**INERIS**INSTITUT NATIONAL DE L'ENVIRONNEMENT
INDUSTRIEL ET DES RISQUESParc Technologique ALATA
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- (2) **Equipment 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 02ATEX0007 X**

- (4) Protection apparatus or system:

ELECTROVALVE TYPE 01-311P-00-H0-F01002 or 01-311P-00-H0-F01003

- (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 appendix of this certificate and the descriptive documents quoted in this appendix.

- (8) The INERIS, notified body and identified under number 0080, in accordance with article 9 of Council Directive 94/9/EC of the 23rd March 1994, certifies that this protection system or equipment fulfils the Essential of Health and Safety Requirements relating to the design and construction of equipment 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 No P39083/02.


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

- conformity with:

EN 50 014	of June	1997 + Amendments 1 and 2
EN 50 020	of August	1994
EN 50 0281-1-1	of September	1998
EN 50 284	of 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.
- (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 the protection system will have to contain:

 II 1 GD

EEx ia IIC T6 or T4

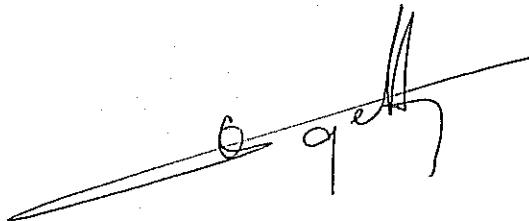
IP65 T85°C or T135°C

Verneuil-en-Halatte, the 2002 01 20



T. HOUeix

Engineer at the Laboratory of Certification
of Materials ATEX



Director of the Certifying Body,
By delegation

B. PIQUETTE
Deputy manager of Certification



(13)

ANNEX

(14)

EC TYPE EXAMINATION CERTIFICATE N° INERIS 02ATEX0007 X**(15) DESCRIPTION OF THE EQUIPMENT OR THE PROTECTION SYSTEM**

The electrical solenoid type 01-311P-00-H0-F01002 or 01-311P-00-H0-F01003 is intended to the using of pneumatic and hydraulic apparatus.

It composed of a coil, with an electrical protection device.

The unit is coated in an insulating material enclosure.

Standard electro-valve 01-311P-00-H0-F01002 or 01-311P-00-H0-F01003 has a degree of protection IP65.

The connections with the external electric circuits are carried out by means of a connector.

PARAMETERS RELATING TO THE SAFETY

Maximum input characteristics to the terminals :

Electrovalve type 01-311P-00-H0-F01002 or F01003 12V

Reference of the terminals	Ui (V)	Ii (A)	Ri (Ω)	Ci (μ F)	Li (mH)
+ / -	16	0,33	280	0	0

Electrovalve type 01-311P-00-H0-F01002 or F01003 24V

Reference of the terminals	Ui (V)	Ii (A)	Ri (Ω)	Ci (μ F)	Li (mH)
+ / -	30	0,33	1150	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

01-311P-00-H0-F01002 ou 01-311P-00-H0-F01003 *
INERIS 02ATEX0007 X
(serial number)
(Year of construction)



II 1 GD

EEx ia IIC T6 or T4**

IP65 T85°C or T135°C

Tamb : - 20°C to + ..°C**

Ue = 16 V ; Ie = 0.33 A for the coil 12V

Ue = 30 V ; Ie = 0.33 A for the coil 24V

(*) The points are replaced by a number or a letter define the mechanical variant of the apparatus

(**) The temperature class is define by the maximum using ambient temperature of the apparatus according the table below :

Maximum using ambient température range	Temperature Class	
Tamb : - 20°C à + 40°C	T6	T85°C
Tamb : - 20°C à + 60°C	T4	T135°C

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.

(16) DESCRIPTIVE DOCUMENTS

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

- Instructions notice (5 pages) signed on 10.01.2002
- Drawing N° H010.1000 rev. G of the 09.01.2002 signed on 10.01.2002

(17) SPECIAL CONDITIONS FOR SAFE USE

The output characteristics of the voltage source must be equal or inferior to the input characteristics defined in paragraph (15).

The special conditions for safe use are defined in the instructions notice of the apparatus.

(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 50 281-1-1 and EN 50 284.
- the whole of the provisions adopted by the manufacturer and described in the descriptive documents.