



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 EUT 16.0008X**

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Certificate history:

Status: **Current**

Issue No: 4

[Issue 3 \(2022-02-25\)](#)

[Issue 2 \(2021-07-05\)](#)

[Issue 1 \(2019-11-26\)](#)

[Issue 0 \(2016-10-12\)](#)

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:

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

Marking: Ex db IIB T4 Gb
Ex tb IIIC T135 °C Db

Approved for issue on behalf of the IECEx
Certification Body:

Dionisio Bucchieri

Position:

Head of IECEx CB

Signature:
(for printed version)

Date:
(for printed version)

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

 **eurofins** | Product Testing



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Manufacturer: **TURBO s.r.l.**
Via Centro Industriale Europeo, 33
Turate (CO) 22078
Italy

Manufacturing
locations: **TURBO s.r.l.**
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

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:

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](#)

**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°C ÷ +80°C) or (-20°C ÷ +80°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

EPT.22.REL.03/2113003

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Type designation:

XXX	XX	X	XX	X	X	XX	X	X	X	XXXX	
											Option (*)
											Enclosure and pilot fitting configuration (*)
											Ambient temperature: B = -20°C + +80°C – NBR 70 sh seals D = -40°C + +80°C – Silicone 70 sh seals
											Heating element: H = Heating element 24Vdc 24Vac I = Heating element 115Vac 230Vac
											Cable entry devices characteristics (*)
											Cable entry device thread: 0 = No cable gland N = NPT Thread of the cable gland
											Number of cable gland: 0 = No cable gland 1÷4 = with n°1 ÷ n°4 cable gland
											Zone: 21 = Suitable for Zone 1 and Zone 21 hazardous area
											Pilots characteristics: D = Remote pilots 12Vdc 23W E = Remote pilots 24Vdc 12W U = Remote pilots 24Vdc 18W B = Remote pilots 24Vac 50-60 Hz Z = Remote pilots 48Vac 50-60 Hz L = Remote pilots 110Vac 50-60 Hz M = Remote pilots 220Vac 50-60 Hz
											Pilots quantity: 1÷8 = with n°1 ÷ n°8 remote pilots
											Series: REP = TURBO enclosure remote pilots series

Note:

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