IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx IMQ 17.0010X

Issue No: 0

Certificate history:
Issue No. 0 (2017-10-11)

Status: **Current**

Date of Issue: **2017-10-11**

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

Equipment: **Metal cable glands for armoured and not armoured cables**

Optional accessory: *Series NAV ***; NAVN ***; NAVF ***; NEV ***; NEVX ***; NEVP ****

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:

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Certificate issued by:

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

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

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical 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/ExTR17.0011/00

Quality Assessment Report:

IT/CES/QAR06.0002/09 IT/CES/QAR06.0002/10 IT/CES/QAR06.0002/11

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The cable glands series NAV ***; NAVN ***; NAVF ***; NEV ***; NEVX ***; NEVP *** are suitable for inserting cables into Ex db enclosures having threaded entries and Ex eb or Ex tb enclosures having either threaded or plane entries.

These cable glands are designed also for type of protection Ex nR.

Cable glands can be used for intrinsically safe circuits Ex i: in this case the cable gland has a light blue painted part.

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 tighting 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 of separate Annex.

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 (see separate Annex).

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).

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 Tables 3) it is mandatory effectively clamp the cables in order to avoid pulling or twisting.

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- 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.

Annex:

IECEx IMQ 17.0010X issue No. 0 Annex.pdf

General description

The cable glands series NAV ***; NAVN ***; NAVF ***; NEV ***; NEVX ***; NEVP *** are suitable for inserting cables into Ex db enclosures having threaded entries and Ex eb or Ex tb enclosures having either threaded or plane entries.
These cable glands are designed also for type of protection Ex nR.
Cable glands can be used for intrinsically safe circuits Ex i: in this case the cable gland has a light blue painted part.

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 tighting 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

Markings

Ex db IIC Gb
Ex eb IIC Gb
Ex tb IIIC Db
Ex nR IIC Gc

Design options

Key code:

NAV * * *

Cable gland type	
NAV	cable gland for not-armoured cable
NAVN	cable gland for not-armoured cable, male thread hub at exit
NAVN	cable gland for not-armoured cable, female thread hub at exit
NEV	cable gland for armoured cable
NEVX	cable gland for armoured cable "special"
NEVP	cable gland for armored cable with lead sheath

Size
According to Tables 3

Thread type	
I	cylindrical Metric ISO pitch 1,5 (ISO 965/1 and ISO 965/3)
IX1	cylindrical Metric ISO pitch 1 (ISO 965/1 and ISO 965/3)
IX2	cylindrical Metric ISO pitch 2 (ISO 965/1 and ISO 965/3)
N	tapered NPT ANSI/ASME B1.20.1
NC	cylindrical NPSM ANSI/ASME B1.20.1
null	tapered GAS UNI ISO 7/1
C	cylindrical GAS UNI 228/1
P	cylindrical PG DIN 40430 (not for Ex db)

Body material	
B	nickel plated brass
S	stainless steel
G	galvanized steel

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
NEVP ***	-60 ÷ 130 °C	Circular, armoured (lead sheath)

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
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

[1] Non-metallic materials are suitable for declared service temperature of cable glands: -60 ÷ 130 °C

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.

Cable gland sizes:

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 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	Yes
				6.3-11.6		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	Yes
				6.5-14		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

[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 3.3[2]: 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 * NEVP 16 I *	M16x1.5	NEV 01 N * NEVP 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
				4-8.6				No
NEV 20S I * NEVP 20S I *	M20x1.5	NEV 1S N * NEVP 1S N *	1/2"	6.3-11.6	35	9.5-16		Yes
				6.3-11.6				No
NEV 20 I * NEVP 20 I *	M20x1.5	NEV 1 N * NEVP 1 N *	1/2"	6.5-14	35	12.5-21		Yes
				6.5-14				No
NEV 25 I * NEVP 25 I *	M25x1.5	NEV 2 N * NEVP 2 N *	3/4"	11-20	45	20-27.5		Yes
				12-20				No
NEV 32 I * NEVP 32 I *	M32x1.5	NEV 3 N * NEVP 3 N *	1"	17-27	85	23.5-34		Yes
				20-27				No
NEV 40 I * NEVP 40 I *	M40x1.5	NEV 4 N * NEVP 4 N *	1" ¼	22-32	85	26-40		Yes
				24-32				No
NEV 50S I * NEVP 50S I *	M50x1.5	NEV 5S N * NEVP 5S N *	1" ½	29.5-38	90	35-46.5		No
NEV 50 I * NEVP 50 I *	M50x1.5	NEV 5 N * NEVP 5 N *	1" ½	35.5-44	90	38-53		No
NEV 63S I * NEVP 63S I *	M63x1.5	NEV 6S N * NEVP 6S N *	2"	40-50	95	45.5-59.5		No
NEV 63 I * NEVP 63 I *	M63x1.5	NEV 6 N * NEVP 6 N *	2"	47-56	95	54.5-66		No
NEV 75S I * NEVP 75S I *	M75x1.5	NEV 7S N * NEVP 7S N *	2" ½	53-62	100	57-72		No
NEV 75 I * NEVP 75 I *	M75x1.5	NEV 7 N * NEVP 7 N *	2" ½	59-68	100	66.5-78.5		No
NEV 90 I * NEVP 90 I *	M90x1.5	NEV 8 N * NEVP 8 N *	3"	66-79	???	76.5-90		No
NEV 100 I * NEVP 100 I *	M100x1.5	NEV 9 N * NEVP 9 N *	3" ½	76-91	???	86-101		No
NEV 115 I * NEVP 115 I *	M115x1.5	NEV 10 N * NEVP 10 N *	4"	86-98	???	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		Yes
				6.3-11.6				No
NEVX 25 I *	M25x1.5	NEVX 2 N *	3/4"	6.5-14	45	20-27.5		Yes
				6.5-14				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

[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

Manufacturer's documentation

Safety, maintenance and mounting instructions, mod. F-450, rev. 0 dated 2017.08.01