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iscrizione CCIAA 00793580150

Registro Imprese di Milano
Sezione Ordinaria
N. R.E.A. 429222
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CESI

CERTIFICATE

[1] **EC-TYPE EXAMINATION CERTIFICATE**

[2] **Equipment or Protective System intended for use in potentially explosive atmospheres Directive 94/9/EC**

[3] EC-Type Examination Certificate number:

CESI 02 ATEX 131

[4] Equipment: **Solenoids type 3050 for valves**

[5] Manufacturer: **NADI S.r.l.**

[6] Address: **Via Risorgimento 10**
I-20017 Mazzo di Rho (MI) - ITALY

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] CESI, notified body no. 0722 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. EX-A2/037750.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014: 1997 + A1..A2 EN 50018: 2000 EN 50281-1-1: 1998

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following:

Ex II 2 GD EEx d IIB T6 *or* T5 IP67 T85 °C *or* T100 °C

Date 28 November 2002 - Translation issued the 28 November 2002

Prepared	Verified	Approved
Francesco A. Esposito	Mirko Balaž	Ulisse Colombo

CESI
CENTRO ELETTROTECNICO SPERIMENTALE ITALIANO
Business Unit Certificazione
Il Responsabile

CESI ATEX
Schema di certificazione

[13] **Schedule**

[14] EC-TYPE EXAMINATION CERTIFICATE no. CESI 02 ATEX 131

[15] **Description of equipment**

The solenoids type 3050 for valves are made in light metals, with degree of protection IP 67.

The solenoids type 3050 for valves are not suitable to intercept inflammable gas.

The accessories used for cable entries shall be certified in accordance with EN 50014, EN 50018 and EN 50281-1-1 Standards, shall guarantee a degree of protection IP 67 at least and shall be suitable for the operating temperature of the solenoids.

Electrical characteristics

- Rated voltage:	12, 24, 48, 110, 220 [$V_{d.c.}$]
	12, 24, 48, 110, 220 [$V_{a.c.}$]
- Rated frequency:	50 *or* 60 Hz
- Duty:	continuos
- Maximum dissipable power:	11 W *or* 11 VA
- Degree of protection:	IP 67
- Ambient temperature:	-20 ÷ +40 °C for temperature class T6 (2G) and T85°C (2D)
	-20 ÷ +55 °C for temperature class T5 (2G) and T100°C (2D)

Warning label

Use cables suitable for operating temperature ≥80 °C.

[16] **Report no.** EX-A2/037750

Routine tests

The Manufacturer must carry out the routine tests specified in paragraph 24 of EN 50014 Standard and at paragraph 16 of EN 50018 Standard.

The routine overpressure test shall be carried out, on the brazing joint of the core, at 8,5 [bar] with the static method (par. 15.1.3.1 of EN 50018 Standard).

Prot. A2/037775 P: 3
Keywords 13010R 21635I 48010M 54250O 66540E

[13] Schedule

[14] EC-TYPE EXAMINATION CERTIFICATE no. CESI 02 ATEX 131

The manufacturer is exempted from the routine overpressure test on the solenoid valve, since the apparatus have passed the type overpressure test carried out with the static method at 22,5 [bar], that is at 4 times the reference pressure.

Descriptive documents (prot. EX-A2/037772)

- no. "valutazione dei rischi"	rev. 0	pag. 1	dated 20.11.2002
- no. 3065	rev. 3	pag. 1	dated 07.01.2002
- no. 3050A	rev. 0	pag. 1	dated 07.01.2002
- no. 3057	rev. 3	pag. 1	dated 07.01.2002
- no. 3050	rev. 4	pag. 1	dated 22.11.2002
- no. instruction	rev. 0	pag. 1	dated 22.11.2002
- no. declaration of conformity	rev. 0	pag. 1	dated 22.11.2002

One copy of all documents is kept in CESI files.

[17] **Special conditions for safe use**

None.

[18] **Essential Health and Safety Requirements**

Assured by compliance with Standards.