



EU Type Examination Certificate CML 18ATEX1240X Issue 0

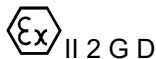
- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **Pneumatic Solenoid Valves Series 200B**
- 3 Manufacturer **MAC VALVES EUROPE, INC.**
- 4 Address **Rue Marie Curie, 12
B-4431 Ans (Liège)
Belgium**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 Certification Management Limited, Unit 1 Newport Business Park, New Port Road, Ellesmere Port CH65 4LZ, UK, Notified Body Number 2503, 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 equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in the confidential reports listed in Section 12.
- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN 60079-0:2012+A11:2013

EN 60079-1: 2014

EN 60079-31: 2014

- 10 The equipment shall be marked with the following:



II 2 G D

Ex db IIC T4/T5* Gb

Ex tb IIIC T135°C/T100°C* Db

* The marked Temperature Class and assigned maximum surface temperature depend on the model and power rating. Refer to Description and Conditions of Manufacture.

Ta = -18°C to +40°C*

* The ambient range is given as a Specific Condition of Use.

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11 Description

Pneumatic solenoid valves series 200B, type 2XXB-YY0EE EV ECG and 2XXB-YY0EE 005 EV ECG.

The solenoid valve consists of a flameproof enclosure. The enclosure is made of aluminium.

Flameproof joints are of type 'Cylindrical' and 'Threaded'. There are 4 joints in total, 2 of each type.

The flameproof enclosure contains a solenoid coil. The coil may be of various voltage, power and frequencies. The coil is supplied with a permanently connected cable passing through a flameproof cable gland. The length of the cable may vary on customer request (1.1, 2.0 or 5.0 meters).

The pneumatic aspect is not covered by this certification project, as mechanical. Fluids are of type 'non-hazardous'. Fluid pressure may vary from 0 to 10 bar/145 PSI.

The ATEX marking plate is fitted on the top of the flameproof enclosure.

- Supply voltage: 6 to 600 Volt, direct current, 50 or 60 Hertz.

- Nominal power: 1 to 24 Watt.

The valves are supplied with a permanently connected cable.

The marked Temperature Class and assigned maximum surface temperature are dependent on the mounting type (inline or manifold) and the power dissipation. See table below:

Mounting	Coil (Watts)	Temperature Class / Assigned Maximum Surface Temperature
Inline	≤ 16	T5 / T100°C
Inline	16 to 24	T4 / T135°C
Manifold	≤ 10	T5 / T100°C
Manifold	10 to 24	T4 / T135°C

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	07 Jan 2019	R11820A/00	Issue of prime certificate.

Note: Drawings that describe the equipment or component are listed in the Annex.



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13 Conditions of manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- 13.1 Where the product incorporates certified parts or safety critical components, the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- 13.2 The Temperature Class and assigned maximum surface temperature are dependent on the model and the power rating. Only the Temperature Class/assigned maximum surface temperature applicable to the model/power rating, as defined in the approved documents and in the description on this certificate, shall be marked.
- 13.3 The full model number defining the specific design variant of each unit shall be marked.
- 13.4 The electrical ratings specific to the design variant shall be marked.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

- 14.1 The Ambient Temperature Range of the equipment is -18°C to $+40^{\circ}\text{C}$; it is the user's responsibility to ensure that the intended application meets the ambient temperature range limits of the equipment.

Certificate Annex



Certificate Number CML 18ATEX1240X
Equipment Pneumatic Solenoid Valves Series 200B
Manufacturer MAC VALVES EUROPE, INC.

The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
DOC-LP	1 to 3	14.06.2018	07 Jan 2019	Liste des plans et documents du dossier d'examen CE de type
14066	1 of 1	G	07 Jan 2019	'MAC' Logo Label
14501-01 14501-02	1 of 1	B	07 Jan 2019	Information Plate (ATEX Explosion Proof)
FT-200 series inline 20180831	1 to 2	-	07 Jan 2019	ATEX Certified Valves
FT-200 Series manifold 20180831	1 to 2	-	07 Jan 2019	ATEX Certified Valves
22VB-XX0EE-V V	1 of 1	E	07 Jan 2019	Explosion Proof 1/8" & 1/4" Inline Valve Assy
25VB-XX0EE-V V	1 of 1	E	07 Jan 2019	Explosion Proof Manifold Valve Assy
13106-00	1 of 1	G	07 Jan 2019	Explosion Proof Cover
13106-01	1 of 1	H	07 Jan 2019	Explosion Proof Cover
30233	1 of 1	E	07 Jan 2019	Retainer Plug
30233-01	1 of 1	E	07 Jan 2019	Retainer Plug
23304	1 of 1	D	07 Jan 2019	Spool Extension
32861	1 of 1	D	07 Jan 2019	Pipe Plug with Loctite
24113	1 of 1	D	07 Jan 2019	Extension
23405	1 of 1	C	07 Jan 2019	Core Guide
23406	1 of 1	F	07 Jan 2019	Core Guide