IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

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Certificate No.: **IECEx IMQ 15.0009X**

Certificate history:
Issue 0 (2016-01-29)

Status: **Current**

Issue No: 1

Date of Issue: 2020-08-05

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

Equipment: **Polyamide cable glands for circular and flat cables**

Optional accessory: Serie: UN..X.4; PLG..X.4; UN..X.7, UN..X.7(DS); NAVP.., NAVP..(DS); UN..X.7(axb); PLG..X.7; PT

Type of Protection: **Ex eb; Ex tb**

Marking: Ex eb IIC Gb
Ex tb IIIC Db

Protection degree: IP66/68

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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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 15.0009X**

Date of issue: 2020-08-05 Issue No: 1

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

Additional manufacturing locations:

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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

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

IEC 60079-7:2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

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/ExTR15.0011/01

Quality Assessment Reports:

IT/CES/QAR06.0002/12 IT/CES/QAR06.0002/13 IT/CES/QAR06.0002/14

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

The polyamide cable glands series UN..X.4, UN..X.7, UN..X.7(DS), NAVP.., NAVP..(DS) are used to introduce permanently circular cables into enclosure.

The polyamide cable glands series UN..X.7(axb) are used to introduce permanently non-circular (flat) cables into enclosure.

Plugs series PLG..X.4 and PLG..X.7 are used to close unused cable entry of an enclosure.
Cable glands and plugs are suitable for electrical equipment either with type of protection Ex-e or type of protection Ex-t. Cable glands should be also used for intrinsically safe circuits Ex-i.

Cable glands UN..X.7(DS), NAVP..(DS) are provided with single (S1) or double (S1+S2) sealing rings.

Cable glands UN..X.7, NAVP.. are provided with single (S1) sealing rings only.

Cable glands series UN..X.7(axb) are provided with sealing ring specific for non-circular (flat cables), sealing ring hole dimensions are specified in brackets.

Cable glands UN..X.4, UN..X.7, UN..X.7(DS), NAVP.., NAVP..(DS) can be supplied with tap, polyamide made, as accessory (PT) suitable to guarantee IP degree when installed according to manufacturer's instructions.
Additionally, dust plugs are used for Ex polyamide cable glands to protect the glands from dust during the shipment. It is taken out during installation.

Details on sealing rings material, flat washer (placed between the body and the cover of enclosures materials and limitations are listed in Annex

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The cable glands are only suitable for fixed installations. Cables shall be effectively clamped to prevent pulling or twisting.
- The cable glands/plugs and the relevant cables, shall be used where a protection against risk of mechanical damage is provided, when they are suitable for low mechanical risk (4J) only for UN..X.4 and PLG..X.4 .
- The cable gland installation shall be done according to safety manufacturer instructions to maintain degree of protection.
- For gas installations (only for cable glands with M50/PG42/PF 1 ½"/NPT 1 ½" threads and following) and dust installations: Warning. Potential electrostatic charging hazard - See instructions. Clean only with antistatic clothes.
- When cable glands are installed with polyamide insert PT mechanical risk have to be taken into account, depending on cable gland and insert tap. When insert tap is removed in order to install the proper cable, the integrity of sealing rings have to be checked, in order to guarantee the correct tightness. If necessary, sealing rings have to be replaced with new ones (original spare parts only).
- Cable glands for non circular cables shall be fitted with proper cables, suitable for sealing ring, according to this manufacturer's instruction

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
New models NAVP have been added to the certificate.

Standards update.

Annex:

IECEx IMQ16ATEX005X issue No. 1 Annex.pdf

General description

The polyamide cable glands series UN..X.4, UN..X.7, UN..X.7(DS), NAVP.., NAVP..(DS) are used to introduce permanently circular cables into enclosure.

The polyamide cable glands series UN..X.7(axb) are used to introduce permanently non-circular (flat) cables into enclosure.

Plugs series PLG..X.4 and PLG..X.7 are used to close unused cable entry of an enclosure.
Cable glands and plugs are suitable for electrical equipment either with type of protection Ex-e or type of protection Ex-t. Cable glands should be also used for intrinsically safe circuits Ex-i.

Cable glands UN..X.7(DS), NAVP..(DS) are provided with single (S1) or double (S1+S2) sealing rings.

Cable glands UN..X.7, NAVP.. are provided with single (S1) sealing rings only.

Cable glands series UN..X.7(axb) are provided with sealing ring specific for non-circular (flat cables), sealing ring hole dimensions are specified in brackets.

Cable glands UN..X.4, UN..X.7, UN..X.7(DS), NAVP.., NAVP..(DS) can be supplied with tap, polyamide made, as accessory (PT) suitable to guarantee IP degree when installed according to manufacturer's instructions. Additionally, dust plugs are used for Ex polyamide cable glands to protect the glands from dust during the shipment. It is taken out during installation.

Design options and Key code

Design options:

Table 1: Rated ambient temperature range (°C) of sealing material	
Series:	**Ex eb – Ex tb execution**
UN..X.4	Chloroprene (neoprene)/ silicon sealing ring: -40 ÷ +80 °C [2]
PLG..X.4	-40 ÷ +80 °C
UN..X.7	NBR sealing ring: -30 ÷ +70 °C Chloroprene (neoprene) sealing ring: -40 ÷ +70 °C Silicon sealing ring: -60 ÷ +70 °C
NAVP..	NBR sealing ring: -30 ÷ +70 °C Chloroprene (neoprene) sealing ring: -40 ÷ +70 °C Silicon sealing ring: -60 ÷ +70 °C
UN..X.7(axb)	Silicon sealing ring: -60 ÷ +70 °C
UN..X.7(DS)	NBR sealing ring: -30 ÷ +70 °C Chloroprene (neoprene) sealing ring: -40 ÷ +70 °C Silicon sealing ring: -60 ÷ +70 °C
NAVP..(DS)	NBR sealing ring: -30 ÷ +70 °C Chloroprene (neoprene) sealing ring: -40 ÷ +70 °C Silicon sealing ring: -60 ÷ +70 °C
PLG..X.7	NBR flat washer: -30 ÷ +70 °C Chloroprene (neoprene) /EPDM rubber flat washer: -40 ÷ +70 °C Silicon flat washer: -60 ÷ +70 °C KLINGERSIL® C-4400 flat washer: -60 ÷ +70 °C

Notes

[1]Service temperature is related to material of sealing rings and polyamide which cable glands body is made of, but can be additionally limited by material of flat washer/O-Ring material temperature limitations:
Chloroprene (-40÷100 °C); silicone (-60÷180 °C); EPDM rubber (-40÷110 °C); KLINGERSIL® C-4400 fiber (-50÷130 °C); NBR (-40÷100 °C).
The use of these materials in flat washer/O-Ring shall be taken into account in determination of lower limit of service temperature of cable glands, while upper limit is 80 °C for series P..-X and H..-X, and 70°C for all other series.

2 When blue caps are used and/or when PT protection taps are used the service temperature changes to -40÷70 °C. Low mechanical risk (4J) shall beconsidered.

Table 2: Materials [1]					
Series	Body materials	Sealing rings material	Flat washer materials	O-ring	Mechanical risk
UN..X.4	polyamide	chloroprene (neoprene) silicone	chloroprene (neoprene) silicone KLINGERSIL® C-4400 EPDM rubber NBR	chloroprene (neoprene) silicone EPDM rubber	Low (4J)
PLG..X.4	polyamide	-	chloroprene (neoprene) silicone KLINGERSIL® C-4400 EPDM rubber NBR	-	Low (4J)
UN..X.7	polyamide	NBR chloroprene (neoprene) silicone	chloroprene (neoprene) silicone KLINGERSIL® C-4400 EPDM rubber NBR	chloroprene (neoprene) silicone EPDM rubber	High (7J)
NAVP..	polyamide	NBR chloroprene (neoprene) silicone	chloroprene (neoprene) silicone KLINGERSIL® C-4400 EPDM rubber NBR	chloroprene (neoprene) silicone EPDM rubber	High (7J)
UN..X.7(axb)	polyamide	silicone	chloroprene (neoprene) silicone KLINGERSIL® C-4400 EPDM rubber NBR	chloroprene (neoprene) silicone EPDM rubber	High (7J)
UN..X.7(DS)	polyamide	NBR chloroprene (neoprene) silicone	chloroprene (neoprene) silicone KLINGERSIL® C-4400 EPDM rubber NBR	chloroprene (neoprene) silicone EPDM rubber	High (7J)
NAVP..(DS)	polyamide	NBR chloroprene (neoprene) silicone	chloroprene (neoprene) silicone KLINGERSIL® C-4400 EPDM rubber NBR	chloroprene (neoprene) silicone EPDM rubber	High (7J)
PLG..X.7	polyamide	-	chloroprene (neoprene) silicone KLINGERSIL® C-4400 EPDM rubber NBR	-	High (7J)

Key code:

4 Jules Impact cable glands								
UN	(1)	(2)	X	(3)	4	-	(5)	
4 Jules Impact plugs								
PLG	(2)	(1)	X	(3)	4	-	(5)	
7 Jules Impact cable glands								
UN	(1)	(2)	X	(3)	7	-	(5)	
UN	(1)	(2)	X	(3)	7	-	(5)	(DS)
NAVP	(2)	(1)	X	E	-	(5)		
NAVP	(2)	(1)	X	E	-	(5)	DS	
7 Jules Impact cable glands for FLAT cables								
UN	(1)	(2)	X	(3)	7	-	(5)	(axb)
7 Jules Impact plugs								
PLG	(2)	(1)	X	(3)	7	-	(5)	
Protection tap								
PT	(2)							

(1) thread type:	"N" – NPT ANSI ASME B1.20.1 "I" – Metric ISO pitch 1,5 (ISO 965/1, ISO 965/2 and ISO 965/3) "P" – PG DIN 40430 "C" – PF ISO 228/1
(2) code for thread size	according to Assembly Tables
(3) cap colour:	"E" for black cap "I" for blue cap
(4) impact joule	"4" for 4J "7" for 7J
(5) body dimensional variant	if present, according to Assembly Tables

Specific conditions of Use:

• The cable glands are only suitable for fixed installations. Cables shall be effectively clamped to prevent pulling or twisting.

• The cable glands/plugs and the relevant cables, shall be used where a protection against risk of mechanical damage is provided, when they are suitable for low mechanical risk (4J) only for UN..X.4 and PLG..X.4 .

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

• For gas installations (only for cable glands with M50/PG42/PF 1 ½"/NPT 1 ½" threads and following) and dust installations: Warning. Potential electrostatic charging hazard - See instructions. Clean only with antistatic clothes.

• When cable glands are installed with polyamide insert PT mechanical risk have to be taken into account, depending on cable gland and insert tap. When insert tap is removed in order to install the proper cable, the integrity of sealing rings have to be checked, in order to guarantee the correct tightness. If necessary, sealing rings have to be replaced with new ones (original spare parts only).

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

Models sizes

Table 3.1: UN..X.4

Model	Thread	Min-max cable [mm]	Recommended Torque value (cap) [Nm]	Recommended torque value (body) [Nm]	Mechanical risk
UNI1XE4-SX2	M20x1.5	5,0-10,0	2,5	2,5	Low (4J)
UNI1XE4-X2	M20x1.5	6,0-12,0	5	5	
UNI1XE4-X2L	M20x1.5	6,0-12,0	5	5	
UNI1XE4-X3	M20x1.5	10,0-14,0	5,5	5,5	
UNI1XE4-X4	M20x1.5	10,0-14,0	5,5	5,5	
UNI2XE4-SX5	M25x1.5	10,0-14,0	5,5	5,5	
UNI2XE4-X5	M25x1.5	13,0-18,0	7	7	
UNI2XE4-SX6	M25x1.5	10,0-14,0	5,5	5,5	
UNI2XE4-X6	M25x1.5	13,0-18,0	7	7	
UNI2XE4-XEU25	M25x1.5	11,0-17,0	5	5	
UNI3XE4-XEU32	M32x1.5	15,0-21,0	6	6	
UNI3XE4-SX7	M32x1.5	13,0-18,0	7	7	
UNI3XE4-X7	M32x1.5	18,0-25,0	9	9	
UNI4XE4-XEU40	M40x1.5	19,0-28,0	5	5	
UNI4XE4-XEU40L	M40x1.5	19,0-28,0	5	5	
UNI4XE4-X8	M40x1.5	22,0-32,0	17	17	
UNI5XE4-X9	M50x1.5	30,0-38,0	22	22	
UNI6XE4-X10	M63x1.5	34,0-44,0	23	23	
UNN1XE4-SX2	NPT 1/2"	5,0-10,0	2,5	2,5	
UNN1XE4-X2	NPT 1/2"	6,0-12,0	5	5	
UNN1XE4-LX2	NPT 1/2"	10,0-14,0	5,5	5,5	
UNN2XE4-X3	NPT 3/4"	13,0-18,0	7	7	
UNN3XE4-x4	NPT 1"	18,0-25,0	9	9	
UNN4X.4-X8	NPT 1 ¼"	22,0-32,0	17	17	
UNN5X.4-X9	NPT 1 ½"	30,0-38,0	22	22	
UNN6X.4-X10	NPT 2"	34,0-44,0	23	23	
UNC1XE4-SX2	PF 1/2"	5,0-10,0	2,5	2,5	
UNC1XE4-X2	PF 1/2"	6,0-12,0	5	5	
UNC1XE4-LX2	PF 1/2"	10,0-14,0	5,5	5,5	
UNC2XE4-X3	PF 3/4"	13,0-18,0	7	7	
UNC3XE4-X4	PF 1"	18,0-25,0	9	9	
UNP4XE-X4	PG 13,5	6,0-12,0	5	5	
UNP5XE4-X5	PG 16	10,0-14,0	5,5	5,5	
UNP6XE4-X6	PG 21	13,0-18,0	7	7	
UNP7XE4-X7	PG 29	18,0-25,0	9	9	
UNP8XE4-X8	PG 36	22,0-32,0	17	17	
UNP9XE4-X9	PG 42	30,0-38,0	22	22	
UNP10XE4-X10	PG 48	34,0-44,0	23	23	

Table 3.2: PLG..X.4

Model				Torque value [Nm]	Mechanical risk
PLG02IXE4-X02	PLG02PXE4-X02	PLG02NXE4-X02	PLG02CXE4-X02	1,5	Low (4J)
PLG01IXE4-X01	PLG01PXE4-X01	PLG01NXE4-X01	PLG01CXE4-X01	1,5	
PLG1IXE4-X1	PLG1PXE4-X1	PLG1NXE4-X1	PLG1CXE4-X1	2	
PLG2IXE4-X2	PLG2PXE4-X2	PLG2NXE4-X2	PLG2CXE4-X2	2,5	
PLG3IXE4-X3	PLG3PXE4-X3	PLG3NXE4-X3	PLG3CXE4-X3	4	
PLG4IXE4-X4	PLG4PXE4-X4	PLG4NXE4-X4	PLG4CXE4-X4	6	
PLG5IXE4-X5	PLG5PXE4-X5	PLG5NXE4-X5	PLG5CXE4-X5	8	
PLG6IXE4-X6	PLG6PXE4-X6	PLG6NXE4-X6	PLG6CXE4-X6	10	

Table 3.3: UN..X.7 , NAVP..

Model	Model	Min-max cable [mm]	Torque value (cap) [Nm]	Recommended torque value (body) [Nm]	Mechanical risk
UNI02XE7	NAVP12IXE	4-6,5	2	2	High (7J)
UNI02LXE7	NAVP12IXE-X5	4-6,5	2	2	
UNI01XE7-SX1	NAVP12IXE-SX1	5-8	4	4	
UNI01XE7-SX1L	NAVP12IXE-SX1L	5-8	4	4	
UNI01XE7	NAVP12IXE-X1	6-10	4	4	
UNI01LXE7	NAVP16IXE	6-10	4	4	
UNI1XE7-SX2	NAVP16IXE-SX2	6-10	2,5	2,5	
UNI1XE7	NAVP16IXE-X2	7-12	5	5	
UNI1LXE7	NAVP20IXE	7-12	5	5	
UNI1XE7-MX2	NAVP20IXE-MX2	7-13	4,5	4,5	
UNI1XE7-X3	NAVP20IXE-X3	11-14	5,5	5,5	
UNI1XE7-X4	NAVP20IXE-X4	11-14	5,5	5,5	
UNI2XE7-SX5	NAVP25IXE-SX5	11-14	5,5	5,5	
UNI2XE7-SX6	NAVP25IXE-SX6	11-14	5,5	5,5	
UNI2XE7S	NAVP25IXE-XEU25	12-17	5	5	
UNI2LXE7S	NAVP25IXE-XEU25L	12-17	5	5	
UNI2XE7	NAVP25IXE-X5	14-18	8	8	
UNI2LXE7	NAVP25IXE	14-18	8	8	
UNI2LSXE7	NAVP32IXE-SX7	14-18	8	8	
UNI3XE7S	NAVP32IXE-XEU32	16-21	6	6	
UNI3LXE7S	NAVP32IXE-XEU32L	16-21	6	6	
UNI3XE7	NAVP32IXE	19-25	9	9	
UNI4XE7-XEU40	NAVP40IXE-XEU40	20-28	5	5	
UNI4XE7S	NAVP40IXE-XEU40L	20-28	5	5	
UNI8XE7	NAVP40IXE	23-32	17,5	17,5	
UNI9XE7	NAVP50IXE	31-38	22	22	
UNI10XE7	NAVP63IXE	35-44	24	24	

Table 3.4: UN..X.7 (axb)

Cable gland code	Sealing ring dimensions [mm x mm]	Complete code	Cable min [mm x mm]	Cable max [mm x mm]	Torque value (cap) [Nm]	Recommended torque value (body) [Nm]	Mechanical risk
UNI2XE7-SX5	6,0x10,8	UNI2XE7-SX5 (6,0x10,8)	4,21x11,69	5,23 x 13,21	8	8	High (7J)
	5,0x12,8	UNI2XE7-SX5 (5,0x12,8)	5,03 x 12,50	6,05 x 14,02			
UNI2XE7	6,0x10,8	UNI2XE7 (6,0x10,8)	4,21x11,69	5,23 x 13,21			
	5,0x12,8	UNI2XE7 (5,0x12,8)	5,03 x 12,50	6,05 x 14,02			
	5,0x15,0	UNI2XE7 (5,0x15,0)	6,09 x 13,72	7,11 x 15,24			
UNI2XE7S	6,0x10,8	UNI2XE7S (6,0x10,8)	4,21x11,69	5,23 x 13,21			
	5,0x12,8	UNI2XE7S (5,0x12,8)	5,03 x 12,50	6,05 x 14,02			
	5,0x15,0	UNI2XE7S (5,0x15,0)	6,09 x 13,72	7,11 x 15,24			
UNI2XE7-SX6	6,0x10,8	UNI2XE7-SX6 (6,0x10,8)	4,21x11,69	5,23 x 13,21			
	5,0x12,8	UNI2XE7-SX6 (5,0x12,8)	5,03 x 12,50	6,05 x 14,02			
UNI2LXE7	6,0x10,8	UNI2LXE7 (6,0x10,8)	4,21x11,69	5,23 x 13,21			
	5,0x12,8	UNI2LXE7 (5,0x12,8)	5,03 x 12,50	6,05 x 14,02			
	5,0x15,0	UNI2LXE7 (5,0x15,0)	6,09 x 13,72	7,11 x 15,24			
UNI2LXE7S	6,0x10,8	UNI2LXE7S (6,0x10,8)	4,21x11,69	5,23 x 13,21			
	5,0x12,8	UNI2LXE7S (5,0x12,8)	5,03 x 12,50	6,05 x 14,02			
	5,0x15,0	UNI2LXE7S (5,0x15,0)	6,09 x 13,72	7,11 x 15,24			

Table 3.5: UNI..-.(DS); NAV..-.(DS)							
Model		Min-max cable [mm]		Torque value (cap) [Nm]		Recommended torque value (body) [Nm]	Mechanical risk
		S1+S2	S1	S1+S2	S1		
UNI02XE7(DS)	NAVP12IXE-0XS(DS)	3-4	4-6.5	1	2	2	High (7J)
UNI02LXE7(DS)	NAVP12IXE-XS(DS)	3-4	4-6.5	1	2	2	
UNI01XE7-SX1(DS)	NAVP16IXE-SX1(DS)	4-5	5-8	3.5	4	4	
UNI01XE7-SX1L(DS)	NAVP16IXE-SX1L(DS)	4-5	5-8	3.5	4	4	
UNI01XE7(DS)	NAVP16IXE-X1(DS)	4-6	6-10	3.5	4	4	
UNI01LXE7(DS)	NAVP16IXE-X1L(DS)	4-6	6-10	3.5	4	4	
UNI1XE7-SX2(DS)	NAVP20IXE-SX2(DS)	4-6	6-10	3.2	2.5	2.5	
UNI1XE7(DS)	NAVP20IXE-X2(DS)	6-7.5	7.5-12	5	5	5	
UNI1LXE7(DS)	NAVP20IXE-X2L(DS)	6-7.5	7.5-12	5	5	5	
UNI1XE7-MX2(DS)	NAVP20IXE-MX2(DS)	4-7	7-13	3.5	4.5	4.5	
UNI1XE7-X3(DS)	NAVP20IXE-X3(DS)	8-11	11-14	5.5	5.5	5.5	
UNI1XE7-X4(DS)	NAVP20IXE-X4(DS)	8-11	11-14	5.5	5.5	5.5	
UNI2XE7-SX5(DS)	NAVP20IXE-SX5(DS)	8-11	11-14	5.5	5.5	5.5	
UNI2XE7-SX6(DS)	NAVP25IXE(DS)	8-11	11-14	5.5	5.5	5.5	
UNI2XE7(DS)	NAVP25IXE-X5(DS)	9-13	13-17	5	5	5	
UNI2LXE7(DS)	NAVP25IXE-X6(DS)	9-13	13-17	5	5	5	
UNI2XE7S(DS)	NAVP25IXE-XEU25(DS)	10-13	13-18	5.5	8	8	
UNI2LXE7S(DS)	NAVP25IXE-XEU25L(DS)	10-13	13-18	5.5	8	8	
UNI3XE7S(DS)	NAVP32IXE-XEU32(DS)	10-13	13-18	5.5	8	8	
UNI3LXE7S(DS)	NAVP32IXE-XEU32L(DS)	12-16	16-21	4.5	6	6	
UNI3XE7-SX7(DS)	NAVP32IXE-SX7(DS)	12-16	16-21	4.5	6	6	
UNI3XE7(DS)	NAVP32IXE-X7(DS)	14-20	20-25	8	9	9	
UNI4XE7-XEU40(DS)	NAVP40IXE-XEU40(DS)	17-21	21-28	5	5	5	
UNI4XE7S(DS)	NAVP40IXE-XEU40L(DS)	17-21	21-28	5	5	5	
UNI8XE7(DS)	NAVP40IXE-X8(DS)	21-25	23-32	15	17.5	17.5	
UNI9XE7(DS)	NAVP50IXE-X9(DS)	22-31	31-38	18	22	22	
UNI10XE7(DS)	NAVP63IXE-X10(DS)	28-35	35-44	22	24	24	

Table 3.8: PLG..X.7						
Model			Torque value [Nm]	Model	Torque value [Nm]	Mechanical risk
PLG02IXE7	PLG02NXE7	PLG02CXE7	1,5	PLG1PXE7	1,5	High (7J)
PLG01IXE7	PLG01NXE7	PLG01CXE7	1,5	PLG2PXE7	1,5	
PLG01IXE7-X01L	PLG01NXE7-X01L	PLG01CXE7-X01L	1,5	PLG2PXE7-X2L	1,5	
PLG01ILXE7	PLG01NLXE7	PLG01CLXE7	1,5	PLG2PLXE7	1,5	
PLG1IXE7	PLG1NXE7	PLG1CXE7	2	PLG3PXE7	1,5	
PLG1IXE7-X1L	PLG1NXE7-X1L	PLG1CXE7-X1L	2	PLG4PXE7	2	
PLG1ILXE7	PLG1NLXE7	PLG1CLXE7	2	PLG4PXE7-X4L	2	
PLG2IXE7	PLG2NXE7	PLG2CXE7	2,5	PLG4PLXE7	2	
PLG2ILXE7	PLG2NLXE7	PLG2CLXE7	2,5	PLG5PXE7	2	
PLG3IXE7	PLG3NXE7	PLG3CXE7	4	PLG6PXE7	2,5	
PLG4IXE7	PLG4NXE7	PLG4CXE7	6	PLG6PLXE7	2,5	
PLG5IXE7	PLG5NXE7	PLG5CXE7	8	PLG7PXE7	4	
PLG6IXE7	PLG6NXE7	PLG6CXE7	10	PLG8PXE7	6	
-	-	-	-	PLG9PXE7	8	
-	-	-	-	PLG10PXE7	10	

Table 4: PT				
From size ...	... to size	Material	Mechanical risk	Sealing ring
M12/PG7/PF 1/4"/ NPT1/4"	M63/PG48/PF 2"/ NPT 2"	polyamide	High (7J) at T≥-40°C	Single
			Low (4J) at T<-40°C	
M12/PG7/PF 1/4"/ NPT1/4"	M32/PG21/PF 1"/ NPT 1"		High (7J) at T≥-40°C	Double
M32/PG21/PF 1"/ NPT 1"	M63/PG48/PF 2"/ NPT 2"		High (7J) at T≥-40°C	
			Low (4J) at T<-40°C	