. The connection is made in a junction box with type of protection "increased safety" or "flameproof enclosure".

Type overview of valve solenoids type 48xx:

Solenoids for valves with a core tube diameter of 13 mm and a M20x1.5 thread for the cable gland
Type: 4802, 4803, 4812, 4813, 4822, 4823

Solenoids for valves with a core tube diameter of 16 mm and a M20x1.5 thread for the cable gland
Type: 4852, 4853, 4862, 4863, 4872, 4873

Solenoids for valves with a core tube diameter of 13 mm and a ½-14 NPT thread for the cable gland
Type: 4800, 4801, 4810, 4811, 4820, 4821

Solenoids for valves with a core tube diameter of 13 mm and a ½-14 NPT thread for the cable gland
Type: 4850, 4851, 4860, 4861, 4870, 4871

Type	Rated power	Voltage range	Permitted ambient temperature range		
			Gases		Dusts
			T4	T6	
4802, 4852, 4800, 4850	0.7 W	24 VDC... 110 VDC	-40 °C ... +80 °C	-40 °C ... +70 °C	-40 °C ... +80 °C
4803, 4853, 4801, 4851	1 VA	24 VAC... 230 VAC	-40 °C ... +80 °C	-40 °C ... +70 °C	-40 °C ... +80 °C
4812, 4862, 4810, 4860	4 W	24 VDC... 120 VDC	-40 °C ... +75 °C	-40 °C ... +50 °C	-40 °C ... +75 °C
4813, 4863, 4811, 4861	5 VA	24 VAC... 230 VAC	-40 °C ... +75 °C	-40 °C ... +50 °C	-40 °C ... +75 °C
4822, 4872, 4820, 4870	8 W	24 VDC... 110 VDC	-40 °C ... +50 °C	X	-40 °C ... +50 °C
4823, 4873, 4821, 4871	9 VA	24 VAC... 230 VAC	-40 °C ... +50 °C	X	-40 °C ... +50 °C

(16) Reference number: 16TH0155

(17) Special conditions for safe use:

None.

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection

Tuerkheim, 2022-11-08

Ulrich Feike