



EUROFINS – MODULO UNO S.P.A. - VIA CUORGNÈ, 21 – 10156 TORINO - ITALY ORGANISMO NOTIFICATO N. 2049

EC TYPE EXAMINATION CERTIFICATE

- [2] Equipment or protective systems or components intended for use in potentially explosive atmospheres Directive 94/9/EC
- [3] Number of EC Type examination certificate:

EUM1 12 ATEX 0783

- [4] Equipment: SOLENOID VALVES, ELECTROMAGNETIC DEVICES AND VALVES

 Series: L, C, D, E, F, G, VL, VC, VD, VE, VF, VG, H (version IIB (-20 ≤ T_{amb} ≤ +40) or (-20 ≤ T_{amb} ≤ +60))
- [5] Manufacturer:

NADI S.r.I.

[6] Address:

[1]

- Via Risorgimento, 10 20017 Mazzo di Rho (MI)
- [7] This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documents reported in it.
- [8] EUROFINS-MODULO UNO S.p.A., notified body n. 2049 in accordance with Article 9 of the Council Directive 94/9/CE of 23th March 1994, certifies that this equipment have 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. M1.12.REL.01/48647.
- [9] Compliance with the essential health and safety is assured by compliance with:

EN 60079-0:2009; EN 60079-1:2007; EN 60079-31:2009; EN 13463-1:2009; EN 13463-5:2011.

- [10] The sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.
- [11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, the exam and the tests of the equipment specified, in accordance with the Directive 94/9/CE. Further requirements of this Directive apply to the manufacture and supply of this equipment. These requirements are not object of this certificate.
- [12] The equipment shall include the sign II 1/2 GD c Ex d IIB Tx Gb Ex t IIIC IP67 T x °C Db -20°C ≤ T_{amb} ≤ +xx°C

Turin, 07 September 2012

CE

Dionisio Bucchieri Directive Responsible

Paolo Dentiš Notified Body Manager



PRD N° 1198
ISP N° 030E
Membro degli Accordi di Mutua Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

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





EUROFINS – MODULO UNO S.P.A. - VIA CUORGNÉ, 21 – 10156 TORINO - ITALY ORGANISMO NOTIFICATO N., 2049

[13]

ANNEX

[14] EC TYPE EXAMINATION CERTIFCATE N. EUM1 12 ATEX 0783

[15] Equipment description

The solenoid valves and the electromagnetic devices covered by this EC-type examination Certificate are divided into the following series, identifiable through the first alphabetical letters of the product code: Solenoid valves: L, C, D, E, F, G, VL, VC, VD, VE, VF, VG

Electromagnetic devices series: H

They can be used with gas and liquid. They are suitable to be installed in potentially explosive atmospheres for the presence of gas and/or combustible dust.

With reference to the above mentioned series the solenoid valves, electromagnetic devices and air operated valves are subdivided as follows:

- L, VL: 2 way solenoid valve;
- C, VC: 3 way solenoid valve:
- D, VD: 5 way solenoid valve;
- E, VE: manual reset 2 way solenoid valve;
- F, VF: manual reset 3 way solenoid valve:
- G, VG: manual reset 5 way solenoid valve;
- H: electromagnetic pilot;

The class temperature, in reference to use in potentially explosive atmospheres for the presence of gas and/or combustible dust, depends from the ambient temperature and from the nominal power of the solenoid valve coil according to the following table:

T _{amb}	Thermal power dissipated [W]	
[°C]	P _{diss} ≤ 11	P _{diss} ≤ 26
(-20 ÷ +40)	T6 e T85°C	T5 e T100°C
(-20 + +60)	T5 e T100°C	T4 e T135°C

Warning label

After de-energizing delay 15 min before opening.

[16] Assessment report n° M1.12.REL.01/48647

This EC Type certificate is released after the positive result of the conformity assessment of the Council Directive 94/9/CE and to harmonized technical standards applicable; performed by the notified body EUROFINS-MODULO UNO S.p.A., and reported in the assessment report above cited.

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Notified Body Manager

Paolo Dentis

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Rev. 0 of 07 September 2012

ISP Nº 030E

Membre degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

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[13] [14]

ANNEX

EC TYPE EXAMINATION CERTIFCATE N. EUM1 12 ATEX 0783

[16]

Description	Name	Date	Rev.	
Analysis of electrical hazards	Valutazione rischi parte elettrica	XXX		
Analysis of non -electrical hazards	Valutazione rischi parte non elettrica	XXX		
Test report: test to withstand pressure - determination of reference pressure	M1.07.EXET.573/29999-0	04/12/2007		
Test report: Overpressure test - first method static	M1.07.EXET.574/29999-0	04/12/2007		
Use and maintenance instructions	3860-R1	XXX		
EC Type examination certificate (KEMA) and thermal tests	KEMA 04ATEX2159	13/07/2004		
EC Type examination certificate (CESI) and tests	CESI 02 ATEX 130	28/11/2002		

Drawings/Documents listed in annex to the technical documentation		
Enclosure drawing	3870	21/05/2007
Table of joints tolerances	3870A	
Internal ground socket detail	3870B	09/01/2003
Nameplate	3880	15/05/2012



ISP Nº D3DE Membro degli Accordi di Mutua Riconoscimento EA, EAF e ILAC Signatory of EA, IAH and ILAC Mutual Recognition Accesses Paolo Dentis

Poolo Jenti, Notified Body Manager

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EUROFINS - MODULO UNO S.P.A. - VIA CUCRGNÉ, 21 - 10156 TORING - ITALY ORGANISMO NOTIFICATO N., 2049

[13]

ANNEX

[14] EC TYPE EXAMINATION CERTIFCATE N. EUM1 12 ATEX 0783

[17] Individual test

None

Special condition for a safe use

None

[18] Essential Health and Safety Requirements

Requirement 1.5 is not applicable because there are not ATEX protective system installed on the equipment covered by this EC type examination certificate.

[19] Certificate History

This Certificate is at its first issue.

[20] Terms and conditions

This certificate do not replace anyway the declaration of conformity nor exonerate the manufacturer from product liability. The technical documentation do not refers to others directives applicable to the equipment.

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 94/9/EC directive.
- This document is the English translation (made by the notified body) of the original document drawn in Italian; only the Italian text is legally valid.

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PRD N° 119B ISP N° 030E Membro degli Accordi di Munio Roccooscimento EA, DAF e TLAC Signatory of EA, DAF and TLAC Munial Recognition Agracments Paolo Dentis

Notified Body Manager

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Product Testing

Eurofins Product Testing Italy S.r.I. - Via Cuorgnè, 21 - 10156 Turin - ITALY Notified Body n. 0477

11 SUPPLEMENT N.1 EC TYPE EXAMINATION CERTIFICATE

[2]	Equipment or protective systems or components intended for use in potentially explosive
	atmospheres Directive 94/9/EC

[3] Number of EC Type Examination Certificate:

EUM1 12 ATEX 0783

[4] Equipment:

Solenoid valves, electromagnetic devices and valves

Series:

L, C, D, E, F, G, VL, VC, VD, VE, VF, VG, H

(version IIB $(-20 \le Tamb \le +xx)$)

[5] Manufacturer:

NADI S.r.I.

[6] Address:

Via Risorgimento, 10 - 20017 Mazzo di Rho (MI)

[7] No changes

[8] Eurofins Product Testing Italy S.r.I., Notified Body n. 0477 in accordance with Article 9 of the Council Directive 94/9/CE of 23th March 1994, certifies that this equipment have 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.15.REL.01/53451

[9] Compliance with the essential health and safety is assured by compliance with:

EN 60079-0:2012; EN 60079-1:2007; EN 60079-1:2014; EN 60079-31:2014; EN 13463-1:2009; EN 13463-5:2011.

[10] No changes

[11] No changes

[12] The equipment must include the symbol (Ex) and at least one of the following strings:

If 1G/2GD c Ex d IIB Tx Gb Ex t IIIC T x °C Db -20°C ≤ Tamb ≤ +xx°C

Turin, 6 June 2015

CE

Dionisio Bucchieri Directive Responsible

Pagle Trisoglio Managing Director



Product Testing



Eurofins Product Testing Italy S.r.l. - Via Cuorgnè, 21 - 10156 Turin - ITALY Notified Body n. 0477

ANNEX

[14] SUPPLEMENT N.1 EC TYPE EXAMINATION CERTIFICATE N. EUM1 12 ATEX 0783

[15] Equipment description

This point [15] replace the point [15] of the EC Type certificate n. EUM1 12 ATEX 0783 of 07-09-2012.

The solenoid valves and the electromagnetic devices covered by this EC-type examination Certificate are divided into the following series, identifiable through the first alphabetical letters of the product code: Solenoid valves: L, C, D, E, F, G, VL, VC, VD, VE, VF, VG

Electromagnetic devices series: H

They can be used with gas and liquid. They are suitable to be installed in potentially explosive atmospheres for the presence of gas and/or combustible dust. The equipment is suitable for groups IIC and group IIIC. It has respectively the type of protection "Ex d" and "Ex t".

With reference to the above mentioned series the solenoid valves, electromagnetic devices and air operated valves are subdivided as follows:

- L, VL: 2 way solenoid valve;
- C, VC: 3 way solenoid valve;
- D, VD: 5 way solenoid valve;
- E, VE: manual reset 2 way solenoid valve;
- F, VF: manual reset 3 way solenoid valve;
- G, VG: manual reset 5 way solenoid valve;
- H: electromagnetic pilot;

The enclosure is made made of light alloy (the paint used has a maximum thickness of 200 µm) and silicone gaskets.

Electrical characteristics

Maximum voltage:

400 Vdc or 400Vac

Rated frequency:

50 or 60 Hz Maximum power dissipation: 11W or 26W

The class temperature, in reference to use in potentially explosive atmospheres for the presence of gas and/or combustible dust, depends from the ambient temperature and from the nominal power of the solenoid valve coil according to the following table:

T _{amb}	Thermal power dissipated [W]	
[°C]	P _{diss} ≤ 11	P _{diss} ≤ 26
(-20 ÷ +40)	T6 e T65°C	T5 e T87°C
(-20 ÷ +60)	T5 e T85°C	T4 e T107°C

Warning label

After de-energizing delay 15 min before opening.

Joints cannot be repaired

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Dionisio Bucchieri Bucher. Directive Responsible

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Product Testing



Eurofins Product Testing Italy S.r.I. - Via Cuorgnè, 21 – 10156 Turin - ITALY Notified Body n. 0477

[13] ANNEX [14] SUPPLEMENT N.1 EC TYPE EXAMINATION CERTIFICATE N. EUM1 12 ATEX 0783

[16] Assessment Report nº EPT.15.REL.01/53451

This point [16] replaces the point [16] of the EC Type examination certificate n. EUM1 12 ATEX 0783 of 07-09-2012.

This EC Type Examination Certificate is released after the positive result of the conformity assessment of the Council Directive 94/9/CE, and to harmonized technical standards EN 60079-0:2012; EN 60079-1:2007; EN 60079-1:2014; EN 60079-31:2014; EN 13463-1:2009; EN 13463-5:2011 performed by the Notified Body Eurofins Product Testing Italy S.r.l., and reported in the Assessment Report above cited.

Descriptive documents

The equipment object of this certificate are described by the following documents. Scheduled documents are indicated with the symbol "v" and can not be modified without the explicit authorization of the notified body:

Document	Name	Rev.	Date	Scheduled
Marking label	3880	2	04/05/2015	Y
Drawing	3870	0	21/05/2007	٧
Drawing	3870A	0	21/05/2007	Y
Drawing	3870B	0	09/01/2003	Y
Safety instructions	3860	3	04/05/2015	1=
Datasheet of O-ring	Schede elastomeri	0	03/2015	-

[17] Individual tests

No changes

[18] Essential health and safety requirements

No changes

[19] Supplement History

This Supplement is at its first issue.

It intervenes as a result of: change of o-rings material and standard update. The evaluation is contained in the Assessment report n. EPT.15.REL.01/53451,

[20] Terms and conditions

No changes



PRD N° 119B LAB N° 0085
ISP N° 030E LAT N° 062
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End of Supplement