



# 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 BVS 14.0020X** Page 1 of 4 [Certificate history:](#)  
Issue 1 (2016-04-18)  
Issue 0 (2014-07-04)

Status: **Current** Issue No: 2

Date of Issue: 2018-10-02

Applicant: **Hummel AG**  
Lise-Meitner-Straße 2  
79211 Denzlingen  
Germany

Equipment: **Cable gland series types HSK-K-Ex-Active 1.292.\*\*\*.\*\*\*, HSK-K-Multi-Ex-Active 1.581.\*\*\*.\*\* and HSK-K-Flaka-Ex-Active 1.582.\*\*\*.\*\***

Optional accessory:

Type of Protection: **Equipment dust ignition protection by enclosure "t", Equipment protection by increased safety "e"**

Marking: Ex eb IIC Gb  
Ex ta IIIC Da

Approved for issue on behalf of the IECEx  
Certification Body:

**Jörg Koch**

Position:

**Head of Certification Body**

Signature:  
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
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Certificate issued by:

**DEKRA EXAM GmbH**  
Dinnendahlstrasse 9  
44809 Bochum  
Germany

 **DEKRA**  
On the safe side.



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Manufacturer: **Hummel AG**  
Lise-Meitner-Straße 2  
79211 Denzlingen  
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 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

**IEC 60079-7:2015** Explosive atmospheres – Part 7: Equipment protection by increased safety "e"  
Edition:5.0

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:

[DE/BVS/ExTR14.0070/02](#)

Quality Assessment Report:

[DE/BVS/QAR07.0001/09](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

### Subject and type:

Cable gland series type HSK-K-Ex-Active 1.292.\*\*\*\*.\*\*; HSK-K-Multi-Ex-Active 1.581.\*\*\*\*.\*\*;  
HSK-K-Flaka-Ex-Active 1.582.\*\*\*\*.\*\*

The asterisks in the type number are representative to determine the connecting thread type and size; O-ring material and the clamping range.

### Description:

The cable glands type HSK-K-Ex-Active 1.292.\*\*\*\*.\*\*; HSK-K-Multi-Ex-Active 1.581.\*\*\*\*.\*\*;

HSK-K-Flaka-Ex-Active 1.582.\*\*\*\*.\*\* are designed for the installation at electrical apparatus in type of protection Increased Safety "e" and Protection by enclosure "t". They serve for the installation of fixed cables.

The cable glands are suitable for the application in areas potentially hazardous by combustible gases or dusts.

The cable glands can now be manufactured with a head nut and with O-rings made of modified materials, the parameters remain unchanged.

The cable glands are manufactured in variants for the entry of several cables, and for flat cables.

The cable glands comply with the current revisions of the listed standards.

### Parameters:

Permitted service temperature range of the cable glands -20 °C up to +85 °C

The ambient temperature range of electrical equipment is usually limited. The maximum ambient temperature permitted for these cable glands may in use be utilized up to the permitted service temperature.

IP degrees of protection according to EN 60529 IP 68 at 10 bar

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

The cable glands are tested with a reduced tensile force (25 %) in accordance with clause A.3.1 of IEC 60079-0 and may only be used for fixed installation apparatus. The user shall ensure adequate clamping of the cable.

The cable glands sizes M12, M16 and NPT 3/8" are tested for low risk of mechanical danger (drop height 0.4 m with 1 kg mass) and shall be protected against higher impact energy levels.

The cable glands are with O-ring sealings made of NBR, additionally they can also be used with FKM or VMQ sealings.

If the sizes M20 x 1.5 and NPT 1/2" are used at temperatures between -20 °C and -50 °C, they have been tested for the low risk of mechanical danger (drop height 0.4 m with 1 kg mass) and shall be protected against higher impact energy levels.



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

- Update to the current standards
- Expanding the negative temperature range of sizes M20 x 1.5 and NPT ½" to -50 °C