



- (2) **Equipment intended for use in potentially explosive atmospheres
Annex VIII - Directive 94/9/EC**

(1) **TYPE EXAMINATION CERTIFICATE**

- (3) Number of the type examination certificate : **INERIS 06ATEX3001**

- (4) Equipment :

FIRE DAMPER TYPE FDB2

- (5) Manufacturer : **HALTON OY**
(6) Address : **pulttikatu 2
SF-15700 LAHTI
FINLANDE**

- (7) This 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 certifies that this equipment fulfils the Essential of Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres and submitted to the Annex VIII of the directive. These essential requirements are described in appendix II of the Directive 94/9/EC of the 23th March 1994.

- (9) The examinations and the tests are consigned in official report N°P72737/06.

- (10) The respect of the Essential Health and Safety Requirements, excepted those which are listed in the appendix of this certificate :

EN 13463-1 of november 2001
EN 13463-5 of december 2003

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

- (12) This type examination certificate relates only to the design, examination and tests of the specified equipment in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (13) The marking of the equipment will have to contain:

 II 2 G

c IIC T1..T6

Verneuil-en-Halatte, 2006 12 21



S. LEMAIRE

Engineer at the Laboratory of Certification of
ATEX Equipment



Director of the Certifying Body,
By delegation
B. PIQUETTE
Deputy manager of Certification

(A1)

ANNEXE

(A2)

TYPE EXAMINATION CERTIFICATE N INERIS 06ATEX3001

(A3) DESCRIPTION OF THE EQUIPMENT

The FDB2 fire damper is constituted of iron frame and blades moved by electrical or pneumatic actuators of a certified category II2G type. A thermal fusible link allows the actuator to close the damper.

This document certifies that the equipment can not produce an ignition source which can ignite an explosive atmosphere.

The fireproofness is not covered.

The equipment is not designed to stop an explosion.

SPECIFIC PARAMETERS OF PROTECTION CONCERNED

Damper open/close maximum speed: 1 meter per second

Limitation of surface areas of gasket: 80 cm².

MARKING

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

HALTON OY
pulttikatu 2
SF-15700 LAHTI
FINLANDE
FDB2



II2G
c IIC T*
(Year of construction)
(serial number)
INERIS 06ATEX3001

*temperature class T1 to T6, conditional upon temperature class of assembled certified equipment. T6 without assembled certified equipment.

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

The equipment must also carry the marking normally envisaged by the standards of construction which relate to it.

ROUTINE EXAMINATIONS AND TESTS

None.

(A4) DESCRIPTIVE DOCUMENTS

The document referred to below, submitted and signed by the applicant, constitutes the file describing the apparatus and forming the subject of the present certification.

- Descriptive notice n°FDB2 ATEX (11 pages and 9 items) rev 0 dated on 2006.11.22 and signed on 2006.11.24

(A5) SPECIAL CONDITIONS FOR SAFE USE

None.

(A6) ESSENTIAL REQUIREMENTS OF SAFETY AND HEALTH

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

- Conformity to the European standards EN 13463-1 and EN13463-5.
- The whole of the provisions adopted by the manufacturer and described in the descriptive documents.

ADDITION

(3) **INERIS 06ATEX3001/01**

(4) **FIRE DAMPER TYPE FDB2**

(5) **Made by HALTON OY**

(15) **PURPOSE OF THE ADDITION**

- Addition of gas groups IIA and IIB.

SPECIFIC PARAMETERS

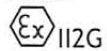
The specific parameters defined in the basic certificate are modified as follows :

Limitation of surface areas of gasket: 400 cm².

MARKING

The marking defined in the basic certificate is modified as follows:

HALTON OY
pulttikatu 2
SF-15700 LAHTI
FINLANDE
FDB2



II2G
c IIA or IIB or IIC T*
(Year of construction)
(serial number)
INERIS 06ATEX3001

*temperature class T1 to T6, conditional upon temperature class of assembled certified equipment. T6 without assembled certified equipment.

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

The equipment 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 document referred to below, constitutes the file describing the modification of the apparatus and forming the subject of the present addition.

- Descriptive notice n°FDB2 ATEX (14 pages and 9 appendix) rev 1 dated and signed on 2007.02.02.


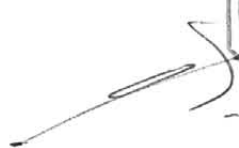
(17) SPECIAL CONDITIONS FOR SAFE USE

None.

(18) ESSENTIAL REQUIREMENTS OF SAFETY AND HEALTH

The respect of the Essential Health and Safety Requirements defined in the basic certificate is unchanged.

Verneuil-en-Halatte, 2007 02 08



S. LEMAIRE

Project Manager at the ATEX
Equipment Evaluation Laboratory



Director of the Certifying Body,
By delegation
C. PETITFRERE
Delegate of Certification
Certification Division

ADDITION

- (3) INERIS06ATEX3001/02
- (4) FIRE DAMPER type FDB2.
- (5) Made by HALTON OY

(15) PURPOSE OF THE ADDITION


Addition of fire dampers FDL and FEX.

PARAMETERS RELATING TO THE SAFETY

The parameters relating to the safety are unchanged.

MARKING

The marking defined in the basic certificate is modified as follows:

HALTON OY
Pulttikatu 2
SF-15700 LAHTI
FINLAND
FDB2
 II2G
c IIA or IIB or IIC T*
(Year of construction)
(serial number)
INERIS 06ATEX3001

*temperature classes T1 to T6, conditional upon temperature class of assembled certified equipment. T6 without assembled certified equipment.

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

The equipment 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 descriptive documents quoted hereafter constitute the technical documentation describing the modification of the equipment, subject of this present addition.

- Descriptive notice n°FDL ATEX (13 pages and 9 appendix) rev 0 dated on 2007.04.27 and signed on 2007.05.30.
- Descriptive notice n°FEX ATEX (13 pages and 9 appendix) rev 0 dated on 2007.04.27 and signed on 2007.05.30.

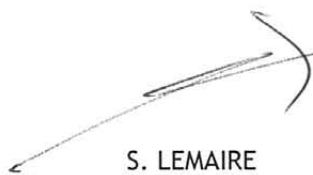
(17) **SPECIAL CONDITIONS FOR SAFE USE**

The user will have to make sure that the damper's installation does not stop the electrical continuity.

(18) **ESSENTIAL SAFETY AND HEALTH REQUIREMENTS**

The respect of the Essential Health and Safety Requirements is unchanged.

Verneuil-en-Halatte, 2007 07 30


S. LEMAIRE

Project Manager at the ATEX
Equipment Evaluation Laboratory





Director of the Certifying Body,
By delegation
T. HOUEIX
Certification Officer
Certification Division