Type Examination Certificate CML 24ATEX4334X Issue 1

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment **Fortra Range of Cable Glands**
E-Series; T-Series

3 Manufacturer **CMP Products Ltd**

4 Address **Unit 36 Nelson Way,**
Nelson Park East,
Cramlington,
Northumberland,
NE23 1WH,
United Kingdom

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 Eurofins CML B.V., Chamber of Commerce No 67386717, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, 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 Annex II of Directive 2014/34/EU.

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 conditions of safe 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 or component. Further requirements of Directive 2014/34/EU Annex VIII apply to the manufacture of the equipment or component and are separately certified.

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:

II 3G

Ex nR IIC Gc

Ta = -60°C to + 105°C

IP66 / IP67 / IP68 / IP69 / IP69K

L A Brisk
Assistant Certification Manager

11 Description

All products listed within this certificate may appear with “Fortra” product branding. E.G. Fortra E1FW, Fortra 20E1FW001 etc

T Series (Triton)

The T Series cable glands are intended for use with all types of unarmoured, armoured and braided cables. Each cable gland comprises:

- Threaded entry component.
- Captive elastomeric flameproof diaphragm seal, adjoining polymeric support and an adaptive (Universal) armour cone or dedicated cone option (depending on the cable armour type).
- AnyWay clamping ring (captively contained within the main body by an optional polymeric ‘clip’ component).
- Main body.
- Outer seal nut assembly containing an elastomeric sealing ring & polymeric identification ferrule.

The male-threaded entry item component is intended to be fitted into an entry point of its associated enclosure in accordance with relevant codes of practice. The diaphragm inner seal, adjoining polymeric support & armour cone option are captively contained within the entry item component.

Flameproof sealing onto the cable inner bedding/sheath is automatically achieved by passing the inner sheath through the bore of the diaphragm inner seal and adjoining polymeric support.

Clamping of the cable armour or braid is achieved through the assembly of the main body and entry item, which in turn clamps the cable armour/braid between the armour cone and captive clamping ring. The adaptive armour cone includes an additional component, enabling the cone to adapt for use with all types of armour regardless of type or armour thickness (within the declared clamping range).

The mating threads between the entry item & body are fitted as standard with an ‘O’ ring deluge seal, providing a further degree of ingress & deluge protection for the armour termination.

The outer seal nut assembly threads onto the main body and is tightened to form an environmental seal with the cable outer sheath.

E Series

The E Series cable glands are intended for use with all types of unarmoured, armoured and braided cables. Each cable gland comprises:

- Threaded entry component.
- Captive elastomeric flameproof diaphragm inner seal, adjoining polymeric support and a dedicated armour cone option (depending on the cable armour type).
- AnyWay clamping ring.
- Main body.
- Outer seal nut assembly containing an elastomeric sealing ring & polymeric identification ferrule.

The male-threaded entry item component is intended to be fitted into an entry point of its associated enclosure in accordance with relevant codes of practice. The flameproof diaphragm inner seal, adjoining polymeric support & armour cone option are captively contained within the entry item component.

Flameproof sealing onto the cable inner bedding/sheath is automatically achieved by passing the inner sheath through the bore of the diaphragm inner seal and adjoining polymeric support.

Clamping of the cable armour or braid is achieved through the assembly of the main body and entry item, which in turn clamps the cable armour/braid between the armour cone and clamping ring. The

mating threads between the entry item & body may also be fitted with an optional ‘O’ ring deluge seal, providing a further degree of ingress & deluge protection for the armour termination.

The outer seal nut assembly threads onto the main body and is tightened to form an environmental seal with the cable outer sheath.

Design Options:

Larger Entry Threads - Cable glands can be supplied with larger entry threads than those detailed, providing; the bore of the entry item does not change from the standard size. See section 1.12 for further details.

The overall protrusion length (whichever is greater between the original cable gland size or the larger approved cable gland size) is not exceeded.

Intermediate Entry Threads - Intermediate entry threads are permitted, example M28 or M80.

Cable Glands can be supplied and installed with;

- Earth Tags
- Entry Thread Washer Seals
- Locknuts
- Serrated Washers
- Shrouds

Ingress Disc - The option to fit a blanking ‘ingress disc’ between the outer seal and the main body to maintain a minimum IP66 rating. The ingress disc is to be marked ‘Ex e only’ to indicate that the cable gland is not suitable for Ex d applications when the disc is fitted. Cable Glands supplied with ingress discs shall not be marked suitable for Group I applications.

O-Ring Interface Seal - The threaded entry component may be manufactured with a profiled groove to captivate an ‘O’ ring interface seal which seals against the mating face with the associated enclosure. This option having the gland type designation prefixed with the letter R, e.g. 25RE1**.

Metallic continuity component - Cable Glands may be supplied with a metallic continuity component specified by the cable gland type designation for use when terminating lead sheathed, tape or other type of shielded layer or variable speed drive (VSD) / variable frequency drive (VFD) cables.

Ferrule Material - The option of changing the material of manufacture of the ferrule to be the same metallic material as the gland. It is permitted to standardise on nickel plated brass ferrules for use with cable glands of all materials.

Armour Cone and Clamping Ring Material - The option of changing the material of manufacture of the armour cone and clamping ring to be the same metallic material as the gland. It is permitted to standardise on nickel plated brass for use with cable glands of all materials.

Combination Gland - For the installation of cables with a large difference between inner sheath/bedding diameter and outer sheath diameter, the E Series & T Series gland ranges have the option to be fitted with flameproof inner seal assemblies one size down than from the nominal quoted gland size. This option having the gland size designation prefixed with both sizes i.e. 2025 will be a gland dimensionally the same as a size 25 gland with the entry item component’s internal dimensions changed to accept a size 20 flameproof inner seal assembly. The mating features on the front of the armour cone will also step down to be dimensionally identical to the size 20.

Deluge Seal - For the T Series gland range, an ‘O’ ring seal will be fitted as standard between the body and the entry item components to provide a deluge seal with additional ingress protection. For the E Series gland range, an ‘O’ ring deluge seal may be fitted as an option.

Outer Clamp - Option to change to an alternative outer seal nut, which can accept an additional clamping mechanism for the cable outer sheath. With this option, the outer sealing ring, polymeric ferrule and all internal geometry of the outer nut / body, which activates the sealing ring to form an environmental seal remain the same.

Diaphragm inner seal, adjoining polymeric support and cone/adaptor – all cable gland ranges that utilise this assembly have the option of the components being combined into a single sub-assembly via any attachment method.

Armour Cone Options:

For all cable gland types, the option to supply cable glands with different dedicated ‘W’ or ‘X’ armour cone options depending on cable armour/braid type and thickness. All cone dimensions that interface with the diaphragm seal & adjoining polymeric support will be identical. The tapered cone side will be provided with a different clamping diameter to suit the armour/braid thickness.

For T Series product ranges sizes 16-75, the standard armour cone is the adaptive cone, which has a tapered side with an additional component that enables the cone to adapt for use with all types of armour/braid regardless of type or thickness (within the standard clamping range). Alternatively, these products can be supplied with dedicated ‘W’ or ‘X’ armour cones. All dedicated cone dimensions that interface with the diaphragm seal & adjoining polymeric support will be identical to that of the adaptive cone.

Additionally, the T Series product range can be supplied with an adaptive armour cone of identical external dimensions but with an internally encapsulated additional metallic continuity device for use with cables which include a lead sheath, tape or other type of shielded layer. The spacer component that keeps the continuity device in position within the cone bore may be manufactured from any metallic material.

For the T Series product range, the larger product sizes 90-130 are supplied with a double sided (reversible) Universal cone option as standard instead of the adaptive cone option. The reversible cone is contained within an additional adaptor component located within the entry item component. Each tapered side of the reversible cone is of identical geometry to the tapered side of the single sided ‘W’ or ‘X’ cone option, allowing the cone to be reversed by the installer depending on the cable amour type and thickness.

Additionally, the E Series product range, larger sizes (90 -130) can be supplied with a dedicated ‘W’ or ‘X’ cone option of identical external dimensions but with an internally encapsulated additional metallic continuity device for use with cables which include a lead sheath, tape or other type of shielded layer. The spacer component that keeps the continuity device in position within the cone bore may be manufactured from any metallic material.

For all cable gland types, when installed with a cable that has an armour with a thickness that falls below the clamping range of the ‘W’ armour cone, the ‘X’ armour cone may be used for clamping.

Part Numbers:

PART NUMBER

Each product part number will include Cable Gland Size, Product Type, Material, Entry Thread Form & Entry Thread Size. Additional digits will be added to reflect additional options selected.

** Gland Size	* Face Seal Option	** Product Type	* Flame Proof (Ex d)	* Armour Termination Option	* Increased Safety (Ex e)	* Cone Option	* Deluge Seal Option	* EMC / VFD / Lead Sheath Option	* Material	* Thread Form	* Thread Size	*** Special Thread Pitch	*** Special Entry Thread Length	* Marking	* Ingress Disc Option	* Special Option
16		C							0	0	0					
20S16	R	CT	F	U	E	H	D	V	1	1	1	P**	L**	*	D	C
1620S		E1		W		L			3	2	2					
20S1620S		T		X					4	3	3					
20S									5	4	4					
20S20										5	5					
20										6	6					
2025											7					
25											8					
2532											9					
32											10					
3240											11					
40											12					
4050																
50																
5063																
63																
6375																
75																
7590																
90																
90100																
100																
100115																
115																
115130																
130																

For standard products with no additional options selected no digits will be shown within that segment of the part number. This has been displayed as a blank grey box.
For some products which have options as standard the digit to reflect this option will also not be displayed in that segment of the part number.
For example T/CT products will be supplied with a deluge seal as standard & "D" will not be displayed in the part number i.e. 20TFU002

**

Gland Size

16	Size 16
20S16	Size 20S16
1620S	Size 16/20S
20S1620S	Size 20S16/20S
20S	Size 20S
20S20	Size 20S/20
20	Size 20
2025	Size 20/25
25	Size 25
2532	Size 25/32
32	Size 32
3240	Size 32/40
40	Size 40
4050	Size 40/50
50	Size 50
5063	Size 50/63
63	Size 63
6375	Size 63/75
75	Size 75
7590	Size 75/90
90	Size 90
90100	Size 90/100
100	Size 100
100115	Size 100/115
115	Size 115
115130	Size 115/130
130	Size 130

Description:
The gland size refers to the cable sealing ranges.
For sealing ranges of each size refer to the technical data sheet.

Option Notes:
A product size must always be selected in the product code.

Additional Notes:
For E1 & T gland types which are supplied with an inner flame proof seal, combination glands are available where by the gland size can be provided with a inner seal one size down from the standard product. For this option the gland size code will be both sizes
i.e. For a size 25 (M25 Entry Thread) with size 20 inner seal, the code will be: 2025

*

Face Seal Option

	None
R	O-Ring Face Seal

Description:
This is an option to add a face seal O-Ring for sealing between the cable gland & electrical enclosure

Option Notes:
Standard product will not have a face seal & no digit will be shown in the product code. Standard product without a face seal is suitable for use with CMP's Entry Thread Sealing Washer providing further ingress protection to IP66/67/68/69/69K. When selecting 'R' the products entry item face will be fitted with an O-ring seal providing ingress protection to IP66/67/68/69/69K.

**

Product Type

E1	E-Series
T	T-Series (Triton)

Description:
The product type refers to the gland series. The product type selection is dependent on cable type & application.

Option Notes:
A product type must always be selected in the product code.

*

Flame Proof (Ex d)

	None
F	Flameproof (Exd)

Description:
Flameproof (Ex d) refers to the Type of Protection.

Option Notes:
'F' will only be selected for products supplied with a flame proof seal i.e. E1 & T product types.
For Ex e/Ex ta & Industrial products there will be no selection & the digit will be left blank from the product code.

Additional Notes:
When marked Ex d the product will also be marked Ex e, Ex ta & Ex nR. When certified for Ex d, Ex e, Ex ta & Ex nR using a flameproof elastomeric seal, 'F' will be selected & Increased safety 'E' will be left blank.

*

Armour Termination Option	
	Unarmoured / Standard
U	Universal Armour
W	Wire Armour
X	Braid Armour

Description:
Armour termination option refers to the cable armour type

Option Notes:
For unarmoured cable no selection will be required & the digit is left blank in the product code.
'U','W' & 'X' will only be selected when the product type is suitable for use with armoured cable
'W' for all types of Wire Armour (Includes SWA & AWA) & Pliable Wire Armour
'X' for all types of Wire braid, Tape Armour, Strip Armour, Pliable Wire Armour
'U' for all types of armoured cable (Only available when selecting T & CT product types)

Additional Notes:
For T & CT product types 'U', 'W' & 'X' options are all available.
When selecting U, up to & including size 75 the cone will be the adaptive cone type and above size 75 will be the reversible cone type. The reversible cone has two sides, one side will be identical to the 'X' Cone and one side will be identical to the 'W' Cone.
For wire armour cable that has an armour thickness falling below the clamping range of the 'W' armour cone, the 'X' armour cone can be selected if suitable.

*

Increased Safety (Ex e)	
	None
E	Increased Safety (Ex e)

Description:
Increased Safety (Ex e) refers to the Type of Protection.

Option Notes:
'E' is selected for products rated Ex e & Ex ta (and Ex nR for products with an inner seal).
For Ex d & Industrial products there will be no selection & the digit will be left blank from the product code.

Additional Notes:
When certified for Ex e, Ex ta (and Ex nR for products with an inner seal). 'E' will be selected & Flameproof 'F' will be left blank.

*

Cone Option	
	Standard Cone
H	Heavier Gauge Armour
L	Lighter Gauge Armour

Description:
Cone Options maybe required if the armour thickness falls outside of the standard thickness.

Option Notes:
For standard product no selection will be required & the product code will be left blank.
For any unarmoured product types, no selection is required.
'H' or 'L' cone options are only available when selecting 'W' or 'X' armour termination types. When 'H' or 'L' is selected the standard cone will be replaced with a cone suitable for the increased or reduced cable armour thickness.

*

Deluge Seal Option	
	None / Standard
D	Deluge Seal Option

Description:
Option to fit an O-ring seal between the entry item & body threads providing increased ingress & deluge protection for the armour termination.

Option Notes:
For standard product no selection will be required & the product code will be left blank. When adding a 'D' to the product code an additional deluge seal will be included between the entry item & body threads.

Additional Notes:
Some products come with deluge seal as standard. i.e. T/CT & E1 (sizes 90-130). For these products there will be no requirement for this option to be selected & the product code will be left blank.

*

EMC / VFD / Lead Sheath Option	
	None
V	Earth Continuity Device

Description:
Option to add an additional metallic continuity device for use with cables which include a lead sheath, tape or other type of shielded layer.

Option Notes:
For standard product no selection will be required & the product code will be left blank.
'V' earth continuity device option is only available with T, CT product types & E1,C (Sizes 90-130) product types.

*

Material	
0	Brass
1	Aluminium
N/A	N/A
3	Mild Steel Zinc Plated
4	Stainless Steel
5	Nickel Plated Brass

Description:
Material type refers to the main material used in the gland construction.

Option Notes:
A material type must always be selected in the product code.

Additional Notes:
Material type refers to the main material used in the gland construction. Some polymers & elastomers will be used in the overall cable gland construction. Also in some cases other metallic materials maybe used for internal components.

*

Thread Form	
0	Metric
1	ET
2	PG
3	NPT
4	BSPP
5	NPSM
6	BSPT

Description:
Thread Form refers to the male entry thread form which is intended to be fitted into an entry point of its associated enclosure in accordance with relevant codes of practice.

Option Notes:
A thread form type must always be selected in the product code.

*

Thread Size	Metric	NPT / BSPP /BSPT / NPSM	E.T	PG
0		3/8"	1/2"	
1	M16	1/2"	5/8"	9
2	M20	3/4"	3/4"	11
3	M25	1"	1"	13.5
4	M32	1 1/4"	1 1/4"	16
5	M40	1 1/2"	1 1/2"	21
6	M50	2"	2"	29
7	M63	2 1/2"	2 1/2"	36
8	M75	3"	3"	42
9	M90	3 1/2"	3 1/2"	48
10	M100	4"	4"	
11	M115			
12	M130	5"	5"	

Description:
Thread Size refers to the size of the male entry thread for which is intended to be fitted into an entry point of its associated enclosure in accordance with relevant codes of practice.

Option Notes:
A thread size must always be selected in the product code.
The thread size refers to the size depending on thread form type selected. Refer to the table for thread sizes for each thread form.

Additional Notes:
Cable glands can also be manufactured with larger entry threads than the nominal quoted gland size. i.e. If a gland size '20' is selected, a metric thread of M25 (Thread size '3') can also be selected. Additionally thread sizes between standard sizes are also available i.e. For M28 add the number for M25 then letter A,B,C...etc followed by zero, therefore M28 would be 3C0 & for M80 it would be 8E0.

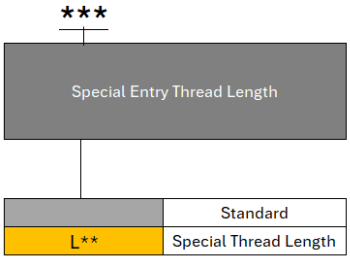
***

Special Thread Pitch	
	Standard
P**	Special Thread Pitch

Description:
Special Thread Pitch refers to the entry thread being manufactured from a thread pitch which is not standard.

Option Notes:
For standard product no selection will be required & the entry thread size selected will be manufactured from the standard thread pitch for that size. Selecting P followed by two numbers indicating the thread pitch in 10th of a mm increments i.e. P15 is a special thread pitch of 1.5mm & P20 is a special thread pitch of 2mm.

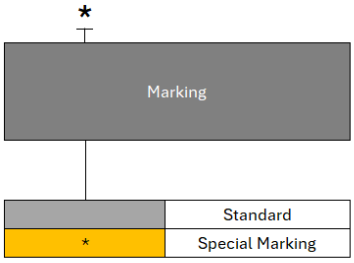
Additional Notes:
Metric threads can be manufactured with a thread pitch between 0.7mm and 2.0mm.



Description:
Special Entry Thread Length refers to the entry thread length being manufactured from a length which is not standard.

Option Notes:
For standard product no selection will be required & the entry thread size selected will be manufactured from the standard thread length for that size. Selecting L followed by two numbers indicating the thread length in 1mm increments i.e. L20 is a special entry thread length of 20mm.

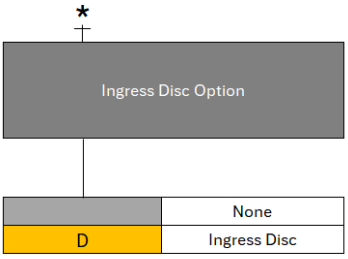
Additional Notes:
Additional thread special lengths other than those shown are also available in 1mm increments.
≥10mm is compliant with certification. (See product datasheets for Ex d thread lengths)



Description:
Marking refers to how the product is marked.

Option Notes:
For standard product no selection will be required & the standard global marking will be applied.
Letters such as 'T' or 'W' can be applied to the product code to indicate a non-standard marking.

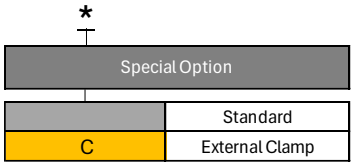
Additional Notes:
The standard marking may change depending on the rest of the selection. Depending upon the variants each approval covers.



Description:
This is an option to add a blanking ingress disc between the outer seal and the main body to maintain a minimum IP66 rating.

Option Notes:
Standard product will not have a ingress disc fitted & no digit will be shown in the product code.
When selecting 'D' a blanking ingress disc will be fitted between the outer seal and the main body to maintain a minimum IP66 rating.

Additional Notes:
The ingress disc is to be marked 'Ex e only' to indicate that the cable gland is not suitable for Ex d applications when the disc is fitted.



Description:
This is for any special option that maybe included within the product.

Option Notes:
For standard product no selection will be required & the product code will be left blank.
'C' option will add an additional clamping mechanism for clamping the cable outer sheath.

Alternative Product Model Names

Product Type	Standard Product Model Name	Alternative Product Name
• Stainless Steel	E1FW / E1FX	TE1FW / TE1FX
	TFU	TE1FU
• Universal Adaptive Cone	TFU	E1FU
• Cone Option with Continuity Device	TFUV / TFWV / TFXV	E2FU / E2FW / E2FX
• Cone Option with Continuity Device • Stainless Steel	TFUV / TFWV / TFXV	TE1FUV / TE1FWV / TE1FXV
• Cone Option with Continuity Device • Size 90 to 130	E1FWV / E1FXV	TFWV / TFXV or E2FW / E2FX
• Size 90 to 130 • Cone Option with Continuity Device • Stainless Steel	E1FWV / E1FXV	TE1FWV / TE1FXV

Sealing Ranges:

T Series

Cable Gland Size	Standard Entry Threads		Cable Inner Sealing Diameter		Cable Outer Sealing Diameter		Standard Armour Range						Lighter and Heavier Gauge Armour Range					
							Adaptive Universal Cone 'U'		'X' Cone		'W' Cone		'X' Cone		'W' Cone			
													Lighter Gauge 'L'		Lighter Gauge 'L'		Heavier Gauge 'H'	
	Metric	NPT	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
16	M16	3/8"	3.1	7.0	6.1	13.2	0	1.25	0.3	1.0	0.8	1.25	0	1.0	0.7	1.15	1.15	1.6
20S16	M20	1/2"	3.1	7.0	6.1	13.2	0	1.25	0.3	1.0	0.8	1.25	0	1.0	0.7	1.15	1.15	1.6
16/20S	M16	3/8"	3.1	7.0	9.5	15.9	0	1.25	0.3	1.0	0.8	1.25	0	1.0	0.7	1.15	1.15	1.6
20S16/20S	M20	1/2"	3.1	7.0	9.5	15.9	0	1.25	0.3	1.0	0.8	1.25	0	1.0	0.7	1.15	1.15	1.6
20S	M16	3/8"	6.0	11.6	9.5	15.9	0	1.25	0.3	1.0	0.8	1.25	0	1.0	0.7	1.15	1.15	1.6
20S	M20	1/2"	6.0	11.6	9.5	15.9	0	1.25	0.3	1.0	0.8	1.25	0	1.0	0.7	1.15	1.15	1.6
20S/20	M20	1/2"	6.0	11.6	12.5	20.9	0	1.25	0.4	1.0	0.8	1.25	0	1.0	0.7	1.15	1.15	1.6
20	M20	1/2"	8.0	14.0	12.5	20.9	0	1.25	0.4	1.0	0.8	1.25	0	1.0	0.7	1.15	1.15	1.6
20/25	M25	3/4"	8.0	14.0	16.0	26.2	0	1.6	0.4	1.2	1.25	1.6	0	1.0	0.77	1.22	1.63	2.13
25	M25	3/4"	11.0	19.5	16.0	26.2	0	1.6	0.4	1.2	1.25	1.6	0	1.0	0.77	1.22	1.63	2.13
25/32	M32	1"	11.0	19.5	21.5	33.9	0	2.0	0.4	1.2	1.6	2.0	0	1.0	1.12	1.62	2.0	2.6
32	M32	1"	17.0	26.5	21.5	33.9	0	2.0	0.4	1.2	1.6	2.0	0	1.0	1.12	1.62	2.0	2.6
32/40	M40	1 1/4"	17.0	26.5	28.0	40.4	0	2.0	0.4	1.6	1.6	2.0	0	1.0	1.12	1.62	2.0	2.6
40	M40	1 1/4"	22.0	32.0	28.0	40.4	0	2.0	0.4	1.6	1.6	2.0	0	1.0	1.12	1.62	2.0	2.6
40/50	M50	1 1/2"	22.0	32.0	38.0	53.2	0	2.5	0.6	1.6	2.0	2.5	0	1.0	1.33	2.0	2.4	3.1
50	-	1 1/2"	29.5	38.3	38.0	53.2	0	2.5	0.6	1.6	2.0	2.5	0	1.0	1.33	2.0	2.4	3.1
50	M50	2"	29.5	44.0	38.0	53.2	0	2.5	0.6	1.6	2.0	2.5	0	1.0	1.33	2.0	2.4	3.1
50/63	M63	2"	29.5	44.0	52.0	66.0	0	2.5	0.6	1.6	2.0	2.5	0	1.0	1.33	2.0	2.4	3.1
63	-	2"	41.5	48.4	52.0	66.0	0	2.5	0.6	1.6	2.0	2.5	0	1.0	1.33	2.0	2.4	3.1
63	M63	2 1/2"	41.5	55.0	52.0	66.0	0	2.5	0.6	1.6	2.0	2.5	0	1.0	1.33	2.0	2.4	3.1
63/75	M75	2 1/2"	41.5	55.0	64.5	78.5	0	3.15	0.6	1.6	2.5	3.15	0	1.0	1.83	2.53	2.8	3.5
75	-	2 1/2"	53.5	60.45	64.5	78.5	0	3.15	0.6	1.6	2.5	3.15	0	1.0	1.83	2.53	2.8	3.5
75	M75	3"	53.5	68.0	64.5	78.5	0	3.15	0.6	1.6	2.5	3.15	0	1.0	1.83	2.53	2.8	3.5
75/90	M90	3 1/2"	53.5	68.0	75.0	90.5	-	-	0.8	1.6	3.15	4.0	0	1.0	2.0	3.2	3.6	4.3
90	M90	3 1/2"	66.0	78.5	75.0	90.5	-	-	0.8	1.6	3.15	4.0	0	1.0	2.0	3.2	3.6	4.3
90/100	M100	3 1/2"	66.0	78.5	86.0	101.5	-	-	0.8	1.6	3.15	4.0	0	1.0	2.0	3.2	3.6	4.3
100	M100	3 1/2"	76.0	90.5	86.0	101.5	-	-	0.8	1.6	3.15	4.0	0	1.0	2.0	3.2	3.6	4.3
100/115	M115	4"	76.0	90.5	101.0	110.5	-	-	0.8	1.6	3.15	4.0	0	1.0	2.0	3.2	3.6	4.3
115	M115	4"	86.0	98.0	101.0	110.5	-	-	0.8	1.6	3.15	4.0	0	1.0	2.0	3.2	3.6	4.3
115/130	M130	5"	86.0	98.0	110.0	123.5	-	-	0.8	1.6	3.15	4.0	0	1.0	2.0	3.2	3.6	4.3
130	M130	5"	97.5	115.0	110.0	123.5	-	-	0.8	1.6	3.15	4.0	0	1.0	2.0	3.2	3.6	4.3

E Series

Cable Gland Size	Standard Entry Threads		Cable Inner Sealing Diameter		Cable Outer Sealing Diameter		Standard Armour Range				Lighter and Heavier Gauge Armour Range					
							'X' Cone		'W' Cone		'X' Cone		'W' Cone			
											Lighter Gauge 'L'		Lighter Gauge 'L'		Heavier Gauge 'H'	
	Metric	NPT	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
16	M16	3/8"	3.1	7.0	6.1	13.2	0.3	1.0	0.8	1.25	0	1.0	0.7	1.15	1.15	1.6
20S16	M20	1/2"	3.1	7.0	6.1	13.2	0.3	1.0	0.8	1.25	0	1.0	0.7	1.15	1.15	1.6
16/20S	M16	3/8"	3.1	7.0	9.5	15.9	0.3	1.0	0.8	1.25	0	1.0	0.7	1.15	1.15	1.6
20S16/20S	M20	1/2"	3.1	7.0	9.5	15.9	0.3	1.0	0.8	1.25	0	1.0	0.7	1.15	1.15	1.6
20S	M16	3/8"	6.0	11.6	9.5	15.9	0.3	1.0	0.8	1.25	0	1.0	0.7	1.15	1.15	1.6
20S	M20	1/2"	6.0	11.6	9.5	15.9	0.3	1.0	0.8	1.25	0	1.0	0.7	1.15	1.15	1.6
20S/20	M20	1/2"	6.0	11.6	12.5	20.9	0.4	1.0	0.8	1.25	0	1.0	0.7	1.15	1.15	1.6
20	M20	1/2"	8.0	14.0	12.5	20.9	0.4	1.0	0.8	1.25	0	1.0	0.7	1.15	1.15	1.6
20/25	M25	3/4"	8.0	14.0	16.0	26.2	0.4	1.2	1.25	1.6	0	1.0	0.77	1.22	1.63	2.13
25	M25	3/4"	11.0	19.5	16.0	26.2	0.4	1.2	1.25	1.6	0	1.0	0.77	1.22	1.63	2.13
25/32	M32	1"	11.0	19.5	21.5	33.9	0.4	1.2	1.6	2.0	0	1.0	1.12	1.62	2.0	2.6
32	M32	1"	17.0	26.5	21.5	33.9	0.4	1.2	1.6	2.0	0	1.0	1.12	1.62	2.0	2.6
32/40	M40	1 1/4"	17.0	26.5	28.0	40.4	0.4	1.6	1.6	2.0	0	1.0	1.12	1.62	2.0	2.6
40	M40	1 1/4"	22.0	32.0	28.0	40.4	0.4	1.6	1.6	2.0	0	1.0	1.12	1.62	2.0	2.6
40/50	M50	1 1/2"	22.0	32.0	38.0	53.2	0.6	1.6	2.0	2.5	0	1.0	1.33	2.0	2.4	3.1
50	-	1 1/2"	29.5	38.3	38.0	53.2	0.6	1.6	2.0	2.5	0	1.0	1.33	2.0	2.4	3.1
50	M50	2"	29.5	44.0	38.0	53.2	0.6	1.6	2.0	2.5	0	1.0	1.33	2.0	2.4	3.1
50/63	M63	2"	29.5	44.0	52.0	66.0	0.6	1.6	2.0	2.5	0	1.0	1.33	2.0	2.4	3.1
63	-	2"	41.5	48.4	52.0	66.0	0.6	1.6	2.0	2.5	0	1.0	1.33	2.0	2.4	3.1
63	M63	2 1/2"	41.5	55.0	52.0	66.0	0.6	1.6	2.0	2.5	0	1.0	1.33	2.0	2.4	3.1
63/75	M75	2 1/2"	41.5	55.0	64.5	78.5	0.6	1.6	2.5	3.15	0	1.0	1.83	2.53	2.8	3.5
75	-	2 1/2"	53.5	60.45	64.5	78.5	0.6	1.6	2.5	3.15	0	1.0	1.83	2.53	2.8	3.5
75	M75	3"	53.5	68.0	64.5	78.5	0.6	1.6	2.5	3.15	0	1.0	1.83	2.53	2.8	3.5
75/90	M90	3 1/2"	53.5	68.0	75.0	90.5	0.8	1.6	3.15	4.0	0	1.0	2.0	3.2	3.6	4.3
90	M90	3 1/2"	66.0	78.5	75.0	90.5	0.8	1.6	3.15	4.0	0	1.0	2.0	3.2	3.6	4.3
90/100	M100	3 1/2"	66.0	78.5	86.0	101.5	0.8	1.6	3.15	4.0	0	1.0	2.0	3.2	3.6	4.3
100	M100	3 1/2"	76.0	90.5	86.0	101.5	0.8	1.6	3.15	4.0	0	1.0	2.0	3.2	3.6	4.3
100/115	M115	4"	76.0	90.5	101.0	110.5	0.8	1.6	3.15	4.0	0	1.0	2.0	3.2	3.6	4.3
115	M115	4"	86.0	98.0	101.0	110.5	0.8	1.6	3.15	4.0	0	1.0	2.0	3.2	3.6	4.3
115/130	M130	5"	86.0	98.0	110.0	123.5	0.8	1.6	3.15	4.0	0	1.0	2.0	3.2	3.6	4.3
130	M130	5"	97.5	115.0	110.0	123.5	0.8	1.6	3.15	4.0	0	1.0	2.0	3.2	3.6	4.3

Variation 1

This variation introduces the following modifications:

i. Amend product name to "Fortra range of Cable Glands". As the result the product description has been updated with further corrections to nomenclature.
ii. Update to schedule drawings to correct typographical errors.

12 Certificate history and evaluation reports

Issue	Date	Associated Report	Notes
0	25 Mar 2025	R17921A/00	Issue of Prime Certification
1	01 May 2026	R21280A/00	Issue of Variation 1

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

13 Conditions of Manufacture

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

i. Where the product incorporates certified parts or safety critical components, the manufacturer of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.

ii. Cable gland metallic parts are to be supplied in alike materials, alternatively a brass or nickel-plated brass ferrule may be used within steel and stainless-steel glands.

iii. The Cable Glands can be supplied with larger entry threads to the standard size. The below bullet points must be followed:

- The bore of the entry item cannot change from the standard size.
- The entry thread and hex size of the larger approved cable gland size, as detailed in the approved drawings, shall be used.
- The overall protrusion length (whichever is greater between the original cable gland size or the larger approved cable gland size) is not exceeded.
- If an intermediate thread size is used, the hex size of the larger approved cable gland shall be used, and overall protrusion length (whichever is greater between the standard cable gland sizes either side of the intermediate thread size) is not exceeded.

14 Specific Conditions of Use (Special Conditions)

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

i. The Cable Glands when used with braided or unarmoured cables are only suitable for fixed installations. The end user shall provide suitable additional clamping of the cable to ensure that pulling is not transmitted to the terminations.

ii. Cable glands are not intended to be repaired. If the product is damaged, the product is to be replaced.

iii. The Cable Glands supplied with ingress discs can only be used on Ex eb approved enclosures during normal operation.

When the Cable Glands supplied with ingress discs are installed onto enclosure types Ex nR for transit purposes, the end user shall ensure the system is not energised until:-

a) The ingress disc is removed, and a cable is installed, or
b) The cable gland is removed from the enclosure, and a suitably certified stopping plug is installed in its place.

Certificate Annex

Certificate Number	**CML 24ATEX4334X Issue 0**
Equipment	**Fortra Range of Cable Glands E-Series; T-Series**
Manufacturer	**CMP Products Ltd**

The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved Date	Title
OD7	1 to 5	00	25 Mar 2025	E, T, CT, C, B, BL Range of Cable Glands Operational Document Front Sheet
CN001	1 to 3	01	25 Mar 2025	E, T, CT, C, Range of Cable Glands - Compliance Notes - Hazardous
M001	1 to 4	01	25 Mar 2025	E, T, CT, C, Range of Cable Glands - Marking - Hazardous
GA2934	1 of 1	02	25 Mar 2025	General Arrangement 16-75 Triton Series Range
GA2934-1	1 of 1	03	25 Mar 2025	16-75 Triton Series Range
GA3760	1 of 1	02	25 Mar 2025	General Arrangement 90-130 Triton Series Range
GA3760-1	1 of 1	02	25 Mar 2025	90-130 Triton Series Range
GA2933	1 of 1	02	25 Mar 2025	General Arrangement E1 Series Range
GA2933-1	1 of 1	03	25 Mar 2025	E1 Series Range
SCH0612	1 of 1	00	25 Mar 2025	Schedule Entry A
SCH0612-1	1 of 1	02	25 Mar 2025	EDP0002 - Entry A
SCH0614	1 of 1	00	25 Mar 2025	Schedule Entry C
SCH0614-1	1 of 1	02	25 Mar 2025	EDP0002 - Entry C
SCH0615	1 of 1	00	25 Mar 2025	Schedule Entry D
SCH0615-1	1 of 1	01	25 Mar 2025	EDP0002 - Entry Schedule D
SCH0622	1 of 1	00	25 Mar 2025	Schedule Seal B
SCH0622-1	1 of 1	01	25 Mar 2025	EDP0002 - Seal B
SCH0623	1 of 1	00	25 Mar 2025	Schedule Sock A
SCH0623-1	1 of 1	00	25 Mar 2025	EDP0002 - Sock A
SCH0626	1 of 1	00	25 Mar 2025	Schedule SWA Cone A
SCH0626-1	1 of 1	02	25 Mar 2025	EDP0002 - SWA Cone A
SCH0627	1 of 1	00	25 Mar 2025	Schedule Braid Cone A

Certificate Annex

Certificate Number **CML 24ATEX4334X Issue 0**

Equipment **Fortra Range of Cable Glands**
E-Series; T-Series

Manufacturer **CMP Products Ltd**

Drawing No	Sheets	Rev	Approved Date	Title
SCH0627-1	1 of 1	01	25 Mar 2025	EDP0002 - Braid Cone A
SCH0628	1 of 1	00	25 Mar 2025	Schedule Cone B (Universal)
SCH0628-1	1 of 1	00	25 Mar 2025	EDP0002 - Cone B
SCH0701	1 of 1	00	25 Mar 2025	Schedule Cone C (EMC)
SCH0701-1	1 of 1	00	25 Mar 2025	EDP0002 - Cone C (EMC)
SCH0629	1 of 1	00	25 Mar 2025	Schedule Cone D (Reversible)
SCH0629-1	1 of 1	01	25 Mar 2025	EDP0002 - Cone D
SCH0699	1 of 1	00	25 Mar 2025	Schedule SWA Cone F
SCH0699-1	1 of 1	01	25 Mar 2025	EDP0002 - SWA Cone F
SCH0700	1 of 1	00	25 Mar 2025	Schedule Braid Cone F
SCH0700-1	1 of 1	00	25 Mar 2025	EDP0002 - Braid Cone F
SCH0702	1 of 1	00	25 Mar 2025	Schedule SWA Cone G (EMC)
SCH0702-1	1 of 1	01	25 Mar 2025	EDP0002 - SWA Cone G (EMC)
SCH0703	1 of 1	00	25 Mar 2025	Schedule Braid Cone G (EMC)
SCH0703-1	1 of 1	00	25 Mar 2025	EDP0002 – Braid Cone G (EMC)
SCH0704	1 of 1	00	25 Mar 2025	Schedule SWA Cone H (EMC)
SCH0704-1	1 of 1	01	25 Mar 2025	EDP0002 - SWA Cone H (EMC)
SCH0705	1 of 1	00	25 Mar 2025	Schedule Braid Cone H (EMC)
SCH0705-1	1 of 1	00	25 Mar 2025	EDP0002 - Braid Cone H (EMC)
SCH0685	1 of 1	00	25 Mar 2025	Schedule Cone Adaptor A
SCH0685-1	1 of 1	00	25 Mar 2025	EDP0002 - Cone Adaptor A
SCH0633	1 of 1	00	25 Mar 2025	Schedule Sleeve A
SCH0633-1	1 of 1	00	25 Mar 2025	EDP0002 - Sleeve A
SCH0634	1 of 1	00	25 Mar 2025	Schedule Sleeve B
SCH0634-1	1 of 1	00	25 Mar 2025	EDP0002 - Sleeve B

Certificate Annex

Certificate Number **CML 24ATEX4334X Issue 0**

Equipment **Fortra Range of Cable Glands**
E-Series; T-Series

Manufacturer **CMP Products Ltd**

Drawing No	Sheets	Rev	Approved Date	Title
SCH0635	1 of 1	00	25 Mar 2025	Schedule Sleeve Clip A
SCH0636	1 of 1	01	25 Mar 2025	Schedule Body A
SCH0636-1	1 of 1	01	25 Mar 2025	EDP0002 - Body A
SCH0665	1 of 1	01	25 Mar 2025	Schedule Body B
SCH0665-1	1 of 1	01	25 Mar 2025	EDP0002 - Body B
SCH400	1 of 1	03	25 Mar 2025	General Arrangement Ingress Disc
SCH0638	1 of 1	01	25 Mar 2025	Schedule Seal A
SCH0638-1	1 of 1	02	25 Mar 2025	EDP0002 - Seal A
SCH0639-1	1 of 1	01	25 Mar 2025	EDP0002 - Ferrule A
SCH0639	1 of 1	01	25 Mar 2025	Schedule Ferrule A
SCH0640	1 of 1	01	25 Mar 2025	Schedule Nut A
SCH0640-1	1 of 1	02	25 Mar 2025	EDP0002 - Nut A
SCH0684	1 of 1	00	25 Mar 2025	Schedule Nut C
SCH0684-1	1 of 1	00	25 Mar 2025	EDP0002 - Nut C
SCH0673	1 of 1	00	25 Mar 2025	Schedule Cap A
SCH0686	1 of 1	00	25 Mar 2025	Schedule Cap B
SCH0706	1 of 1	00	25 Mar 2025	Schedule Grounding Spring

Issue 1

Drawing No	Sheets	Rev	Approved date	Title
GA2934-1	1 of 1	4	01 May 2026	16-75 Triton Series Range
GA2933-1	1 of 1	4	01 May 2026	E1 Series Range