

Type Examination Certificate CML 21UKEX4006X Issue 2**United Kingdom Conformity Assessment**

- 1 Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended)
- 2 Equipment **E1EX (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal, D1EX (QS)(VX), EXCG (VS)(QS)(VX), FLP (QS)(VX), ARMORTEX (QS)(VX), EXCG-Lead Seal, UNITEx-D (VS), UNITEx-E, UNITEx~QS (VX), UNITEx-F, UNITEx-F~QS(VX), TMC, TMCX, FLP-TR (QS)(VX), FLP-TR- KHDE (QS)(VX), FLPHOSE (QS)(VX), Posi Grip (QS)(VX), A2EX (VS)(QS)(VX), A2EX-FHC (VS)(QS)(VX), A2F-FHC-QS (VX).**
- 3 Manufacturer **CCG Cable Terminations PTY LTD**
- 4 Address **33-37 Forge Road,
Spartan Ind Area,
Kempton Park, 1619,
South Africa**

- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, CH65 4LZ, United Kingdom, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

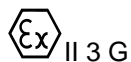
The examination and test results are recorded in the confidential reports listed in Section 12.

- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to specific conditions of use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This Type Examination certificate relates only to the design and construction of the specified equipment. Further requirements of the Regulations apply to the manufacturing process and supply of the product. These are not covered by this certificate.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018

EN IEC 60079-15:2019

- 10 The equipment shall be marked with the following:



Ex nR IIC Gc

IP66/67/68 (2m), IP65 (as applicable)





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11 Description

Cable glands for use with armoured cables, Types; E1EX (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal, D1EX (QS)(VX), EXCG (VS)(QS)(VX), FLP (QS)(VX), ARMORTEX (QS)(VX), EXCG-Lead Seal, UNITEx-D (VS), UNITEx-E, UNITEx~QS (VX), UNITEx-F, UNITEx-F~QS(VX), TMC, TMCX.

Cable glands for use with non-armoured and braid cables, Types; FLP-TR (QS)(VX), FLP-TR- KHDE (QS)(VX), FLPHOSE (QS)(VX), Posi Grip (QS)(VX), A2EX (VS)(QS)(VX), A2EX-FHC (VS)(QS)(VX), A2F-FHC-QS (VX).

Product	Sizes
A2EX (VS)(QS)(VX)	00-13 (Metric &NPT)
A2EX-FHC (VS)(QS)(VX)	00-13 (Metric) 0-11 (NPT)
A2F-FHC~ QS(VX)	00-10 (Metric) 0-10 (NPT)
ARMORTEX (QS)(VX)	00-7 (Metric & NPT)
D1EX (QS)(VX)	00-13 (Metric) 00-11 (NPT)
E1EX (VS)(QS)(VX)	00-13 (Metric) 00-11 (NPT)
E1EX Lead Seal	00-13 (Metric) 00-11 (NPT)
E1EX U (VS)(QS)(VX)	00-10 (Metric & NPT)
EXCG (VS)(QS)(VX)	00-10 (Metric)
EXCG – Lead Seal	00-13 (Metric)
FLP (QS)(VX)	00-7 (Metric & NPT)
FLP Hose (QS)(VX)	00-7 (Metric & NPT)
FLP TR (QS)(VX)	00-7 (Metric & NPT)
FLP-TR-KHDE (QS)(VX)	00-7 (Metric & NPT)
Posi Grip (QS)(VX)	00-11 (Metric)
TMC	00-11 (Metric & NPT)
TMCX	00-11 (Metric & NPT)
UNITEx ~QS(VX)	00-10 (Metric & NPT)
UNITEx-D (VS)	00-10 (Metric & NPT)
UNITEx-E	00-10 (Metric & NPT)
UNITEx-F	00-10 (Metric & NPT)
UNITEx-F~ QS(VX)	00-10 (Metric & NPT)

Notes

1. Cable glands with parallel entry threads are IP66/68 when fitted with the supplied sealing gasket. NPT threads are at least IP65 as standard, but IP68 (2m) can be achieved if one of the following grease types is applied to the NPT thread before fitting:- Renolit Lubrene CA 700, Renolit LC-WP2, Renolit Lubrene LX 220 EP2, Renolit Moly LX 2 or Dow Corning 4 Electrical Compound.



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2. Cable glands with parallel entry threads (e.g. Metric and BSP parallel) are supplied with fitted sealing gaskets as standard. The sealing gasket is optional for Ex d applications without IP rating. (RE-FLEx cord may be used as an alternative to a standard sealing gasket.)
3. 'VS' in the name of a cable gland variant indicates that a thin copper/brass disc is fitted between the inner seal and the cone for earth continuity to a metallic cable screen (e.g. variable speed drive cable or a lead sheathed cable). The sealing arrangement between the inner seal and the potted sleeve is not affected. Note that a standard cable gland type can be converted to a (VS) variant by retrofitting the thin copper / brass disc. The product marking does not need to be changed when the copper / brass disc is retrofitted.
4. '-FC' in the name of a cable gland variant indicates that the outer seal nut has an additional female thread to allow the connection of a flexible conduit.
5. 'QS' in the name of a cable gland variant, indicates that it is the Quickstop resin barrier version of the cable gland. This utilises a clear potting compound to achieve a hard setting seal inside the gland. The sealing compound is transparent and accommodates inspection.
6. 'VX' in the name of a cable gland variant, refers to the Vortex resin barrier version of the cable gland. This utilises a coloured potting compound to achieve a hard setting seal inside the gland. There is a transparent elastomeric seal at the end of the compound enclosure to accommodate inspection.
7. Cable glands that are available as both barrier (QS or VX) and non-barrier versions may be supplied as non-barrier versions together with the additional components needed to convert them to barrier versions if required. When the conversion is carried out the product marking does not need to be changed
8. RE-FLEx sealing cord can be used as an alternative to a standard sealing gasket to achieve IP66/68. It is intended as a retro-fit solution and must be installed according to the fitting instructions supplied with it.
9. The Posi Grip cable gland has a plastic nipple nut that is fitted over the metallic inner, with its only function to clamp against the sealing gasket and to assist in tightening/dismantling the inner. The outer nut plastic is moulded over the metallic part which maintains the mechanical strength of the gland.
10. Armoured glands type E1EX, E1EX-U and UNITEx-D are made to accept two different cable inner bedding and outer sheath diameter size ranges for each gland body size by the fitting of alternative seals and matching components. The smaller cable diameter version is known as the 's' size. E.g. 2s is a size 2 gland with smaller bore seals. Combination glands are allowed (known as 'L' versions, e.g. 2L) where the components for an 's' size are used for the cable bedding and components for the standard size are used for the cable sheath.

Materials of Manufacture

- Brass (CZ121), Bronze (PB2), Stainless Steel (316), Aluminium (6063), Mild steel (EN8)
- HDPE (D7255/HL), PTFE (CCG PTFE-001), Nylon (6)
- EPDM (64 Shore), Silicone (CCG G/65-1C)
- QuickStop Ex resin (S50/EPA or FR/846), VORTEX Ex resin (S50/Y, EPA/Y or FR/846/Y)



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Variation 1

This variation introduced the following modifications:

- i. The introduction of an alternative seal arrangement on the UNITEx-D gland range.
- ii. To allow an alternative QuickStop and VORTEX resin to be used, giving a wider temperature range.
- iii. To include IPX8 rating on NPT threaded arrangements when used with specific greases.
- iv. The description and specific Conditions of Use have been updated in accordance with the modifications above.

Variation 2

This variation introduced the following modifications:

- i. To update the certificate format, and where applicable, the description has been updated in accordance with the modifications.
- ii. To update the number of cores allowed in size 00 and 0 barrier glands from 6 to 10.
- iii. To update the UNITEx~QS(VX) cable gland to use the E1EX cable gland outer seal arrangement.
- iv. To update the certification to add the option for any cable gland to have an outer seal nut with an additional female thread to allow flexible conduits to be attached to the cable gland (designated '-FC').
- v. The addition of new gland model variant FLP-TR-KHDE. (A FLP-TR gland with an addition to the rear nut to allow a specific pipe connection – the pipe is used to protect the cable fitted.)
- vi. To update the certification drawings with minor corrections.
- vii. To update the A2F-FHC~QS (VX) gland certification drawings to show additional NPT entry thread options and to remove model A2F-FHC from the certificates detailed on the front page.
- viii. To permit changes to the Specific Conditions of Use.
- ix. To update the wording of the grease used for the NPT threads
- x. To remove the A2F cable gland range and variants (except the A2F-FHC~QS(VX))
- xi. The addition of the TMC and TMCX cable glands.
- xii. To update EN IEC 60079-15 to the latest edition.
- xiii. Correction to standards referenced.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	21 Jan 2021	R13654A/00	Issue of Prime Certificate
1	14 Apr 2021	R13990A/00	Introduction of variation 1
2	19 May 2022	R15092A/00	Introduction of variation 2

Note: Drawings that describe the equipment are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- Where the product incorporates certified parts or safety critical components, the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- Cable glands with intermediate metric entry thread sizes shall be constructed by enlarging the entry thread size of the standard size product immediately below the intermediate thread size. The minimum entry wall thickness, allowable number of cores, cable size range and constructional parts utilised (other than the entry thread component) shall not differ from that of the standard size used.



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14 Specific Conditions of Use

The following conditions relate to safe installation and/or use of the equipment.

General Conditions

- i. The cable glands shall only be used where the temperature, at the point of entry, is between:
 - Posigrip: –30% glass filled polyester (-20°C and +95°C) or nylon (-60°C to 100°C)
 - Quickstop or Vortex resin type S50 / EPA, when used with any gaskets/skid rings: (-50°C and +95°C)
 - Quickstop or Vortex resin type FR/846, when used with EPDM seals & Nylon gaskets/skid rings or Silicone seals & PTFE gaskets / skid rings: – (-60°C and +100°C)
 - EPDM seals & HDPE gaskets/skid rings: (-60°C and +95°C)
 - EPDM seals & Nylon gaskets/skid rings: (-60°C and +100°C)
 - Silicone seals & PTFE gaskets/skid rings: (-60°C and +160°C)
 - The corrosion guard is not an essential part of the explosion protection. The corrosion guard material has a Relative Temperature Index (RTI) of 120°C.
- ii. Only the compounds as supplied by the manufacturer shall be used in the glands.
- iii. Cable glands for unarmoured or braided cable and approved only for Group IIC/IIIC (Not Group I) shall only be used on fixed installations where the cable is clamped, or stress applied to the cable in the gland is prevented.
- v. When the RE-FLEx sealing method is used, the gland installer shall refer to the manufacturer's instructions.

Conditions for Specific Glands

- i. A2EX-FHC range of glands:
 - The cable glands shall only be used on fixed installations where the cable is clamped, or stress applied to the cable in the gland is prevented
- ii. Armortex and E1EX-U type ranges of glands
 - The Armortex and E1EX-U type glands have been tested for braided cable for group II and III only, when braided cable is fitted it shall only be used on fixed installations where the cable is clamped, or stress applied to the cable in the gland is prevented.
- iii. Posi grip range of glands:
 - The gland shall only be installed / dismantled using the tool provided by CCG.

Certificate Annex



Certificate Number CML 21UKEX4006X

Equipment E1EX (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal, D1EX (QS)(VX), EXCG (VS)(QS)(VX), FLP (QS)(VX), ARMORTEX (QS)(VX), EXCG-Lead Seal, UNITEx-D (VS), UNITEx-E, UNITEx~QS (VX), UNITEx-F, UNITEx-F~QS(VX), TMC, TMCX, FLP-TR (QS)(VX), FLP-TR- KHDE (QS)(VX), FLPHOSE (QS)(VX), Posi Grip (QS)(VX), A2EX (VS)(QS)(VX), A2EX-FHC (VS)(QS)(VX), A2F-FHC-QS (VX).

Manufacturer CCG Cable Terminations PTY LTD

The following documents describe the equipment defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
0468 MARK	1 of 1	1	21 Jan 2021	A2F-FHC(QS) GLAND MARKING
0521 - MARK ATEX&IECEEx	1 of 1	1	21 Jan 2021	No. "X" FLP, ARMORTEX MARKING
0523 - MARK ATEX&IECEEx	1 of 1	1	21 Jan 2021	No."X" EX GLAND MARKING
0523-LS MARK	1 of 1	1	21 Jan 2021	No."X" E1EX -LS AND -U GLAND MARKING
0531-MARK ATEX&IECEEx	1 of 1	1	21 Jan 2021	No. "X" VRTX GLAND MARKING
0537 - MARK ATEX&IECEEx	1 of 1	1	21 Jan 2021	A2EX-FHC GLAND MARKING
0545- MARK ATEX&IECEEx	1 of 1	1	21 Jan 2021	No."X" POSI GRIP MARKING
0557-MARK	1 of 1	1	21 Jan 2021	CWe/CXe GLAND MARKING
0587-MARK	1 of 1	1	21 Jan 2021	No."X" UNITEx-F(QS) - MARK
0591-MARK ATEX&IECEEx	1 of 1	2	21 Jan 2021	No."X" UNITEx GLAND MARKING

Issue 1

Drawing No	Sheets	Rev	Approved date	Title
0468 MARK	1 of 1	1	14 Apr 2021	A2F-FHC (QS) GLAND MARKING
0510-ASSY	1 of 1	5	14 Apr 2021	No. "X" UNITEx-F GLAND ASSY
0521-MARK ATEX&IECEEx	1 of 1	1	14 Apr 2021	No. "X" FLP, ARMORTEX MARKING
0523 - MARK ATEX&IECEEx	1 of 1	1	14 Apr 2021	No. "X" EX GLAND MARKING
0523-LS MARK ATEX&IECEEx	1 of 1	1	14 Apr 2021	No. "X" E1EX – LS AND –U GLAND MARKING

Certificate Annex



Certificate Number CML 21UKEX4006X

Equipment E1EX (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal, D1EX (QS)(VX), EXCG (VS)(QS)(VX), FLP (QS)(VX), ARMORTEX (QS)(VX), EXCG-Lead Seal, UNITEx-D (VS), UNITEx-E, UNITEx~QS (VX), UNITEx-F, UNITEx-F~QS(VX), TMC, TMCX, FLP-TR (QS)(VX), FLP-TR- KHDE (QS)(VX), FLPHOSE (QS)(VX), Posi Grip (QS)(VX), A2EX (VS)(QS)(VX), A2EX-FHC (VS)(QS)(VX), A2F-FHC-QS (VX).

Manufacturer CCG Cable Terminations PTY LTD

Drawing No	Sheets	Rev	Approved date	Title
0537 - MARK ATEX&IECEEx	1 of 1	1	14 Apr 2021	A2EX-FHC GLAND MARKING
0541-MARK ATEX&IECEEx	1 of 1	4	14 Apr 2021	No. "X" A2F MARKING
0541-ASSY	1 of 1	7	14 Apr 2021	No. "X" A2F ASSEMBLY
0542-ASSY	1 of 1	7	14 Apr 2021	No. "X" A2FX GLAND
0545- MARK ATEX&IECEEx	1 of 1	1	14 Apr 2021	No. "X" POSI GRIP MARKING
0547-ASSY	1 of 1	6	14 Apr 2021	No. "X" Ex de CORROSION GUARD
0554-ASSY	1 of 1	6	14 Apr 2021	No. "X" UNITEx-D GLAND ASSY
0554-B	1 of 1	3	14 Apr 2021	No. "X" UNITEx-D BODY
0554L-ASSY	1 of 1	1	14 Apr 2021	No. "X" UNITEx-D COMBINATION GLAND ASSY
0559-ASSY	1 of 1	5	14 Apr 2021	No. "X" UNITEx~QS GLAND ASSY
0577-I-R	1 of 1	5	14 Apr 2021	No. "X" A2FX-R INNER
0577-MARK ATEX&IECEEx	1 of 1	4	14 Apr 2021	"X" A2FX-R MARKING
0577-R-ASSY	1 of 1	7	14 Apr 2021	No. "X" A2FX-R ASSY
0587-ASSY	1 of 1	5	14 Apr 2021	No. "X" UNITEx-F~QS GLAND ASSY
0587-I	1 of 1	3	14 Apr 2021	No. "X" UNITEx-F~QS INNER
0587-MARK	1 of 1	1	14 Apr 2021	No. "X" UNITEx-F(QS)-MARK
0590-R-ASSY	1 of 1	3	14 Apr 2021	No. "X" A2F-R ASSY
0591-MARK ATEX&IECEEx	1 of 1	2	14 Apr 2021	No. "X" UNITEx GLAND MARKING
8055 - SG	1 of 1	1	14 Apr 2021	No. "X" CCG SEALING GASKET

Certificate Annex



Certificate Number CML 21UKEX4006X

Equipment E1EX (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal, D1EX (QS)(VX), EXCG (VS)(QS)(VX), FLP (QS)(VX), ARMORTEX (QS)(VX), EXCG-Lead Seal, UNITEx-D (VS), UNITEx-E, UNITEx-QS (VX), UNITEx-F, UNITEx-F~QS(VX), TMC, TMCX, FLP-TR (QS)(VX), FLP-TR- KHDE (QS)(VX), FLPHOSE (QS)(VX), Posi Grip (QS)(VX), A2EX (VS)(QS)(VX), A2EX-FHC (VS)(QS)(VX), A2F-FHC-QS (VX).

Manufacturer CCG Cable Terminations PTY LTD

Issue 2

Drawing No	Sheets	Rev	Approved date	Title
0468 ASSY	1 of 1	1	19 May 2022	No. "X" A2F-FHC~QS GLAND ASSY.
0468 MARK	1 of 1	2	19 May 2022	A2F-FHC~QS(VX) GLAND MARKING
0519 -ASSY	1 of 1	6	19 May 2022	No. "X" D1EX Ex de CABLE GLANDS
0521 – MARK ATEX&IECEEx	1 of 1	2	19 May 2022	No. "X" FLP, ARMORTEX MARKING
0521- ASSY	1 of 1	5	19 May 2022	No. "X" FLP GLAND ASSEMBLY
0521-FC-C	1 of 1	-	19 May 2022	No. "X" FLP-FC CONE
0522- ASSY	1 of 1	5	19 May 2022	No. "X" ARMORTEX GLAND ASSEMBLY
0523-ASSY-SL	1 of 1	4	19 May 2022	TYPICAL QUICK STOP AND VORTEX SLEEVE ASSEMBLY
0523 - MARK ATEX&IECEEx	1 of 1	2	19 May 2022	No. "X" EX GLAND MARKING
0523 D - B	1 of 1	1	19 May 2022	No. "X" E1EX BODY
0523 D - I	1 of 1	1	19 May 2022	No. "X" E1EX INNER
0523-LS ASSY	1 of 1	5	19 May 2022	No. "X" E1EX LEAD SEAL ASSY
0523-LS MARK ATEX&IECEEx	1 of 1	2	19 May 2022	No. "X" E1EX - LS AND - U GLAND MARKING
0524- ASSY	1 of 1	5	19 May 2022	No. "X" FLP TR ASSEMBLY
0524-FC ASSY	1 of 1	-	19 May 2022	No. "X" FLP-TR-FC FLEXIBLE CONDUIT ASSEMBLY
0524-FC-O	1 of 1	-	19 May 2022	No. "X" FLP-TR-FC OUTER
0524-KHDE-ASSY	1 of 1	-	19 May 2022	No. "X" FLP-TR-KHDE GLAND ASSEMBLY
0524-O-D	1 of 1	-	19 May 2022	No. "X" FLP TR DIESEL OUTER
0527- HOSE ASSY	1 of 1	5	19 May 2022	FLP HOSE GLAND ASSEMBLY
0527-FC-ASSY	1 of 1	-	19 May 2022	No. "X" FLP-FC FLEXIBLE CONDUIT GLAND ASSEMBLY

Certificate Annex



Certificate Number CML 21UKEX4006X

Equipment E1EX (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal, D1EX (QS)(VX), EXCG (VS)(QS)(VX), FLP (QS)(VX), ARMORTEX (QS)(VX), EXCG-Lead Seal, UNITEEx-D (VS), UNITEEx-E, UNITEEx~QS (VX), UNITEEx-F, UNITEEx-F~QS(VX), TMC, TMCX, FLP-TR (QS)(VX), FLP-TR- KHDE (QS)(VX), FLPHOSE (QS)(VX), Posi Grip (QS)(VX), A2EX (VS)(QS)(VX), A2EX-FHC (VS)(QS)(VX), A2F-FHC-QS (VX).

Manufacturer CCG Cable Terminations PTY LTD

0527-FC-MARK ATEX,UKEX&IECEEx	1 of 1	-	19 May 2022	FLP-FC, FLP-TR-FC & FLP-TR-KHDE MARKING-ATEX,UKEX&IECEEx
0527-FC-O	1 of 1	-	19 May 2022	No. "X" FLP-FC OUTER
0536-ASSY	1 of 1	9	19 May 2022	No. "X" A2EX ASSEMBLY
0536-GS	1 of 1	8	19 May 2022	No. "X" A2 GRIPPER SEAL
0536-SR	1 of 1	8	19 May 2022	No. "X" A2 SKID RING
0537 - ASSY	1 of 1	6	19 May 2022	No. "X" A2EX FHC GLAND ASSEMBLY
0537 - MARK ATEX&IECEEx	1 of 1	2	19 May 2022	A2EX-FHC GLAND MARKING
0545 - ASSY	1 of 1	4	19 May 2022	No. "X" POSI GRIP ASSEMBLY
0545- MARK ATEX&IECEEx	1 of 1	2	19 May 2022	No. "X" POSI GRIP MARKING
0547 - ASSY	1 of 1	7	19 May 2022	No. "X" Ex de CORROSION GUARD
0547- CG- LS-ASSY	1 of 1	3	19 May 2022	No. "X" EXCG LEAD SEAL ASSY
0559-ASSY	1 of 1	6	19 May 2022	No. "X" UNITEEx~QS GLAND ASSY
0571 - ASSY	1 of 1	6	19 May 2022	No. "X" E1EX UNIVERSAL GLAND ASSY
0587-MARK ATEX&IECEEx	1 of 1	2	19 May 2022	No "X" UNITEEx-F(QS) - MARK
0589 ASSY	1 of 1	-	19 May 2022	TMCX ASSEMBLY
0589-ES	1 of 1	-	19 May 2022	TMCX END STOP
0589-I	1 of 1	-	19 May 2022	TMCX INNER METRIC
0589-I-NPT	1 of 1	-	19 May 2022	TMCX INNER NPT
0589-S	1 of 1	-	19 May 2022	TMCX RESIN SLEEVE
0591-MARK ATEX&IECEEx	1 of 1	3	19 May 2022	No "X" UNITEEx GLAND MARKING
0595 - 0589 MARKING - ATEX-IECEEx	1 of 1	2	19 May 2022	TMC / TMCX MARLING - ATEX-IECEEx
0595 ASSY	1 of 1	-	19 May 2022	TMC ASSEMBLY
0595-I	1 of 1	-	19 May 2022	TMC INNER-METRIC
0595-I-NPT	1 of 1	-	19 May 2022	TMC INNER-NPT
0595-ON	1 of 1	-	19 May 2022	TMC OUTER NUT
0595-SP	1 of 1	-	19 May 2022	TMC SPACER