ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CERTIFICADO ◆ СЕРТИФИКАТ ◆ CERTIFICAT

CERTIFICATE

TÜV Italia

[1] EU-TYPE EXAMINATION CERTIFICATE

[2] **Equipment or Protective System intended for use in potentially explosive atmospheres Directive 2014/34/EU**

[3] EU-Type Examination Certificate number:

TÜV IT 18 ATEX 068 X Rev.1

[4] Equipment or Protective System: Proportional valve with integrated electronics mod. OZA-***-*

[5] Manufacturer: ATOS S.p.a.

[6] Address: Via Alla Piana, 57
I-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] TÜV Italia, notified body no. 0948 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. R 18 EX 049

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018; EN 60079-1:2014; EN 60079-31:2014

[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 EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

II 2G Ex db IIC T6…T4 Gb
II 2D Ex tb IIIC T85°C…T135°C Db

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

Issue date: 28th April 2020

ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

PRD N° 081B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

TÜV Italia Srl Industrie Service 09 48 Notified Body

TÜV Italia S.r.l.
Notified body N° 0948

Alberto Carelli
Industry Service - Real Estate & Infrastructure
Managing Director

TÜV Italia has been authorized by Italian government to operate as notified body for the certification of equipment or protective system intended for use in potentially explosive atmospheres. This document is not valid without official signature and logo. The internal reference code is 722209534.

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[13] **SCHEDULE**

[14] **EU-TYPE EXAMINATION CERTIFICATE**
No. TÜV IT 18 ATEX 068 X Rev.1

Certificate History

Revision	Description	Report Revision	Issue Date
-	First emission	-	02/04/2019
1	Minor changes on drawings; standard updated	1	28/04/2020

[15] **Description of equipment**

The equipment is a proportional solenoid with integrated digital electronics used to operate directional control, flow control and pressure control valves, swash plate control of variable displacement pump.
The following versions with the relevant model code of equipment are available:
(see instruction manual for detailed description of option codes below listed)

The solenoids have types of codes: **OZA-(1)-(2)-(3)/(4)**

(1) **OZA-AES-*** used for open loop valves, without transducer
OZA-RES-* used for closed loop valves, predisposed to be coupled with an external pressure transducer external to the solenoid for pressure control
OZA-TES-* used for closed loop valves with position transducer
OZA-LES-* used for closed loop two stages valves with position transducer and predisposed to be coupled with an external position transducer external to the solenoid
OZA-TEZ-* used for closed loop valves with position transducer for axis control
OZA-LEZ-* used for closed loop two stages valves with position transducer and predisposed to be coupled with an external position transducer external to the solenoid for axis control
OZA-PES-* used for closed loop valves with position transducer for pump control

(2) **-NP** with USB connection only
-BC additional CAN-Bus communication interface
-BP additional PROFIBUS DP communication interface
-EH additional EtherCAT communication interface
-EI additional EtherNet/IP communication interface
-EP additional PROFINET IRT communication interface
-EW additional POWERLINK communication interface

(3) -**01** for single solenoid valve
-05 for double solenoid valve

(4) **-** output with thread M20 x 1,5 UNI 4535
/NPT output with thread 1/2” NPT ANSI B2.1 (ANSI/ASME B1.20.1)
/GK output with thread GK-1/2” (Annex 1 CEI EN 60079-1 2008-11) only for national market
/M18 output with thread M18 x 0,75 ISO 261

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For the OZA-RES, OZA-LES, OZA-LEZ and OZA-PES versions, the external position transducer and the external pressure transducer are not included in this certification.

Additional communication interfaces could be introduced, maintaining the same mechanical and electrical features.

Rated characteristics

Operating ambient temperature range	-40°C to +70°C (* see Table 2)
Protection degree	IP66 / IP67
Power supply / Consumption	$24V_{DC}$ +/- 10% stabilized 35W, Imax = 2.75A PWM square wave type
Output protection	Against short circuit
Insulation class of the coil	class H
Electrical connection	36 poles terminal block, threaded cable entrance is provided with cylindrical thread M20x1,5. (other optional threads available).

Table 1

Solenoid type	T amb. max	Temperature class
OZA-AES-** OZA-RES-** OZA-TES-**	+40°C	T6
OZA-LES-** OZA-TEZ-**	+55°C	T5
OZA-LEZ-** OZA-PES-**	+70°C	T4

Table 2

Warning label

DO NOT OPEN WHEN ENERGIZED
USE FASTENERS WITH QUALITY 8.8 ISO 898-1
FOR CABLE SELECTION: SEE INSTRUCTIONS

[16] **Report no.** R 18 EX 049

[13] **SCHEDULE**

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Routine tests

None.

[17] **Special conditions for safe use**

1. The device intended for use with ambient temperature up to 40°C and 55°C shall be feed with cable whose thermal stability is not less than 80°C and 90°C respectively. The device intended for use with ambient temperature up to 70°C shall be feed with cable whose thermal stability is not less than 110°C

2. The dimensions of the joints are different from those indicated in the reference standards. The flameproof joints are not intended to be repaired by the user.

[18] **Essential Health and Safety Requirements**

Assured by compliance with the standards set out in the [9].

[19] **Drawings and Documents**

Listed documents (prot. 722161806 + 722209534)

Title:	Description:	Pages:	Rev:	Date:
SAS-593-D-0	Technical note ATEX	4	-	17/05/2019
TT-373	Safety instructions	6	-	17/05/2019
TT-374	Example of EU Declaration of conformity ATEX	1	-	17/05/2019
21396	DWG: Wirings layout and connection interfaces	5	-	-
A6-OZAAES-200000-I-EN	DWG: Solenoid	1	5	20/03/2020
A6-OZAAES-200001-I-EN	DWG: Solenoid (with dimensional joints table)	1	4	20/03/2020
A6-OZAAES-200010-I-EN	DWG: Shell	1	2	16/03/2020
A6-OZATES-200000-I-EN	DWG: Solenoid	1	6	20/03/2020
A6-OZATES-200001-I-EN	DWG: Solenoid (with dimensional joints table)	1	4	20/03/2020

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A6-OZATES-200010-I-EN	DWG: Shell	1	3	16/03/2020
A10-ERITEA-200011-I-EN	DWG: Housing	1	6	13/03/2020
A10-ERITEA-200013-I-EN	DWG: Cover (6 holes)	1	2	04/03/2019
A10-ERITEA-201013-I-EN	DWG: Cover (3 holes)	1	5	04/09/2019
AT-1190	DWG: Nameplate	1	4	17/03/2020

One copy of all documents is kept in TÜV Italia files.