



This certificate is issued for the electrical apparatus :

Solenoid valves type 3050 and 3051.

manufactured by : **NADI S.r.l. - Baranzate di Bollate (Milan) -**

and submitted for certification by : **NADI S.r.l. - Baranzate di Bollate (Milan) -**

This electrical apparatus and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

CESI, being an approved certification body in accordance with Article 14 of the Council Directive of the European Communities of 18 December 1975 (76/117/EEC), certifies that the apparatus complies with harmonized European Standards for electrical apparatus for potentially explosive atmospheres

EN 50.014 - 1977 + A1..A4 (CEI 31.8) - General requirements

EN 50.018 - 1977 + A1..A2 (CEI 31.1) - Flameproof enclosures "d"

as it has successfully met the verification and test requirements prescribed by these Standards. A confidential test report has been issued resuming the obtained results.

The apparatus shall be marked with the following code

EEEx d IIB T3

The supplier of the electrical apparatus referred to in this certificate, by marking the supplied product, has the responsibility to ensure that the apparatus conforms to the specification laid down in the schedule to this certificate and has satisfied the routine verifications and tests specified therein.

This apparatus may be marked with the distinctive Community mark specified in Annex II to the Commission Directive 84/47/EEC of 16.1.1984 and here printed.

Milan, May 31, 1989
Translation issued
on September 10, 1990

test engineer

P. D'Amico

AD-IPC01 CIC : 080150000 CC : 08897V P : 3+5 AD : 5850
KEYWORDS : 13010R 27401D 48010M 53001D 66540E

CENTRO ELETTROTECNICO SPERIMENTALE ITALIANO

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IDENTIFICATION OF THE ELECTRICAL APPARATUS

Solenoid valves type 3050 and 3051.

ELECTRICAL CHARACTERISTICS

| | | | |
|-------------------|---|---------------|---------------|
| - Rated voltage | : | 12 ± 110 Vd.c | 24 ± 220 Va.c |
| - Rated power | : | 11 W | 11 VA |
| - Rated frequency | : | - | 50 Hz |

SPECIAL CONDITIONS FOR SAFE USE (X)

None.

ADDITIONAL CONDITION

The accessories used for the cable entries must be certified according to EN 50.014 and EN 50.018 Standards.

ROUTINE TESTS

The manufacturer must carry out the routine tests prescribed at par. 23 of EN 50.014 Standard and par. 15 of EN 50.018 Standard; the overpressure test must be carried out, on the brased joint of the core, at 8,5 bar with the static method (par. 14.1.3.1 of EN 50.018 Standards).

The overpressure test (static method) was carried out on the solenoid valve at 25,5 bar corresponding to four times the reference pressure.

VERIFICATION OF THE DEGREE OF PROTECTION

The solenoid valves type 3050 and 3051, completed of the gasket indicated on the documents annexed to this Certificate, have been tested in accordance with the requirements of IEC 144 (1963) Standard for the degree of protection IP 65.

The tests result prove that the solenoid valves above mentioned comply with the specification of IEC 144 Standard for the degree of protection IP 65.

Code : EEx d IIB T3

AD-ISC01

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DESCRIPTIVE DOCUMENTS

| | | | | |
|-----------|-----|------|-------|--------------|
| - Drawing | Nº | 3050 | dated | May 24, 1989 |
| - Drawing | Nº | 3051 | dated | May 24, 1989 |
| - Drawing | Nº | 3057 | dated | May 24, 1989 |
| - Drawing | Nº | 3065 | dated | May 24, 1989 |
| - Annex | "E" | | dated | May 24, 1989 |

One copy of the above mentioned documents is kept in the CESI file.



extension no. 02/94

The certificate issued on May 31, 1989
to **NADI S.r.l. - Baranzate di Bollate (Milano)**
for **Solenoid valves type 3050 and type 3051**

is extended to the above mentioned electrical apparatus, in accordance with
the documents annexed, having the following variations.

Admitted variations: Modification of electrical characteristics

IDENTIFICATION OF THE ELECTRICAL APPARATUS

Solenoid valves type 3050 and type 3051 .

Explosion protection: EEx d IIB T5

ELECTRICAL CHARACTERISTICS

-Maximum ambient temperature : + 55 °C

The other electrical characteristics are unmodified.

Warning label: (par. 15.6 of EN 50.014 Standard)

- Use cables suitable for operating temperature ≥ 80 °C.

DESCRIPTIVE DOCUMENTS (prot. EX-94/024885)

- Drawing no. 3058 dated 21.06.1994

One copy of all documents is kept in CESI files.

This extension and annexed descriptive documents must be annexed to the certificate of conformity CESI AD-89.B.047.

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date August 25, 1994 - translation issued on August 26, 1994

prepared CER - E. Bruno - M. Balaz

approved CER - P. Ostano

CESI
CENTRO ELETTROTECNICO SPERIMENTALE ITALIANO
Divisione Certificazione

Prot. 94/024946 P: 1 + 1 EX-94/024883

keywords: 13010R 27401D 48010M 54250O 66540E