



EU Type Examination Certificate CML 24ATEX1112X Issue 0

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **Type PX000/d/TB Solenoid Assembly**
- 3 Manufacturer **PNEUMAX S.p.A.**
- 4 Address **Via Cascina Barbellina, 10
24050 Lurano (BG), Italy**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, 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 IEC 60079-0:2018

EN 60079-1:2014

EN 60079-31:2014

- 10 The equipment shall be marked with the following:

II 2 G D

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





CML 24ATEX1112X
Issue 0

11 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

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.



CML 24ATEX1112X
Issue 0

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.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	01 April 2025	R17528A/00	Prime Certificate.

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

13 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.

14 Specific Conditions of Use (Special Conditions)

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.

Certificate Annex

Certificate Number CML 24ATEX1112X
Equipment Type PX000/d/TB Solenoid Assembly
Manufacturer PNEUMAX S.p.A



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

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
SV3042-20	1 of 1	1	01 April 2025	PNEUMAX SOLENOID LABEL
SV3042	1 of 1	1	01 April 2025	Ex db IIC Solenoid