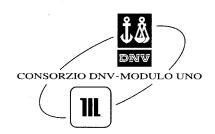


[1]	EC-TYP	E EXAMINAT	ON CERTIFICATE			
[2]	Equipment or P	equipment or Protective System intended for use in potentially explosive atmospheres Directive 94/9/EC				
[3]	EC-Type Examination Certific	cate Number:				
		DNV-MUNO	)8 ATEX 3662			
	This is a cop	y in English language of the ori	ginal Certificate written in Italian Language			
[4]	Equipment: SOLENOID V	ALVES AND ELECTI	ROMAGNETIC EQUIPMENT NADI			
[5]	Manufacturer:	NADI S.r.l.				
[6]	Address:	Via Risorgii	Via Risorgimento,10 - 20017 Mazzo di Rho - MI			
[7]	This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the					
[8]	documents therein referred to.  DNV-MODULO UNO S.c.a r.l. notified body number 0496 in accordance with Article 9 of the Council Directive 94/9/CE of 23 March 1994, certifies that these 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 to the Directive.					
	The examination and test result	lts are recorded in confidentia	ıl report n. CDM.08.REL.01/AX.07_034			
[9]	Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  EN 60079-0:2006; EN 60079-1:2004; CEI EN 61241-0:2007; CEI EN 61241-1:2006; EN 1127-1: 2007;  EN 13463-1:2001; EN 13463-5:2003					
[10]	If 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 schedule to this certificate.					
[11]	This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment.  Further requirements of this Directive apply to the manufacture and supply of this equipment.					
[12]	The marking of the equipment (Ex) II 1/2 GE		$TX{-}^{\circ}C \le T_{amb} \le + _{-}^{\circ}C$ $T X^{\circ}C$			
	Agrate Brianza, 23 June 20					
	On behalf of the Notified Be	CE	Dionisio Bucchieri			
	Giuseppe Elia  The Technical Coordinator	0496	Directive responsible			

 ${\it This Certificate may only be reproduced in its entirety and without any change, schedule included.}$ 

Page 1 of 5



[13]

## **ANNEX**

[14]

## EC-TYPE EXAMINATION CERTIFICATE N° DNV-MUNO 08 ATEX 3662

This is a copy in English language of the original Certificate written in Italian Language

### [15] Description of Equipment

The solenoid valves and electromagnetic equipment coverei by this EC-type Examination Certificate are seven models:

Series L, C, D, E, F, G, H

They can used with flow gases or liquids and can be installed in a gas or dust potentially explosive atmosphere.

The temperature class and maximum surface temperature are dependent upon the ambient temperature and the power rating in accordance with following table:

	Rated power		
Ambient temperature range	[W]		
[ ]	P <sub>nom</sub> ≤ 11	P <sub>nom</sub> ≤ 26	
(-20 ÷ +40)	T6 and T85°C	T5 and T100°C	
(-20 ÷ +60)	T5 and T100°C	T4 and T135°C	

Table 1

$\mathbf{E}\mathbf{I}$	ectri	cal	Dя	ta
114	CLLLI	Lai	υa	ιa

Rated Voltage.....max. 400V, 50/60Hz

#### Marking notes

Ambient temperature range: T<sub>amb</sub> between -60°C and +60°C.

Maximum surface temperature:

gases: temperature class T6 or T5 or T4 (tab. 1);

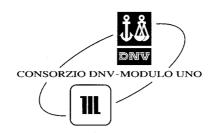
flammable dust: T85°C or T100°C or T135°C (tab. 1).

Giuseppe Elia

The Technical Coordinator

Pagina 2 di 5

Rev. 0 - 23 June 2008



[13] [14]

### **ANNEX**

EC-TYPE EXAMINATION CERTIFICATE N° DNV-MUNO 08 ATEX 3662

This is a copy in English language of the original Certificate written in Italian Language

## [16] Report n° CDM.08.REL.01/AX.07\_034 rev. 0

EC-type examination certificate emitted in consequence of the positive evaluation of the conformity assessment to the 94/9/CE Directive and harmonised standards EN 60079-0:2006; EN 60079-1:2004; EN 1127-1:2007; EN 13463-1:2001; EN 13463-5:2003 and standard reference CEI EN 61241-0:2007; CEI EN 61241-1:2006, performed by DNV-MODULO UNO S.c.a r.l. notified body, and reported onto the previous report.

### Routine verifications and tests

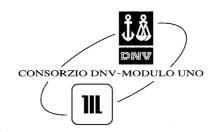
No routine verifications and tests have to be performed in accordance with standards listed above.

Giuseppe Elia

The Technical Coordinator

Pagina 3 di 5

Rev. 0 - 23 June 2008



[13]

# **ANNEX**

[14]

# EC-TYPE EXAMINATION CERTIFICATE N° DNV-MUNO 08 ATEX 3662

This is a copy in English language of the original Certificate written in Italian Language

**Technical documentation** 

Document	Name	Date, revision or reference	Scheduled drawing					
Analisi dei rischi di natura	XXX	XXX						
elettrica.								
Analisi dei rischi di natura	XXX	XXX						
non elettrica.								
Rapporto di prova: Prova di	M1.07.EXET.573/29999-0	04/12/2007						
tenuta alla pressione -								
determinazione della								
pressione di riferimento.		0.1/10/0007						
Rapporto di prova: Test di	M1.07.EXET.574/29999-0	04/12/2007						
sovrapressione - primo								
metodo statico.	20/0 D0	VVV	ļ					
Istruzioni uso e manutenzione	3860-R0	XXX	<u> </u>					
Attestato di Esame CE del	KEMA 04ATEX2159	13/07/2004						
Tipo (KEMA) e prove di								
temperatura.  Attestato di Esame CE del	CESI 02 ATEX 130	28/11/2002	-					
Tipo (CESI) e relative prove.	CESI 02 ATEX 130	28/11/2002						
Tipo (CESI) e felative prove.								
Drawings related to technical documentation								
Disegno custodia.	3870	Rev. 0 del 21/05/2007	X					
Tabella tolleranze giunti.	3870A	Rev. 0	X					
Dettaglio presa di terra	3870B	Rev. 0 del 09/01/2003						
interna.								
Targhetta identificativa	3880	Rev. 0 del 01/07/2007	X					

Giuseppe Elia

The Technical Coordinator

Pagina 4 di 5

Rev. 0 – 23 June 2008



[13]

#### **ANNEX**

[14]

## EC-TYPE EXAMINATION CERTIFICATE N° DNV-MUNO 08 ATEX 3662

This is a copy in English language of the original Certificate written in Italian Language

Following type tests have been performed:

- Determination of explosion pressure reference pressure (EN 60079-1 § 15.1);
- Overpressure test (EN 60079-1 § 15.1.3.1).

Type tests results are reported in the following test reports:

- n° M1.08.EXET.573/29999-0;
- n° M1.08.EXET.574/29999-0.

## [17] Special conditions for safe use

Nothing.

### [18] Essential Health and Safety Requirements

Requirement 1.2.7: satisfied by means of the conformity to the 2006/95/CE Low Voltage requirements;

Requirement 1.5: not applied because are not present protective system ATEX.

### [19] Certificate history

This Certificate is at its first issue.

### [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 94/9/EC directive.

Giuseppe Elia

The Technical Coordinator

Pagina 5 di 5

Rev. 0 – 23 June 2008