[1]

UNITED KINGDOM CONFORMITY ASSESSMENT

UK-TYPE EXAMINATION CERTIFICATE

[2]

Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1

[3] UK-Type Examination Certificate No.: **UL22UKEX2674X Rev. 0**

[4] Product: **Thread adapter type Ex-KEM **/**, EX-KRM **/**, EX-APM **/****

[5] Manufacturer: **WISKA Hoppmann GmbH**

[6] Address: **Kisdirfer Weg 28, 24568 Kaltenkirchen, Germany**

[7] This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8] UL International (UK) Ltd, Approved Body number 0843, in accordance with Regulation 44 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696), 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 Schedule 1 of the Regulations.
The examination and test results are recorded in the confidential report DE/PTB/ExTR16.0041/01.

[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**

Except in respect of those requirements listed at section 19 of the schedule to this certificate.

[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 UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations 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:

Ex II 2 G Ex eb IIC Gb

Ex II 2 D Ex tb IIIC Db

Certification Officer
Andrew Moffat

This is to certify that the sample(s) of the Product described herein (“Certified Product”) has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the UKEx Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Regulations. The test results may not be used, in whole or in part, in any other document without UL’s prior written approval.

Date of issue: 2023-01-30

Approved Body UL International (UK) Ltd Unit 1-3 Horizon Kingsland Business Park Wade Road, Basingstoke RG24 8AH, UK
Phone : +44 (0)1256 312100

[13] [14]

Schedule
UK-TYPE EXAMINATION CERTIFICATE No.
UL22UKEX2674X Rev. 0

[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: Threaded hole, plastic housing: Through-hole, metal housing: Through-hole, plastic housing:	3mm 3mm 1mm 2mm
Service temperature range	Depends on size, see below	
Ingress protection	IP66 / IP68 (5 bar, 30 mins) 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

[13] [14]

Schedule
UK-TYPE EXAMINATION CERTIFICATE No.
UL22UKEX2674X Rev. 0

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

[13] [14]

Schedule
UK-TYPE EXAMINATION CERTIFICATE No.
UL22UKEX2674X Rev. 0

Nomenclature

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

1 = Specification for explosionproof device
2 = Hyphen
3 = Specification for 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 (for E or R on Pos. 4) or PG16 (for P on Pos. 4)
20 = M20x1.5
7 = PG7
9 = PG9
etc. up to M63x1.5 or PG48
8 = Forward slash
9 = Specification of the thread sizes at the inner thread
12 = M12x1.5
16 = M16x1.5 (for E or R on Pos. 4) or PG16 (for P on Pos. 4)
20 = M20x1.5
etc. up to M63x1.5

Routine tests
None

[16] Test Report No. (associated with this certificate issue)
The test report no. is provided under item no. [8] on page 1 of this UK-Type Examination Certificate.

[17] Specific conditions of use:
- Degree of protection is ensured only if the adapters are properly fitted. The manufacturer's instructions must be followed.
- 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] Conditions of certification:
None

[19] Essential Health and Safety Requirements (Regulations Schedule 1)
In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the relevant reports.

Additional information
The Products have in addition passed the tests for Ingress Protection to IP66 and IP68 in accordance with EN60529:1991+A1:2000+A2:2013.

The manufacturer shall inform the approved body concerning all modifications to the technical documentation as described in Annex III to UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1.

[13] [14]

Schedule
UK-TYPE EXAMINATION CERTIFICATE No.
UL22UKEX2674X Rev. 0

[20] Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Description for IECEx PTB 16.0026X Issue No. 1 and for EGB PTB 04 ATEX 1040X Issue: 02	Description EX-E-R-A_Iss01_IECEx_Rev00	01	2022-05-17
Operating instructions	50086098007_BA EX-Adapter	-	2022-05
Ex-enlargement adaptor, polyamide, M25-32	SN-005899-04	04	2023-01-02
Ex-enlargement adaptor, polyamide, M20-25	SN-005900-01	01	2022-12-21
Ex-enlargement adaptor, polyamide, M16-20	SN-005901-01	01	2022-12-21
Ex-enlargement adaptor, polyamide, M12-16	SN-005902-01	01	2022-12-21
Ex-enlargement adaptor, polyamide, M32-M40	SN-005903-01	01	2022-12-21
Ex-enlargement adaptor, polyamide, M40-M50	SN-005904-01	01	2022-12-21
Ex-enlargement adaptor, polyamide, M50-M63	SN-005905-01	01	2022-12-21
Ex-reduction adaptor, polyamide, M20-M16	SN-005906-06	06	2023-01-04
Ex-reduction adaptor, polyamide, M32-M25	SN-005907-06	06	2023-01-04
Ex-reduction adaptor, polyamide, M32-M16	SN-005908-06	06	2023-01-04
Ex-reduction adaptor, polyamide, M16-M12	SN-005910-01	01	2023-01-04
Ex-reduction adaptor, polyamide, M20-M12	SN-005911-01	01	2023-01-10
Ex-reduction adaptor, polyamide, M25-M12	SN-005912-01	01	2023-01-10
Ex-reduction adaptor, polyamide, M25-M16	SN-005913-01	01	2023-01-11
Ex-reduction adaptor, polyamide, M25-M20	SN-005914-01	01	2023-01-11
Ex-reduction adaptor, polyamide, M32-M20	SN-005915-01	01	2023-01-11
Ex-reduction adaptor, polyamide, M40-M32	SN-005916-01	01	2023-01-13
Ex-reduction adaptor, polyamide, M50-M40	SN-005917-01	01	2023-01-04
Ex-reduction adaptor, polyamide, M40-M20	SN-005918-01	01	2023-01-11
Ex-reduction adaptor, polyamide, M40-M25	SN-005919-01	01	2023-01-12
Ex-reduction adaptor, polyamide, M50-M20	SN-005920-01	01	2023-01-11
Ex-reduction adaptor, polyamide, M50-M25	SN-005921-01	01	2023-01-12
Ex-reduction adaptor, polyamide, M50-M32	SN-005922-01	01	2023-01-13
Ex-reduction adaptor, polyamide, M63-M20	SN-005923-01	01	2023-01-11
Ex-reduction adaptor, polyamide, M63-M25	SN-005924-01	01	2023-01-12
Ex-reduction adaptor, polyamide, M63-M32	SN-005925-01	01	2023-01-13
Ex-reduction adaptor, polyamide, M63-M40	SN-005926-01	01	2023-01-04
Ex-reduction adaptor, polyamide, M63-M50	SN-005927-01	01	2023-01-16
Ex-adaptor, polyamide, Pg16- M32	SN-005909-06	06	2023-01-04
Ex-adaptor, polyamide, Pg29- M32	SN-005928-06	06	2023-01-09
Ex-adaptor, polyamide, Pg29- M20	SN-005929-06	06	2023-01-09
Ex-adaptor, polyamide, Pg7- M12	SN-005930-06	06	2023-01-04
Ex-adaptor, polyamide, Pg7- M16	SN-005931-01	01	2023-01-03
Ex-adaptor, polyamide, Pg9- M12	SN-005932-01	01	2023-01-03
Ex-adaptor, polyamide, Pg9- M16	SN-005933-01	01	2023-01-03
Ex-adaptor, polyamide, Pg9- M20	SN-005934-01	01	2023-01-03

[13] [14]

Schedule
UK-TYPE EXAMINATION CERTIFICATE No.
UL22UKEX2674X Rev. 0

Title:	Drawing No.:	Rev. Level:	Date:
Ex-adaptor, polyamide, Pg11- M16	SN-005935-01	01	2023-01-03
Ex-adaptor, polyamide, Pg11- M20	SN-005936-01	01	2023-01-03
Ex-adaptor, polyamide, Pg11- M25	SN-005937-01	01	2023-01-03
Ex-adaptor, polyamide, Pg13,5-M16	SN-005938-01	01	2023-01-03
Ex-adaptor, polyamide, Pg13,5-M20	SN-005939-01	01	2023-01-03
Ex-adaptor, polyamide, Pg13,5-M25	SN-005940-01	01	2023-01-03
Ex-adaptor, polyamide, Pg16- M20	SN-005941-01	01	2023-01-03
Ex-adaptor, polyamide, Pg16- M25	SN-005942-01	01	2023-01-03
Ex-adaptor, polyamide, Pg21- M20	SN-005943-01	01	2023-01-03
Ex-adaptor, polyamide, Pg21- M25	SN-005944-01	01	2023-01-03
Ex-adaptor, polyamide, Pg21- M32	SN-005945-01	01	2023-01-03
Ex-adaptor, polyamide, Pg21- M40	SN-005946-01	01	2023-01-03
Ex-adaptor, polyamide, Pg29- M25	SN-005947-01	01	2023-01-03
Ex-adaptor, polyamide, Pg29- M40	SN-005948-01	01	2023-01-03
Ex-adaptor, polyamide, Pg29- MS0	SN-005949-01	01	2023-01-03
Ex-adaptor, polyamide, Pg36- M20	SN-005950-01	01	2023-01-03
Ex-adaptor, polyamide, Pg36- M25	SN-005951-01	01	2023-01-03
Ex-adaptor, polyamide, Pg36- M32	SN-005952-01	01	2023-01-03
Ex-adaptor, polyamide, Pg36- M40	SN-005953-01	01	2023-01-03
Ex-adaptor, polyamide, Pg36- M50	SN-005954-01	01	2023-01-03
Ex-adaptor, polyamide, Pg36- M63	SN-005955-01	01	2023-01-03
Ex-adaptor, polyamide, Pg42- M20	SN-005956-01	01	2023-01-03
Ex-adaptor, polyamide, Pg42- M25	SN-005957-01	01	2023-01-03
Ex-adaptor, polyamide, Pg42- M32	SN-005958-01	01	2023-01-03
Ex-adaptor, polyamide, Pg42- M40	SN-005959-01	01	2023-01-03
Ex-adaptor, polyamide, Pg42- M50	SN-005960-01	01	2023-01-03
Ex-adaptor, polyamide, Pg42- M63	SN-005961-01	01	2023-01-03
Ex-adaptor, polyamide, Pg48- M20	SN-005962-01	01	2023-01-03
Ex-adaptor, polyamide, Pg48- M25	SN-005963-01	01	2023-01-03
Ex-adaptor, polyamide, Pg48- M32	SN-005964-01	01	2023-01-03
Ex-adaptor, polyamide, Pg48- M40	SN-005965-01	01	2023-01-03
Ex-adaptor, polyamide, Pg48- M50	SN-005966-01	01	2023-01-03
Ex-adaptor, polyamide, Pg48- M63	SN-005967-01	01	2023-01-03