IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

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Certificate No.: **IECEx CML 24.0137X**

Certificate history:
Issue 0 (2025-03-25)

Status: **Current**

Issue No: 1

Date of Issue: 2026-05-01

Applicant: **CMP Products**
36 Nelson Way
Nelson Park East
Cramlington
Northumberland
NE23 1WH
United Kingdom

Equipment: **Ranges of Cable Glands- T Series, E Series, C Series, CT Series**

Optional accessory:

Type of Protection: **Flameproof* Ex "d", Increased Safety Ex "e", Restricted Breathing* Ex "nR" and Dust Protection by Enclosure Ex "t"**

Marking:

Ex db I Mb*	Ex db IIC Gb*	Ex nR IIC Gc*	Ex ta IIIC Da
Ex eb I Mb	Ex eb IIC Gb		

*** Not applicable to model types C-Series; CT-Series**

Ta = -60°C to + 105°C (E-Series; T-Series)
Ta = -60°C to + 130°C (C-Series; CT-Series)

IP66 / IP67 / IP68 / IP69 / IP69K

Approved for issue on behalf of the IECEx Certification Body: **L A Brisk**

Position: **Assistant Certification Manager**

Signature: (for printed version)



Date: (for printed version) 01 May 2026

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Certificate issued by:

Eurofins E&E CML Limited
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IECEx Certificate of Conformity

Manufacturer: **CMP Products**
36 Nelson Way
Nelson Park East
Cramlington
Northumberland
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United Kingdom

Manufacturing locations: **CMP Products**
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This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

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

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

IEC 60079-31:2022 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

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

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

GB/CML/ExTR24.0246/00 GB/CML/ExTR26.0061/00

Quality Assessment Report:

GB/CML/QAR19.0001/10

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

Range of Cable Glands- E-Series; T-Series; C-Series; CT-Series

See Annex for full description and Conditions of Manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:
See Annex for Specific Conditions of Use.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Issue 1
This issue introduces the following changes:

1. Amend product name to “Fortra range of Cable Glands”. As the result the product description has been updated with further corrections to nomenclature.
2. Update to schedule drawings to correct typographical errors.

Annex:

Certificate Annex IECEx CML 24.0137X Iss. 1_1.pdf

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.

C Series

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

- Threaded entry component
- 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.

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.

CT Series

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

- Threaded entry component
- 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.

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 armour cone may be fitted with an ‘O’ ring seal in a groove, to keep the cone captive in the entry item.

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.

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 T Series & CT Series gland ranges, 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 & C Series gland ranges, 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 & CT 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 & CT Series product ranges 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 T Series & CT Series product ranges, 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 & C Series product ranges, 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

C	C-Series
CT	CT-Series
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.

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Ellesmere Port, CH65 4LZ, UK

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Material

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

0	Brass
1	Aluminium
3	Mild Steel Zinc Plated
4	Stainless Steel
5	Nickel Plated Brass

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

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.

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

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

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

	Standard
P**	Special Thread Pitch

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.

***

Special Entry Thread Length

	Standard
L**	Special Thread Length

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)

*

Marking

	Standard
*	Special Marking

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.

*

Ingress Disc Option

	None
D	Ingress Disc

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.

*

Special Option

	Standard
C	External Clamp

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.

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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
• Size 90 to 130 • Cone Option with Continuity Device	CWEV / CXEV	CTWEV / CTXEV

Sealing Ranges:

T Series (Triton)

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

C Series

Cable Gland Size	Standard Entry Threads		Cable Inner 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	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
16	M16	3/8"	11.2	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"	11.6	6.1	13.2	0.3	1.0	0.8	1.25	0	1.0	0.7	1.15	1.15	1.6
20S	M16	3/8"	11.2	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"	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
20	M20	1/2"	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
25	M25	3/4"	19.85	16.0	26.2	0.4	1.2	1.25	1.6	0	1.0	0.77	1.22	1.63	2.13
32	M32	1"	26.7	21.5	33.9	0.4	1.2	1.6	2.0	0	1.0	1.12	1.62	2.0	2.6
40	M40	1 1/4"	32.25	28.0	40.4	0.4	1.6	1.6	2.0	0	1.0	1.12	1.62	2.0	2.6
50	-	1 1/2"	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"	44.7	38.0	53.2	0.6	1.6	2.0	2.5	0	1.0	1.33	2.0	2.4	3.1
63	-	2"	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"	55.95	52.0	66.0	0.6	1.6	2.0	2.5	0	1.0	1.33	2.0	2.4	3.1
75	-	2 1/2"	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"	68.2	64.5	78.5	0.6	1.6	2.5	3.15	0	1.0	1.83	2.53	2.8	3.5
90	M90	3 1/2"	79.75	75.0	90.5	0.8	1.6	3.15	4.0	0	1.0	2.0	3.2	3.6	4.3
100	M100	3 1/2"	91.75	86.0	101.5	0.8	1.6	3.15	4.0	0	1.0	2.0	3.2	3.6	4.3
115	M115	4"	99.25	101.0	110.5	0.8	1.6	3.15	4.0	0	1.0	2.0	3.2	3.6	4.3
130	M130	5"	116.25	110.0	123.5	0.8	1.6	3.15	4.0	0	1.0	2.0	3.2	3.6	4.3

CT Series

Cable Gland Size	Standard Entry Threads		Cable Inner 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	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
16	M16	3/8"	11.2	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"	11.6	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
20S	M16	3/8"	11.2	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"	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
20	M20	1/2"	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
25	M25	3/4"	19.85	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
32	M32	1"	26.7	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
40	M40	1 1/4"	32.25	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
50	-	1 1/2"	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"	44.7	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
63	-	2"	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"	55.95	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
75	-	2 1/2"	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"	68.2	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
90	M90	3 1/2"	79.75	75.0	90.5	-	-	0.8	1.6	3.15	4.0	0	1.0	2.0	3.2	3.6	4.3
100	M100	3 1/2"	91.75	86.0	101.5	-	-	0.8	1.6	3.15	4.0	0	1.0	2.0	3.2	3.6	4.3
115	M115	4"	99.25	101.0	110.5	-	-	0.8	1.6	3.15	4.0	0	1.0	2.0	3.2	3.6	4.3
130	M130	5"	116.25	110.0	123.5	-	-	0.8	1.6	3.15	4.0	0	1.0	2.0	3.2	3.6	4.3

Maximum Pressure Achieved (Cable Glands with inner seal):

Test - IEC 60079-1: Annex C.3.1.2 – Sealing Test

Cable Gland Size	Pressure Achieved (bar)
16	68
20S16	68
20S	75
20	72
25	159
32	44
40	46
50	55
63	42
75	51
90	46
100	50
115	40
130	32

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. Aluminium cable glands shall not be marked suitable for Group I applications.

iii. 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.

iv. Cable Glands supplied with ingress discs shall not be marked suitable for Group I applications.

v. Cable Glands supplied with ingress discs shall be marked; Ex eb, IP66.

vi. 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.

vii. The Cable Glands, when supplied with thread types other than Metric or NPT for Ex db applications, shall be manufactured in accordance with the requirements detailed in the relevant previous edition of EN 60079-1.

Specific Conditions of Use

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. The Cable Glands shall not be used to terminate on braided or unarmoured cables in Group I applications.

iii. The Cable Gland sizes 16, 20S16 and 20S shall not be used for Group I, EPL Mb applications where there is a 'high' risk of mechanical damage.

iv. Cable glands and flameproof joints are not intended to be repaired. If the product is damaged, the product is to be replaced.

v. 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 db, Ex ta, or 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.

vi. The Cable Glands, when supplied with thread types other than Metric or NPT for Ex db applications, shall only be used in existing installations where other external thread types were permitted in previous editions of EN 60079-1.

Components used which are covered by Ex Certificates issued to older editions of Standards

None.