IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx ETL 16.0014X

Issue No: 1

Certificate history:
Issue No. 1 (2018-10-04)
Issue No. 0 (2017-03-28)

Status: **Current**

Date of Issue: **2018-10-04**

Applicant: **Tolomatic, Inc.**
3800 County Road 116
Hamel, MN 55340
United States of America

Equipment: **Linear Actuator**

Optional accessory:

Type of Protection: **Flameproof 'd'**

Marking:

Ex db IIB T4 Gb

Ta -40°C to +60°C

IECEx ETL 16.0014X

Approved for issue on behalf of the IECEx Certification Body: Todd L. Relyea

Position: Certification Officer

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

Intertek
165 Main Street
Cortland NY 13045-2995
United States of America

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Manufacturer:	**Tolomatic, Inc.** 3800 County Road 116 Hamel, MN 55340 **United States of America**	

Additional Manufacturing location(s):

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 apparatus 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

*This Certificate **does not** indicate compliance with electrical 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 Report:

US/ETL/ExTR16.0021/00 US/ETL/ExTR16.0021/01

Quality Assessment Report:

GB/ITS/QAR17.0001/01

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

ServoChoke® SVC 7k and SVC 15k are integrated electromechanical servomotor driven linear actuators
Refer to annex for equipment description, manufacturer's documents, model nomenclature, and ratings.

Routine Tests

- None

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Field repair of flame paths is prohibited. Return to manufacturer for repair and maintenance.
2. Fasteners used to retain the flameproof enclosure are A4-70 Stainless Steel Socket Cap Machine Screws (Tensile strength of 700 MPa). Please refer to the manufacturer instructions for the size, length and quantity of the special fasteners.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Assessment under this variation is limited to the application of a paint layer to the external equipment enclosure. Paint materials have been assessed in accordance for compliance with the electrostatic charging testing of Clause 26.13 of IEC 60079-0: Ed 6.

Annex:

Annex_for_IECEx_ETL_16_0014X_Iss_1.pdf

IECEx Certificate of Conformity

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Annex No. 1		Page 1 of 1

Equipment Description:

The ServoChoke® SVC 7k and SVC 15k are integrated electromechanical servomotor driven linear actuators. The motors are driven by an external drive controller that is not native to the product. Maximum Speed of the motor is 3000 RPM. The actuator is rated IP 6x per IEC 60529. The motor is provided with one feedback encoder; 4 options of the part exist as described within the scheduled drawing 26158000. The manual actuation cover has options for a standard or a recessed cover. The front boss has options for a smooth cylindrical boss or a threaded boss; the boss to interface with the end product is not considered as a flamepath. The motor has an approximate length of 58 to 65 cm and a diameter of 22.6 cm.

Manufacturer's Documentation:

The following drawings have been updated under this variation:

Title:	Drawing No.:	Rev. Level:	Date:
PART SERVOCHOKE,7K & 15K CERTIFICATION	26158000 (8 Sheets)	07	06/20/18
ServoChoke Installation, Operation, and Maintenance Manual	2600-4001_02 (16 Sheets)	02	September 21, 2018

The following drawings have been added under this variation:

Title:	Drawing No.:	Rev. Level:	Date:
PAINT, BURKE, SVC	26151136	00	06/13/18
PAINT, PPG, SVC	26151137	00	06/13/18
LABELS,SVC CERTIFICATION DOCUMENTATION	26151138 (Sheet 2 of 3)	00	07/18/18

Model Nomenclature:

The difference between the models is the roller screw lead. (The 7k has a 20mm/rev lead screw, while the 15k can use either the 5mm/rev or 10mm/rev lead screw). The models have identical outer dimensions, and use the same components to make the flameproof 'd' enclosure. The variations covered under this evaluation are internal components and are as follows:

1. SVC 15k – 15,000 pound thrust actuator. Maximum Linear Actuation Shaft speed of 9.8 mm/sec with a 10mm lead power screw or 4.9mm/s with a 5mm lead power screw.
2. SVC 7k - 7,000 pound thrust actuator. Maximum Linear Actuation Shaft speed of 19.6 mm/sec. This unit uses a 20 mm lead power screw as an alternate screw which is longer lead than option 1.

Ratings:

480Vrms L-L, 3A (maximum), 1.5 HP; Maximum Speed: 3000 RPM

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