



(1) **EU-TYPE EXAMINATION CERTIFICATE**
(Translation)

(2) Equipment or Protective Systems Intended for Use in
Potentially Explosive Atmospheres - **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:

PTB 04 ATEX 1040 X

Issue: 2

(4) Product: Thread adapter type EX-KEM **/**, EX-KRM **/**, EX-APM **/**

(5) Manufacturer: WISKA Hoppmann GmbH

(6) Address: Kisdorfer Weg 28, 24568 Kaltenkirchen, Germany

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

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 17 of the 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 the confidential Test Report PTB Ex 22-11178.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018, EN IEC 60079-7:2015/A1:2018, EN 60079-31:2014

(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 in accordance to the Directive 2014/34/EU. 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 2 D Ex tb IIIC Db**

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB:

Braunschweig, May 25, 2022


Dr.-Ing. D. Markus
Direktor und Professor



sheet 1/5

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(13)

SCHEDULE

(14) **EU-Type Examination Certificate Number PTB 04 ATEX 1040 X, Issue: 2**

(15) Description of Product

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: 3 mm Threaded hole, plastic housing: 3 mm Through-hole, metal housing: 1 mm Through-hole, plastic housing: 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

sheet 2/5

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SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 04 ATEX 1040 X, Issue: 2

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

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

sheet 3/5

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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

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

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- 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

Changes with respect to previous editions

Updated to current editions of EN IEC 60079-0:2018, EN IEC 60079-7:2015/A1:2018,
EN 60079-31:2014.

(16) Test Report PTB Ex22-11178

(17) 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.

(18) Essential health and safety requirements

Met by compliance with the aforementioned standards.

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB:

Braunschweig, May 25, 2022


Dr.-Ing. D. Markus
Direktor und Professor

