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 EPS 19.0052X

Issue No: 0

Certificate history:
Issue No. 0 (2019-05-28)

Status: **Current**

Date of Issue: **2019-05-28**

Applicant: **Tissin Co., Ltd.**
201-1105, No 397, Seokcheon-ro
Ojeong-gu, Bucheon-Si, 14449
Korea, Republic of

Equipment: **Smart Valve Positioner TS900*******

Optional accessory:

Type of Protection: **db, tb**

Marking:

Ex db IIC T5/T6 Gb

Ex tb IIIC T100°C/T85°C Db IP66

Approved for issue on behalf of the IECEx Certification Body: Holger Schaffer

Position: Head of Certification

Signature:
(for printed version)

Date: 2019-05-28

ZERTIFIZIERUNGSSTELLE BUREAU VERITAS 1828 Bureau Veritas CPS Germany GmbH

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:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany

BUREAU VERITAS

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Manufacturer:	**Tissin Co., Ltd.** 201-1105, No 397, Seokcheon-ro Ojeong-gu, Bucheon-Si, 14449 **Korea, Republic of**	

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

*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:

DE/EPS/ExTR19.0047/00

Quality Assessment Report:

DE/EPS/QAR18.0004/00

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Smart valve positioner controls the valve stroke in response to an input signal of 4~20mA DC from the control panel, DCS or calibrator.

Smart valve positioner is composed of body and cover, made of ALDC12 aluminum alloy. There is one flameproof compartment with electronic board, terminals inside.

Connection can be made by certified cable glands with NPT1/2 or M20.

Electrical data:

Alarm signal, Feedback signal: 9 ~ 30V DC
Input signal: 4 ~ 20mA.

SPECIFIC CONDITIONS OF USE: YES as shown below:

When installed in explosive gas atmosphere, separate cable gland with marking of Ex d IIC Gb in accordance with IEC 60079-0:2011 and EN 60079-1:2014 shall be incorporated.

When installed in combustible dust atmosphere, separate cable gland with marking of Ex tb IIIC Db in accordance with IEC 60079-0:2011 and IEC 60079-31:2014 shall be incorporated.

Contact the original manufacturer for the information of flameproof joint dimension and fasteners (A2-70).

The relation between temperature class, ambient temperature and process medium temperature is following.

Temperature class		**Ambient temperature**
T6	T85°C	(-40~+70)°C
T5	T100°C	(-40~+80)°C