



# 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](http://www.iecex.com)

Certificate No.: **IECEx EUT 25.0010X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2025-11-07

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

Equipment: **\*SS\*\*U32\*\*\*\*\* Universal solenoid valve**

Optional accessory:

Type of Protection: **Flameproof Enclosure "d"; Non electrical equipment "h"; Tight Dust Enclosure "t"**

Marking: Ex db h IIC T6...T3 Gb (-50°C or -30°C ≤ T<sub>AMB</sub> or T<sub>PROC</sub> ≤ see specific condition of use for upper temperature limit)  
Ex h tb IIIC T85°C...T200°C Db (-50°C or -30°C ≤ T<sub>AMB</sub> or T<sub>PROC</sub> ≤ see specific condition of use for upper temperature limit)

Approved for issue on behalf of the IECEx  
Certification Body:

**Dionisio Bucchieri**

Position:

**Head of IECEx Certification Body**

Signature:  
(for printed version)

Date:  
(for printed version)

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**Eurofins Product Testing Italy S.r.l.**  
Via Cuorgnè  
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Italy

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Page 2 of 3

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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

**ISO 80079-36:2016** Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic methods and requirements  
Edition:1.0

**ISO 80079-37:2016** Explosive atmospheres - Part 37: Non-electrical equipment for explosive atmospheres - Non electrical type of protection constructional safety "c", control of ignition source "b", liquid immersion "k"  
Edition:1.0

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:

[IT/EUT/ExTR25.0001/00](#)

Quality Assessment Report:

[IT/EUT/QAR24.0005/01](#)



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Page 3 of 3

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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Universal solenoid electromechanical valve for Process Industry is a 3-way direct acting poppet valve actuated electrically by a separately certified electromagnet coil covered by certificate IECEX CML 24.0050X.

## Coil Electrical ratings:

Coil power: 3 W Voltage: 24 Vdc, 24 Vdc + Diode, 48 Vdc, 110 Vdc

Coil power: 9,5VA Voltage: 24 Vac, 110 Vac, 220 Vac

See annex for details

## SPECIFIC CONDITIONS OF USE: YES as shown below:

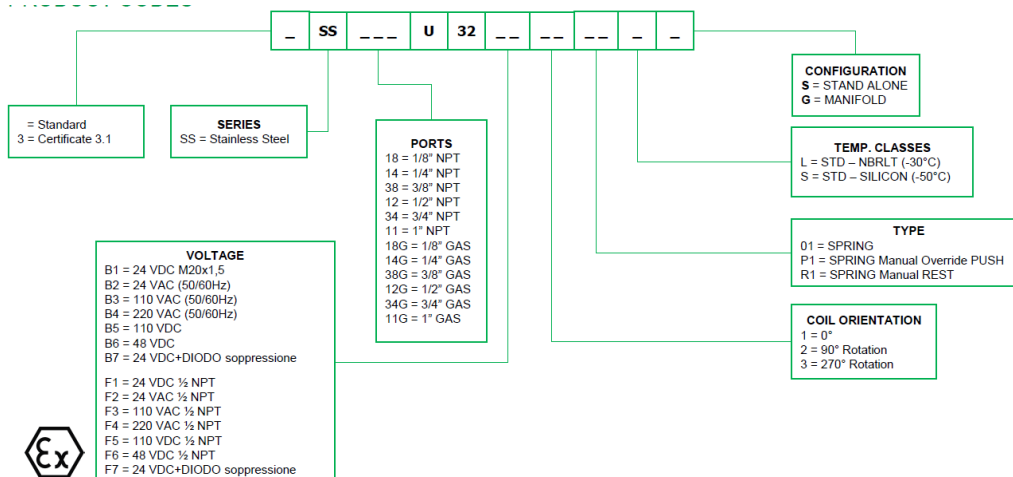
- The dimensions of the flamepaths shall not be modified. In the event that the unit requires repair, it must be returned to the manufacturer.
- The non-metallic paint/coating on the enclosure is considered to be a potential electrostatic charging hazard. The equipment shall be cleaned only with a damp cloth.
- Maximum stem allowed operating frequency is 1 Hz
- The temperature class / max surface temperature of the valve depends on the ambient temperature, fluid process temperature and on the maximum working power as follows:
  - Class T6 / T85°C
    - T<sub>AMB</sub> or T<sub>PROC</sub> up to +40°C and 3W coil rating
  - Class T5 / T100°C
    - T<sub>AMB</sub> or T<sub>PROC</sub> up to +55°C and 3W coil rating
  - Class T4 / T135°C
    - T<sub>AMB</sub> or T<sub>PROC</sub> up to +40°C and 9,5VA coil rating – Cable temperature +90°C
    - T<sub>AMB</sub> or T<sub>PROC</sub> up to +60°C and 3W coil rating – Cable temperature +85°C
    - T<sub>AMB</sub> or T<sub>PROC</sub> up to +80°C and 3W coil rating – Cable temperature +105°C
  - Class T3 / T200°C
    - T<sub>AMB</sub> or T<sub>PROC</sub> up to +55°C and 9,5VA coil rating – Cable temperature +105°C

## Annex:

[EPT.25.REL.02.2413128\\_1.pdf](#)

**Annex to certificate:**
**IECEX EUT 25.0010X Issue N. 0**
**General product information:**

Universal solenoid electromechanical valve for Process Industry is a 3-way direct acting poppet valve actuated electrically by a separately certified electromagnet coil.

**Coding:**


The universal solenoid valve is composed of two main parts: Solenoid coil and Valve.

**SOLENOID COIL – PX000/d/Tb model:**

The Solenoid Coil PX000/d/Tb model is an electrical equipment subjected to separate Ex certification by following certificates:

Certificates	Directive /scheme	Marking	T <sub>amb</sub>	Standards
IECEX CML 24.0050X	IECEX	Ex db IIC T(*) Gb Ex tb IIIC T(*) Db	-65°C ÷ +(*)°C	IEC 60079-0:2017 IEC 60079-1:2014 IEC 60079-31:2013

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

Supply	Coil rating (max)	T <sub>amb</sub>	Temperature classes	Cable temperature
dc	3 W	-65°C ÷ +40°C	T6/T85°C	-
dc	3 W	-65°C ÷ +55°C	T5/T100°C	-
dc	3 W	-65°C ÷ +60°C	T4/T135°C	85°C
dc	3 W	-65°C ÷ +80°C	T4/T135°C	105°C
ac/dc (rectified)	3 W	-65°C ÷ +40°C	T6/T85°C	-
ac/dc (rectified)	3 W	-65°C ÷ +55°C	T5/T100°C	-
ac	9,5 VA	-65°C ÷ +40°C	T4/T135°C	90°C
ac	9,5 VA	-65°C ÷ +55°C	T3/T200°C	105°C

The following coils and characteristics shall be considered for the Universal Solenoid Valve:

Supply	Coil rating (max)	T <sub>amb</sub>	Temperature classes	Cable temperature
dc	3 W	-65°C ÷ +80°C	T4/T135°C	105°C
ac	9,5 VA	-65°C ÷ +55°C	T3/T200°C	105°C

**VALVE:**

The valve is a mechanical assembly, manufactured by PNEUMAX S.p.A.

The valve is a mechanical equipment manufactured in STAINLESS STEEL AISI 316(L) for the external parts and in STAINLESS STEEL AISI 303 for the inner parts so it is suitable to be installed in Zone 1 and Zone 21 (EPL Gb and Db) since they have 7,5 % in total of magnesium, titanium and zirconium as per clause 8.3 and 8.4 of 60079-0 Standard. The seals are manufactured in SILICON