



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx CML 24.0050X** Page 1 of 3 [Certificate history](#):
Status: **Current** Issue No: 0
Date of Issue: 2025-04-08
Applicant: **PNEUMAX S.p.A.**
Via Cascina Barbellina, 10
24050 Lurano (BG),
Italy
Equipment: **Type PX000/d/TB Solenoid Assembly**
Optional accessory:
Type of Protection: **Flameproof, Protection by enclosures**
Marking: Ex db IIC T* Gb
Ex tb IIIC T* Db
Ta= -65°C to +*°C
* For temperature class, assigned maximum surface temperature and maximum ambient, refer to Description

Approved for issue on behalf of the IECEx
Certification Body:

Ben Trafford

Position:

Certification Officer

Signature:
(for printed version)

Date:
(for printed version)

2025-04-08

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Eurofins E&E CML Limited
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Ellesmere Port, CH65 4LZ
United Kingdom

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Certificate No.: **IECEx CML 24.0050X**

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Date of issue: 2025-04-08

Issue No: 0

Manufacturer: **PNEUMAX S.p.A.**
Via Cascina Barbellina, 10
24050 Lurano (BG),
Italy

Manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements
other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[GB/CML/ExTR24.0102/00](#)

Quality Assessment Report:

[IT/EUT/QAR24.0005/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

See Annex for full description

SPECIFIC CONDITIONS OF USE: YES as shown below:

See Annex for Specific Conditions.

Annex:

[Certificate Annex IECEx CML 24.0050X Issue 0_1.pdf](#)

Annexe to: **IECEx CML 24.0050X Issue 0**
Apparatus: **Type EP000/d/TB Solenoid Assembly**
Applicant: **PNEUMAX S.p.A**



Description

A Type PX000/d/TB Solenoid Assembly comprises a cast housing with an integral terminal enclosure and a threaded cover; all manufactured from grade ANC1B stainless steel to BS3146. The enclosure contains a coil rated at up to 3.2 W dc or 9.5 VA ac which is retained by a threaded end cap. The cap also positions and retains a centre tube which locates the pole piece and armature. Alternative coils may be fitted for 12 V to 440 V ac 50/60 Hz, or 6 V to 240 V dc supplies.

A two, or three-way terminal block is fitted within the terminal compartment. A bridge rectifier may also be fitted so that the 3 W dc coil can be operated from an appropriate ac or dc supply.

Internal and external earthing facilities are provided.

The temperature classifications, assigned maximum surface temperatures and ambient temperature range for each coil type are listed below:

Supply	Coil Rating (max)	Marking	Cable temperature
dc	3 W	Ex db IIC T6 Gb Ex tb IIIC T85°C Db (T _{amb} = -65°C to +40°C)	-
dc	3 W	Ex db IIC T5 Gb Ex tb IIIC T100°C Db (T _{amb} = -65°C to +55°C)	-
dc	3 W	Ex db IIC T4 Gb Ex tb IIIC T135°C Db (T _{amb} = -65°C to +60°C)	85°C
dc	3 W	Ex db IIC T4 Gb Ex tb IIIC T135°C Db (T _{amb} = -65°C to +80°C)	105°C
ac/dc (rectified)	3 W	Ex db IIC T5 Gb Ex tb IIIC T100°C Db (T _{amb} = -65°C to +55°C)	-
ac/dc (rectified)	3 W	Ex db IIC T6 Gb Ex tb IIIC T85°C Db (T _{amb} = -65°C to +40°C)	-
ac	9.5 VA	Ex db IIC T4 Gb Ex tb IIIC T135°C Db (T _{amb} = -65°C to +40°C)	90°C
ac	9.5 VA	Ex db IIC T3 Gb Ex tb IIIC T200°C Db (T _{amb} = -65°C to +55°C)	105°C



Certificate Annex IECEx
Version: 10.0 Approval: Approved



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Cable entry holes are provided as specified on the approved drawings for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with suitable certified flameproof stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component) under the EC/EU Type Examination Certificate to the ATEX Directive.

When used in dust atmospheres, the flameproof cable entries or stopping plugs shall be selected and installed so that the dust tight (IP66) integrity of the enclosure is maintained.

The equipment may alternatively be supplied with an integral cable and gland.

Conditions of Manufacture

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

- i. Where the product incorporates certified parts or safety critical components, the manufacturer of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.
- ii. The inside of the centre tube assembly shall be subjected to a routine test of 1.5 times the defined-marked maximum working pressure. It shall be shown that the flameproof enclosure cannot become pressurised as a result of leakage of the pressurised medium from the centre tube assembly. The end-user shall be informed of the maximum working pressure of the centre tube assembly.
- iii. If supplied with integral cable and cable gland, the manufacturer shall ensure that the cable meets all the applicable requirements of EN60079-14 and that the cable gland is certified to EN60079-0 and EN60079-1 and provides a minimum degree of protection of IP6X. The cable gland and cable shall be suitable for an operating temperature as defined on Table A of drawing CV5358 sheet 3.

Specific Conditions of Use

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

- i. The dimensions of the flamepaths shall not be modified. In the event that the unit requires repair, it must be returned to the manufacturer.
- ii. The non-metallic paint/coating on the enclosure is considered to be a potential electrostatic charging hazard. The equipment shall be cleaned only with a damp cloth.



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