



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx PTB 16.0026X Issue No: 0 Certificate history:  
Status: Current Page 1 of 3 Issue No. 0 (2017-05-11)  
Date of Issue: 2017-05-11  
Applicant: WISKA Hoppmann GmbH  
Kisdorfer Weg 28  
24568 Kaltenkirchen  
Germany  
Equipment: Reducer type EX-KRM \*\*/\*\*, Expansion element type EX-KEM \*\*/\*\* and Adapter  
type EX-APM \*\*/\*\*  
Optional accessory:  
Type of Protection: "eb", "tb"  
Marking: Ex eb IIC Gb  
Ex tb III C Db

Approved for issue on behalf of the IECEx  
Certification Body:

Dr.-Ing. Detlev Markus

Position:

Head of Department Explosion Protection in Energy Technology

Signature:  
(for printed version)

  
10.05.17

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Physikalisch-Technische Bundesanstalt (PTB)  
Bundesallee 100  
38116 Braunschweig  
Germany





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Manufacturer: **WISKA Hoppmann GmbH**  
Kisdorfer Weg 28  
24568 Kaltenkirchen  
**Germany**

Additional Manufacturing location(s):

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 electrical apparatus 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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
<b>IEC 60079-7 : 2015</b> Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical 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/PTB/ExTR16.0041/00

Quality Assessment Report:

DE/PTB/QAR11.0006/02



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The reducer type EX-KRM \*\* / \*\*, expansion element type EX-KEM \*\* / \*\* and adapter type EX-APM \*\* / \*\* made from polyamide are used for adapting enclosure openings to the nominal size of cable glands.

Technical data and Nomenclature see Annex.

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

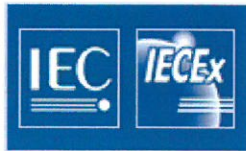
The types with low impact energy are suitable in the approved ambient temperature range for installation in apparatus with the risk of mechanical hazard "low" of group II and III.

Outside of this ambient temperature range these types have to be mounted into an apparatus in such a way that they are adequate protected against mechanical hazard.

Degree of protection will be safeguarded only when the sealing is properly fitted. The manufacturer's instructions have to be followed.

### Annex:

[COCA160026-00.pdf](#)



Applicant: WISKA Hoppmann GmbH  
Kisdorfer Weg 28  
24568 Kaltenkirchen  
Germany

Electrical Apparatus: Expansion element, type EX-KEM \*\*/\*\*,  
Reducer, type EX-KRM \*\*/\*\* and  
Adapter, type EX-APM \*\*/\*\*

### Description

The expansion element, type EX-KEM \*\*/\*\*, reducer, type EX-KRM \*\*/\*\* and adapter, type EX-APM \*\*/\*\* made from polyamide, are used for adapting enclosure openings to the nominal size of cable glands.

### Technical data

Minimum wall thickness of housing	Threaded hole, metal housing: 3 mm Threaded hole, plastic housing: 3 mm Through-hole, metal housing: 1 mm Through-hole, plastic housing: 2 mm
Service temperature range	max. -40 °C to +75 °C
Ingress protection	IP66 / IP68 (5 bar, 30 min) according to EN 60529

Type	Form	Size outer thread	Size inner thread	Torque	Impact Energy
EX-KEM 12/16	A	M12x1.5	M16x1.5	2 Nm	4 J*
EX-KEM 16/20	A	M16x1.5	M20x1.5	3 Nm	4 J
EX-KEM 20/20	A	M20x1.5	M20x1.5	3,5 Nm	7 J* / 4 J
EX-KEM 20/25	A	M20x1.5	M25x1.5	3,5 Nm	7 J* / 4 J
EX-KEM 25/32	A	M25x1.5	M32x1.5	4 Nm	7 J
EX-KEM 32/40	A	M32x1.5	M40x1.5	5 Nm	7 J
EX-KEM 40/50	A	M40x1.5	M50x1.5	12 Nm	7 J
EX-KEM 50/63	A	M50x1.5	M63x1.5	15 Nm	7 J

\* for the temperature range -20 °C to +75 °C

Type	Form	Size outer thread	Size inner thread	Torque	Impact Energy
EX-KRM 16/12	A	M16x1.5	M12x1.5	2 Nm	4 J
EX-KRM 20/12	B	M20x1.5	M12x1.5	3,5 Nm	7 J
EX-KRM 20/16	A	M20x1.5	M16x1.5	3,5 Nm	7 J* / 4 J
EX-KRM 25/12	B	M25x1.5	M12x1.5	4 Nm	7 J
EX-KRM 25/16	B	M25x1.5	M16x1.5	4 Nm	7 J
EX-KRM 25/20	B	M25x1.5	M20x1.5	4 Nm	7 J
EX-KRM 32/16	B	M32x1.5	M16x1.5	5 Nm	7 J
EX-KRM 32/20	B	M32x1.5	M20x1.5	5 Nm	7 J



Type	Form	Size outer thread	Size inner thread	Torque	Impact Energy
EX-KRM 32/25	B	M32x1.5	M25x1.5	5 Nm	7 J
EX-KRM 40/20	B	M40x1.5	M20x1.5	12 Nm	7 J
EX-KRM 40/25	B	M40x1.5	M25x1.5	12 Nm	7 J
EX-KRM 40/32	B	M40x1.5	M32x1.5	12 Nm	7 J
EX-KRM 50/20	B	M50x1.5	M20x1.5	15 Nm	7 J
EX-KRM 50/25	B	M50x1.5	M25x1.5	15 Nm	7 J
EX-KRM 50/32	B	M50x1.5	M32x1.5	15 Nm	7 J
EX-KRM 50/40	B	M50x1.5	M40x1.5	15 Nm	7 J
EX-KRM 63/20	B	M63x1.5	M20x1.5	20 Nm	7 J
EX-KRM 63/25	B	M63x1.5	M25x1.5	20 Nm	7 J
EX-KRM 63/32	B	M63x1.5	M32x1.5	20 Nm	7 J
EX-KRM 63/40	B	M63x1.5	M40x1.5	20 Nm	7 J
EX-KRM 63/50	B	M63x1.5	M50x1.5	20 Nm	7 J

\* for the temperature range -20 °C to +75 °C

Type	Form	Size outer thread	Size inner thread	Torque	Impact Energy
EX-APM 7/12	A	Pg 7	M12x1.5	2 Nm	4 J*
EX-APM 7/16	A	Pg 7	M16x1.5	2 Nm	4 J*
EX-APM 9/12	A	Pg 9	M12x1.5	3 Nm	4 J
EX-APM 9/16	A	Pg 9	M16x1.5	3 Nm	4 J
EX-APM 9/20	A	Pg 9	M20x1.5	3 Nm	4 J
EX-APM 11/16	A	Pg 11	M16x1.5	3 Nm	7 J
EX-APM 11/20	A	Pg 11	M20x1.5	3 Nm	7 J
EX-APM 11/25	A	Pg 11	M25x1.5	3 Nm	7 J
EX-APM 13,5/16	A	Pg 13,5	M16x1.5	3,5 Nm	7 J
EX-APM 13,5/20	A	Pg 13,5	M20x1.5	3,5 Nm	7 J
EX-APM 13,5/25	A	Pg 13,5	M25x1.5	3,5 Nm	7 J
EX-APM 16/20	A	Pg 16	M20x1.5	3 Nm	7 J
EX-APM 16/25	A	Pg 16	M25x1.5	3 Nm	7 J
EX-APM 16/32	A	Pg 16	M32x1.5	3 Nm	7 J
EX-APM 21/20	A	Pg 21	M20x1.5	5 Nm	7 J
EX-APM 21/25	A	Pg 21	M25x1.5	5 Nm	7 J
EX-APM 21/32	A	Pg 21	M32x1.5	5 Nm	7 J
EX-APM 21/40	A	Pg 21	M40x1.5	5 Nm	7 J
EX-APM 29/20	B	Pg 29	M20x1.5	12 Nm	7 J
EX-APM 29/25	B	Pg 29	M25x1.5	12 Nm	7 J
EX-APM 29/32	B	Pg 29	M32x1.5	12 Nm	7 J
EX-APM 29/40	A	Pg 29	M40x1.5	12 Nm	7 J
EX-APM 29/50	A	Pg 29	M50x1.5	12 Nm	7 J
EX-APM 36/20	B	Pg 36	M20x1.5	15 Nm	7 J
EX-APM 36/25	B	Pg 36	M25x1.5	15 Nm	7 J
EX-APM 36/32	B	Pg 36	M32x1.5	15 Nm	7 J
EX-APM 36/40	B	Pg 36	M40x1.5	15 Nm	7 J
EX-APM 36/50	A	Pg 36	M50x1.5	15 Nm	7 J
EX-APM 36/63	A	Pg 36	M63x1.5	15 Nm	7 J
EX-APM 42/20	B	Pg 42	M20x1.5	15 Nm	7 J
EX-APM 42/25	B	Pg 42	M25x1.5	15 Nm	7 J
EX-APM 42/32	B	Pg 42	M32x1.5	15 Nm	7 J



Type	Form	Size outer thread	Size inner thread	Torque	Impact Energy
EX-APM 42/40	B	Pg 42	M40x1.5	15 Nm	7 J
EX-APM 42/50	A	Pg 42	M50x1.5	15 Nm	7 J
EX-APM 42/63	A	Pg 42	M63x1.5	15 Nm	7 J
EX-APM 48/20	B	Pg 48	M20x1.5	20 Nm	7 J
EX-APM 48/25	B	Pg 48	M25x1.5	20 Nm	7 J
EX-APM 48/32	B	Pg 48	M32x1.5	20 Nm	7 J
EX-APM 48/40	B	Pg 48	M40x1.5	20 Nm	7 J
EX-APM 48/50	B	Pg 48	M50x1.5	20 Nm	7 J
EX-APM 48/63	A	Pg 48	M63x1.5	20 Nm	7 J

\*for the temperature range -20°C to +75°C

### Nomenclature

<b>EX</b>	-	*	*	<b>M</b>		**	/	**
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>

- 1 = Explosion protected apparatus
- 2 = dash
- 3 = code K or A
  - K = plastic material
  - A = adapter
- 4 = code E, R or P
  - E = Expansion Element
  - R = Reducer
  - P = Pg thread acc. to DIN 40430 at the outer thread
- 5 = code M
  - M = metric thread acc. to EN 60423 on the inner thread
- 6 = space
- 7 = size of thread
  - 12 = M12x1.5
  - 16 = M16x1.5 (on E and R on position 4) or Pg 16 (on P on position 4)
  - 20 = M20x1.5
  - 7 = Pg 7
  - 9 = Pg 9
- 8 = slash
- 9 = Size of thread of the inner thread
  - 12 = M12x1.5
  - 16 = M16x1.5
  - 20 = M20x1.5
  - etc. to M63x1.5