



# 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](http://www.iecex.com)

Certificate No.: **IECEX PRE 21.0023X** Page 1 of 4 [Certificate history:](#)  
Status: **Current** Issue No: 0  
Date of Issue: 2021-11-10  
Applicant: **Chemsun Europe GMBH**  
Schumannstraße 156  
63069 Offenbach am  
Main  
Germany  
Equipment: **Electric Actuator**  
Optional accessory:  
Type of Protection: **Ex db**  
Marking: Ex db IIC T6/T5 Gb -40 to 70°C/-40 to 80°C

Approved for issue on behalf of the IECEx  
Certification Body:

**Bjørn Spongsveen**

Position:

**Certification Manager**

Signature:  
(for printed version)

2021-11-11

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 [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**DNV GL Presafe AS**  
Veritasveien 3  
1363 Høvik  
Norway





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Manufacturer: **Chemsun Europe GMBH**  
Schumannstraße 156  
63069 Offenbach am  
Main  
**Germany**

Additional  
manufacturing  
locations:

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 60079-1:2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

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 Reports:

[GB/CML/ExTR20.0235/00](#)

[NO/PRE/ExTR21.0018/00](#)

Quality Assessment Report:

[NO/DNV/QAR21.0008/00](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The Electric Actuator Type CSR/L-G01 which is manufactured from cast aluminium YL104 and comprises three compartments, a main body, a top cover, an HMI cover, which contains a glass window for viewing an internal display and a side cover.

The side cover and HMI cover are secured to the main body by four M6 secured by hexagon socket-head screws. The top cover is secured by four M8 hexagon socket-head screws. The three bodies are connected via cemented joints. There are two M20 entries on the side cover to accommodate external cables, a suitably certified M20 cable entry device is used, any unused entry holes are blanked with suitably certified blanking plugs.

### **Type designation**

CSR/L-G01

### **Electrical Data**

24 Vdc 100/230/380 Vac

### **Ambient temperature:**

-40°C to +70°C/ -40°C to +80°C

### **Routine tests:**

An overpressure pressure test must be carried out according to IEC 60079-1:2014 Clause 16.1 Clause 16.1 at 1.2 MPa.

### **SPECIFIC CONDITIONS OF USE: YES as shown below:**

**The following conditions relate to the installation and/or safe use of the equipment:**

1. Only suitably certified cable entry devices shall be used with the equipment to maintain explosion protection and must maintain a degree of protection of at least IP67 for operational reasons.
2. The flameproof joints are not to be repaired. Contact the manufacturer for details.
3. Only cables rated to least 90°C shall be used.
4. When the rated ambient temperature is -40°C to +70°C the Ex-marking is "Ex db IIC T6 Gb".
5. When the rated ambient temperature is -40°C to +80°C, the Ex-marking is "Ex db IIC T5 Gb".
6. At least 11 full threads must be engaged between the button cover and HMI Cover



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**Additional information:**

**Conditions to manufacture:**

The following are conditions of manufacture:

- i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- ii. The Electric Actuator Type CSR/L.G01 is to be designed in accordance with general electrical safety standards e.g. IEC 60950 or IEC 61010-1.