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 PTB 16.0026X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 1	Issue 0 (2017-05-11)
Date of Issue:	2022-05-25		
Applicant:	**WISKA Hoppmann GmbH** Kisdorfer Weg 28 24568 Kaltenkirchen **Germany**		
Equipment:	**Thread adapter type EX-KRM **/**, EX-KEM **/**, 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 Deparment Explosion Protection in Energy Technology**

Signature: (for printed version)

Date: (for printed version) 30.05.22

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:

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

Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin

IECEx Certificate of Conformity

Certificate No.: **IECEx PTB 16.0026X**

Issue No: 1

Date of issue: 2022-05-25

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

Manufacturing locations: **WISKA Hoppmann GmbH**
Kisdorfer Weg 28
24568 Kaltenkirchen
Germany

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 Edition:7.0 — Explosive atmospheres - Part 0: Equipment - General requirements

IEC 60079-31:2013 Edition:2 — Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

IEC 60079-7:2017 Edition:5.1 — Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

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/PTB/ExTR16.0041/01

Quality Assessment Report:

DE/PTB/QAR11.0006/06

IECEx Certificate of Conformity

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

The thread adapters type EX-KEM **/** (expansion element), type EX-KRM **/** (reducer) and type EX-APM **/** (adapter) 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:

1. Degree of protection is ensured only if the adapters are properly fitted. The manufacturer's instructions must be followed.
2. Types suitable for a "low" risk of mechanical danger shall be mounted in such a way that they are mechanically protected against impact force.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Updated to current editions of IEC 60079-0 (Ed. 7) and IEC 60079-7 (Ed. 5.1).

Annex:

COCA160026X-01.pdf

Applicant: WISKA Hoppmann GmbH
Kisdorfer Weg 28
24568 Kaltenkirchen
Germany

Electrical Apparatus: Thread adapter type EX-KEM **/**, EX-KRM **/**, EX-APM **/**

Description

The thread adapters type EX-KEM **/** (expansion element), type EX-KRM **/** (reducer) and type EX-APM **/** (adapter) 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: Threaded hole, plastic housing: Through-hole, metal housing: Through-hole, plastic housing:	3 mm 3 mm 1 mm 2 mm
Service temperature range	Depends on size, see below	
Ingress protection	IP66 / IP68 (5 bar, 30 min) according to EN 60529	
Suited for equipment of device group II with the mechanical risk level	Depends on size, see below	

Torque, service temperature and mechanical risk level, Type EX-KEM **/**

Type	Size male thread	Size female thread	Torque	Service temperature	Mechanical risk level
EX-KEM 12/16	M12x1.5	M16x1.5	2 Nm	−20 °C to +75 °C	low
EX-KEM 16/20	M16x1.5	M20x1.5	3 Nm	−40 °C to +75 °C	low
EX-KEM 20/20	M20x1.5	M20x1.5	3.5 Nm	−20 °C to +75 °C −40 °C to +75 °C	high low
EX-KEM 20/25	M20x1.5	M25x1.5	3.5 Nm	−20 °C to +75 °C −40 °C to +75 °C	high low
EX-KEM 25/32	M25x1.5	M32x1.5	4 Nm	−40 °C to +75 °C	high
EX-KEM 32/40	M32x1.5	M40x1.5	5 Nm	−40 °C to +75 °C	high
EX-KEM 40/50	M40x1.5	M50x1.5	12 Nm	−40 °C to +75 °C	high
EX-KEM 50/63	M50x1.5	M63x1.5	15 Nm	−40 °C to +75 °C	high

Torque, service temperature and mechanical risk level, Type EX-KRM **/**

Type	Size male thread	Size female thread	Torque	Service temperature	Mechanical risk level
EX-KRM 16/12	M16x1.5	M12x1.5	3 Nm	−40 °C to +75 °C	low
EX-KRM 20/12	M20x1.5	M12x1.5	3.5 Nm	−40 °C to +75 °C	high
EX-KRM 20/16	M20x1.5	M16x1.5	3.5 Nm	−20 °C to +75 °C −40 °C to +75 °C	high low
EX-KRM 25/12	M25x1.5	M12x1.5	4 Nm	−40 °C to +75 °C	high
EX-KRM 25/16	M25x1.5	M16x1.5	4 Nm	−40 °C to +75 °C	high
EX-KRM 25/20	M25x1.5	M20x1.5	4 Nm	−40 °C to +75 °C	high
EX-KRM 32/16	M32x1.5	M16x1.5	5 Nm	−40 °C to +75 °C	high
EX-KRM 32/20	M32x1.5	M20x1.5	5 Nm	−40 °C to +75 °C	high
EX-KRM 32/25	M32x1.5	M25x1.5	5 Nm	−40 °C to +75 °C	high
EX-KRM 40/20	M40x1.5	M20x1.5	12 Nm	−40 °C to +75 °C	high
EX-KRM 40/25	M40x1.5	M25x1.5	12 Nm	−40 °C to +75 °C	high
EX-KRM 40/32	M40x1.5	M32x1.5	12 Nm	−40 °C to +75 °C	high
EX-KRM 50/20	M50x1.5	M20x1.5	15 Nm	−40 °C to +75 °C	high
EX-KRM 50/25	M50x1.5	M25x1.5	15 Nm	−40 °C to +75 °C	high
EX-KRM 50/32	M50x1.5	M32x1.5	15 Nm	−40 °C to +75 °C	high
EX-KRM 50/40	M50x1.5	M40x1.5	15 Nm	−40 °C to +75 °C	high
EX-KRM 63/20	M63x1.5	M20x1.5	20 Nm	−40 °C to +75 °C	high
EX-KRM 63/25	M63x1.5	M25x1.5	20 Nm	−40 °C to +75 °C	high
EX-KRM 63/32	M63x1.5	M32x1.5	20 Nm	−40 °C to +75 °C	high
EX-KRM 63/40	M63x1.5	M40x1.5	20 Nm	−40 °C to +75 °C	high
EX-KRM 63/50	M63x1.5	M50x1.5	20 Nm	−40 °C to +75 °C	high

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100, 38116 Braunschweig, Germany
Postfach 33 45, 38023 Braunschweig, Germany
Telephone +49 531 592-0, Telefax +49 531 592-3605

Torque, service temperature and mechanical risk level, Type EX-APM **/**

Type	Size male thread	Size female thread	Torque	Service temperature	Mechanical risk level
EX-APM 7/12	Pg 7	M12x1.5	2 Nm	−20 °C to +75 °C	low
EX-APM 7/16	Pg 7	M16x1.5	3 Nm	−20 °C to +75 °C	low
EX-APM 9/12	Pg 9	M12x1.5	3 Nm	−40 °C to +75 °C	low
EX-APM 9/16	Pg 9	M16x1.5	3 Nm	−40 °C to +75 °C	low
EX-APM 9/20	Pg 9	M20x1.5	3.5 Nm	−40 °C to +75 °C	low
EX-APM 11/16	Pg 11	M16x1.5	3 Nm	−40 °C to +75 °C	high
EX-APM 11/20	Pg 11	M20x1.5	3.5 Nm	−40 °C to +75 °C	high
EX-APM 11/25	Pg 11	M25x1.5	4 Nm	−40 °C to +75 °C	high
EX-APM 13,5/16	Pg 13.5	M16x1.5	3.5 Nm	−40 °C to +75 °C	high
EX-APM 13,5/20	Pg 13.5	M20x1.5	3.5 Nm	−40 °C to +75 °C	high
EX-APM 13,5/25	Pg 13.5	M25x1.5	4 Nm	−40 °C to +75 °C	high
EX-APM 16/20	Pg 16	M20x1.5	4 Nm	−40 °C to +75 °C	high
EX-APM 16/25	Pg 16	M25x1.5	4 Nm	−40 °C to +75 °C	high
EX-APM 16/32	Pg 16	M32x1.5	5 Nm	−40 °C to +75 °C	high
EX-APM 21/20	Pg 21	M20x1.5	5 Nm	−40 °C to +75 °C	high
EX-APM 21/25	Pg 21	M25x1.5	5 Nm	−40 °C to +75 °C	high
EX-APM 21/32	Pg 21	M32x1.5	5 Nm	−40 °C to +75 °C	high
EX-APM 21/40	Pg 21	M40x1.5	12 Nm	−40 °C to +75 °C	high
EX-APM 29/20	Pg 29	M20x1.5	12 Nm	−40 °C to +75 °C	high
EX-APM 29/25	Pg 29	M25x1.5	12 Nm	−40 °C to +75 °C	high
EX-APM 29/32	Pg 29	M32x1.5	12 Nm	−40 °C to +75 °C	high
EX-APM 29/40	Pg 29	M40x1.5	12 Nm	−40 °C to +75 °C	high
EX-APM 29/50	Pg 29	M50x1.5	15 Nm	−40 °C to +75 °C	high
EX-APM 36/20	Pg 36	M20x1.5	15 Nm	−40 °C to +75 °C	high
EX-APM 36/25	Pg 36	M25x1.5	15 Nm	−40 °C to +75 °C	high
EX-APM 36/32	Pg 36	M32x1.5	15 Nm	−40 °C to +75 °C	high
EX-APM 36/40	Pg 36	M40x1.5	15 Nm	−40 °C to +75 °C	high
EX-APM 36/50	Pg 36	M50x1.5	15 Nm	−40 °C to +75 °C	high
EX-APM 36/63	Pg 36	M63x1.5	20 Nm	−40 °C to +75 °C	high
EX-APM 42/20	Pg 42	M20x1.5	15 Nm	−40 °C to +75 °C	high
EX-APM 42/25	Pg 42	M25x1.5	15 Nm	−40 °C to +75 °C	high
EX-APM 42/32	Pg 42	M32x1.5	15 Nm	−40 °C to +75 °C	high
EX-APM 42/40	Pg 42	M40x1.5	15 Nm	−40 °C to +75 °C	high
EX-APM 42/50	Pg 42	M50x1.5	15 Nm	−40 °C to +75 °C	high
EX-APM 42/63	Pg 42	M63x1.5	20 Nm	−40 °C to +75 °C	high
EX-APM 48/20	Pg 48	M20x1.5	20 Nm	−40 °C to +75 °C	high
EX-APM 48/25	Pg 48	M25x1.5	20 Nm	−40 °C to +75 °C	high
EX-APM 48/32	Pg 48	M32x1.5	20 Nm	−40 °C to +75 °C	high
EX-APM 48/40	Pg 48	M40x1.5	20 Nm	−40 °C to +75 °C	high
EX-APM 48/50	Pg 48	M50x1.5	20 Nm	−40 °C to +75 °C	high
EX-APM 48/63	Pg 48	M63x1.5	20 Nm	−40 °C to +75 °C	high

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100, 38116 Braunschweig, Germany
Postfach 33 45, 38023 Braunschweig, Germany
Telephone +49 531 592-0, Telefax +49 531 592-3605

Nomenclature

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

1 = Specification for explosion-proof device
2 = Hyphen
3 = Specification K or A
    K = Plastic
    A = Adapter
4 = Specification E, R or P
    E = Extension
    R = Reduction
    P = Connection thread Pg according to DIN 40430 at the outer thread
5 = Specification M
    M = metric connection thread according to EN 60423 at the inner thread
6 = Space
7 = Specification of the thread sizes at the outer thread
    12 = M12x1.5
    16 = M16x1.5 (at E and R on Pos. 4) or Pg 16 (at P on Pos. 4)
    20 = M20x1.5
    7 = Pg 7
    9 = Pg 9
    etc. up to M63x1.5 or Pg 48
8 = Forward slash
9 = Specification of the thread sizes at the inner thread
    12 = M12x1.5
    16 = M16x1.5
    20 = M20x1.5
    etc. up to M63x1.5

Specific Conditions of Use

1. Degree of protection is ensured only if the adapters are properly fitted. The manufacturer's instructions must be followed.
2. Types suitable for a "low" risk of mechanical danger shall be mounted in such a way that they are mechanically protected against impact force.

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100, 38116 Braunschweig, Germany
Postfach 33 45, 38023 Braunschweig, Germany
Telephone +49 531 592-0, Telefax +49 531 592-3605