

Translation, original language: German

CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **KEMA 99ATEX6971 X** Issue Number: **6**

(4) Product: **Cable glands, Series HSK-M-Ex, HSK-M-EMV-Ex, HSK-M-EMV-D-Ex, HSK-MZ-Ex, HSK-MZ-EMV-Ex, HSK-INOX-Ex, HSK-INOX-EMV-Ex, HSK-K-MZ-Ex, HSK-M-PVDF-Ex, HSK-M-PVDF-EMV-Ex, HSK-MZ-PVDF-EMV-Ex, HSK-MZ-PVDF-Ex, HSK-INOX-PVDF-Ex and HSK-INOX-PVDF-EMV-Ex**

(5) Manufacturer: **Hummel AG**

(6) Address: **Lise-Meitner-Straße 2, 79211 Denzlingen, Germany**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential test report number NL/DEK/ExTR11.0041/02.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0 : 2012 + A11

EN 60079-7 : 2015

EN 60079-31 : 2014

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

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



II 2 G Ex eb IIC Gb
II 1 D Ex ta IIIC Da

Date of certification: 19 July 2017

DEKRA Certification B.V.

T. Pijpker
Certification Manager

Page 1/2



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(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 99ATEX6971 X**

Issue No. 6

(15) **Description**

Cable Glands, Series HSK-M-Ex, HSK-M-EMV-Ex, HSK-M-EMV-D-Ex, HSK-MZ-Ex, HSK-MZ-EMV-Ex, HSK-INOX-Ex, HSK-INOX-EMV-Ex, HSK-K-MZ-Ex, HSK-M-PVDF-Ex, HSK-M-PVDF-EMV-Ex, HSK-MZ-PVDF-EMV-Ex, HSK-MZ-PVDF-Ex, HSK-INOX-PVDF-Ex and HSK-INOX-PVDF-EMV-Ex in type of protection increased safety "eb" or equipment dust ignition protection by enclosure "ta".

The available thread sizes are M12 to M63, PG7 to PG48 and 3/8" NPT to 1 1/2" NPT.

Operating temperature range: -60 °C to +95 °C (standard versions HSK-M and HSK-INOX)
-20 °C to +130 °C (PVDF versions HSK-M and HSK-INOX)
-20 °C to +70 °C (HSK-K-MZ-Ex)

The cable glands provide a degree of protection of IP66/68 (1 MPa (10 bar) for 30 min.) in accordance with EN 60079-0 and EN 60529.

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. NL/DEK/ExTR11.0041/02.

(17) **Specific conditions of use**

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

The cable glands Series HSK-K-MZ-Ex 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.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR11.0041/02.

(20) **Certificate history**

Issue 0 - 96971	initial certificate
Issue 1 - 209380500	standard upgrade
Issue 2 - 210690000	standard upgrade
Issue 3 - 211594700	scope extension
Issue 4 - 214150200	standard upgrade
Issue 5 - 217251500	name change and standard upgrade
Issue 6 - 221754600	standard upgrade