

Dionisio Bucchieri

INTERNATIONAL ELECTROTECHNICAL COMMISSION **IEC Certification System for Explosive Atmospheres**

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

Certificate No.: **IECEx EUT 16.0008X** Page 1 of 4

Issue No: 4 Status: Current

Date of Issue: 2022-12-19

Applicant: TURBO s.r.l.

Via Centro Industriale Europeo, 33

Turate (CO) 22078

Italy

Equipment: Pilot Casing Flameproof Enclosure; Series REP

Optional accessory:

Flameproof "d" and Dust tight "t" Type of Protection:

Marking: Ex db IIB T4 Gb

Ex tb IIIC T135 °C Db

Approved for issue on behalf of the IECEx

Certification Body:

Position: **Head of IECEx CB**

Signature:

(for printed version)

(for printed version)

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Certificate issued by:

Eurofins Product Testing Italy S.r.I. Via Cuorgnè n.21 - 10156 Torino Italy



Product Testing

Certificate history: Issue 3 (2022-02-25)

Issue 2 (2021-07-05) Issue 1 (2019-11-26)

Issue 0 (2016-10-12)



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Date of issue: 2022-12-19 Issue No: 4

Manufacturer: TURBO s.r.l.

Via Centro Industriale Europeo, 33

Turate (CO) 22078

Italy

Manufacturing TURBO s.r.l.

locations: Via Centro Industriale Europeo, 33

Turate (CO) 22078

Italy

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

Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

IEC 60079-1:2014 Edition:7.0

Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

IEC 60079-31:2013 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:

IT/EUT/ExTR16.0007/03

Quality Assessment Report:

DE/TUR/QAR22.0004/00



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

See the equipment description in the annex to certificate.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Flameproof joints are not intended to be repaired.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

The certificate is linked to a new QAR

Annex:

Annex issue 4.pdf





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Annex to certificate: IECEx EUT 16.0008X Issue N. 4

Equipment description

The pilot casing flameproof enclosure series REP are designed to remote control pneumatic diaphragm valves for dedusting plants.

The equipment is suitable for gas group IIB and dust group IIIC and has respectively the type of protection "Ex db" and "Ex tb".

The equipment is composed of:

- The enclosure made in aluminium "EN AB 46100 (not painted)
- O-rings and gasket made in silicone
- Up to 8 solenoid
- Up to 4 cable gland already certified (on request)
- The heater resistance (on request)
- The blanking elements already certified for unused holes (on request)

Electrical and mechanical characteristics:

Rated supply of solenoids: 12÷24 Vdc or 24÷220 Vac

Rated frequency: 50/60 Hz Maximum power of solenoid: 23 W

Rated supply of heating device: 24 Vdc / 24 Vac or 115÷230 Vac

Rated frequency: 50/60 Hz
Degree of protection: IP6x

Ambient temperature. $(-40^{\circ}\text{C} \div +80^{\circ}\text{C}) \text{ or } (-20^{\circ}\text{C} \div +80^{\circ}\text{C})$

Cable entries:

The accessories used for cable entries and for unused holes must be covered by a separate certification according to applicable standards IEC 60079-1 and IEC 60079-31.

Warning label:

- After de-energizing, delay 15 minutes before opening
- Use screw quality A2-70
- Joints cannot be repaired

Routine tests:

None

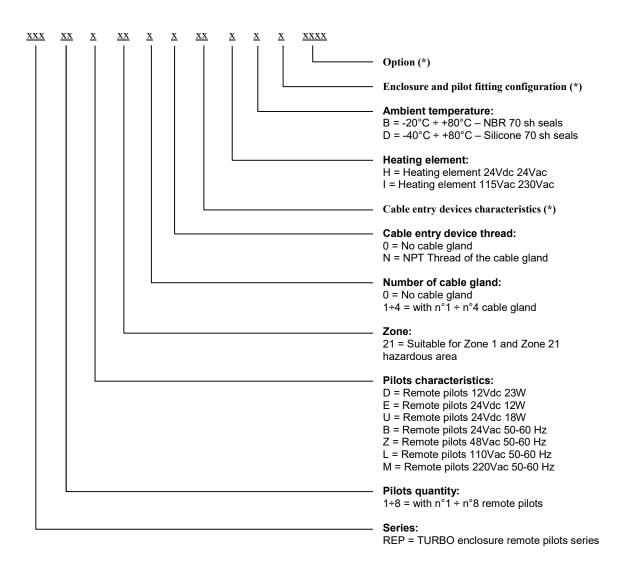




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Type designation:



Note:

The attributes reported with the symbol (*) are not involved in the Ex safety aspects.