INERIS
INSTITUT NATIONAL DE L'ENVIRONNEMENT INDUSTRIEL ET DES RISQUES

Parc Technologique ALATA
B.P. N° 2 - 60550 Verneuil-en-Halatte - France
Tél. : (33) 44 55 66 77 - Fax : (33) 44 55 67 04
Télex : 140 094 F

(2) **Equipments and protection systems intended for use in potentially explosive atmospheres Directive 94/9/EC**

(1) EC-TYPE EXAMINATION CERTIFICATE

(3) Number of the EC type examination certificate: **INERIS 00ATEX0031 X**

(4) Protection apparatus or system:

ELECTROVALVE TYPE 01.....H01....

(5) Manufacturer: Fluid Automation Systems

(6) Address: Route de l'Etraz 126
CH-1290
Versoix / Genève
Suisse

(7) This protection system or equipment and any other acceptable alternative of this one are described in the annex of this certificate and the descriptive documents quoted in this annex.

(8) The INERIS, notified body and identified under number 0080, in accordance with article 9 of Council Directive 94/9/EC 23 the Mars 1994, certifies that this protection system or equipment fulfills the Essential of Health and Safety Requirements relating to the design and construction of equipments and protection systems intended for use in potentially explosive atmospheres, described in appendix II of the Directive.

The examinations and the tests are consigned in official report N15756/00.

(9) The respect of the Essential Health and Safety Requirements is ensured by:

- conformity with:

EN 50 014	December	1997
EN 50 020	August	1994
EN 50 281-1-1	September	1998
EN 50 284	January	1999

- specific solutions adopted by the manufacturer to meet the Essential Health and Safety Requirements described in the descriptive documents.

(10) Sign X, when it is placed following the Number of the EC type examination certificate, indicates that this equipment and protection system is subjected to the special conditions for safe use, mentioned in the annex of this certificate.

This document must not be reproduced other than in its entirety

(11) This EC type examination certificate refers only to the design and the construction of the apparatus or protection system specified. If necessary, other requirements of this Directive will be imposed on the manufacture and the supply of this apparatus or protection system.

(12) The marking of the equipment or the protection system will have to contain:

Ex II 1 GD IP65 **EEx ia IIC T6, T5 ou T4**

Verneuil-en-Halatte, 2000 11 27

T. HOUEIX

Engineer at the Laboratory for Certification of ATEX equipment

The Director of the Organization Certifier,
By delegation
B. PIQUETTE
Deputy manager of Certification

INERIS FRANCE

(13) # ANNEX

(14) **EC TYPE EXAMINATION CERTIFICATE N** INERIS 00ATEX0031 X

(15) **DESCRIPTION OF THE EQUIPMENT OR THE PROTECTION SYSTEM**

The electro-valve solenoid typ 01.....H01... is used for ordering the pneumatic or hydraulic apparatus.

It is made of a coil, provided with an electric device of protection.

The unit is coated in an insulating material enclosure.

The electro-valve solenoid typ 01.....H01... has a degree of protection IP65.

The connections with the external electric circuits are carried out by a cable or a connector.

Parameters relating to the safety

Maximum input parameters to the terminals.

Repere of terminal	Ui (V)	Ii (A)	Ri (Ω)	Ci (µF)	Li (mH)
+ / -	16	0,84	2885	0	0

MARKING

Marking must be readable and indelible ; it must comprise the following indications:

Fluid Automation Systems
Route de l'Etraz 126
CH-1290
Versoix / Genève
Suisse

*01.....H01....**

Ex II 1 GD IP65

EEx ia IIC T6,T5 ou T4**

(serial number)

INERIS 00ATEX0031 X

Tamb : - 20°C à + ..°C**

Ue = 16 V ; Ie = 0,84 A

*Points are replaced by a letter or a number defining the mechanical variant of the equipment.

** Temperature class is defined with the maximum ambient temperature range of use according the following table :

Maximum Ambient température range of use	Température class
Tamb : - 20°C à + 75°C	T6
Tamb : - 20°C à + 90°C	T5
Tamb : - 20°C à + 120°C	T4

The whole of marking can be carried out in the language of the country of use.

The protection apparatus or system must also carry the marking normally envisaged by the standards of construction which relate to it.

ROUTINE EXAMINATIONS AND TESTS

None.

This document must not be reproduced other than in its entirety, included annexes

(16) DESCRIPTIVE DOCUMENTS

The technical report is composed of the documents quoted hereafter, constituting the descriptive file of the apparatus, object of this attestation.

- Instruction notice (5 pages) dated on 15.11.2000
- Descriptive Drawing N° H010.1008 rev.c dated on 08.11.2000

All this documents are signed on the 15th november 2000

(17) SPECIAL CONDITIONS FOR SAFE USE

The output characteristics of the power supply must be equal or lower than the input characteristics defined in the paragraph (15).

The special conditions of use are defined in the instruction notice of the equipment.

(18) ESSENTIAL REQUIREMENTS OF SAFETY AND HEALTH

The respect of the Essential Health and Safety Requirements is ensured by:

- conformity to the European standards EN 50 014, EN 50 020, EN 50 0281-1-1 et EN 50 0284.
- the whole of the provisions adopted by the manufacturer and described in the descriptive documents.