

[1]

EU-TYPE EXAMINATION CERTIFICATE



[2]

Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU – Annex III

[3]

Certificate Number: **EUT 14 ATEX 1232 X** issue 1

[4]

Equipment: **Electro-hydraulic actuator controller
HPU**

[5]

Manufacturer: **DVG AUTOMATION S.P.A.**

[6]

Address: **Via Rossetti, n. 2 - 29016 Cortemaggiore (PC)**

[7]

This equipment and its accepted variations are specified in the annex to this Certificate.

[8]

Eurofins Product Testing Italy S.r.l., Notified Body n. 0477 in accordance with Article 21 of the Directive 2014/34/EU of the European Parliament and of the Council of 26th 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 of the Directive. The examination and test results are recorded in the confidential Report N°EPT.18.REL.05/55667

[9]

Compliance with the essential health and safety is assured through the verification of them and by compliance with the standard:

EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-31:2014

[10]

If the sign "X" is placed after the Certificate number, it indicates that the equipment is subject to the special conditions for safe use specified in the annex to this Certificate.

[11]

This EU -TYPE EXAMINATION CERTIFICATE relates only to the design, the exam and the tests of the specified equipment.
Further requirements of the Directive 2014/34/EU apply to the manufacture and supply of this equipment. These requirements are not object of this Certificate.

[12]

The equipment shall include the sign  and the following strings:

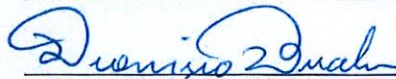
**II 2G Ex db IIB T5 Gb
II 2D Ex tb IIIC T86°C Db**

Ambient temperature ranges are reported in the equipment description.



Place and date of issue:

Torino, 2019-06-20



Dionisio Bucchieri
Directive Responsible



Paolo Trisoglio
Managing Director



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This Certificate has 4 pages and it is reproducible only in its entirety. Conditions of validity are reported below.

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**[15] Equipment description**

The electro-hydraulic actuator controller can command four types of electric motors:

- Three phase motor (standard 400 Vac, other voltages available), the power of the motor is determined by the characteristics of the associated HPU; this type of controller checks the phase sequence, missing phase and motor power consumption.
- Single phase motor (standard 230 Vac, other voltages available), the power of the motor is determined by the characteristics of the associated HPU, this type of controller checks missing phase and motor power consumption.
- Three phase motor controlled by an inverter. This technical solution is adopted when the supply voltage is 24 Vdc.
- Direct current electric motor (standard 24Vdc)

The electro-hydraulic actuator controller can receive and transmit many signal types, by means of internally installed discrete components.

The electro-hydraulic actuator controller can be made of aluminium or stainless steel.

The equipment of group IIB and group IIIC has respectively the type of protection "Ex db" and "Ex tb".

Electrical and mechanical characteristics

Maximum rated voltage: 460 Vac

Maximum rated current: 55 A

Maximum power dissipation: 10 W

Degree of protection: IP68 (1 m 2 hour)

Ambient temperature: -20 + 85 °C (or -45 + 85 °C or -60 + 85 °C)

Warning label

- Do not open while energized
- Do not open in presence of explosive atmosphere
- Potential electrostatic charging hazard - clean with damp cloth or antistatic products
- Flameproof joints can not be repaired
- Use screws quality A4-70

Routine tests

In compliance with EN 60079-1, the manufacturer must perform the individual pressure test on each enclosure with a minimum pressure of:

15 bar for at least 10s in case of range of ambient temperature between -45°C and +85°C;

16.8 bar for at least 10s in case of range of ambient temperature between -60°C and +85°C.

[16] Assessment Report n° EPT.18.REL.05/55667

This EU-Type Examination Certificate is released after the positive result of the conformity assessment of the Council Directive 2014/34/EU and to harmonized technical standards listed in this certificate performed by the Notified Body Eurofins Product Testing Italy S.r.l., and reported in the Assessment Report above cited.



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[17] Special condition for a safe use

- The electro-hydraulic actuator controller model HPU shall be mechanically interfaced with the Intelligence Total Valve Control (I.T.V.C.) manufactured by DVG Automation S.p.A.
- Flameproof joints are not intended to be repaired.
- Potential electrostatic charging hazard - clean with dump cloth or antistatic products.

[18] Essential Health and Safety Requirements

Assured by compliance with harmonized standards.

[19] Descriptive documents

The equipment objects of this Certificate are described by the following documents. Scheduled documents are indicated with the symbol "✓". They cannot be modified without the explicit authorization of the Notified Body.

Type of document	Document identification	Rev.	Date	Scheduled
Procedura per realizzazione dei giunti resinati antideflagranti	PP-00000001	00	2014/06/25	✓
Assieme HPU Scheda	AITVCIN00001	/	2013/10/15	✓
Assieme HPU 24 VDC	AITVCIN00002	1	2013/10/15	✓
Assieme HPU – ITVC	AITVCHP24001	1	2018/10/25	✓
Targhetta generale HPU	DITVCTRG00003	1	2018/07/27	✓
Targhetta non aprire sotto tensione	DITVCTRG00002	1	2012/10/11	✓
Targhetta pulizia HPU	DITVCTRG00004	1	2018/07/27	✓
Coperchio HPU	DITVCCPIN00	4	2014/06/26	✓
Coperchio inverter	DITVCCPIN10	1	2013/10/14	✓
Piastra HPU esterna	DITVCPIN00	3	2014/06/26	✓
Assieme giunto EX M32x1.5	AITVCGEX000	0	2014/04/29	✓
Dischetto passacavi DE23.2	DDISC02300000	/	2013/12/23	✓
Rondella EX ITVC M32x1.5	DITVCGEX010	/	2014/04/17	✓
Guarnizione coperchio interno custodia interruttore + inverter	DITVCGCIN00	2	2013/12/11	✓
Guarnizione coperchio inverter	DITVCCPING0	2	2013/12/11	✓
Passacavo EX ITVC M32x1.5	DITVCGEX000	2	2014/04/17	✓
Tappo selettore	DEDINT03022	1	2014/06/25	✓
Trascinatore selettore	DEDINT04022	1	2014/07/17	✓
Staffa fissaggio selettore	DEDINT05022	/	2014/06/10	✓
ROSETTA DI21 DE26	DROS021A000N1	/	2014/06/13	✓
Switch joint	ST-ITVC-02-09-14	0	2014/06/26	✓
Installation, operation and maintenance manual	IOM-ITVC	07	2019/02/05	✓



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[20] Terms and conditions

The product liability rests with the Manufacturer, his representative or, in the absence of a representative, with the importer, in accordance with the General Product Safety Directive 2001/95/EC.

The following conditions may render this certificate invalid:

- changes in the design or construction of the product;
- changes or amendments to the Directive;
- changes or amendments in the standards which form the basis for documenting compliance with the essential requirements of the 2014/34/EU Directive.

[21] History

Issue	Description	Issue Date
0	- First Emission.	2014-06-30
1	- Standard editions have been updated. - Equipment marking has been updated. - Specific conditions for a safe use have been included.	2019-06-20



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End of Certificate