

## EU - Type Examination Certificate

(1)

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – Directive 2014/34/EU

(3) EU - Type Examination Certificate Number

**EPS 19 ATEX 1 112 X**

**Revision 0**

(4) Equipment: Smart Valve Positioner TS900\*\*\*\*\*

(5) Manufacturer: Tissin Co., Ltd.

(6) Address: 201-1105, No 397, Seokcheon-ro  
Ojeong-gu, Bucheon-Si, 14449  
Korea

(7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment 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 of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 19TH0274.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

**EN 60079-0:2012+A11:2013**


**EN 60079-31:2014**

**EN 60079-1:2014**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.

(11) This EU - Type Examination Certificate relates only to the design and examination of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

(12) The marking of the equipment shall include the following:

 II 2G Ex db IIC T5/T6 Gb

 II 2D Ex tb IIIC T100°C/T85°C Db IP66



Certification department of explosion protection

H. Schaffer

Hamburg, 2019-05-28

(13)

## Annex

(14) **EU - Type Examination Certificate EPS 19 ATEX 1 112 X**

Revision 0

(15) Description of equipment:

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.

(16) Reference number: 19TH0274

(17) Special conditions for safe use:

When installed in explosive gas atmosphere, separate cable gland with marking of Ex d IIC Gb in accordance with EN 60079-0:2012 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 EN 60079-0:2012 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

(18) Essential health and safety requirements:

Met by compliance with standards.



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Hamburg, 2019-05-28