



# [1] Type Examination Statement Category 3 Equipment

[2] Equipment intended for use in potentially explosive atmospheres - ATEX

[3] Type Examination Statement number:

## IMQ 17 ATEX 017 X

[4] Product: Metal cable glands for armoured and not armoured cables  
type/series: **NAV \*\*\*; NAVN \*\*\*; NAVF \*\*\*; NEV \*\*\*; NEVX \*\*\*; NEVP \*\*\***

[5] Applicant: **CORTEM S.p.A. – Via Aquileia 10, 34070 Villesse (GO) – ITALY**

[6] Manufacturer: **CORTEM S.p.A. – Via Aquileia 10, 34070 Villesse (GO) – ITALY**

[7] This equipment and any acceptable variation thereto are specified in the annex to this statement and the documents therein referred to.

[8] IMQ states that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the: **Directive 2014/34/EU** with reference to the requirements covered by following standard. The examination and test results are recorded in confidential report no.

**AT17-0011294-01**

[9] Compliance with Essential Health and Safety Requirements given in the Directive and covered by the following standard, has been assured by conformity to the requirements of this standard:

**EN 60079-0:2012 + A11:2013 ; EN 60079-15:2010**

[10] If the sign "X" is placed after the statement number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This TYPE EXAMINATION STATEMENT relates only to the design, examination and tests of the specified equipment. Further requirements of the Directive 2014/34/EU are not covered by this statement.

[12] The marking of the equipment shall include the following:



**II 3G Ex nR IIC Gc**

THIS DOCUMENT IS COMPOSED OF 8 PAGES INCLUDING 1 ANNEX

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FIRST ISSUE: 2017-10-17





# Annex

[13]

[14] Type Examination Statement number: **IMQ 17 ATEX 017 X**

[15] Description of product:

The cable glands series NAV \*\*\*, NAVN \*\*\*, NAVF \*\*\*, NEV \*\*\*, NEVX \*\*\*, NEVP \*\*\* are designed for type of protection Ex nR.

The cable glands series NAV \*\*\*, NAVN \*\*\*, NAVF \*\*\* are suitable for not armoured cables, with circular section either with not-circular section (typically for use with flat "heating" cables).

The cable glands series NEV \*\*\*, NEVX \*\*\*, NEVP \*\*\* are suitable for armoured cables, with circular section.

Cable glands are made of metal body (nickel plated brass; galvanized steel; stainless steel), sealing rings are made of silicon for all types.

The cable gland for not-armoured cables comprise:

a main metallic body with silicone lower gasket (flameproof joint), a metallic/not-metallic made compression ring, a metallic clamping nut with silicone upper gasket.

The cable gland for armoured cables comprise:

a main metallic body with silicone lower gasket (flameproof joint), armoured tightening nuts, a metallic intermediate body, a metallic clamping nut with silicone upper gasket.

Additional details on compression rings, O-ring for IP, spacers and rings are detailed in Table 2.

Cable glands are provided, on the side attached to enclosure, with the following main mounting threads type:

NPT ANSI ASME B1.20.1

ISO METRIC pitch 1.5.

Other threads type are permitted, according to details listed in key code.

Protection degree IP66/67/68 is guaranteed by usage of suitable sealant put at least on two complete threads engaged of the threaded coupling, according to manufacturer's instructions.

IPx8 is achieved at the following conditions: 3 bar for 12 hours.

Cable glands are suitable for high mechanical risk (7J).

Brand name: **CORTEM; ELFIT; CORTEM GROUP**

For details, see technical note A4-6746 rev.0 of 2017-08-01 and instructions manual F-450 rev.0 of 2017-08-01 listed in DL-AT17-0011294-01.

**IMQ 17 ATEX 017 X**

2/8

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*This Test Certificate is the result of testing a sample of the product submitted, in accordance with the provisions of the specified Technical Specifications/Standards. It is issued according to product certification system of EN ISO/IEC 17067; therefore, it does not imply any judgment on the production and it does not permit the use of a mark of conformity. Only full reproductions of this Certificate are allowed without written permission of IMQ.*

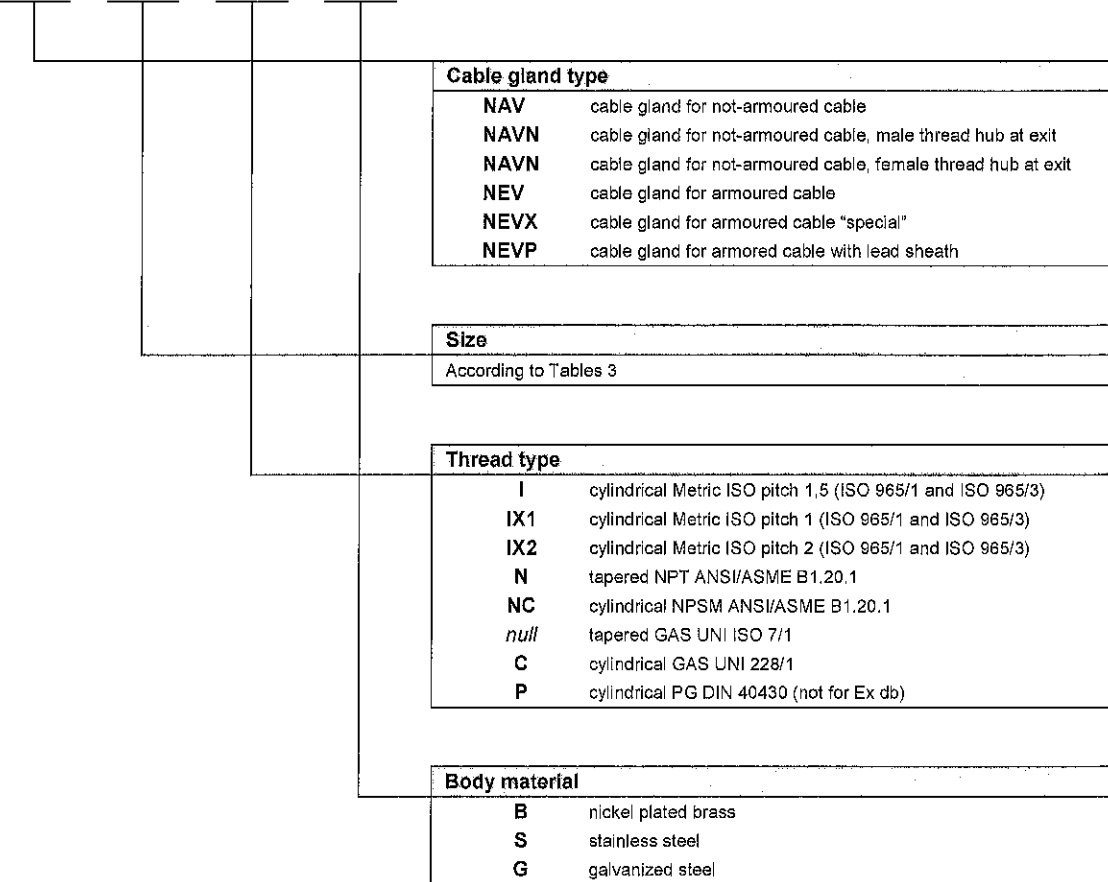




[15.1] Models/Series Identification:

Key code:

NAV \* \* \*



Serie:	Rated ambient temperature	Cable type
NAV *** NAVN *** NAVF ***	-60 + 130 °C	Circular, not-armoured Flat (i.e. heating cables), not-armoured
NEV *** NEVX ***	-60 + 130 °C	Circular, armoured
NEVP ***	-60 + 130 °C	Circular, armoured (lead sheath)

IMQ17ATEX017X

3/8

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Series	Body materials	Sealing rings material	O-ring gasket	Compression ring	Conical armour rings	Spacers/internal rings
NAV*** NAVN*** NAVF***	Nickel plated brass Galvanized steel Stainless steel	Silicone	Silicone	Nickel plated brass Galvanized steel Stainless steel Aluminium Plastic (PPS)	-	Teflon
NEV*** NEVX***	Nickel plated brass Galvanized steel Stainless steel	Silicone	Silicone	-	Nickel plated brass Galvanized steel Stainless steel	Teflon
NEVP***	Nickel plated brass Galvanized steel Stainless steel	Silicone	Silicone	-	Nickel plated brass Galvanized steel Stainless steel	Teflon Steel/Brass for connection to lead sheath

<sup>1</sup> Non-metallic materials are suitable for declared service temperature of cable glands: -60 + 130 °C

Cable gland sizes:

Model (Metric)	Metric thread pitch 1.5	Model (NPT)	NPT thread	Clamping range min-max cable Ød mm	Torque value [Nm]	Clamping limitation (X)
NAV 16 I * NAVN 16 I * NAVF 16 I *	M16x1.5	NAV 01 N * NAVN 01 N * NAVF 01 N *	3/8"	3.5-8.6 4-8.6	25	Yes No
NAV 20S I * NAVN 20S I * NAVF 20S I *	M20x1.5	NAV 1S N * NAVN 1S N * NAVF 1S N *	1/2"	6.3-11.6 6.3-11.6	35	Yes No
NAV 20 I * NAVN 20 I * NAVF 20 I *	M20x1.5	NAV 1 N * NAVN 1 N * NAVF 1 N *	1/2"	6.5-14 6.5-14	35	Yes No
NAV 25 I * NAVN 25 I * NAVF 25 I *	M25x1.5	NAV 2 N * NAVN 2 N * NAVF 2 N *	3/4"	11-20 12-20	45	Yes No
NAV 32 I * NAVN 32 I * NAVF 32 I *	M32x1.5	NAV 3 N * NAVN 3 N * NAVF 3 N *	1"	17-27 20-27	85	Yes No
NAV 40 I * NAVN 40 I * NAVF 40 I *	M40x1.5	NAV 4 N * NAVN 4 N * NAVF 4 N *	1" 1/4	22-32 24-32	85	Yes No
NAV 50S I * NAVN 50S I * NAVF 50S I *	M50x1.5	NAV 5S N * NAVN 5S N * NAVF 5S N *	1" 1/2	29.5-38	90	No
NAV 50 I * NAVN 50 I * NAVF 50 I *	M50x1.5	NAV 5 N * NAVN 5 N * NAVF 5 N *	1" 1/2	35.5-44	90	No
NAV 63S I * NAVN 63S I * NAVF 63S I *	M63x1.5	NAV 6S N * NAVN 6S N * NAVF 6S N *	2"	40-50	95	No
NAV 63 I * NAVN 63 I * NAVF 63 I *	M63x1.5	NAV 6 N * NAVN 6 N * NAVF 6 N *	2"	47-56	95	No
NAV 75S I * NAVN 75S I * NAVF 75S I *	M75x1.5	NAV 7S N * NAVN 7S N * NAVF 7S N *	2" 1/2	53-62	100	No
NAV 75 I * NAVN 75 I * NAVF 75 I *	M75x1.5	NAV 7 N * NAVN 7 N * NAVF 7 N *	2" 1/2	59-68	110	No
NAV 90 I * NAVN 90 I * NAVF 90 I *	M90x1.5	NAV 8 N * NAVN 8 N * NAVF 8 N *	3"	66-79	120	No
NAV 100 I * NAVN 100 I * NAVF 100 I *	M100x1.5	NAV 8 N * NAVN 9 N * NAVF 9 N *	3" 1/2	76-91	150	No
NAV 115 I * NAVN 115 I * NAVF 115 I *	M115x1.5	NAV 10 N * NAVN 10 N * NAVF 10 N *	4"	86-98	170	No

<sup>2</sup> metric pitch 1.5 and NPT threads cable glands sizes are shown; models with other threads, as detailed in Key Code, are available. Full list in drawings listed to Certificate



Table 3.2<sup>2</sup>: Cable glands for not-circular (flat), not-armoured cables - Series: NAV \*\*\*; NAVN \*\*\*; NAVF \*\*\*

Model (Metric)	Metric thread pitch 1.5	Model (NPT)	NPT thread	Cable dimensions axb (mm)	Torque value [Nm]	Clamping limitation (X)
NAV 18 I * NAVN 16 I * NAVF 16 I *	M16x1.5	NAV 01 N * NAVN 01 N * NAVF 01 N *	3/8"	7.7x5.5	20	Yes
NAV 20 I * NAVN 20 I * NAVF 20 I *	M20x1.5	NAV 1 N * NAVN 1 N * NAVF 1 N *	1/2"	7.7x5.5	30	Yes
NAV 20 I * NAVN 20 I * NAVF 20 I *	M20x1.5	NAV 1 N * NAVN 1 N * NAVF 1 N *	1/2"	8.7x3.5	30	Yes
NAV 20 I * NAVN 20 I * NAVF 20 I *	M20x1.5	NAV 1 N * NAVN 1 N * NAVF 1 N *	1/2"	9.7x4.1	30	Yes
NAV 20 I * NAVN 20 I * NAVF 20 I *	M20x1.5	NAV 1 N * NAVN 1 N * NAVF 1 N *	1/2"	10.2x4.1	30	Yes
NAV 20 I * NAVN 20 I * NAVF 20 I *	M20x1.5	NAV 1 N * NAVN 1 N * NAVF 1 N *	1/2"	10.7x4.6	30	Yes
NAV 20 I * NAVN 20 I * NAVF 20 I *	M20x1.5	NAV 1 N * NAVN 1 N * NAVF 1 N *	1/2"	10.7x5.1	30	Yes
NAV 20 I * NAVN 20 I * NAVF 20 I *	M20x1.5	NAV 1 N * NAVN 1 N * NAVF 1 N *	1/2"	10.7x6.1	30	Yes
NAV 20S I * NAVN 20S I * NAVF 20S I *	M20x1.5	NAV 1S N * NAVN 1S N * NAVF 1S N *	1/2"	7.7x5.5	25	Yes
NAV 20S I * NAVN 20S I * NAVF 20S I *	M20x1.5	NAV 1S N * NAVN 1S N * NAVF 1S N *	1/2"	8.7x3.5	25	Yes
NAV 20S I * NAVN 20S I * NAVF 20S I *	M20x1.5	NAV 1S N * NAVN 1S N * NAVF 1S N *	1/2"	9.7x4.1	25	Yes
NAV 20S I * NAVN 20S I * NAVF 20S I *	M20x1.5	NAV 1S N * NAVN 1S N * NAVF 1S N *	1/2"	10.2x4.1	25	Yes
NAV 20S I * NAVN 20S I * NAVF 20S I *	M20x1.5	NAV 1S N * NAVN 1S N * NAVF 1S N *	1/2"	10.7x4.6	25	Yes
NAV 20S I * NAVN 20S I * NAVF 20S I *	M20x1.5	NAV 1S N * NAVN 1S N * NAVF 1S N *	1/2"	10.7x5.1	25	Yes
NAV 20S I * NAVN 20S I * NAVF 20S I *	M20x1.5	NAV 1S N * NAVN 1S N * NAVF 1S N *	1/2"	10.7x6.1	25	Yes
NAV 20S I * NAVN 20S I * NAVF 20S I *	M20x1.5	NAV 1S N * NAVN 1S N * NAVF 1S N *	1/2"	11.7x5.6	25	Yes
NAV 25 I * NAVN 25 I * NAVF 25 I *	M25x1.5	NAV 2 N * NAVN 2 N * NAVF 2 N *	3/4"	7.7x5.5	40	Yes
NAV 25 I * NAVN 25 I * NAVF 25 I *	M25x1.5	NAV 2 N * NAVN 2 N * NAVF 2 N *	3/4"	8.7x3.5	40	Yes
NAV 25 I * NAVN 25 I * NAVF 25 I *	M25x1.5	NAV 2 N * NAVN 2 N * NAVF 2 N *	3/4"	9.7x4.1	40	Yes
NAV 25 I * NAVN 25 I * NAVF 25 I *	M25x1.5	NAV 2 N * NAVN 2 N * NAVF 2 N *	3/4"	10.2x4.1	40	Yes
NAV 25 I * NAVN 25 I * NAVF 25 I *	M25x1.5	NAV 2 N * NAVN 2 N * NAVF 2 N *	3/4"	10.7x4.6	40	Yes
NAV 25 I * NAVN 25 I * NAVF 25 I *	M25x1.5	NAV 2 N * NAVN 2 N * NAVF 2 N *	3/4"	10.7x5.1	40	Yes
NAV 25 I * NAVN 25 I * NAVF 25 I *	M25x1.5	NAV 2 N * NAVN 2 N * NAVF 2 N *	3/4"	10.7x6.1	40	Yes
NAV 25 I * NAVN 25 I * NAVF 25 I *	M25x1.5	NAV 2 N * NAVN 2 N * NAVF 2 N *	3/4"	11.7x5.6	40	Yes

<sup>2</sup> metric pitch 1.5 and NPT threads cable glands sizes are shown; models with other threads, as detailed in Key Code, are available. Full list in drawings listed to Certificate

IMQ17ATEX017X

5/8

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Mod. 3581/0



Table 3.3<sup>2</sup>: Cable glands for circular, armoured cables - Series: NEV \*\*\*; NEVP \*\*\*

Model (Metric)	Metric thread pitch 1.5	Model (NPT)	NPT thread	Clamping range inner sealing ring min-max cable Ød mm	Torque value inner sealing ring [Nm]	Clamping range outer sealing ring min-max cable ØD mm	Torque value outer sealing ring [Nm]	Clamping limitation (X)
NEV 16 I *	M16x1.5	NEV 01 N *	3/8"	3.5-8.6	25	6-13.2	Nut to be tightened until the cable gland gasket touches the outer cable sheath, then tighten one more turn of the nut	Yes
NEVP 16 I *		NEVP 01 N *		4-8.6				No
NEV 20S I *	M20x1.5	NEV 1S N *	1/2"	6.3-11.6	35	9.5-16		Yes
NEVP 20S I *		NEVP 1S N *		6.3-11.6				No
NEV 20 I *	M20x1.5	NEV 1 N *	1/2"	6.5-14	35	12.5-21		Yes
NEVP 20 I *		NEVP 1 N *		6.5-14				No
NEV 25 I *	M25x1.5	NEV 2 N *	3/4"	11-20	45	20-27.5		Yes
NEVP 25 I *		NEVP 2 N *		12-20				No
NEV 32 I *	M32x1.5	NEV 3 N *	1"	17-27	85	23.5-34		Yes
NEVP 32 I *		NEVP 3 N *		20-27				No
NEV 40 I *	M40x1.5	NEV 4 N *	1 1/4"	22-32	85	26-40		Yes
NEVP 40 I *		NEVP 4 N *		24-32				No
NEV 50S I *	M50x1.5	NEV 5S N *	1 1/2"	29.5-38	90	35-46.5		No
NEVP 50S I *		NEVP 5S N *						
NEV 50 I *	M50x1.5	NEV 5 N *	1 1/2"	35.5-44	90	38-53		No
NEVP 50 I *		NEVP 5 N *						
NEV 63S I *	M63x1.5	NEV 6S N *	2"	40-50	95	45.5-59.5		No
NEVP 63S I *		NEVP 6S N *						
NEV 63 I *	M63x1.5	NEV 6 N *	2"	47-56	95	54.5-66		No
NEVP 63 I *		NEVP 6 N *						
NEV 75S I *	M75x1.5	NEV 7S N *	2 1/2"	53-62	100	57-72	No	
NEVP 75S I *		NEVP 7S N *						
NEV 75 I *	M75x1.5	NEV 7 N *	2 1/2"	59-68	100	66.5-78.5	No	
NEVP 75 I *		NEVP 7 N *						
NEV 90 I *	M90x1.5	NEV 8 N *	3"	66-79	???	76.5-90	No	
NEVP 90 I *		NEVP 8 N *						
NEV 100 I *	M100x1.5	NEV 9 N *	3 1/2"	76-91	???	86-101	No	
NEVP 100 I *		NEVP 9 N *						
NEV 115 I *	M115x1.5	NEV 10 N *	4"	86-98	???	100-110	No	
NEVP 115 I *		NEVP 10 N *						

Table 3.4<sup>2</sup>: Cable glands for circular, armoured cables - Serie: NEVX \*\*\*

Model (Metric)	Metric thread pitch 1.5	Model (NPT)	NPT thread	Clamping range inner sealing ring min-max cable Ød mm	Torque value inner sealing ring [Nm]	Clamping range outer sealing ring min-max cable ØD mm	Torque value outer sealing ring [Nm]	Clamping limitation (X)
NEVX 20S I *	M20x1.5	NEVX 1S N *	1/2"	3.5-8.6	35	9.5-16	Nut to be tightened until the cable gland gasket touches the outer cable sheath, then tighten one more turn of the nut	Yes
NEVX 20 I *		NEVX 1 N *		4-8.6				No
NEVX 25 I *	M25x1.5	NEVX 2 N *	3/4"	6.3-11.6	45	20-27.5		Yes
NEVX 25 I *		NEVX 2 N *		6.3-11.6				No
NEVX 32 I *	M32x1.5	NEVX 3 N *	1"	6.5-14	85	23.5-34		Yes
NEVX 32 I *		NEVX 3 N *		8.5-14				No
NEVX 40 I *	M40x1.5	NEVX 4 N *	1 1/4"	11-20	85	26-40		Yes
NEVX 40 I *		NEVX 4 N *		12-20				No
NEVX 50S I *	M50x1.5	NEVX 5S N *	1 1/2"	17-27	90	35-46.5		Yes
NEVX 50 I *		NEVX 5 N *		20-27				No
NEVX 50 I *	M50x1.5	NEVX 5 N *	1 1/2"	22-32	90	38-53		Yes
NEVX 50 I *		NEVX 5 N *		24-32				No
NEVX 63S I *	M63x1.5	NEVX 6S N *	2"	29.5-38	95	45.5-59.5		No
NEVX 63 I *		NEVX 6 N *						
NEVX 63 I *	M63x1.5	NEVX 6 N *	2"	35.5-44	95	54.5-66		No
NEVX 63 I *		NEVX 6 N *						
NEVX 75S I *	M75x1.5	NEVX 7S N *	2 1/2"	40-50	100	57-72		No
NEVX 75 I *		NEVX 7 N *						
NEVX 75 I *	M75x1.5	NEVX 7 N *	2 1/2"	47-56	110	66.5-78.5		No
NEVX 75 I *		NEVX 7 N *						
NEVX 90 I *	M90x1.5	NEVX 8 N *	3"	53-62	120	76.5-90	No	
NEVX 90 I *		NEVX 8 N *						
NEVX 100 I *	M100x1.5	NEVX 9 N *	3 1/2"	59-68	150	86-101	No	
NEVX 100 I *		NEVX 9 N *						
NEVX 115 I *	M115x1.5	NEVX 10 N *	4"	66-79	170	100-110	No	
NEVX 115 I *		NEVX 10 N *						

<sup>2</sup> metric pitch 1.5 and NPT threads cable glands sizes are shown; models with other threads, as detailed in Key Code, are available. Full list in drawings listed to Certificate

[15.2] Ratings:

According to Table 1, for more details see drawings and instructions manual listed in DL- AT17-001.1294-01.

[15.3] Safety Ratings: -

[15.4] Ambient temperature and temperature range:

Cable glands NAV \*\*\*; NAVN \*\*\*; NAVF \*\*\*; NEV \*\*\*; NEVX \*\*\*; NEVP \*\*\* have the working temperature of -60°C ÷ +130°C, refers to Technical Note A4-6746 rev.0 of 2017-08-01.

[15.5] Degree of protection (IP code): IP66/67/68

IMQ 17ATEX017X

6/8

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IPx8 is achieved at the following conditions: 3 bar for 12 hours.

[15.6] Warnings: -

[16] Report: AT17-0011294-01

[16.1] Routine (factory) tests:

The manufacturer must carry out the routine test prescribed at clauses 27 of the EN 60079-0.

[16.2] Conformity with the documentation:

The manufacturer shall carry out the verifications or tests necessary to ensure that the product complies with the documentation.

Marking the equipment in accordance with Clause 29 of EN 60079-0, the manufacturer attests on his own responsibility that:

- the equipment has been constructed in accordance with the applicable requirements of the relevant standards in safety matters;
- the routine verifications and routine tests in 28.1 of EN 60079-0 have been successfully completed with positive results.

[16.3] Installation conditions:

Above referred equipment is foreseen to be installed in locations where there are environmental conditions, as clearly specified at clause 1, par. 2 of EN 60079-0.

Installation and use in atmospheric and environmental conditions that are out of above mentioned intervals requires special considerations and additional measures by the side of installer or user.

These should be specified to the manufacturer by the user; it is not required by applicable standard listed in [9] that the certification body confirm suitability for the adverse conditions.

The installation shall be done according to safety manufacturer instructions to maintain degree of protection.

[17] Special Condition of use (X):

The cable glands are only suitable for fixed installations.

Where cable glands have clamping limitations according to EU-TYPE EXAMINATION CERTIFICATE n° IMQ 17 ATEX 016 X, cables shall be effectively clamped to prevent pulling or twisting.

[18] Essential Health and safety Requirements:

This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed in [9].

This Certificate **does not** cover hazards coming from environmental conditions different from those clearly and precisely indicated and covered in clause 1 of EN 60079-0.

ESHR 1.2.7: According Annex VIII of the Directive

ESHR 1.4: Not verified.

ESHR 1.5: Not verified.

ESHR 3: Not applied.

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at [9], the following are considered relevant to this product, and conformity is demonstrated in the report:

N/A: additional Requirements for the products have not been considered.

[19] Descriptive documents: DL- AT17-0011294-01, rev. 0, dated 2017-10-07, 63 pages.

[20] Statement Validity Conditions:

The use of this Certificate is subject to the Certification Scheme and to the Regulation applicable to holders of IMQ Certificates.

The validity of this certificate is subject to the condition that the manufacturer complies with the results of the document review and of the pertinent requirement if any included, recorded in the relevant copy of documentation as per 10.

IMQ 17 ATEX 017 X

7/8

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- [21] In accordance with Article 41 of Directive 2014/34/EU, Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. New issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.
- [22] Variations:

IMQ 17 ATEX 017 X  
8/8

*Questo Certificato di Prova è il risultato delle prove effettuate sul campione di prodotto presentato, seguendo le prescrizioni delle norme/ specifiche tecniche citate. È emesso in conformità al sistema di certificazione di prodotto della norma EN ISO/IEC 17067; pertanto, non implica un giudizio sulla produzione e non permette l'uso di un marchio di conformità. Solo la completa riproduzione di questo Certificato è permessa senza l'autorizzazione scritta dell'IMQ.*

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