IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

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

Certificate No.: **IECEx NEP 24.0025X**

Certificate history:

Status: **Current**

Issue No: 0

Date of Issue: 2024-07-28

Applicant: **Chongqing ChuanYi Control Valve Co., LTD**
No.879 Caihe Rd., Caijiagang Town, Beibei District,
Chongqing 400707
China

Equipment: **HVP Intelligent Positioner, HVP3 Series**

Optional accessory:

Type of Protection: **Ex ia**

Marking: Ex ia IIC T6...T4 Gb, Ex ia IIIC T85℃...T135℃ Db

Ta: -40℃～+40℃, 55℃ or 75℃

Approved for issue on behalf of the IECEx Certification Body: **Guo Aihua**

Position: **General Manager**

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.

Certificate issued by:

Shanghai Inspection and Testing Institute of Instruments and Automatic Systems Co., Ltd. (SITIIAS)/
National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation (NEPSI)
103 Cao Bao Road
Shanghai 200233
China

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Manufacturer: **Chongqing ChuanYi Control Valve Co., LTD**
No.879 Caihe Rd., Caijiagang Town, Beibei District,
Chongqing 400707
China

Manufacturing locations: **Chongqing ChuanYi Control Valve Co., LTD**
No.879 Caihe Rd., Caijiagang Town,
Beibei District,
Chongqing 400707
China

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 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

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 Report:

CN/NEP/ExTR24.0030/00

Quality Assessment Report:

CN/NEP/QAR23.0015/00

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

HVP3 Series HVP Intelligent Positioner are used to control the position of a control valve used in industrial process control. It can be used in explosive gas and explosive dust atmospheres. It's a 2-wire equipment with 6 electronics boards including main board, reed switch board, feedback board, terminal board, LCD board, IP board. The input and output signal of the positioner are both 4~20mA analog signal. A potentiometer is used to detect the valve position.

To support field operation and operation without open the enclosure, a LCD display and three magnetic buttons are applied. Buttons are mounted outside of the enclosure. The material of the enclosure is aluminum alloy or stainless steel. And a piezoelectric valve is applied to convert electronic signal to pressure.

Refer to annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:
1.The ambient temperature range is -40℃～+40℃, 55℃ or 75℃.

2.When installed, the breathing device of the product shall be tilted downward to prevent liquid from entering the inside of the enclosure.

3.Observe the warning:

POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS.

WARNING-DO NOT REPLACE BATTERY WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT!

Annex:

IECEx NEP 24.0025X Annex.pdf

Annex to IECEx Certificate of Conformity of IECEx NEP 24.0025X Issue No.0

Type definition:

	Order No.											
Intelligent Positioner	**HVP**											
Intrinsically Safe Dust by Intrinsically Safe		31										
Spring Return			S									
Linear Rotary				L R								
None HART Protocol					0 1							
None Feedback Lightning Protection Feedback and Lightning Protection						0 1 4 5						
Cable Gland: NPT1/2 M20x1. 5-6H Customized							1 0 2					
Air Fitting: NPT1/4 Rc1/4								1 0				
Ambient Temperature: -30℃ ≤T_a≤+75℃ - 40℃ ≤T_a≤ +75 ℃									S L			
Pressure Gauge: None Yes (stainless steel)										0 1		
Corrosion resistance: aluminum alloy (standard coating) Aluminum alloy (reinforced coating) stainless steel											0 1 2	
Identification Code												-00

The function and safe parameters are listed as following.

Terminals	Function	Ui	Ii	Pi	Ci	Li
		V	mA	mW	uF	uH
IN+, -	4-20mA	28	93	0.651	0	145.5
OUT+, -	Voltage and output	28	93	0.651	0	0

The relationship between the ambient temperature and temperature class and maximum surface temperature is as below:

Ambient temperature(℃)	Temperature class	Maximum surface temperature
-40~+75	T4	T135℃
-40~+55	T5	T100℃
-40~+40	T6	T85℃