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 IMQ 17.0010X**

Page 1 of 4

Certificate history:
Issue 0 (2017-10-11)

Status: **Current**

Issue No: 1

Date of Issue: 2022-01-31

Applicant: **CORTEM S.p.A.**
Via Aquileia, 10 – 34070 Villesse (GO)
Italy

Equipment: **Metal cable glands for armoured and not armoured cables, series: NAV***; NAVN***; NAVF***; NEV***;NEVX***; NEVL***; NAVNS***; NAVFS***

Optional accessory:

Type of Protection: **"Flameproof enclosures" Ex db; "Increased safety" Ex eb; "Dust ignition protection" Ex tb; "Restricted breathing" Ex nR**

Marking: Ex db IIC Gb ; Ex eb IIC Gb

Ex tb IIIC Db

Ex nR IIC Gc

Approved for issue on behalf of the IECEx Certification Body: **Mr. Mauro CASARI**

Position: **IMQ ExCB Manager**

Signature:
(for printed version)

Date:
(for printed version)

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:

Istituto Italiano del Marchio di Qualità S.p.A
Via Quintiliano 43
20138 Milano
Italy

IECEx Certificate of Conformity

Certificate No.: **IECEx IMQ 17.0010X**

Date of issue: 2022-01-31

Issue No: 1

Manufacturer: **CORTEM S.p.A.**
Via Aquileia, 10 – 34070 Villesse (GO)
Italy

Additional manufacturing locations: **ELFIT S.p.a**
Via Aquileia 12
34070 Villesse (GO)
Italy

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

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-15:2017 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:5.0

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

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

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:

IT/IMQ/ExTR17.0011/01

Quality Assessment Report:

IT/CES/QAR06.0002/15

IECEx Certificate of Conformity

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

The cable glands series NAV…, NEV… are designed for the type of protection flameproof enclosures Ex db IIC and for the type of protection increased safety Ex eb IIC, Ex nR IIC.
The cable glands of the series are also protected against the risk of explosion for the presence of combustible dust Ex tb IIIC.
These cable glands can be used in Ex i intrinsic safety circuits. In this case the cable gland have a part painted in light blue.
The cable glands series NAV ***; NAVN ***; NAVF ***; NAVNS***; NAVFS** 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 ***; NEVL *** 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 comprises: 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 comprises: 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 Annex to Certificate.

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 types of thread are permitted, according to details listed in key code.
Protection degree IP66/68 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).
The cable glands, fitted with insert cap or not, and plugs are suitable for gas and dust atmosphere (EPLs Gb and Db).
The temperature range is detailed in Table 1 below.
All cable glands must be supplied with flat washer/O-ring for IP protection.
All plugs must be supplied with flat washer for IP protection.
Materials are detailed in in Annex to Certificate.

Trademark: CORTEM; ELFIT; CORTEM Group

Full details in Annex to Certificate.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The cable glands are only suitable for fixed installations. Only for cable glands with clamping limitation (depending on models and sizes, as specified in Annex to Certificate) it is mandatory effectively clamp the cables in order to avoid pulling or twisting.
- The coupling of the cable glands to the enclosure in relation to threads type and torque values of clamping shall be made as indicated in manufacturer’s instructions, in order to respect the type of protection of the electrical apparatus on which cable glands are mounted.
- The cable gland installation shall be done according to safety manufacturer instructions to maintain degree of protection.
- The cable gland installation shall be done in such a way that the temperature at the mounting point will remain within the service temperature ranges declared in this certificate.
- Cable glands for non circular cables shall be fitted with proper cables, suitable for sealing ring, according to manufacturer’s instruction.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Issue 1:

- Update new standards
- Add new size ISO M12 (NPT 1/4”)
- Add new slot size for flat cable
- Add new version NAVNS and NAVFS: Swivel type
- Rename NEVP in NEVL

Annex:

IECEx IMQ 17.0010X issue No. 1 Annex.pdf

General description

The cable glands series NAV…, NEV… are designed for the type of protection flameproof enclosures Ex db IIC and for the type of protection increased safety Ex eb IIC, Ex nR IIC.

The cable glands of the series are also protected against the risk of explosion for the presence of combustible dust Ex tb IIIC.

These cable glands can be used in Ex i intrinsic safety circuits. In this case the cable gland have a part painted in light blue.

The cable glands series NAV ***; NAVN ***; NAVF ***; NAVNS***; NAVFS** 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 ***; NEVL *** 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 comprises: 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 comprises: 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 types of thread are permitted, according to details listed in key code.
Protection degree IP66/68 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).
The cable glands, fitted with insert cap or not, and plugs are suitable for gas and dust atmosphere (EPLs Gb and Db).
The temperature range is detailed in Table 1 below.
All cable glands must be supplied with flat washer/O-ring for IP protection.
All plugs must be supplied with flat washer for IP protection.
Materials are detailed in Table 1 below.

Trademark: CORTEM; ELFIT; CORTEM Group

Design options and Models sizes

Table 1: Rated ambient temperature range (°C) and cables		
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
NEVL ***	-60 ÷ 130 °C	Circular, armoured (lead sheath)
NAVNS *** NAVFS ***	-60 ÷ 130 °C	Swivel, not armoured

Table 2: Materials [1]						
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
NEVL ***	Nickel plated brass Galvanized steel Stainless steel	Silicone	Silicone	-	Nickel plated brass Galvanized steel Stainless steel	Teflon Steel/Brass for connection to lead sheath
NAVNS *** NAVFS ***	Nickel plated brass Galvanized steel Stainless steel	Silicone	Silicone	-	-	-
[1] Non-metallic materials are suitable for declared service temperature of cable glands: -60 ÷ 130 °C						

Table 3.1[2]: Cable glands for circular, not-armoured cables - Series: NAV ***; NAVN ***; NAVF ***						
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 12 I * NAVN 12 I * NAVF 12 I *	M12x1.5	NAV 02 N * NAVN 02 N * NAVF 02 N *	1/4”	3.0-6.0	25	Yes
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	25	Yes
				4-8.6		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	35	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	35	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	45	Yes
				12-20		No
NAV 32 I * NAVN 32 I * NAVF 32 I *	M32x1.5	NAV 3 N * NAVN 3 N * NAVF 3 N *	1”	17-27	85	Yes
				20-27		No
NAV 40 I * NAVN 40 I * NAVF 40 I *	M40x1.5	NAV 4 N * NAVN 4 N * NAVF 4 N *	1” ¼	22-32	85	Yes
				24-32		No
NAV 50S I * NAVN 50S I * NAVF 50S I *	M50x1.5	NAV 5S N * NAVN 5S N * NAVF 5S N *	1” ½	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” ½	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” ½	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” ½	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 9 N * NAVN 9 N * NAVF 9 N *	3” ½	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

[2] 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[2]: 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 16 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

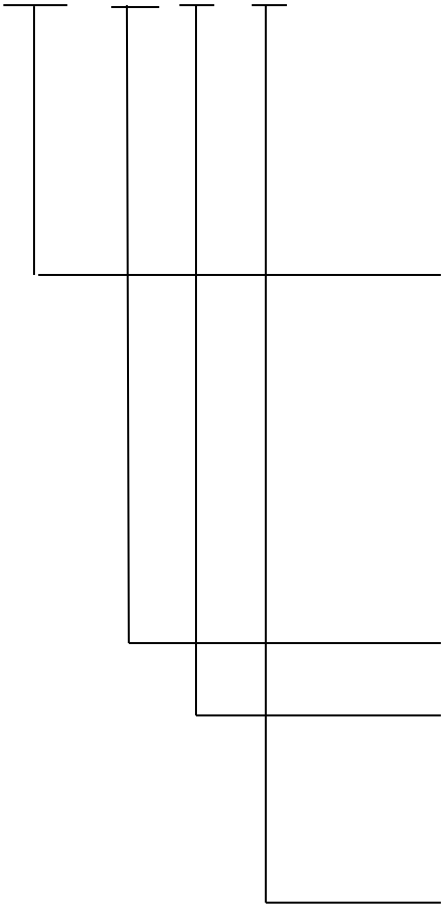
Table 3.3[2]: Cable glands for circular, armoured cables - Series: NEV ***; NEVL ***								
Model (Metric)	**Metric thread pitch 1.5**	**Model (NPT)**	**NPT thread**	**Clamping range inner sealing ring min-max cable Ød mm**	**Torque value inner sealing ring [Nm]**	**Clamping range outer sealing ring min-max cable ØD mm**	**Torque value outer sealing ring [Nm]**	**Clamping limitation (X)**
NEV 12 I * NEVL 12 I *	M12x1.5	NEV 02 N * NEVL 02 N *	1/4"	3.0-6.0	25	6-10	Nut to be tightened until the cable gland gasket touches the outer cable sheath, then tighten one more turn of the nut	No
NEV 16 I * NEVL 16 I *	M16x1.5	NEV 01 N * NEVL 01 N *	3/8"	3.5-8.6	25	6-13.2		Yes
				4-8.6				No
NEV 20S I * NEVL 20S I *	M20x1.5	NEV 1S N * NEVL 1S N *	1/2"	6.3-11.6	35	9.5-16		No
NEV 20 I * NEVL 20 I *	M20x1.5	NEV 1 N * NEVL 1 N *	1/2"	6.5-14	35	12.5-21		No
NEV 25 I * NEVL 25 I *	M25x1.5	NEV 2 N * NEVL 2 N *	3/4"	11-20	45	20-27.5		Yes
				12-20				No
NEV 32 I * NEVL 32 I *	M32x1.5	NEV 3 N * NEVL 3 N *	1"	17-27	85	23.5-34		Yes
				20-27				No
NEV 40 I * NEVL 40 I *	M40x1.5	NEV 4 N * NEVL 4 N *	1" ¼	22-32	85	26-40		Yes
				24-32				No
NEV 50S I * NEVL 50S I *	M50x1.5	NEV 5S N * NEVL 5S N *	1" ½	29.5-38	90	35-46.5		No
NEV 50 I * NEVL 50 I *	M50x1.5	NEV 5 N * NEVL 5 N *	1" ½	35.5-44	90	38-53		No
NEV 63S I * NEVL 63S I *	M63x1.5	NEV 6S N * NEVL 6S N *	2"	40-50	95	45.5-59.5		No
NEV 63 I * NEVL 63 I *	M63x1.5	NEV 6 N * NEVL 6 N *	2"	47-56	95	54.5-66		No
NEV 75S I * NEVL 75S I *	M75x1.5	NEV 7S N * NEVL 7S N *	2" ½	53-62	100	57-72		No
NEV 75 I * NEVL 75 I *	M75x1.5	NEV 7 N * NEVL 7 N *	2" ½	59-68	110	66.5-78.5		No
NEV 90 I * NEVL 90 I *	M90x1.5	NEV 8 N * NEVL 8 N *	3"	66-79	120	76.5-90		No
NEV 100 I * NEVL 100 I *	M100x1.5	NEV 9 N * NEVL 9 N *	3" ½	76-91	150	86-101		No
NEV 115 I * NEVL 115 I *	M115x1.5	NEV 10 N * NEVL 10 N *	4"	86-98	170	100-110		No

Table 3.4[2]: 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
				4-8.6				No
NEVX 20 I *	M20x1.5	NEVX 1 N *	1/2"	6.3-11.6	35	12.5-21		No
NEVX 25 I *	M25x1.5	NEVX 2 N *	3/4"	6.5-14	45	20-27.5		No
NEVX 32 I *	M32x1.5	NEVX 3 N *	1"	11-20	85	23.5-34		Yes
				12-20				No
NEVX 40 I *	M40x1.5	NEVX 4 N *	1" ¼	17-27	85	26-40		Yes
				20-27				No
NEVX 50S I *	M50x1.5	NEVX 5S N *	1" ½	22-32	90	35-46.5		Yes
				24-32				No
NEVX 50 I *	M50x1.5	NEVX 5 N *	1" ½	29.5-38	90	38-53		No
NEVX 63S I *	M63x1.5	NEVX 6S N *	2"	35.5-44	95	45.5-59.5		No
NEVX 63 I *	M63x1.5	NEVX 6 N *	2"	40-50	95	54.5-66		No
NEVX 75S I *	M75x1.5	NEVX 7S N *	2" ½	47-56	100	57-72		No
NEVX 75 I *	M75x1.5	NEVX 7 N *	2" ½	53-62	110	66.5-78.5		No
NEVX 90 I *	M90x1.5	NEVX 8 N *	3"	59-68	120	76.5-90		No
NEVX 100 I *	M100x1.5	NEVX 9 N *	3" ½	66-79	150	86-101		No
NEVX 115 I *	M115x1.5	NEVX 10 N *	4"	76-91	170	100-110		No

Table 3.5[2] Cable glands for circular, not-armoured cables + swivel metallic ring male hub- Serie: NAVNS *** - NAVFS***					
Model (Metric)	**Metric thread pitch 1.5**	**Model (NPT)**	**NPT thread**	**Cable dimensions axb (mm)**	**Torque value [Nm]**
NAVNS 12 I * NAVFS 12 I *	M12x1.5	NAVNS 02 N * NAVFS 02 N *	1/4”	3.0-6.0	25
NAVNS 16 I * NAVFS 16 I *	M16x1.5	NAVNS 01 N * NAVFS 01 N *	3/8”	3.5-8.6	25
NAVNS 20S I * NAVFS 20S I *	M20x1.5	NAVNS 1S N * NAVFS 1S N *	1/2"	6.3-11.6	35
NAVNS 20 I * NAVFS 20 I *	M20x1.5	NAVNS 1 N * NAVFS 1 N *	1/2"	6.5-14	35
NAVNS 25 I * NAVFS 25 I *	M25x1.5	NAVNS 2 N * NAVFS 2 N *	3/4"	11-20	45
NAVNS 32 I * NAVFS 32 I *	M32x1.5	NAVNS 3 N * NAVFS 3 N *	1”	17-27	85
NAVNS 40 I * NAVFS 40 I *	M40x1.5	NAVNS 4 N * NAVFS 4 N *	1” ¼	22-32	85
NAVNS 50S I * NAVFS 50S I *	M50x1.5	NAVNS 5S N * NAVFS 5S N *	1” ½	29.5-38	90
NAVNS 50 I * NAVFS 50 I *	M50x1.5	NAVNS 5 N * NAVFS 5 N *	1” ½	35.5-44	90
NAVNS 63S I * NAVFS 63S I *	M63x1.5	NAVNS 6S N * NAVFS 6S N *	2”	40-50	95
NAVNS 63 I * NAVFS 63 I *	M63x1.5	NAVNS 6 N * NAVFS 6 N *	2”	47-56	95
NAVNS 75S I * NAVFS 75S I *	M75x1.5	NAVNS 7S N * NAVFS 7S N *	2” ½	53-62	100
NAVNS 75 I * NAVFS 75 I *	M75x1.5	NAVNS 7 N * NAVFS 7 N *	2” ½	59-68	110
NAVNS 90 I * NAVFS 90 I *	M90x1.5	NAVNS 8 N * NAVFS 8 N *	3”	66-79	120
NAVNS 100 I * NAVFS 100 I *	M100x1.5	NAVNS 9 N * NAVFS 9 N *	3” ½	76-91	150
NAVNS 115 I * NAVFS 115 I *	M115x1.5	NAVNS 10 N * NAVFS 10 N *	4”	86-98	170

Key code:

… … … …



Cable gland type

NAV Cable gland for non armoured cable
NAVN Cable gland for non armoured cable, male thread
NAVF Cable gland for non armoured cable, female thread
NEV Cable gland for armoured cable
NEVX Cable gland for armoured cable "special"
NEVL Cable gland for lead sheath (new code)
NAVNS Cable gland for non armoured cable, male thread, swivel version
NAVFS Cable gland for non armoured cable, female thread, swivel version

Size (ISO: 12, 16, 20, 63S; NPT: 2, 5, 5S ecc.)

Thread (I=ISO pitch 1,5, IX1=ISO pitch 1, IX2=ISO pitch2 , N=NPT, NULL=ISO7/1, OTHER CODES)

Material (B=BRASS nichel plated, S=INOX, G=STEEL galvanized)

Conditions of use

The cable glands are only suitable for fixed installations. Only for cable glands with clamping limitation (depending on models and sizes, as specified in Tables 3) it is mandatory effectively clamp the cables in order to avoid pulling or twisting.

The coupling of the cable glands to the enclosure in relation to threads type and torque values of clamping shall be made as indicated in manufacturer's instructions, in order to respect the type of protection of the electrical apparatus on which cable glands are mounted.
The cable gland installation shall be done according to safety manufacturer instructions to maintain degree of protection.
The cable gland installation shall be done in such a way that the temperature at the mounting point will remain within the service temperature ranges declared in this certificate.

Cable glands for non circular cables shall be fitted with proper cables, suitable for sealing ring, according to manufacturer's instruction.