

# INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

	for fules and details of the IEC	CEX Scrieme visit www.iecex.com				
Certificate No.:	IECEx CES 10.0010X	Page 1 of 4	Certificate history:			
Status:	Current	Issue No: 3	Issue 2 (2015-01-29) Issue 1 (2012-09-10) Issue 0 (2010-09-14)			
Date of Issue:	2019-10-21					
Applicant:	ATOS S.p.A. via alla Piana, 57 I - 21018 Sesto Calende (VA) Italy					
Equipment:	Explosion proof solenoid, series OA-*; OAB-*; OZA-A*; OZA-T*; OZAB-A*; MZA-A-*; MZAB-A-*; OA/O-*; OAB/O-*; OA/WP-*; OAB/WP-*; OAB/WP-*; OAB/O/WP-*					
Optional accessory:						
Type of Protection:	Flameproof enclosures 'd'; Dust ignition p	rotection 't'				
Marking:	Ex db IIC T6 or T4 or T3 Gb					
	Ex tb IIIC T85°C or T135°C or T200°C Db					
	IP 66/67					
Approved for issue of Certification Body:	on behalf of the IECEx	Mirko Balaz				
Position:		Head of IECEx CB				
Signature: (for printed version)						
Date:						
2. This certificate is	and schedule may only be reproduced in full. In not transferable and remains the property of the authenticity of this certificate may be verified by v		ode.			

Certificate issued by:

CESI Centro Elettrotecnico Sperimentale Italiano S.p.A. Via Rubattino 54 20134 Milano Italy





Certificate No.: IECEx CES 10.0010X Page 2 of 4

Date of issue: 2019-10-21 Issue No: 3

Manufacturer: ATOS S.p.A.

via alla Piana, 57

I - 21018 Sesto Calende (VA)

Italy

Additional manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

### STANDARDS:

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

**IEC 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t" Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## **TEST & ASSESSMENT REPORTS:**

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

**Quality Assessment Report:** 

IT/CES/QAR10.0003/09



Certificate No.: IECEx CES 10.0010X Page 3 of 4

Date of issue: 2019-10-21 Issue No: 3

### **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

Explosion proof solenoids series OA-\*; OAB-\*; OZA-A\*; OZA-T\*; OZAB-A\*; MZAB-A-\*; MZAB-A-\*; OA/O-\*; OAB/O-\*; OAB/WP-\*; OA/O/WP-\*; OAB/O/WP-\*.

The explosion proof solenoids in subject are used to drive direction control, flow control and pressure control valves.

# **Electrical characteristics**

Rated voltage: 12 / 220 Vdc , 12/ 240 Vac (depending of the models).

Rated power: 3,5 / 35 W (depending of the models).

Ambient temperature range: from -60°C / -40°C to +  $40^{\circ}$  / +45°C / +  $50^{\circ}$ C / +55°C /+60°C / +  $70^{\circ}$ C (depending of the model).

Degree of protection: IP 66/67 (IEC 60529).

Details concerning version, model code, short description, min and max T amb, constructional materials, cable temperature, temperature class, surface temperatures and power supply are mentioned in Annexe.

## SPECIFIC CONDITIONS OF USE: YES as shown below:

- The flame paths are specified in the manufacturer drawings. For information regarding the dimensions of the flameproof joints the manufacturer shall be contacted.
- For the selection of connecting cable with operating temperature suitable for the installation conditions of equipment refer to the manufacturer safety instruction.
- Use screws property class A4-70 UNI 5931 with yield stress ≥ 450MPa.



Certificate No.: IECEx CES 10.0010X Page 4 of 4

Date of issue: 2019-10-21 Issue No: 3

### **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

### Variation 3.1:

The explosion proof solenoids, originally assessed in compliance with IEC 60079-0: 2011 and IEC 60079-1: 2007 have been re-assessed on the basis of the standard IEC 60079-0: 2017,  $7^{th}$  edition and IEC 60079-1:2014,  $7^{th}$  edition.

# Variation 3.2:

Ex marking concerning the flameproof enclosure protection type has been updated to "db" for EPL Gb, according to latest edition of standard IEC 60079-1:2014, 7<sup>th</sup> edition. Ex marking on the nameplate has been updated.

#### Variation 3.3:

Integration of explosion proof solenoid with position transducer type E-THA-\* certified separately by IECEx CES 12.0006X with type of protection "db" and "tb".

The solenoid, where position transducer is integrated as accessory is called OZA\*-T\*:

OZA-T\*: composed by standard materials and E-THA\*-\* transducer

OZAX-T\*: composed by full stainless steel materials and E-THA\*-\* transducer

OZAXS-T\*: composed by external stainless steel materials and E-THA\*-\* transducer

OZAXW-T\*: composed by internal stainless steel materials and E-THA\*-\* transducer

The integration of the explosion proof inductive transducer devices in the solenoid enclosure does not introduce new flameproof joint. Each enclosure maintains its own flameproof joints.

The implementation of the new solenoid models with the inductive transducers ETHA-4/\* provides a modification of the IP joint in the area of the coupling between both enclosures: An O-ring gasket interposed between the shell of the solenoid and the cap of the transducer, replaces the O-ring gasket used on the rotor shaft of the solenoid (used when it is not coupled to the transducer).

The temperature class of the solenoid takes into account the temperature class of the position transducer coupled.

The solenoid models with integrated the inductive transducer maintain the same technical characteristics and supply power than the same solenoid models without the transducer device.

## Annex:

IECExCES10.0010X Issue 3 ANNEXE - ATOS solenoids.pdf





Prot: B9020746

IECEx CES 10.0010X Issue No.3 of 2019-10-21 Annex to certificate:

Applicant: ATOS S.p.A.

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

**Electrical Apparatus:** Explosion proof solenoids series OA-\*; OAB-\*; OZA-A\*; OZA-T\*; OZAB-

A\*; MZA-A-\*; MZAB-A-\*; OA/O-\*; OAB/O-\*; OA/WP-\*; OAB/WP-\*;

OA/O/WP-\*; OAB/O/WP-\*

(standard version, see product information for complete model types)

# **Description of equipment**

The explosion proof solenoids in subject are used to drive direction control, flow control and pressure control valves. In the following are summarized the models and the relevant description.

# Version, model code and short description

Version	Code	Description		
	OA-*	on-off solenoid		
Standard	OA/3-*	on-off solenoid - power 3,5 W		
	OZA-A-*	proportional solenoid without position transducer		
	MZA-A-*	proportional solenoid without position transducer and without manual override		
	OZA-T	proportional solenoid with position transducer		
Standard	OAB-*	on-off solenoid for Amb.T -60°C		
Otaridard	OAB/3-*	on-off solenoid -power 3,5 W for Amb.T -60°C		
Temp. Amb.	OZAB-A-*	proportional solenoid without position transducer for Amb.T -60°C		
-60°C	MZAB-A-*	proportional solenoid without position transducer and without manual override for Amb.T - $60^{\circ}\text{C}$		
	OA/WP-*	on-off solenoid with protected manual override		
with protected	OA/3/WP-*	on-off solenoid with protected manual override - power 3,5W		
manual override	OZA-A-*/WP	proportional solenoid without position transducer and with protected manual override		
with protected	OAB/WP-*	on-off solenoid with protected manual override for Amb.T -60°C		
manual override	OAB/3/WP-*	on-off solenoid with protected manual override - power 3,5 W for Amb.T -60°C		
Temp. Amb. -60°C	OZAB-A-*/WP	proportional solenoid without position transducer and with protected manual override for Amb.T -60°C		
	OA/O-*	on-off solenoid with horizontal cable output		
	OA/3/O-*	on-off solenoid with horizontal cable output - power 3,5 W		
	OA/O/WP-*	on-off solenoid with protected manual override and horizontal cable output		
with horizontal	OA/3/O/WP-*	on-off solenoid with protected manual override, horizontal cable output - power 3,5 W		
cable output	OZA-A-*/O	proportional solenoid without position transducer and with horizontal cable output		
oable output	OZA-A-*/O/WP	proportional solenoid without position transducer, with protected manual override and horizontal cable output		
	MZA-A-*/O	proportional solenoid without position transducer, without manual override and with horizontal output cable		
	OAB/O-*	on-off solenoid with horizontal cable output for Amb.T -60°C		
	OAB/3/O-*	on-off solenoid with horizontal cable output - power 3,5 W for Amb.T -60°C		
	OAB/O/WP-*	on-off solenoid with protected manual override and horizontal cable output for Amb.T - 60°C		
with horizontal cable output	OAB/3/O/WP-*	on-off solenoid with protected manual override, horizontal cable output - power 3,5 W for Amb.T -60°C		
Temp. Amb.	OZAB-A-*/O	proportional solenoid without position transducer and with horizontal cable output for Amb.T -60°C		
-60°C	OZAB-A-*/O/WP	proportional solenoid without position transducer, with protected manual override and horizontal cable output for Amb.T -60°C		
	MZAB-A-*/O	proportional solenoid without position transducer, without manual override and with horizontal output cable for Amb.T -60°C		
	OAX/WP-*	stainless steel on-off solenoid – power 8W		
stainless steel	OAX/3/WP-*	stainless steel on-off solenoid – power 3,5W		
	OAKX/WP-*	stainless steel on-off solenoid – power 25W		
	OZAX-A-*/WP	stainless steel proportional solenoid without position transducer		
	MZAX-A-*	stainless steel proportional solenoid without position transducer and without manual override		
	OZAX-T-*	stainless steel proportional solenoid without position transducer and without manual override		
stainless steel	OABX/WP-*	stainless steel on-off solenoid – power 8W for Amb.T -60°C		
	OABX/3/WP-*	stainless steel on-off solenoid – power 3,5W for Amb.T -60°C		
Temp. Amb.	OABKX/WP-*	stainless steel on-off solenoid – power 25W for Amb.T -60°C		
-60°C	OZABX-A-*/WP	Stainless steel proportional solenoid without position transducer for Amb.T -60°C		





Prot: B9020746

IECEx CES 10.0010X Issue No.3 of 2019-10-21 Annex to certificate:

Applicant: ATOS S.p.A.

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

Explosion proof solenoids series OA-\*; OAB-\*; OZA-A\*; OZA-T\*; OZAB-**Electrical Apparatus:** 

A\*; MZA-A-\*; MZAB-A-\*; OA/O-\*; OAB/O-\*; OA/WP-\*; OAB/WP-\*; OA/O/WP-\*; OAB/O/WP-\*

(standard version, see product information for complete model types)

Stainless steel with horizontal cable output OAX/30/WP- Stainless steel on-off solenoid – power 3.5W with horizontal cable output OAX/30/WP- Stainless steel on-off solenoid – power 2.5W with horizontal cable output OAX/30/WP- Stainless steel on-off solenoid – power 2.5W with horizontal cable output OAX/30/WP- Stainless steel on-off solenoid – power 2.5W with horizontal cable output OAX/30/WP- Stainless steel proportional solenoid without position transducer and horizontal cable output OAX/30/WP- Stainless steel proportional solenoid without position transducer, without manual override and with horizontal cable output OARX/30/WP- Stainless steel on-off solenoid – power 3.5W with horizontal cable output OARX/30/WP- Stainless steel on-off solenoid – power 3.5W with horizontal cable output for Amb.T-60°C OARX/30/WP- Stainless steel on-off solenoid – power 3.5W with horizontal cable output for Amb.T-60°C OARX/30/WP- External stainless steel and internal standard on-off solenoid – power 3.5W with horizontal cable output for Amb.T-60°C OAX/33/WP- External stainless steel and internal standard on-off solenoid – power 3.5W oAX/33/WP- CAX/S-3/WP- External stainless steel and internal standard on-off solenoid – power 3.5W OAX/33/WP- CAX/S-3-WP- External stainless steel and internal standard on-off solenoid – power 3.5W OAX/S-3-WP- External stainless steel and internal standard on-off solenoid without position transducer and without manual override standard proportional solenoid without position transducer and without manual override standard on-off solenoid – power 3.5W of Amb.T-60°C OARS/3-WP- External stainless steel and internal standard on-off solenoid – power 8W of Amb.T-60°C OARS/3-WP- External stainless steel and internal standard on-off solenoid without position transducer and without manual override for Amb.T-60°C OARS/3-WP- External stainless steel and internal standard on-off solenoid – power 8W with horizontal cable output OAX/S-3-WP- External stainless steel and internal standard on-off solenoid – power 3.5W			Stainless steel proportional solenoid without position transducer and without manual		
Stainless steel on-off solenoid – power 3.5W with horizontal cable output  OAKX:0/WP- stainless steel on-off solenoid – power 25W with horizontal cable output  OAKX:0/WP- Stainless steel proportional solenoid without position transducer and horizontal cable output  OAKX:0/WP- Stainless steel proportional solenoid without position transducer, without manual override and with horizontal cable output or Amb.T-60°C  OAKX:0/WP- Stainless steel proportional solenoid with position transducer, without manual override and with horizontal cable output for Amb.T-60°C  OAKX:0/WP- Stainless steel on-off solenoid – power 3.5W with horizontal cable output for Amb.T-60°C  OAKS:WP- OAKX:0/WP- Stainless steel on-off solenoid – power 25W with horizontal cable output for Amb.T-60°C  OAXS:WP- OAKS:WP- OAXS:WP-  OAXS:WP-  OAXS:WP- OAXS:WP-  OAXS:WP		MZABX-A-*			
Stainless steel with noizontal cable output  MZAX-A-*/OWP  Stainless steel with noizontal cable output  MZAX-A-*/OWP  Stainless steel with noizontal cable output  MZAX-A-*/O  Stainless steel with noizontal cable output  OABX/OWP-*  Stainless steel with noizontal cable output  OABX/OWP-*  Stainless steel on-off solenoid – power 3W with horizontal cable output for Amb.T-60°C  OABX/OWP-*  Stainless steel on-off solenoid – power 3W with horizontal cable output for Amb.T-60°C  OABX/OWP-*  Stainless steel on-off solenoid – power 2SW with horizontal cable output for Amb.T-60°C  OABX/OWP-*  Stainless steel on-off solenoid – power 2SW with horizontal cable output for Amb.T-60°C  Stainless steel on-off solenoid – power 2SW with horizontal cable output for Amb.T-60°C  Stainless steel on-off solenoid – power 2SW with horizontal cable output for Amb.T-60°C  Stainless steel on-off solenoid – power 2SW with horizontal cable output for Amb.T-60°C  Stainless steel on-off solenoid – power 2SW with horizontal cable output for Amb.T-60°C  Stainless steel on-off solenoid – power 2SW with horizontal cable output for Amb.T-60°C  Stainless steel on-off solenoid – power 2SW with horizontal cable output for Amb.T-60°C  Stainless steel on-off solenoid – power 2SW with horizontal cable output for Amb.T-60°C  OAXS:3WP-*  External stainless steel and internal standard on-off solenoid – power 2SW with horizontal cable output for Amb.T-60°C  OAXS:3WP-*  External stainless steel and internal standard on-off solenoid – power 2SW with horizontal cable output for Amb.T-60°C  OAXS:3WP-*  External stainless steel and internal standard on-off solenoid – power 2SW for Amb.T-60°C  OAXS:3WP-*  OAXS:3WP-*  OAXS:3WP-*  OAXS:3WP-*  OAXS:3WP-*  External stainless steel and internal standard on-off solenoid – power 3SW or Amb.T-60°C  OAXS:3WP-*		OAX/O/WP-*	Stainless steel on-off solenoid – power 8W with horizontal cable output		
with horizontal cable output  AZX-A-*/OWP output  Stainless steel proportional solenoid without position transducer and horizontal cable output  AZX-A-*/O adatives and with horizontal cable output  AZX-A-*/O adatives and with horizontal cable output  AZX-A-*/O adatives and with horizontal cable output for Amb.T-60°C  ABX/OWP- Stainless steel on-off solenoid — power 35W with horizontal cable output for Amb.T-60°C  ABX/OWP- Stainless steel on-off solenoid — power 25W with horizontal cable output for Amb.T-60°C  AGXS/WP- External stainless steel on-off solenoid — power 25W with horizontal cable output for Amb.T-60°C  AGXS/WP- External stainless steel and internal standard on-off solenoid — power 8W  AXS-A-*/WP External stainless steel and internal standard on-off solenoid — power 25W  AXS-A-*/WP External stainless steel and internal standard on-off solenoid — power 25W  AXS-A-*/WP External stainless steel and internal standard proportional solenoid without position transducer and without manual override   External stainless steel and internal standard proportional solenoid without position transducer and without manual override   External stainless steel and internal standard proportional solenoid without position transducer and without manual override   External stainless steel and internal standard proportional solenoid without position transducer and without manual override   External stainless steel and internal standard on-off solenoid — power 8W for Amb.T - 60°C   ABXS/WP- External stainless steel and internal standard on-off solenoid — power 55W for Amb.T - 60°C   ABXS/3/WP- External stainless steel and internal standard on-off solenoid — power 55W for Amb.T - 60°C   ABXS/3/WP- External stainless steel and internal standard on-off solenoid — power 55W with horizontal cable output   AZXS-A-*/OWP External stainless steel and internal standard on-off solenoid — power 55W with horizontal cable output   AZXS-A-*/OWP External stainless steel and internal standard on-off solenoid — power 55W with horizontal cable		OAX/3/O/WP-*	Stainless steel on-off solenoid – power 3,5W with horizontal cable output		
Stainless steel with horizontal cable output  Stainless steel with horizontal cable output  Temp. Amb60°C  ASS/30/WP-  Stainless steel output  Temp. Amb60°C  ASS/30/WP-  Stainless steel output  Temp. Amb60°C  ASS/30/WP-  Stainless steel output  ASS/30/WP-  Stainless steel output  Temp. Amb60°C  ASS/30/WP-  Stainless steel on off solenoid – power 8W with horizontal cable output for Amb. T-60°C  ASS/30/WP-  Stainless steel on off solenoid – power 25W with horizontal cable output for Amb. T-60°C  ASS/30/WP-  Stainless steel on off solenoid – power 25W with horizontal cable output for Amb. T-60°C  Stainless steel on off solenoid – power 35W output for Amb. T-60°C  ASS/30/WP-  Stainless steel and internal standard on-off solenoid – power 8W  OXXS-A-*/WP  OXXS-A-*/WP  CAXS-A-*/WP  CAXS-A-*/WP  ASS/30/WP-  Stainless steel and internal standard on-off solenoid – power 25W oxxs-30°C  ASS/30/WP-  Statemal stainless steel and internal standard proportional solenoid without position transducer and without manual override  ASS/30/WP-  Statemal stainless steel and internal standard proportional solenoid without position transducer and without manual override  ASS/30/WP-  Statemal stainless steel and internal standard on-off solenoid – power 8W for Amb. T-60°C  OABXS/30/WP-  OASS/30/WP-  OASS/30/WP-  CAXS-A-*/WP  CAXS-A-*/WP  CAXS-A-*/WP  CAXS-A-*/WP  CAXS-A-*/WP  CAXS-A-*/WP  CAXS-A-*/WP  CAXS-A-*/OWP  CAXS-A-*/OWP  CAXS-A-*/OWP  CAXS-A-*/OWP-  OAXS/30/WP-  OAXS/30/WP-  CAXS-A-*/OWP  CAXS-A-	Stainless steel	OAKX/O/WP-*	stainless steel on-off solenoid – power 25W with horizontal cable output		
Stainless steel with horizontal cable output or Amb.T-60°C OABX/3/OWP-1 Stainless steel on-off solenoid – power 8W with horizontal cable output for Amb.T-60°C OABX/3/OWP-2 Stainless steel on-off solenoid – power 8W with horizontal cable output for Amb.T-60°C OABX/3/OWP-3 Stainless steel on-off solenoid – power 25W with horizontal cable output for Amb.T-60°C OABX/3/OWP-3 Stainless steel on-off solenoid – power 25W with horizontal cable output for Amb.T-60°C OAXS/WP-3 Stainless steel on-off solenoid on-off solenoid output for Amb.T-60°C OAXS/WP-3 External stainless steel and internal standard on-off solenoid – power 8W OAXS/3/WP-3 External stainless steel and internal standard on-off solenoid – power 3.5W OAXS/3/WP-3 External stainless steel and internal standard on-off solenoid – power 3.5W OAXS/3/WP-3 External stainless steel and internal standard on-off solenoid – power 3.5W OAXS/3/WP-3 External stainless steel and internal standard on-off solenoid – power 3.5W OAXS/3/WP-3 External stainless steel and internal standard on-off solenoid – power 3.5W OAXS/3/WP-3 External stainless steel and internal standard on-off solenoid – power 3.5W OAXS/3/WP-3 External stainless steel and internal standard on-off solenoid without position transducer and without manual override  External stainless steel and internal standard on-off solenoid – power 3.5W of Amb.T-60°C  OAXS/3/WP-3 External stainless steel and internal standard on-off solenoid – power 3.5W of Amb.T-60°C  OAXS/3/WP-3 External stainless steel and internal standard on-off solenoid – power 3.5W of Amb.T-60°C  OAXS/3/WP-3 External stainless steel and internal standard on-off solenoid – power 3.5W of Amb.T-60°C  OAXS/3/WP-3 External stainless steel and internal standard on-off solenoid without position transducer and without manual override and without position transducer and without manual		OZAX-A-*/O/WP	output		
Stainless steel with horizontal cable output for Amb.T -60°C OABX.GVMP-*  OAX.GVMP-*  OAX.GVMMP-*  OAX.GVMP-*  OAX		MZAX-A-*/O			
with horizontal cable output Temp. Amb., 60°C  ABKX/OWP-* Stainless steel on-off solenoid – power 35W with horizontal cable output for Amb.T. 60°C  ABKX/OWP-* Stainless steel on-off solenoid – power 25W with horizontal cable output for Amb.T. 60°C  ABKX/OWP-* Stainless steel on-off solenoid – power 25W with horizontal cable output for Amb.T. 60°C  ASKYWP-*  External stainless steel and internal standard on-off solenoid – power 35W  OAKSYWP-*  OAKSYWP-*  CAXS-A-*WP  External stainless steel and internal standard on-off solenoid – power 35W  OAKSYWP-*  OAKSYWP-*  CAXS-A-*WP  External stainless steel and internal standard on-off solenoid – power 35W  OAKSYWP-*  OAKSYWP-*  CAXS-A-*WP  External stainless steel and internal standard on-off solenoid without position transducer and without manual override  ACXS-A-*  External stainless steel and internal standard proportional solenoid without position transducer and without manual override  OAKSYWP-*  OAKSYWP-*  OAKSYWP-*  OAKSYWP-*  CASS-A-*/WP  CABS-A-*/WP  OAKSYWP-*  OAKSYWW	Stainless steel	OABX/O/WP-*			
Cable output Temp. Amb60°C  AXS/WP-*  DAXS/S/WP-*  CAXS/S/WP-*  CAX			Stainless steel on-off solenoid – power 3,5W with horizontal cable output for Amb.T -60°C		
Stainless steel proportional solenoid without position transducer, without manual override and with horizontal cable output for Amb.T - 60°C.  External stainless steel and internal standard on-off solenoid – power 8W OAXS/3/WP-* External stainless steel and internal standard on-off solenoid – power 25W OAXS-A-*/WP External stainless steel and internal standard on-off solenoid – power 25W OAXS-A-*/WP External stainless steel and internal standard proportional solenoid without position transducer and without manual override  External stainless steel, internal standard on-off solenoid – power 3.5W OAXS-A-*/WP External stainless steel and internal standard proportional solenoid without position transducer and without manual override  OABXS/WP-* External stainless steel and internal standard proportional solenoid without position transducer and without manual override  OABXS/WP-* External stainless steel and internal standard on-off solenoid – power 8W for Amb.T - 60°C  OABXS/3/WP-* External stainless steel and internal standard on-off solenoid – power 9.5W for Amb.T - 60°C  OABXS/3/WP-* External stainless steel and internal standard on-off solenoid – power 25W for Amb.T - 60°C  OAXS/3/WP-* External stainless steel and internal standard on-off solenoid – power 25W for Amb.T - 60°C  OAXS/3/WP-* External stainless steel and internal standard on-off solenoid – power 25W for Amb.T - 60°C  OAXS/3/WP-* External stainless steel and internal standard on-off solenoid – power 3.5W with horizontal cable output  External standard without manual override for Amb.T - 60°C  OAXS/3/WP-* External stainless steel and internal standard on-off solenoid – power 3.5W with horizontal cable output  External standard without manual override for Amb.T - 60°C  OAXS/3/WP-* External stainless steel and internal standard on-off solenoid – power 3.5W with horizontal cable output for Amb.T - 60°C  OAXS/3/WP-* External stainless steel and internal standard on-off solenoid – power 3.5W with horizontal cable output for Amb.T - 60°C  OAXS/3/WP-* Inter		OABKX/O/WP-*			
External stainless steel, internal standard on-off solenoid — power 3,5W OAKS:WP-* External stainless steel and internal standard on-off solenoid — power 25W Uransducer and without manual override or and or fiscenoid — power 3,5W for Amb.T - 60°C OABXS/3/WP-* External stainless steel and internal standard on-off solenoid — power 25W for Amb.T - 60°C OABXS/3/0/WP-* External stainless steel and internal standard on-off solenoid — power 25W for Amb.T - 60°C External stainless steel and internal standard proportional solenoid without position transducer and without manual override for Amb.T - 60°C OAXS/3/0/WP-* External stainless steel and internal standard on-off solenoid — power 8W with horizontal cable output OAXS/3/0/WP-* External stainless steel and internal standard on-off solenoid — power 3,5W with horizontal cable output or Amb.T - 60°C OABXS/3/0/WP-* External stainless steel and internal standard on-off solenoid — power 3,5W with horizontal cable output or Amb.T - 60°C OABXS/3/0/WP-* External stainless steel and internal standard on-off solenoid — power 3,5W with horizontal cable output for Amb.T - 60°C OABXS/3/0/WP-* External stainless steel and internal standard on-off solenoid — power 3,5W with horizontal cable output for Amb.T - 60°C OABXS/3/0/WP-* External stainless steel	Temp. Amb.	MZABX-A-*/O			
External stainless steel, internal standard on-off solenoid — power 3,5W OAKS:WP-* External stainless steel and internal standard on-off solenoid — power 25W Uransducer and without manual override or and or fiscenoid — power 3,5W for Amb.T - 60°C OABXS/3/WP-* External stainless steel and internal standard on-off solenoid — power 25W for Amb.T - 60°C OABXS/3/0/WP-* External stainless steel and internal standard on-off solenoid — power 25W for Amb.T - 60°C External stainless steel and internal standard proportional solenoid without position transducer and without manual override for Amb.T - 60°C OAXS/3/0/WP-* External stainless steel and internal standard on-off solenoid — power 8W with horizontal cable output OAXS/3/0/WP-* External stainless steel and internal standard on-off solenoid — power 3,5W with horizontal cable output or Amb.T - 60°C OABXS/3/0/WP-* External stainless steel and internal standard on-off solenoid — power 3,5W with horizontal cable output or Amb.T - 60°C OABXS/3/0/WP-* External stainless steel and internal standard on-off solenoid — power 3,5W with horizontal cable output for Amb.T - 60°C OABXS/3/0/WP-* External stainless steel and internal standard on-off solenoid — power 3,5W with horizontal cable output for Amb.T - 60°C OABXS/3/0/WP-* External stainless steel		OAXS/WP-*	External stainless steel and internal standard on-off solenoid – power 8W		
OAXXS/WP-* OZAS-A-*/WP  External stainless steel and internal standard proportional solenoid without position transducer and without manual override  OABXS/WP-*  OAXS/OWP-*  OAXS/					
External stainless steel, internal standard moderal stainless steel and internal standard proportional solenoid without position transducer and without manual override of moderal stainless steel and internal standard proportional solenoid without position transducer and without manual override of moderal stainless steel and internal standard proportional solenoid without position transducer and without manual override of moderal stainless steel, internal standard on-off solenoid – power 8W for Amb.T - 60°C OABXS/3WP-*    OABXS/3WP-*   OABXS/3WP-*   OABXS/3WP-*   OABXS/3WP-*   OABXS/3WP-*   OABXS/3WP-*   OABXS/3WP-*   OABXS/3WP-*   OABXS/3WP-*   OABXS/3WP-*   OABXS/3WP-*   OABXS/3WP-*   OABXS/3WP-*   OABXS/3WP-*   OABXS/3WP-*   OABXS/3WP-*   OAXS/3WP-*   OAXS/3WP					
transducer and without manual override    MZAS-A-*   External stainless steel and internal standard proportional solenoid without position transducer and without manual override    OABS/WP-*   External stainless steel and internal standard proportional solenoid with position transducer and without manual override    OABS/WP-*   External stainless steel and internal standard on-off solenoid – power 8W for Amb.T - 60°C   OABKS/3WP-*   External stainless steel and internal standard on-off solenoid – power 3,5W for Amb.T - 60°C   OABKS/3WP-*   External stainless steel and internal standard on-off solenoid – power 25W for Amb.T - 60°C   OABKS/3/WP-*   External stainless steel and internal standard proportional solenoid without position transducer and without manual override for Amb.T - 60°C   OAXS/O/WP-*   External stainless steel and internal standard on-off solenoid – power 8W with horizontal cable output   OAXS/3/OWP-*   External stainless steel and internal standard on-off solenoid – power 8W with horizontal cable output   OAXS/3/OWP-*   External stainless steel and internal standard on-off solenoid – power 8W with horizontal cable output   OAXS/3/OWP-*   External stainless steel and internal standard on-off solenoid – power 3,5W with horizontal cable output   OAXS/3/OWP-*   External stainless steel and internal standard on-off solenoid – power 3,5W with horizontal cable output   OAXS/3/OWP-*   External stainless steel and internal standard on-off solenoid – power 3,5W with horizontal cable output   OAXS/3/OWP-*   External stainless steel and internal standard proportional solenoid without position transducer and without manual override and with horizontal cable output   OAXS/3/OWP-*   OA	External				
MZAXS-A-*   External stainless steel and internal standard proportional solenoid without position transducer and without manual override		OZAXS-A-*/WP			
External stainless steel, internal standard on-Off solenoid — power BW for Amb.T - 60°C  OABXS/WP-*  External stainless steel and internal standard on-off solenoid — power 3,5W for Amb.T - 60°C  OABXS/3/WP-*  External stainless steel and internal standard on-off solenoid — power 25W for Amb.T - 60°C  OZABXS-A-*/WP  External stainless steel and internal standard on-off solenoid — power 25W for Amb.T - 60°C  MZABXS-A-*  External stainless steel and internal standard proportional solenoid without position transducer and without manual override for Amb.T - 60°C  OAXS/O/WP-*  External stainless steel and internal standard on-off solenoid — power 8W with horizontal cable output  OAXS/3/OWP-*  OAXS/3/OWP-*  External stainless steel and internal standard on-off solenoid — power 3,5W with horizontal cable output  OAXS/3/OWP-*  OAXS/3/OWP-*  OAXS/3/OWP-*  OAXS/3/OWP-*  OAXS/3/OWP-*  External stainless steel and internal standard on-off solenoid — power 3,5W with horizontal cable output  MZAXS-A-*/O  OAXS/OWP-*  OAXS/3/OWP-*  OAXS/3/OWP-*  CARTAL Stainless steel and internal standard on-off solenoid — power 25W with horizontal cable output  External stainless steel and internal standard proportional solenoid without position transducer and without manual override and with horizontal cable output  External stainless steel and internal standard proportional solenoid without position transducer and without manual override and with horizontal cable output  External stainless steel and internal standard on-off solenoid — power 3,5W with horizontal cable output for Amb.T -60°C  OABXS/OWP-*  OABXS/OWP-*  OABXS/OWP-*  OABXS/OWP-*  OABXS/OWP-*  OABXS/OWP-*  OABXS/OWP-*  OAWWP-*  Internal stainless steel and internal standard proportional solenoid without position transducer and with horizontal cable output for Amb.T -60°C  OAWW/WP-*  Internal stainless steel and internal standard proportional solenoid without position transducer and without manual override and with horizontal cable output for Amb.T -60°C  OAWW/WP-*  Internal stain	,	MZAXS-A-*			
External stainless steel, internal standard DABXS/3/WP-*    External stainless steel and internal standard on-off solenoid – power 3,5W for Amb.T - 60°C    OABKXS/WP-*   External stainless steel and internal standard on-off solenoid – power 25W for Amb.T - 60°C    OZABXS-A-*/WP   External stainless steel and internal standard proportional solenoid without position transducer and without manual override for Amb.T - 60°C    OAXS/O/WP-*   External stainless steel and internal standard proportional solenoid without position transducer and without manual override for Amb.T - 60°C    External stainless steel and internal standard on-off solenoid – power 8W with horizontal cable output    OAXS/O/WP-*   External stainless steel and internal standard on-off solenoid – power 8W with horizontal cable output    OAXS/O/WP-*   External stainless steel and internal standard on-off solenoid – power 25W with horizontal cable output    OAXS/O/WP-*   External stainless steel and internal standard on-off solenoid – power 25W with horizontal cable output    External stainless steel and internal standard proportional solenoid without position transducer and with horizontal cable output    External stainless steel and internal standard proportional solenoid without position transducer and with horizontal cable output    External stainless steel and internal standard on-off solenoid – power 8W with horizontal cable output for Amb.T - 60°C    OABXS/O/WP-*   External stainless steel and internal standard on-off solenoid – power 3,5W with horizontal cable output for Amb.T - 60°C    OABXS/O/WP-*   External stainless steel and internal standard on-off solenoid – power 3,5W with horizontal cable output for Amb.T - 60°C    OABXS/O/WP-*   External stainless steel and internal standard proportional solenoid without position transducer and without manual override and with horizontal cable output for Amb.T - 60°C    OAXW/WP-*   Internal stainless steel and internal standard proportional solenoid without position transducer and without manual ove		OZAXS-T-*	transducer and without manual override		
stainless steel, internal standard  Temp. Amb60°C  OABKXS/WP-*  DABKS-A-*/WP  External stainless steel and internal standard proportional solenoid without position transducer and without manual override for Amb.T -60°C  External stainless steel, and internal standard proportional solenoid without position transducer and without manual override for Amb.T -60°C  OAXS/O/WP-*  External stainless steel and internal standard proportional solenoid without position transducer and without manual override for Amb.T -60°C  OAXS/O/WP-*  External stainless steel and internal standard on-off solenoid – power 8W with horizontal cable output  OAXS/O/WP-*  OAXW/WP-*  Internal stainless steel and external standard on-off solenoid – power 8W  OAXW/WP-*  OAXW/WP-*  OAXW/WP-*  OAXW/WP-*  Internal stainless steel and external standard on-off solenoid – power 8W  OAXW/WP-*  OAXW/WP-*  Internal stainless steel and external standard on-off solenoid – power 8W  OAXW/WP-*  Internal stainless steel and external standard on-off solenoid – power 8W  Internal stainless steel and external standard on-off solenoid – power 8W  Internal stainless steel and external standar		OABXS/WP-*			
Temp. Amb60°C  OZABXS-A-*/WP  MZABXS-A-*  External stainless steel and internal standard proportional solenoid without position transducer and without manual override for Amb.T -60°C  OAXS/O/WP-*  External stainless steel and internal standard proportional solenoid without position transducer and without manual override for Amb.T -60°C  OAXS/O/WP-*  OAXS/OWP-*  OAXS/OWP-*  OAX		OABXS/3/WP-*	60°C		
Texternal stainless steel, internal standard with horizontal stainless steel, internal standard with horizontal stainless steel, internal standard with horizontal cable output  External stainless steel, internal standard on-off solenoid — power 8W with horizontal cable output  External stainless steel, internal standard on-off solenoid — power 8W with horizontal cable output  External stainless steel and internal standard on-off solenoid — power 25W with horizontal cable output  External stainless steel and internal standard on-off solenoid — power 25W with horizontal cable output  External stainless steel and internal standard on-off solenoid — power 25W with horizontal cable output  External stainless steel and internal standard proportional solenoid without position transducer and with horizontal cable output  External stainless steel, internal standard  With horizontal cable output  OABXS/O/WP-*  OABXS-A-*/O  MZABXS-A-*/O  MZABXS-A-*/O  MZABXS-A-*/O  OAXW/WP-*  Internal stainless steel and internal standard on-off solenoid — power 25W with horizontal cable output for Amb.T -60°C  OAXW/WP-*  OAXW/WP-*  Internal stainless steel and internal standard proportional solenoid without position transducer and with horizontal cable output for Amb.T -60°C  OAXW/WP-*  Internal stainless steel and internal standard on-off solenoid — power 25W  Internal stainless steel and external standard on-off solenoid — power 25W  Internal stainless steel and external standard proportional solenoid without position transducer and without manual override and with horizontal cable output for Amb.T -60°C  OAXW/WP-*  Internal stainless steel and external standard on-off solenoid — power 25W  Internal stainless steel and external standard proportional solenoid without position transducer and without position transducer and without position transducer and external standard	internal standard	OABKXS/WP-*			
transducer and without manual override for Amb.T-60°C  External stainless steel and internal standard on-off solenoid – power 8W with horizontal cable output  External stainless steel and internal standard on-off solenoid – power 3,5W with horizontal cable output  OAKXS/O/WP-*  DAKXS/O/WP-*  DABXS/O/WP-*  DAXW/JAWP-*  DAXW/JAWP-*  DAXW/JAWP-*  DAXW/JAWP-*  DAXW/WP-*  DAXW/JAWP-*  DAXW/JAWP-*  DAXW/JAWP-*  DAXW/JAWP-*  DAXW/JAWP-*  DAXW/JAWP-*  DAXW/JAWP-*  DAXW/JAWP-*  DITEMBLISHESS Steel and external standard proportional solenoid without position transducer and with horizontal cable output for Amb.T -60°C  DAXW/WP-*  DAXW/JAWP-*  DAXW/JAWP-*  DITEMBLISHESS STEEL AND External standard on-off solenoid – power 25W  DAXW/JAWP-*  DAXW/JAWP-*  DAXW/JAWP-*  DITEMBLISHESS STEEL AND External standard on-off solenoid – power 25W  DAXW/JAWP-*  DAXW/JAWP-*  DITEMBLISHESS STEEL AND External standard on-off solenoid – power 25W  DAXW/JAWP-*  DITEMBLISHESS STEEL AND External standard on-off solenoid – power 25W  DAXW/JAWP-*  DITEMBLISHESS STEEL AND External standard on-off solenoid – power 25W  DAXW/JAWP-*  DITEMBLISHESS STEEL AND External standard on-off solenoid – power 25W  DAXW/JAWP-*  DAXW/JAWP-*  DITEMBLISHESS STEEL AND External standard on-off solenoid – power 25W  DAXW/JAWP-*  DAXW/JAWP-*  DAXW/JAWP-*  DITEMBLISHESS STEEL AND External standard on-off solenoid – power 25W		OZABXS-A-*/WP	transducer for Amb.T -60°C		
External stainless steel, internal standard with horizontal cable output  OAXS/3/O/WP-*  OAKXS/O/WP-*  OABXS/O/WP-*  OABXS/O/WP-		MZABXS-A-*			
Stainless steel, internal standard with horizontal cable output		OAXS/O/WP-*	External stainless steel and internal standard on-off solenoid – power 8W with horizontal		
cable output    Cable output   Cable output	External	OAXS/3/O/WP-*	·		
transducer and with horizontal cable output  External stainless steel and internal standard proportional solenoid without position transducer and without manual override and with horizontal cable output  External stainless steel, internal standard with horizontal cable output for Amb.T -60°C  OABXS/O/WP-*  OABXS/O/WP-*  CABXS/O/WP-*  OABXS/O/WP-*  OABXS/O/WP-*  Temp. Amb60°C  OZABXS-A- */O/WP  MZABXS-A-*/O  MZABXS-A-*/O  MZABXS-A-*/O  Internal stainless steel and internal standard on-off solenoid – power 3,5W with horizontal cable output for Amb.T -60°C  external stainless steel and internal standard on-off solenoid – power 25W with horizontal cable output for Amb.T -60°C  external stainless steel and internal standard proportional solenoid without position transducer and with horizontal cable output for Amb.T -60°C  OAXW/WP-*  Internal stainless steel and external standard on-off solenoid – power 8W  OAXW/3/WP-*  OAXW/3/WP-*  OAXW/3/WP-*  OAXW/WP-*  Internal stainless steel and external standard on-off solenoid – power 3,5W  OAXW/WP-*  OAXW/A-*  Internal stainless steel and external standard on-off solenoid – power 3,5W  OAXW-A-*/WP  internal stainless steel and external standard on-off solenoid – power 25W  internal stainless steel and external standard proportional solenoid without position transducer  internal stainless steel and external standard proportional solenoid without position transducer  internal stainless steel and external standard proportional solenoid without position transducer  internal stainless steel and external standard proportional solenoid without position transducer  internal stainless steel and external standard proportional solenoid without position transducer  internal stainless steel and external standard proportional solenoid without position transducer  internal stainless steel and external standard proportional solenoid without position transducer		OAKXS/O/WP-*			
External stainless steel, internal stainless  BEXENDAME  COABXS/O/WP-*  COABXS/O/		OZAXS-A-*/O/WP			
Cable output for Amb.T -60°C  OABXS/3/O/WP-*  OABXS/3/O/WP-*  OABXS/3/O/WP-*  Cable output for Amb.T -60°C  External stainless steel and internal standard on-off solenoid – power 3,5W with horizontal cable output  OABXS/3/O/WP-*  OABXS/3/O/WP-*  OABXS/3/O/WP-*  OABXS/3/O/WP-*  OABXS/3/O/WP-*  OABXS/O/WP-*  OABXS/O/WP-*  OABXS/O/WP-*  OABXS/O/WP-*  OABXS/O/WP-*  OABXS/O/WP-*  OABXS-A- */O/WP  MZABXS-A-*/O  MZABXS-A-*/O  MZABXS-A-*/O  OAXW/WP-*  OAXW/WP-*  OAXW/3/WP-*  OAXW/3/WP-*  OAXW/3/WP-*  OAXW/3/WP-*  OAXW/WP-*  OAXW/3/WP-*  OAXW/WP-*  OAXW/3/WP-*  OAXW/WP-*  OAXW/WP-*  OAXW/A-*  Internal stainless steel and external standard on-off solenoid – power 3,5W  Internal stainless steel and external standard on-off solenoid – power 3,5W  Internal stainless steel and external standard on-off solenoid – power 3,5W  Internal stainless steel and external standard on-off solenoid – power 3,5W  Internal stainless steel and external standard on-off solenoid – power 3,5W  Internal stainless steel and external standard on-off solenoid – power 3,5W  Internal stainless steel and external standard on-off solenoid – power 25W  Internal stainless steel and external standard proportional solenoid without position transducer  Internal stainless steel and external standard proportional solenoid without position transducer  Internal stainless steel and external standard proportional solenoid without position transducer  Internal stainless steel and external standard proportional solenoid without position transducer		MZAXS-A-*/O			
internal standard with horizontal cable output  OABKXS/O/WP-*  OABKXS/O/WP-*  OABKXS/O/WP-*  OZABXS-A- */O/WP  MZABXS-A-*/O  Internal stainless steel and internal standard on-off solenoid — power 25W with horizontal cable output for Amb.T -60°C  OZABXS-A- */O/WP  MZABXS-A-*/O  MZABXS-A-*/O  OAXW/WP-*  OAXW/WP-*  OAXW/WP-*  Internal stainless steel and internal standard proportional solenoid without position transducer and with horizontal cable output for Amb.T -60°C  OAXW/WP-*  OAXW/WP-*  OAXW/3/WP-*  Internal stainless steel and external standard on-off solenoid — power 8W  OAXW/WP-*  OAKXW/WP-*  Internal stainless steel and external standard on-off solenoid — power 3,5W  OAKXW/WP-*  OAKXW/WP-*  Internal stainless steel and external standard on-off solenoid — power 25W  internal stainless steel and external standard proportional solenoid without position transducer  internal stainless steel and external standard proportional solenoid without position transducer  internal stainless steel and external standard proportional solenoid without position transducer  internal stainless steel and external standard proportional solenoid without position transducer  internal stainless steel and external standard proportional solenoid without position transducer  Internal stainless steel and external standard proportional solenoid without position transducer	stainless steel, internal standard with horizontal cable output Temp. Amb.	OABXS/O/WP-*			
cable output  Cable output for Amb.T -60°C  OZABXS-A-  */O/WP  MZABXS-A-*/O  MZABXS-A-*/O  Internal stainless steel and internal standard proportional solenoid without position transducer and with horizontal cable output for Amb.T -60°C  external stainless steel and internal standard proportional solenoid without position transducer and without manual override and with horizontal cable output for Amb.T -60°C  OAXW/WP-*  Internal stainless steel and external standard on-off solenoid – power 8W  OAXW/3/WP-*  Internal stainless steel and external standard on-off solenoid – power 3,5W  OAKXW/WP-*  Internal stainless steel and external standard on-off solenoid – power 25W  internal stainless steel and external standard proportional solenoid without position transducer  internal stainless steel and external standard proportional solenoid without position standard proportional solenoid without position transducer		OABXS/3/O/WP-*	horizontal cable output for Amb.T -60°C		
Temp. Amb60°C  MZABXS-A-*/O  MZAXW/WP-*  Internal stainless steel and external standard on-off solenoid — power 8W  Internal stainless steel and external standard on-off solenoid — power 3,5W  OAKXW/WP-*  Internal stainless steel and external standard on-off solenoid — power 25W  Internal stainless steel and external standard proportional solenoid without position transducer  MZAXW-A-*  Internal stainless steel and external standard proportional solenoid without position transducer  Internal stainless steel and external standard proportional solenoid without position transducer			cable output for Amb.T -60°C		
transducer and without manual override and with horizontal cable output for Amb.T -60°C  OAXW/WP-*  Internal stainless steel and external standard on-off solenoid – power 8W  OAXW/3/WP-*  Internal stainless steel and external standard on-off solenoid – power 3,5W  OAKW/WP-*  Internal stainless steel and external standard on-off solenoid – power 25W  Internal stainless steel and external standard proportional solenoid without position transducer  Internal stainless steel and external standard proportional solenoid without position transducer			transducer and with horizontal cable output for Amb.T -60°C		
Internal stainless Steel, external standard  OZAXW-A-*/WP  Internal stainless steel and external standard on-off solenoid – power 8W  Internal stainless steel and external standard on-off solenoid – power 3,5W  OAKXW/WP-*  Internal stainless steel and external standard on-off solenoid – power 25W  Internal stainless steel and external standard proportional solenoid without position transducer  Internal stainless steel and external standard proportional solenoid without position standard proportional solenoid without position		MZABXS-A-*/O			
Internal stainless steel, external standard  OZAXW-A-*/WP  Internal stainless steel and external standard on-off solenoid – power 25W  internal stainless steel and external standard proportional solenoid without position transducer  Internal stainless steel and external standard proportional solenoid without position standard proportional solenoid without position	steel, external				
steel, external standard standard proportional solenoid without position transducer  Internal stainless steel and external standard proportional solenoid without position transducer  Internal stainless steel and external standard proportional solenoid without position standard proportional solenoid without position			Internal stainless steel and external standard on-off solenoid – power 3,5W		
steel, external standard proportional solenoid without position transducer  Internal stainless steel and external standard proportional solenoid without position transducer  Internal stainless steel and external standard proportional solenoid without position internal stainless steel and external standard proportional solenoid without position		OAKXW/WP-*			
internal stainless steel and external standard proportional solenoid without position		OZAXW-A-*/WP	· ·		
		MZAXW-A-*			





Prot: B9020746

IECEx CES 10.0010X Issue No.3 of 2019-10-21 Annex to certificate:

Applicant: ATOS S.p.A.

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

Explosion proof solenoids series OA-\*; OAB-\*; OZA-A\*; OZA-T\*; OZAB-**Electrical Apparatus:** 

A\*; MZA-A-\*; MZAB-A-\*; OA/O-\*; OAB/O-\*; OA/WP-\*; OAB/WP-\*;

OA/O/WP-\*; OAB/O/WP-\*

(standard version, see product information for complete model types)

	OZAXW-T-*	internal stainless steel and external standard proportional solenoid with position transducer and without manual override			
	OABXW/WP-*	Internal stainless steel and external standard on-off solenoid – power 8W for Amb.T - 60°C			
Internal stainless steel, external	OABXW/3/WP-*	Internal stainless steel and external standard on-off solenoid – power 3,5W for Amb.T - 60°C			
standard	OABKXW/WP-*	Internal stainless steel and external standard on-off solenoid – power 25W for Amb.T - 60°C			
Temp. Amb. -60°C	OZABXW-A-*/WP	internal stainless steel and external standard proportional solenoid without position transducer for Amb.T -60°C			
	MZABXW-A-*	internal stainless steel and external standard proportional solenoid without position transducer and without manual override for Amb.T -60°C			
	OAXW/O/WP-*	internal stainless steel and external standard on-off solenoid – power 8W with horizontal cable output			
Internal stainless	OAXW/3/O/WP-*	Internal stainless steel and external standard on-off solenoid – power 3,5W with horizontal cable output			
steel, external standard with	OAKXW/O/WP-*	Internal stainless steel and external standard on-off solenoid – power 25W with horizontal cable output			
horizontal cable output	OZAXW-A-*/O/WP	Internal stainless steel and external standard proportional solenoid without position transducer and with horizontal cable output			
	MZAXW-A-*/O	Internal stainless steel and external standard proportional solenoid without position transducer and without manual override and with horizontal cable output			
Internal stainless	OABXW/O/WP-*	internal stainless steel and external standard on-off solenoid – power 8W with horizontal cable output for Amb.T -60°C			
steel, external standard with horizontal cable output	OABXW/3/O/WP-*	Internal stainless steel and external standard on-off solenoid – power 3,5W wit horizontal cable output for Amb.T -60°C			
	OABKXW/O/WP-*	Internal stainless steel and external standard on-off solenoid – power 25W with horizontal cable output for Amb.T -60°C			
Temp. Amb.	OZABXW-A- */O/WP	Internal stainless steel and external standard proportional solenoid without position transducer and with horizontal cable output for Amb.T -60°C			
-60°C	MZABXW-A-*/O	Internal stainless steel and external standard proportional solenoid without position transducer and without manual override and with horizontal cable output for Amb.T -60°C			

# **Electrical characteristics**

Rated voltage: 12 / 220 Vdc, 12/240 Vac (depending of the models)

Rated power: 3,5 / 35 W (depending of the models)

Ambient temperature range:

from  $-60^{\circ}$ C /  $-40^{\circ}$ C to  $+40^{\circ}$  /  $+45^{\circ}$ C /  $+50^{\circ}$ C /  $+55^{\circ}$ C /  $+60^{\circ}$ C /  $+70^{\circ}$ C (depending of the model)

Degree of protection: IP 66/67 (IEC 60529)

# Max ambient temperature, temperature class, surface temperature, connecting cable temperature

Solenoid typ	T amb. Max ambient temperature (°C)	Connecting cable temperature (°C)	Temperature class / surface temperature	
OA, OA/3,	OAX/WP, OAX/3/WP	70	90	T4 / T135°C
OA/O, OA/3/O, OA/WP, OA/3/WP, OA/O/WP, OA/3/O/WP	OAX/O/WP, OAX/3/O/WP OAXS/WP, OAXS/3/WP OAXS/O/WP, OAXS/3/O/WP OAXW/WP, OAXW/3/WP OAXW/O/WP, OAXW/3/O/WP	45	-	T6 / T85°C
	OAKX/WP	70	130	
-	OAKX/O/WP	60	120	T3 / 200°C
	OAKXS/WP	50	110	





Prot: B9020746

IECEx CES 10.0010X Issue No.3 of 2019-10-21 Annex to certificate:

Applicant: ATOS S.p.A.

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

Explosion proof solenoids series OA-\*; OAB-\*; OZA-A\*; OZA-T\*; OZAB-**Electrical Apparatus:** 

A\*; MZA-A-\*; MZAB-A-\*; OA/O-\*; OAB/O-\*; OA/WP-\*; OAB/WP-\*;

OA/O/WP-\*; OAB/O/WP-\*

(standard version, see product information for complete model types)

	OAKXS/O/WP OAKXW/WP OAKXW/O/WP	45	100	T4 / T135°C
	OZAX-A/WP	70	120	T3 / 200°C
OZA-A	OZAX-A/O/WP	55	110	13 / 200 0
OZA-A/O	OZAXS-A/WP	45	95	
OZA-A/WP OZA-A/O/WP	OZAXS-A/O/WP OZAXW-A/WP OZAXW-A/O/WP	40	90	T4 / T135°C
1470.0	MZAX-A, MZAX-A/O,	70	120	T3 / 200°C
MZA-A	MZAXS-A, MZAXS-A/O,	45	90	T4 / T135°C
MZA-A/O	MZAXW-A, MZAXW-A/O	55	110	T3 / 200°C
OZA-T		70	120	T3 / T200 °C
OZA-1	OZAX-T, OZAXS-T, OZAXW-T	40	90	T4 / T135 °C
Solenoid type ( <b>for Min T.Amb -60°C)</b>		T amb. Max ambient temperature (°C)	Connecting cable temperature (°C)	Temperature class / surface temperature
	OABX/WP, OABX/3/WP	70	90	T4 / T135°C
OAB, OAB/3, OAB/O, OAB/3/O, OAB/WP, OAB/3/WP, OAB/O/WP, OAB/3/O/WP	OABX/O/WP, OABX/3/O/WP OABXS/WP, OABXS/3/WP OABXS/O/WP, OABXS/3/O/WP OABXW/WP, OABXW/3/WP OABXW/O/WP, OABXW/3/O/WP	45	-	T6 / T85°C
	OABKX/WP	70	130	
	OABKX/O/WP OABKXS/WP	60	120	T3 / 200°C
_		50	110	
	OABKXS/O/WP OABKXW/WP OABKXW/O/WP	45	100	T4 / T135°C
	OZABX-A/WP	70	120	T3 / 200°C
OZAB-A	OZABX-A/O/WP	55	110	13 / 200 0
OZAB-A/O	OZABXS-A/WP	45	95	
OZAB-A/WP OZAB-A/O/WP	OZABXS-A/O/WP OZABXW-A/WP OZABXW-A/O/WP	40	90	T4 / T135°C
1474D 4	MZABX-A, MZABX-A/O,	70	120	T3 / 200°C
MZAB-A MZAB-A/O	MZABXS-A, MZABXS-A/O,	45	90	T4 / T135°C
IVIZAD-A/U	MZABXW-A, MZABXW-A/O	55	110	T3 / 200°C

## Cable entries

The cable entry devices used on the enclosure shall be suitably certified according to the applicable standards. For the equipment with dust protection "tb" the accessories used for cable entries and for unused holes shall guarantee the degree of protection IP66/67 according to IEC 60529 standard.

# Warning label

"Warning - do not open when energized"

"For the correct selection of connecting cable temperatures see safety instructions"