

CESI

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Sezione Ordinaria
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P.I. IT00793580150

Schema di certificazione

ATEX CESI

Il CESI è stato autorizzato
dal governo italiano ad
operare quale organismo di
certificazione di apparecchi
e sistemi destinati a essere
utilizzati in atmosfera
potenzialmente esplosiva
con D.M. 1/3/1983, D.M.
19/6/1990, D.M. 20/7/1998
e D.M. 27/9/2000

CERTIFICATE



EC-TYPE EXAMINATION CERTIFICATE

- [1] **EC-TYPE EXAMINATION CERTIFICATE**
- [2] **Equipment or Protective System intended for use
in potentially explosive atmospheres
Directive 94/9/EC**
- [3] EC-Type Examination Certificate number:
CESI 02 ATEX 014
- [4] Equipment: Explosion proof solenoid type OA-..; OZA-..; MZA-A-.
- [5] Manufacturer: **ATOS S.p.A.**
- [6] Address: Via alla Piana, 57 – 21018 Sesto Calende (VA) – Italy
- [7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] CESI, notified body n. 0722 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- The examination and test results are recorded in confidential report n. EX-A2/005935.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014: 1997 + A1..A2 EN 50018: 2000
- [10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system 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, 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 protective system shall include the following:

II 2 G EEx d IIC T6, T4, T3

This certificate may only be reproduced in its entirety and without any change, schedule included.

Date 27 February 2002 – Translation issued the [SB1]27 February 2002

Prepared
Enrico Radaelli

Verified
Damiano Cavanna

Approved
Ulisse Colombo

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CENTRO ELETTRONICO SPERIMENTALE ITALIANO
Business Unit Certificazione

Il Responsabile

[13]

Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 02 ATEX 014**

[15] **Description of equipment**

The explosion proof solenoids subject of this certificate are use to drive direction control, flow control and pressure control valves; they are identified by a code as follows:

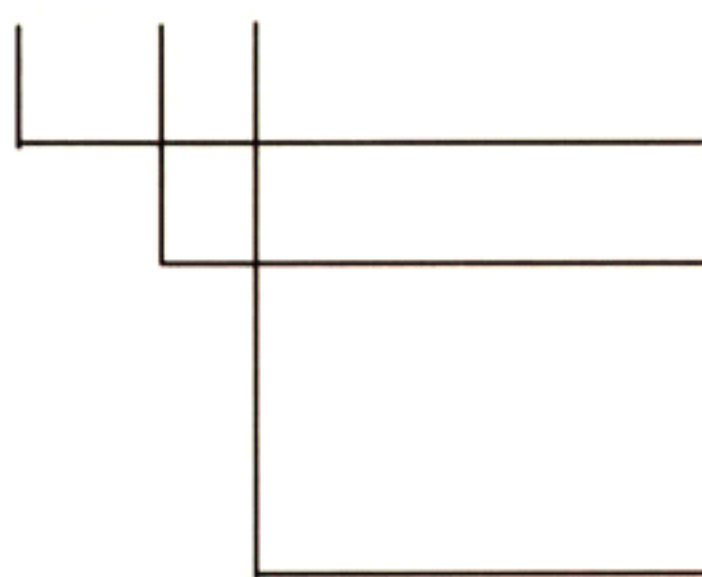
OA - . .



explosion proof ON/OFF solenoid

options supply voltage

OZA - . - .



explosion proof proportional solenoid

A: for open loop application,

T: for closed loop application with position transducer type ETHA-4/*

option supply voltage for type **A**

MZA-A - .



explosion proof proportional solenoid without manual operation

options supply voltage

Electrical characteristics

Solenoid type OA- . .

- Rated voltage supply :	12 ÷ 220 Vdc ;	12 ÷ 220 Vca
- Rated power:	8 W	8 W
- Frequency:		50/60 Hz

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Solenoid type OZA-... and type MZA-...

- Rated voltage supply: 12 Vdc ; 24 Vdc
- Input current max: 2.5 A; 1.1 A
- Rated power max: 35 W

Power limitation is achieved by means of electronic regulator feeding the solenoid with a current of 2500 mA for the type OZA-A-12DC and MZA-A-12DC and with a current of 1100 mA for the type OZA-A-24DC and MZA-A-24DC.

The supply of the solenoid type OZA-T is made by means of electronic regulator type E-ME-T-0*H (ATOS).

Temperature classes and temperature on the supply cables related to the ambient temperature.

type	ambient temperature max.	temperature class	operating temperature of the cables
OA	70 °C	T4	≥ 90 °C
OA	45 °C	T6	--
OZA-A	70 °C	T3	≥ 120 °C
OZA-A	40 °C	T4	≥ 90 °C
MZA-A	70 °C	T3	≥ 120 °C
MZA-A	40 °C	T4	≥ 90 °C
OZA-T	70 °C	T3	≥ 120 °C
OZA-T	40 °C	T4	≥ 90 °C

A label shall be provided on the outside of the electrical apparatus as a guide for the selection of the cable by the user (par. 16.8 of EN 50014 Standard).

Installation conditions

The accessories used for cable entries shall be suitable for the indicated cables temperature and shall be certified according to EN 50014 and EN 50018 Standards.

If cylindrical threads are used, the coupling between the cable gland and the terminal box shall be provided by block to prevent loosening.

[13] **Schedule**

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 02 ATEX 014**

[16] **Report n.**
CESI nr. EX-A2/005935.

Routine tests

The manufacturer shall carry out the routine tests prescribed at paragraph 24 of the EN 50014 Standard.
The manufacturer is exempted from the overpressure test since the solenoids in subject have been submitted to an overpressure test at 33 bar, corresponding to four times the reference pressure.
The actuators are submitted to an individual overpressure test to verify the functional suitability at the rated operating pressure.

Descriptive documents (prot. EX-A2/005938)

- n. SAS-211-D/1	(4 pg.)	dated	15.01.2002
- n. t189	(4 pg.)	dated	15.01.2002
- n. 6-OA-201000-I Rev. 6		dated	10.01.2002
- n. 6-OZA-101000-I Rev. 6		dated	10.01.2002
- n. 6-MZA-220000-I Rev. 1		dated	10.01.2002
- n. 6-OA-201051-I Rev. 1		dated	10.01.2002
- n. t186		dated	10.01.2002

One copy of all documents is kept in CESI files.

[17] **Special conditions for safe use**
None.

[18] **Essential Health and Safety Requirements**
Assured by compliance to the Standards indicated at page 1.



EXTENSION n. 01/03

to EC-Type Examination Certificate CESI 02ATEX014

Equipment: Explosion proof solenoid type OA-..; OZA-..; MZA-A-.

Manufacturer: ATOS S.p.A.

Address: Via alla Piana, 57 – 21018 Sesto Calende (Varese) - Italy

Admitted variation

New models named **OA/WP-*** and **OZA-A-*/WP** and constructional modifications.

* = options supply voltage

The constructional modifications are specified in the descriptive documents annexed to this extension.

Report n. EX-A2/005935

Descriptive documents (prot. EX-A3/021451)

- n. SAS-262-D/0	(pg. 2)	dated	28.05.2003
- n. 6-OA-201000-I Rev. 7		dated	09.05.2003
- n. 6-OZA-101000-I Rev.7		dated	12.05.2003
- n. 6-MZA-220000-I Rev.2		dated	12.05.2003
- n. 6-OZA-102000-I Rev.1		dated	25.03.2003
- n. 6-OA-202000-I Rev.1		dated	25.03.2003

One copy of all documents is kept in CESI files.

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 02ATEX014.

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date 14 June 2003 - translation issued the 14th June 2003

prepared CERT – Enrico Radaelli

verified CERT – Mirko Balaz

approved CERT – Ulisse Colombo

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Il Responsabile

Prot. A3/021454

P: 2

Keywords

13010R 21635I 48010M 54250O 66540E

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EXTENSION n. 02/05

to EC-Type Examination Certificate CESI 02ATEX 014



Equipment: Explosion proof solenoid series OA-; OZA; MZA-A

Manufacturer: ATOS S.p.A.

Address: Via alla Piana, 57 – 21018 Sesto Calende (VA) - Italy

Admitted variation

Constructional modifications, new electrical characteristics, new models named **OAX/WP-***, **OAKX/WP-***, **OZAX-A-*/WP** e **MZAX-A-***, (* = options supply voltage).

The admitted variation are specified in the descriptive documents annexed to the extension and are mainly related to:

- little cable to keep the back cover on the solenoid type OA/WP-* e OZA-A-*/WP;
- new coil supplied with 48Vdc for the solenoid type OA-* e OA/WP-*;
- new material (stainless steel) for solenoid type OA/WP-* , OZA-A-*/WP e MZA-A-* with the insertion of letter "X" in the code (**OAX/WP-*** , **OZAX-A-*/WP** e **MZAX-A-***);
- new coil types for solenoid OAX/WP* with the insertion of letter "K" in the code (**OAKX/WP***).

Electrical characteristics

Solenoid type OA-48 DC and OA/WP-48DC

- Rated voltage supply : 48 Vdc
- Rated power: 8 W

Solenoid type OAKX/WP-*

- Rated voltage supply : 12 ÷ 220 Vdc ; 12 ÷ 240 Vca
- Rated power: 25 W 25 W
- Frequency: 50/60 Hz

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 02 ATEX 014.

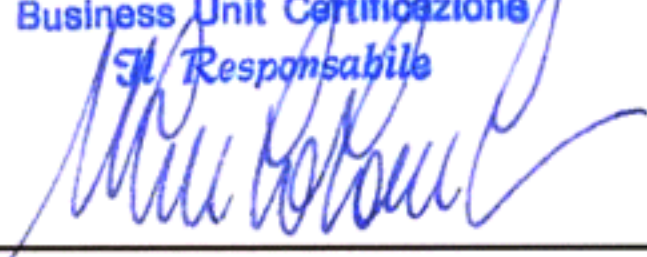
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date 12 February 2005 - translation issued the 12 February 2005

prepared CERT – Enrico Radaelli 

verified CERT – Damiano Cavanna 

approved CERT – Ulisse Colombo

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CENTRO ELETTROTECNICO SPERIMENTALE ITALIANO
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EXTENSION n. 02/05

to EC-Type Examination Certificate CESI 02 ATEX 014

Temperature classes and temperature on the supply cables related to the ambient temperature for the new types OAKX/WP.*

type	ambient temperature max.	temperature class	operating temperature of the cables
OAKX/WP-*	70 °C	T3	≥ 130 °C
	60 °C	T3	≥ 120 °C
	50 °C	T3	≥ 110 °C
	40 °C	T4	≥ 100 °C

Installation conditions

The solenoids shall be installed on a metallic block with a minimum volume of 0,2 dm³ for each valve.

Report n. EX-A5005177

Descriptive documents (prot. EX A5005181)

- n. SAS-064-D/0	(pg. 4)	dated	11.02.2005
- n. t189/2	(pg. 5)	dated	11.02.2005
- n. 6-OA-202000-I Rev. 3		dated	01.12.2004
- n. 6-OZA-102000-I Rev.3		dated	01.12.2004
- n. 6-OZAX-102000-I Rev.3		dated	01.12.2004
- n. 6-OAX-202000-I Rev. 3		dated	01.12.2004
- n. 6-MZAX-220000-I Rev.1		dated	03.08.2004
- n. T-665/BT-I Rev.2		dated	11.02.2005
- n. t186-1		dated	11.02.2005

One copy of all documents is kept in CESI files.

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EXTENSION n. 03/07

to EC-Type Examination Certificate CESI 02ATEX014

Equipment: Explosion proof solenoid series OA-; OZA; MZA-A

Manufacturer: ATOS S.p.A.

Address: Via alla Piana, 57 – 21018 Sesto Calende (Varese) - Italy

Admitted variation

Constructional modifications:

materials for enclosure suitable to be used at a minimum ambient temperature up to -40°C .

The admitted variation are specified in the descriptive documents annexed to the extension.

Installation conditions

The characteristic of the cables and of the accessories used for cable entries shall be suitable to be used in the range of the ambient/operating temperature of the transducer.

Report n. EX-A7013683.

Routine tests

The manufacturer shall carry out the routine tests prescribed at par. 24 of the EN 50014 standard and at par. 16 of the EN 50018 standard. Solenoids in subject are exempted from overpressure routine test since they have been submitted, with the static method and favourable result, to an overpressure test at a pressure corresponding to 4 times the reference pressure related to an ambient temperature of -40°C .

Descriptive documents (prot. EX-A7013706)

- n. SAS-312-D/1	dated	02.02.2007
- n. 6-OA-201000-I Rev.9	dated	02.02.2007
- n. 6-OA-202000-I Rev.5	dated	02.02.2007
- n. 6-OZA-101000-I Rev.9	dated	02.02.2007
- n. 6-OZA-102000-I Rev.5	dated	02.02.2007
- n. 6-MZA-220000-I Rev.4	dated	02.02.2007
- n. 6-MZAX-220000-I Rev.3	dated	01.02.2007
- n. 6-OAX-202000-I Rev.5	dated	01.02.2007
- n. 6-OZAX-102000-I Rev.5	dated	01.02.2007
- n. 6-OA-201051-I Rev.4	dated	01.02.2007
- n. T-665/BT-I Rev. 5	dated	01.02.2007
- n. TT189/3	dated	30.01.2007

(pg. 5)

One copy of all documents is kept in CESI files.

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 02ATEX014.

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date 07 February 2007 - translation issued the 07th February 2007

prepared Enrico Radaelli

verified Mirko Balaz

approved Fiorenzo Bregani

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Centro Elettrotecnico Sperimentale Italiano
Giacinto Motta SpA

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Prot. A7013704

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EXTENSION n. 04/07

to EC-Type Examination Certificate CESI 02ATEX014

Equipment: Explosion proof solenoid series OA-; OZA; MZA-A

Manufacturer: **ATOS S.p.A.**

Address: Via alla Piana, 57 – 21018 Sesto Calende (Varese) - Italy

Admitted variation

Constructional modifications: horizontal cable entry instead of vertical cable entry. This constructional version is identified by the letter "O" in the identification code as specified in the descriptive documents annexed to the extension.

Installation conditions

The characteristic of the cables and of the accessories used for cable entries shall be suitable to be used in the range of the ambient/operating temperature of the transducer.

Report n. EX-A7016227.

Routine tests

The manufacturer shall carry out the routine tests prescribed at par. 24 of the EN 50014 standard and at par. 16 of the EN 50018 standard. Solenoids in subject are exempted from overpressure routine test since they have been submitted, with the static method and favourable result, to an overpressure test at a pressure corresponding to 4 times the reference pressure related to an ambient temperature of -40 °C.

Descriptive documents (prot. EX-A7016232)

- n. SAS-413-D/O	(pg.2)	dated	12.02.2007
- n. 6-OA-201100-I Rev.1		dated	15.02.2007
- n. 6-OA-202100-I Rev.1		dated	15.02.2007
- n. 6-OZA-101100-I Rev.1		dated	14.02.2007
- n. 6-OZA-102100-I Rev.1		dated	14.02.2007
- n. 6-MZA-220100-I Rev.1		dated	15.02.2007
- n. 6-MZAX-220100-I Rev.1		dated	15.02.2007
- n. 6-OAX-202100-I Rev.1		dated	14.02.2007
- n. 6-OZAX-102100-I Rev.1		dated	14.02.2007
- n. 6-OA-201051-I Rev.6		dated	15.02.2007
- n. T-665/BT-I Rev. 7		dated	15.02.2007
- n. TT189/4	(pg. 5)	dated	12.02.2007

One copy of all documents is kept in CESI files.

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 02ATEX014.

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date 16 February 2007 - translation issued the 16th February 2007

prepared Enrico Radaelli

verified Mirko Balaz

approved Fiorenzo Bregani

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Giacinto Motta SpA

Prot. A7016231

P: 1

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EXTENSION n. 05/07

to EC-Type Examination Certificate CESI 02 ATEX 014

Equipment: Explosion proof solenoid series OA-; OZA; MZA-A-

Manufacturer: **ATOS S.p.A.**

Address: Via alla Piana, 57 – 21018 Sesto Calende (Varese) - Italy

Admitted variation

- Constructional modifications and updating of the documentation for conformity to **EN60079-0 (2006)**, **EN60079-1 (2004)** Standards.
- Change of the code for the types **OA/*/*-220**, **OAX/*/*WP-220** and **OAKX/*/*WP-220** in the new code **OA/*/*-230**, **OAX/*/*WP-230** and **OAKX/*/*WP-230**.

Marking

The equipment shall be marked as follows:

 **II 2G Ex d IIC T6 or T4 or T3**

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 02 ATEX 014.

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date 7 September 2007 - translation issued the 7th September 2007

prepared Enrico Radaelli

verified Mirko Balaz

approved Fiorenzo Bregani

CESI S.p.A.
Divisione Energia
"Area Tecnica Certificazione"
Il Responsabile

page 1/4

EXTENSION n. 05/07

to EC-Type Examination Certificate CESI 02 ATEX 014

Identification and description of equipment

The explosion proof solenoids subject of this certificate are use to drive direction control, flow control and pressure control valves.

In the following table are resumed the types of the series and the relevant description.

Model	Description
OA-*	on-off solenoid
OA/WP-*	on-off solenoid with protected manual override
OA/O-*	on-off solenoid with horizontal cable output
OA/O/WP-*	on-off solenoid with protected manual override and with horizontal cable output
OAX/WP-*	stainless steel on-off solenoid with protected manual override
OAKX/WP-*	stainless steel on-off solenoid with protected manual override (power 25 W)
OAX/O/WP-*	stainless steel on-off solenoid with protected manual override and with horizontal cable output
OAKX/O/WP-*	stainless steel on-off solenoid with protected manual override and with horizontal cable output (power 25 W)
OZA-A-*	proportional solenoid without position transducer
OZA-T	proportional solenoid with position transducer
OZA-A-*/WP	proportional solenoid without position transducer and with protected manual override
OZA-A-*/O	proportional solenoid without position transducer and with horizontal cable output
OZA-A-*/O/WP	proportional solenoid without position transducer, with horizontal cable output and with protected manual override
OZAX-A-*/WP	stainless steel proportional solenoid without position transducer and with protected manual override
OZAX-A-*/O/WP	stainless steel proportional solenoid without position transducer, with horizontal cable output and with protected manual override
MZA-A-*	proportional solenoid without position transducer and without manual override
MZA-A-*/O	proportional solenoid without position transducer, without manual override and with horizontal cable output
MZAX-A-*	stainless steel proportional solenoid without position transducer and without manual override
MZAX-A-*/O	stainless steel proportional solenoid without position transducer, without manual override and with horizontal cable output

* Rated supply voltage

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EXTENSION n. 05/07

to EC-Type Examination Certificate CESI 02 ATEX 014

Electrical characteristics

Solenoid type OA-

- Rated voltage supply:	12 ÷ 220 Vdc	12 ÷ 240 Vca
- Rated power:	8 W	8 W
- Frequency:		50/60 Hz

Solenoid type OAKX -

- Rated voltage supply:	12 ÷ 220 Vdc	12 ÷ 240 Vca
- Rated power:	25 W	25 W
- Frequency:		50/60 Hz

Solenoid type OZA-.. and type MZA-A-.

- Rated voltage supply:	12 Vdc	24 Vdc
- Input current max:	2.5 A;	1.1 A
- Rated power max:	35 W	35 W

Power limitation is achieved by means of electronic regulator feeding the solenoid with a current of 2500 mA for the type OZA-A-12DC and MZA-A-12DC and with a current of 1100 mA for the type OZA-A-24DC and MZA-A-24DC.

The supply of the solenoid type OZA-T is made by means of electronic regulator type E-ME-T-0*H (ATOS).

For each type detailed electrical characteristics are reported in the descriptive documents annexed to the certificate.

Ambient temperature

The solenoids in subject are suitable to operate with a minimum ambient temperature of – 40°C.

Temperature classes and temperature on the supply cables related to the maximum ambient temperature

type	ambient temperature max.	temperature class	operating temperature of the cables
OA; OA/O; OA/WP; OA/O/WP; OAX/WP; OAX/O/WP	70 °C	T4	≥ 90 °C
	45 °C	T6	--
OAKX/WP; OAKX/O/WP	70 °C	T3	≥ 130 °C
	60 °C	T3	≥ 120 °C
	50 °C	T3	≥ 110 °C
	40° C	T4	≥ 100 °C
OZA-A; OZA-A /O; OZA-A /WP; OZA-A /O/WP; OZAX-A/WP; OZAX-A/O/WP	70 °C	T3	≥ 120 °C
	40 °C	T4	≥ 90 °C
MZA-A ; MZA-A/O; MZAX-A; MZAX-A/O	70 °C	T3	≥ 120 °C
	40 °C	T4	≥ 90 °C
OZA-T	70 °C	T3	≥ 120 °C
	40 °C	T4	≥ 90 °C

A label shall be provided on the outside of the electrical apparatus as a guide for the selection of the cable by the user (par. 16.5 of EN 60079-0 Standard).

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EXTENSION n. 05/07

to EC-Type Examination Certificate CESI 02 ATEX 014

Installation conditions

- The solenoids shall be installed on a metallic base with a volume of minimum 0.2 dm³ for each valve.
- The characteristics of the cables and of the accessories used for cable entries shall be suitable for the use in the ambient/operating temperature of the solenoid. The accessories used for cable entries shall be certified according to EN60079-0 and EN60079-1 Standards.
- If cylindrical threads are used, the coupling between the cable gland and the enclosure shall be provided by block to prevent loosening.

Report n. EX-A7023245

Routine tests

The manufacturer shall carry out the routine tests prescribed at par. 27 of EN60079-0 Standard and at par. 16 of EN60079-0 Standard.

Solenoids in subject are exempted from overpressure routine test since they have been submitted, with the static method and favourable result, to an overpressure test at a pressure corresponding to 4 times the reference pressure related to an ambient temperature of -40 °C. The actuators are submitted to an individual overpressure test to verify the functional suitability at the rated operating pressure.

Descriptive documents (prot. EX-A7023261)

- n. SAS-422-D/0	(pg. 2)	dated	29.08.2007
- n. TT189/5	(pg. 5)	dated	30.08.2007
- n. 6-OA-201000-I Rev.10		dated	05.09.2007
- n. 6-OA-201100-I Rev.2		dated	06.09.2007
- n. 6-OA-202000-I Rev.6		dated	05.09.2007
- n. 6-OA-202100-I Rev.2		dated	06.09.2007
- n. 6-OAX-202000-I Rev.6		dated	05.09.2007
- n. 6-OAX-202100-I Rev.2		dated	05.09.2007
- n. 6-OZA-101000-I Rev.10		dated	05.09.2007
- n. 6-OZA-101100-I Rev.2		dated	06.09.2007
- n. 6-OZA-102000-I Rev.6		dated	05.09.2007
- n. 6-OZA-102100-I Rev.2		dated	06.09.2007
- n. 6-OZAX-102000-I Rev.6		dated	05.09.2007
- n. 6-OZAX-102100-I Rev.2		dated	06.09.2007
- n. 6-MZA-220000-I Rev.5		dated	05.09.2007
- n. 6-MZA-220100-I Rev.2		dated	06.09.2007
- n. 6-MZAX-220000-I Rev.4		dated	05.09.2007
- n. 6-MZAX-220100-I Rev.2		dated	06.09.2007
- n. 6-OA-201051-I Rev.8		dated	06.09.2007
- n. T-665/BT-I Rev.8		dated	30.08.2007
- Declaration of conformity TT186/3		dated	30.08.2007

One copy of all documents is kept in CESI files.

Essential Health and Safety Requirements

The Essential Health and Safety Requirements are assured by compliance to the following standards:

- EN 60079-0: 2006 – Electrical apparatus for explosive gas atmosphere -General requirements.
- EN 60079-1: 2004 – Flameproof enclosure “d”.

EXTENSION n. 06/08

to EC-Type Examination Certificate CESI 02 ATEX 014



Equipment: Explosion proof solenoid series OA-; OZA; MZA-A-

Manufacturer: ATOS S.p.A.

Address: Via alla Piana, 57 – 21018 Sesto Calende (Varese) - Italy

Admitted variation

- New types *XS... and *XW... :

*XS version	*XW version
OAXS/WP-*	OAXW/WP-*
OAXS/O/WP-*/	OAXW/O/WP-*/
OAKXS/WP-*	OAKXW/WP-*
OAKXS/O/WP-*/	OAKXW/O/WP-*/
OZAXS-A/WP-*	OZAXW-A/WP-*
OZAXS-A-*/O/WP	OZAXW-A-*/O/WP
MZAXS-A-*	MZAXW-A-*
MZAXS-A-*/O	MZAXW-A-*/O

All detailed constructional modifications for types *XS... ed *XW... are reported in the descriptive documents annexed to the certificate.

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 02 ATEX 014.

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date 4 June 2008 - translation issued the 4th June 2008

prepared Maurizio Toninelli

verified Mirko Balaz

approved Fiorenzo Bregani

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Divisione Energia
"Area Tecnica Certificazione"
Il Responsabile

page 1/3

EXTENSION n. 06/08

to EC-Type Examination Certificate CESI 02 ATEX 014

Marking

The equipment shall be marked as follows:

 II 2G Ex d IIC T6 or T4 or T3

Electrical characteristics

Electrical characteristics are unchanged.

Ambient temperature

The solenoids in subject are suitable to operate with a minimum ambient temperature of – 40°C.

Temperature classes and temperature on the supply cables related to the maximum ambient temperature

Type		Maximum ambient temperature	Cables operating temperature	Temperature class
OA OA/O OA/WP OA/O/WP	OAX/WP OAX/O/WP OAXS/WP OAXS/O/WP OAXW/WP OAXW/O/WP	70	90	T4
		45	-	T6
-	OAKX/WP OAKX/O/WP OAKXS/WP OAKXS/O/WP OAKXW/WP OAKXW/O/WP	70	130	T3
		60	120	
		50	110	
		40	100	T4
OZA-A OZA-A/O OZA-A/WP OZA-A/O/WP	OZAX-A/WP OZAX-A/O/WP OZAXS-A/WP OZAXS-A/O/WP OZAXW-A/WP OZAXW-A/O/WP	70	120	T3
		40	90	T4
MZA-A MZA-A/O	MZAX-A, MZAX-A/O, MZAXS-A, MZAXS-A/O, MZAXW-A, MZAXW-A/O	70	120	T3
		40	90	T4
OZA-T	-	70	120	T3

A label shall be provided on the outside of the electrical apparatus as a guide for the selection of the cable by the user (par. 16.5 of EN 60079-0 Standard).

Report n. EX-A8016227

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EXTENSION n. 06/08

to EC-Type Examination Certificate CESI 02 ATEX 014

Routine tests

The manufacturer shall carried out the routine tests prescribed at par. 27 of EN60079-0 Standard and at par. 16 of EN60079-0 Standard.

Solenoids in subject are exempted from overpressure routine test since they have been submitted, with the static method and favourable result, to an overpressure test at a pressure corresponding to 4 times the reference pressure related to an ambient temperature of -40°C . The actuators are submitted to an individual overpressure test to verify the functionally suitability at the rated operating pressure.

Descriptive documents (prot. EX-A8016230)

- n. SAS-426-D/0	(pg. 2)	dated	20.06.2007
- n. TT189/6	(pg. 8)	dated	11.04.2008
- n. 6-OAXS-202000-I Rev.1		dated	10.04.2008
- n. 6-OAXW-202000-I Rev.1		dated	10.04.2008
- n. 6-OAXS-202100-I Rev.0		dated	10.04.2008
- n. 6-OAXW-202100-I Rev.0		dated	10.04.2008
- n. 6-OZAXS-102000-I Rev.0		dated	10.04.2008
- n. 6-OZAXW-102000-I Rev.0		dated	10.04.2008
- n. 6-OZAXS-102100-I Rev.0		dated	10.04.2008
- n. 6-OZAXW-102100-I Rev.0		dated	10.04.2008
- n. 6-MZAXS-220000-I Rev.0		dated	10.04.2008
- n. 6-MZAXW-220000-I Rev.0		dated	10.04.2008
- n. 6-MZAXS-220100-I Rev.0		dated	10.04.2008
- n. 6-MZAXW-220100-I Rev.0		dated	10.04.2008
- n. 6-OA-201051-I Rev.9		dated	10.04.2008
- n. T-665/BT-I Rev.9		dated	10.04.2008
- Declaration of conformity TT186/4		dated	10.04.2008

One copy of all documents is kept in CESI files.

Essential Health and Safety Requirements

The Essential Health and Safety Requirements are assured by compliance to the following standards:

- EN 60079-0: 2006 – Electrical apparatus for explosive gas atmosphere - General requirements.
- EN 60079-1: 2004 – Flameproof enclosure “d”.



fac simile

La Ditta / The Company

ATOS s.p.a.
21018 Sesto Calende / Italia
via alla Piana 57

Dichiara con la presente la conformità al Prodotto / herewith declares conformity of the Products

Prodotto / Product	Tipo / Type
SOLENIODI ANTIDEFLAGRANTI EXPLOSION-PROOF SOLENOIDS	OA-*, OZA-A*, MZA-A*, OA/O-*, OZA-A*/O, MZA-A*/O OA/WP-*, OZA-A*/WP, OA/O/WP-*, OZA-A*/O/WP OAX/WP-*, OAKX/WP-*, OAX/O/WP-*, OAKX/O/WP- OZAX-A*/WP, MZAX-A*, OZAX-A*/O/WP, MAZX-A*/O OAXS/WP-*, OAKXS/WP-*, OAXS/O/WP-*, OAKXS/O/WP- OZAXS-A*/WP, MZAXS-A*, OZAXS-A*/O/WP, MAZXS-A*/O OAXW/WP-*, OAKXW/WP-*, OAXW/O/WP-*, OAKXW/O/WP- OZAXW-A*/WP, MZAXW-A*, OZAXW-A*/O/WP, MAZXW-A*/O

* = Tensione di alimentazione nominale / Nominal supply voltage

Modo di protezione / Protection mode



II 2 G Ex d IIC T6, T4, T3

Certificato / Certificate **CESI 02 ATEX 014**

In accordo alle norme sottostanti / in accordance with the below applicable regulations

Direttive CEE applicabili / applicable EC Directive

89/336/CE

94/9/CE

In quanto conforme alle Norme Europee Armonizzate / As in accordance to the European Armonized Standards

EN 61000-6-1 ☒

EN 61000-6-3 ☒

CESI
Protocollo

EN 60079-0 (2006) ☒

EN 60079-1 (2004) ☒

EYA 8016230

M. Tommelli

Organismo Notificato / Notified body n° 0722

Notifica / Notification **CESI 02 ATEX 034Q**

CESI 02 ATEX 014

04.06.2008

Data
Date: 10.04.2008

Firma
Signature: