



Mining And Surface Certification (Pty) Ltd

2015/021934/07



Certificate Number: MASC MS/13-028X

Issue: 04 April 2018

Expire: 21 January 2023

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IA – CERTIFICATE

(R3: Update service temperatures and materials)

IN TERMS OF REGULATION 21.17.2 OF THE MINERALS ACT (INCORPORATION THE MINE HEALTH AND SAFETY ACT) AND REGULATION 9 (1) OF THE ELECTRICAL MACHINERY REGULATIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT

Ex – Type Examination

Certificate number:

MASC MS/13-028X

Equipment:

Range of Cable Glands (See Description for Types)

Serial No:

(See “Conditions of Certification”)

Applicant:

CCG Cable Terminations

Address:

33-37 Forge Road,
Spartan Ind. Area,
Kempton Park,
Gauteng, South Africa

Manufacturer:

CCG Cable Terminations

Address:

33-37 Forge Road,
Spartan Ind. Area,
Kempton Park,
Gauteng, South Africa

DESCRIPTION:

Please see Annex A below for Equipment Description.

Revision 1:

1. Updated to indicate compliance of the glands to the IEC 60529 standard as requested by CCG.
2. Updated to include additional glands and SANS 808 assessment.

Revision 2:

1. The original TUV certification was replaced with a certificate from CML (IECEX CML 18.0018X) covering all glands. All descriptions / updates and additional glands were included / updated in the MASC certification.
2. The Hose attachment section of the FLP Hose gland was updated to include an option for a serrated surface.

Revision 3:

1. Nylon skid rings and updated EPDM material is added as an option to the series of glands.
2. The temperature range is updated. See description.

MARKING

Certification Managemet Limited (CML) marking remains applicable.

The following MASC Certificate number (IA number) must be additionally applied:

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COMPLIANCE:

The equipment as described above and in MASC letter 13-028 (R1 (including Annex R1 & R2)) and IECEx test report ZA/ICS/ExTR19.0004.00 is hereby certified “Explosion Protected” Ex db IIC Gb, Ex db I/IIC MbGb / Ex eb IIC Gb, Ex nR IIC Gc / Ex tb IIIC Db (As applicable), IP66/67/68 (2m), IP65 (As applicable) (see description / Marking details) and is suitable for use in hazardous locations as stated below and as tested, assessed and inspected in accordance with the relevant requirements of SANS/IEC Standards:

The evaluation was conducted according to the requirements of:

A. For the full range of glands:

- i) IEC 60079-0: 2017 “Explosive atmospheres – Part 0: Equipment — General requirements”
- ii) SANS (IEC) 60079-1: 2015 “Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures ‘d’”
- iii) IEC 60079-7: 2015 “Explosive atmospheres – Part 7: Equipment protection by increased safety ‘e’”
- iv) SANS (IEC) 60079-15: 2010 “Electrical apparatus for explosive gas atmospheres – Part 15: Type of protection ‘n’”
- v) SANS (IEC) 60079-31: 2014 “Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosures ‘t’”
- vi) SANS (IEC) 60529: 2013 “Degrees of protection provided by enclosures (IP Code)”

B. In addition; only for FLP, FLP TR, FLP Hose and The Armortex Gland (MASC 13-028 Annex 1):

i) SANS 808: 2013	“Cable glands for use on flameproof enclosures (Ex d)”	
Location	Zone 1 and 2	Gases/vapours: Surface or underground (incl. coal dust).
	Zone 21 and 22	Dusts and Fibres – Surface Industry
Hazard Frequency	---	Intermittent as could occur under normal or abnormal operating conditions in hazardous area
Environment	Group I	Methane and coal dust
	Group IIC	Propane to Hydrogen and Acetylene
	Group IIIC	Flyings, non-conductive and conductive duts
Limiting Temperature	---	Not Applicable
Service Temperature	See description in Annex A	

The use of apparatus in hazardous locations is subject to the following provisions as applicable, which shall be adhered to:

- i) SANS 10086 requirements;
- ii) Any conditions mentioned in the above report;
- iii) Codes of Practice enforced in terms of Regulations 21.17.2 of Minerals Act, by Chief Inspector of Mines;
- iv) Any restrictions and conditions enforced by Chief Inspectors of Mines, Principal Inspector (Group I equipment) of Chief Inspector of Factories (Group II equipment);
- v) Any relevant requirements of the MHS Act or the OHS Act.

SPECIAL CONDITIONS OF SAFE USE (X):

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

General Conditions:

1. When the quick stop glands are supplied with the metal sleeve and cementing it must be fitted with the metal sleeve and cementing since the internal gland construction only accommodates the large diameter of the metal sleeve for clamping.

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2. The cable glands shall only be used where the temperature, at the point of entry, is as follows:
 - -60°C to 160°C (Non-metallic parts: Silicone Seal(s) & PTFE gasket(s) / Skid Ring(s))
 - -50°C to 120°C (Non-metallic parts: When Quick Stop is used with Silicone Seal(s) & PTFE gasket(s) / Skid Ring(s)**)
 - -50°C to 95°C (Non-metallic parts: When Quick Stop is used with EPDM Seal(s) & HDPE gasket(s) / Skid Ring(s)**)
 - -50°C to 100°C (Non-metallic parts: When Quick Stop is used with EPDM Seal(s) & Nylon gasket(s) / Skid Ring(s)**)
 - -60°C to 95°C (Non-metallic parts: EPDM Seal(s) & HDPE gasket(s) / Skid Ring(s))
 - -60°C to 100°C (Non-metallic parts: EPDM Seal(s) & Nylon gasket(s) / Skid Ring(s))
 - -20°C to 95°C (Non-metallic parts: Posigrip and Barrier Glands)
 - 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.
3. Only the compounds as supplied by the manufacturer may be used in the glands.
4. Cable glands for unarmoured cable and approved only for group IIC/IIIC (Not group I) may only be used on fixed installations where the cable is clamped or stress applied to the cable in the gland is prevented.
5. The appropriate ingress protection level / restricted breathing and / or flameproof characteristics must be achieved and maintained at the interface of the gland with the enclosure.

Conditions for Specific Glands:

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

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

CONDITIONS OF MANUFACTURE**CML:**

- None

MASC:

- The MASC IA certificate number must be added to the relevant CML marking.

CONDITIONS OF CERTIFICATION:

1. This certificate covers all units sold from the date of this certificate and covered by both a valid QAR and South African Markscheme / Batch testing.
2. The apparatus is additionally marked in a clear, legible, visible and indelible manner with the MASC marking details above.
3. This approval only covers the equipment as certified above and does not include any scheduled additions or variations/amendments/new issues to the certificate(s), made after the above date.
4. The equipment does not need to be re-tested when used on the conditions and with such restrictions as prescribed by CML and in this approval.
5. The CML certification must remain valid.
6. The extent of the requirements in the ARP 0108 (or regulations) and SANS 10108 on the certification of the equipment must remain unchanged.

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7. The Ex quality assurance notification/report for the equipment must remain valid.



R Viljoen
TECHNICAL SPECIALIST

Mining And Surface Certification

This document is issued based on Mining And Surface Certification's Standard Contract terms and conditions available on request.

While every endeavour is made to ensure that a test / assessment is representative and accurately performed, and that a report is accurate in the quoted results and conclusions drawn from the test / assessment, MASC or its members/employees shall in no way be liable for any error made in carrying out the test / assessment or for any erroneous statement, whether in fact or in opinion, contained in a report issued pursuant to a test / assessment.

MASC takes no responsibility for any non-conformances, exclusions or any results / assessments not in compliance with the standards. By marking the equipment in accordance with the documentation / standard, the manufacturer attests on his own responsibility that the equipment has been constructed in accordance with the applicable requirements of the relevant standards and that the routine verifications and routine tests have been successfully completed and the product complies with the documentation and standard(s).

This document is only for use and application in South Africa. It is issued based on National interpretations and accepted practises.

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Various Cable Gland Ranges
(Revision 2)

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ANNEX A

Cable Gland Series E1EX (VS)(LS)(QS), E1EX-U (VS)(LS)(QS), E1EX Lead Seal, D1EX (QS), EXCG (VS)(LS)(QS), FLP (QS), ARMORTEX (QS), EXCG-LS, FLP-TR (QS), FLPHOSE (QS), POSI GRIP (QS), A2F (QS), A2FX (QS), A2FCG (QS), A2FH (QS), A2EX (VS)(LS)(QS), A2EX-FHC (VS)(LS)(QS), A2FX-R(QS), E1EX-D (VS)(LS)(QS), UNITEx, UNITEx-QS, UNITEx-F, UNITEx-F-QS

Ex Protection & Sizes:

Armoured Cable Glands

Marking	Sizes	Metric Thread type	NPT thread Type	Sealing Gasket #	Ex db IIC Gb	Ex eb IIC Gb	Ex db I Mb	Ex eb I Mb	Ex nR IIC Gc	Ex tb IIIC Db	IP 66/68	IP 65 NPT
E1EX (VS)(LS)(QS)	00-13 (metric) 00-11 (NPT)	16 to 130	1/2"to 4"	SG	YES	YES	N/A	N/A	YES	YES	YES	YES
E1EX U (VS)(LS)(QS)	00-10 (metric) & NPT	16 to 100	1/2"to 4"	SG	YES	YES	YES	YES	YES	YES	YES	YES
E1EX LS	00-13 (metric) 00-11 (NPT)	20 to 130	1/2"to 4"	SG	YES	YES	N/A	N/A	YES	YES	YES	YES
D1EX (QS)	00-13 (metric) 00-11 (NPT)	16 to 130	1/2"to 4"	SG	YES	YES	N/A	N/A	YES	YES	YES	YES
CXe	00-13 (metric) 00-11 (NPT)	16 to 130	1/2"to 4"	SG	N/A	YES	N/A	N/A	N/A	YES	YES	YES
CWe	00-13 (metric) 00-11 (NPT)	16 to 130	1/2"to 4"	SG	N/A	YES	N/A	N/A	N/A	YES	YES	YES

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Marking	Sizes	Metric Thread type	NPT thread Type	Sealing Gasket ##	Ex db IIC Gb	Ex eb IIC Gb	Ex db I Mb	Ex eb I Mb	Ex nR IIC Gc	Ex tb IIIC Db	IP 66/68	IP 65 NPT
ExCG (VS)(LS) (QS)	00-10 (metric)	16 to 100	N/A	CG SG	YES	YES	N/A	N/A	YES	YES	YES	N/A
VRTX SWA	0-8 (Metric)	20 to 80	N/A	SG	N/A	YES	N/A	N/A	N/A	YES	YES	N/A
FLP (QS)	00-7 (Metric & NPT)	16 to 75	1/2"to 3"	SG	YES	YES	YES	YES	YES	YES	YES	YES
ARMORTEX(QS)	00-7 (Metric & NPT)	16 to 75	1/2"to 3"	SG	YES	YES	YES	YES	YES	YES	YES	YES
EXCG – LS	00-13 (Metric)	20 to 130	N/A	SG	YES	YES	N/A	N/A	YES	YES	YES	N/A
E1EX-D (VS)(LS) (QS)	00-10 (Metric & NPT)	16 to 100	1/2"to 4"	SG	YES	YES	N/A	N/A	YES	YES	YES	YES
UNITEx	00-10 (Metric & NPT)	16 to 100	1/2"to 4"	SG	N/A	YES	N/A	N/A	YES	YES	YES	YES
UNITEx ~QS	00-10 (Metric & NPT)	16 to 100	1/2"to 4"	SG	YES	YES	N/A	N/A	YES	YES	YES	YES

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Marking	Sizes	Metric Thread type	NPT thread Type	Sealing Gasket ##	Ex db IIC Gb	Ex eb IIC Gb	Ex db I Mb	Ex eb I Mb	Ex nR IIC Gc	Ex tb IIIC Db	IP 66/68	IP 65 NPT
UNITEx-F	00-10 (Metric & NPT)	16 to 100	1/2"to 4"	SG	N/A	YES	N/A	N/A	YES	YES	YES	YES
UNITEx -F~QS	00-10 (Metric & NPT)	16 to 100	1/2"to 4"	SG	YES	YES	N/A	N/A	YES	YES	YES	YES

Non-Armoured Cable Gland Ranges

Marking	Sizes	Metric Thread type (M)	NPT thread Type	Sealing Gasket ##	Ex db IIC Gb	Ex eb IIC Gb	Ex db I Mb	Ex eb I Mb	Ex nR IIC Gc	Ex tb IIIC Db	IP 66/68	IP 65 NPT
FLP TR (QS)	00-7 (Metric & NPT)	16 to 75	1/2"to 3"	SG	YES	YES	YES	YES	YES	YES	YES	YES
FLP Hose (QS)	00-7 (Metric & NPT)	16 to 75	1/2"to 3"	SG	YES	YES	YES	YES	YES	YES	YES	YES
Posi Grip (QS)	00-11 (Metric)	20 to 110	N/A	SG	YES	YES	N/A	N/A	YES	YES	YES	N/A
A2F (QS)	00-13 (metric & NPT)	16 to 130	1/2"to 4"	SG	YES	YES	N/A	N/A	YES	YES	YES	YES

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Marking	Sizes	Metric Thread type (M)	NPT thread Type	Sealing Gasket ##	Ex db IIC Gb	Ex eb IIC Gb	Ex db I Mb	Ex eb I Mb	Ex nR IIC Gc	Ex tb IIIC Db	IP 66/68	IP 65 NPT
A2FX(QS)	00-13 (metric & NPT)	16 to 130	1/2"to 4"	SG	YES	YES	YES	YES	YES	YES	YES	YES
A2FCG (QS)	00-10 (metric)	16 to 100	N/A	CG SG	YES	YES	N/A	N/A	YES	YES	YES	N/A
A2FH (QS)	00-7 (metric & NPT)	16 to 75	1/2"to 3"	SG	YES	YES	YES	YES	YES	YES	YES	YES
A2EX (VS)(LS) (QS)	00-13 (Metric &NPT)	16 to 130	1/2"to 4"	SG	YES	YES	N/A	N/A	YES	YES	YES	YES
A2EX-FHC (VS)(LS) (QS)	00-13 (Metric) 0-11 (NPT)	16 to 130	1/2"to 4"	SG	YES	YES	N/A	N/A	YES	YES	YES	YES
VRTX	0-8 (Metric)	20 to 80	N/A	SG	N/A	YES	N/A	N/A	N/A	YES	YES	N/A
A2FX-R (QS)	00-13 (Metric & NPT)	16 to 130	1/2"to 4"	SG	YES	YES	YES	YES	YES	YES	YES	YES

Not applicable to NPT thread. Applicable to all parallel thread (eg Metric and BSP parallel). Optional for Ex d application without IP rating.

QS The QS in the table above, refers to the Quickstop version of the cable glands. This utilises a clear potting compound to achieve a hard setting seal inside the gland. The sealing compound is transparent and accommodates inspection. The compound may be utilised as follows:

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- A seal within the front part of the gland, with no seal clamping on it
- A seal within the front part of the gland, with the seal clamping on it, therefore acting as the bedding for the cable
- A seal within the front part of the gland applied around the conductors within a metal sleeve.
The gland may only be used with the metal sleeve (when supplied with the gland and marked QS) since the internal gland construction only accommodates the large diameter of the metal sleeve for seal clamping

Note: Cables/cable bedding as above does not form part of the approval of glands.

Materials

Description	Materials
Metallic Parts	BRASS (Nickel-plated) CZ121, Stainless steel 316, BRONZE PB2, MILD STEEL (EN8)
Corrosion guard	30% GLASS PBT KP213G40 (Not an essential part of the explosion protection)
Skid Ring	BRASS (Nickel-plated) CZ121, STAINLESS STEEL 316, BRONZE PB ² , MILD STEEL (EN8) HDPE D7255/HL (-100°C to 120°C) or PTFE CCG-PTFE-001(-270°C to 260°C) Nylon (-65°C to 120°C)
BARRIER Putty	ELI-FIL EPOXY PUTTY- FRR/308 (-30°C to 120°C)
Sealing Compound	Clear Quick Stop Ex Resin S50/EPA (-50°C to 120°C)
Outer/Inner Seal	EPDM (64 Shore) (-60°C to 120°C) or Silicone CCG G/65-1R (-70°C to 180°C)
Posi grip	30% Glass filled Polyester CCG PBT SPESIN KP213G30 (-30°C to 125°C) * RTI= 120°C

** The plastic material for the Posigrip is external to the metallic parts. The Plastic Nipple Nut is a part 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

Gland Range Construction

Constructional parts	Inner	Inner Seal	Body	Outer Seal	Skid Ring	Outer nut	Cone	Cone Ring	Barrier Putty *	Clear Sealing Compound **	Corrosion Guard Body	Inner Lock Nut	Lock Nut	O-Ring	Lead Seal	Quick Stop with Sleeve Assembly	Compression Nut	Nipple Seal/Nut	Posi Insert	Coupling/Outer Coupling
	Gland Ref																			
CXe	CXe	N/A	CXe	E1EX-U	E1EX-U	E1EX-U	CXe	E1EX-U	N/A	N/A	N/A	N/A	Optional	YES	N/A	N/A	N/A	N/A	N/A	N/A
CWe	CWe	N/A	CWe	E1EX	E1EX	E1EX	CWe	E1EX	N/A	N/A	N/A	N/A	Optional	YES	N/A	N/A	N/A	N/A	N/A	N/A
E1EX (VS)(LS) (QS) ###	E1EX	E1EX	E1EX	E1EX	E1EX	E1EX	E1EX	E1EX	N/A	YES	N/A	N/A	Optional	YES	N/A	YES	N/A	N/A	N/A	N/A

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Constructional parts													
Inner	E1EX-LS	E1EX	VRTX-SWA	FLP	FLP	FLP	E1EX-LS	FLP	FLP	FLP	FLP	FLP	FLP
Inner Seal	E1EX	E1EX	SPRING	FLP	FLP	FLP	E1EX	FLP	FLP	FLP	E1EX	FLP	FLP
Body	E1EX	N/A	VRT-SWA	N/A	ARMOTEX	ARMOTEX	E1EX	ARMOTEX	ARMOTEX	CG	E1EX	CG	CG
Outer Seal	E1EX	N/A	BRTX-A	N/A	BRTX	BRTX	E1EX	BRTX	BRTX	E1EX	E1EX	E1EX	E1EX
Skid Ring	E1EX	N/A	BRTX-A	N/A	BRTX	BRTX	E1EX	BRTX	BRTX	E1EX	E1EX	E1EX	E1EX
Outer nut	E1EX	D1EX	BRTX-A	FLP	ARMOTEX	ARMOTEX	CG	FLP	FLP	CG	E1EX	E1EX	E1EX
Cone	E1EX	E1EX	BW	FLP	FLP	FLP	E1EX	FLP	FLP	E1EX	E1EX	E1EX	E1EX
Cone Ring	E1EX	E1EX	E1EX	FLP	FLP	FLP	E1EX	FLP	FLP	E1EX	E1EX	E1EX	E1EX
Barrier Putty *	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Clear Sealing Compound **	N/A	YES	N/A	YES	N/A	N/A	N/A	YES	N/A	N/A	N/A	N/A	N/A
Corrosion Guard Body	N/A	N/A	N/A	N/A	N/A	N/A	CG	N/A	N/A	YES	N/A	N/A	N/A
Inner Lock Nut	N/A	N/A	N/A	FLP	FLP	FLP	N/A	FLP	FLP	N/A	N/A	N/A	N/A
Lock Nut	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
O-Ring	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Lead Seal	N/A	N/A	N/A	N/A	N/A	N/A	YES	N/A	N/A	N/A	N/A	N/A	N/A
Quick Stop with Sleeve Assembly	YES	N/A	N/A	YES	YES	YES	N/A	YES	YES	YES	YES	YES	YES
Compression Nut	N/A	N/A	VRTX-SWA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nipple Seal/Nut	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Posi Insert	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Coupling/Outer Coupling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Construconal parts	Inner	Inner Seal	Body	Outer Seal	Skid Ring	Outer nut	Cone	Cone Ring	Barrier Putty *	Clear Sealing Compound **	Corrosion Guard Body	Inner Lock Nut	Lock Nut	O-Ring	Lead Seal	Quick Stop with Sleeve Assembly	Compression Nut	Nipple Seal/Nut	Posi Insert	Coupling/Outer Coupling
Gland Ref																				
FLP Hose (QS)	FLP	FLP	N/A	N/A	N/A	FLP	FLP-HOSE	N/A	N/A	YES	N/A	FLP	Optional	YES	N/A	YES	N/A	N/A	N/A	N/A
Posi Grip (QS)	POSI GRIP	E1EX	N/A	A2	A2	POSI GRIP	A2EX	N/A	N/A	YES	N/A	N/A	Optional	YES	N/A	YES	N/A	POSI GRIP	POSI GRIP	N/A
A2F (QS)	A2F	A2	N/A	N/A	A2	A2F	N/A	N/A	N/A	YES	N/A	N/A	Optional	N/A	N/A	YES	N/A	N/A	N/A	N/A
A2FX(QS)	A2F	A2	A2FX	A2	A2	A2F	N/A	N/A	N/A	YES	N/A	N/A	Optional	N/A	N/A	YES	N/A	N/A	N/A	N/A
A2FCG (QS)	A2F	A2	A2F-CG	CG	A2 AND CG	A2F-CG	N/A	N/A	N/A	YES	CG	N/A	Optional	N/A	N/A	YES	N/A	N/A	N/A	N/A
A2FH (QS)	A2F	A2	A2FX	A2	A2	A2FH	N/A	N/A	N/A	YES	N/A	N/A	Optional	N/A	N/A	YES	N/A	N/A	N/A	N/A
A2EX (VS)(LS) ###	E1EX	E1EX	N/A	A2	A2	A2EX	A2EX	N/A	N/A	YES	N/A	N/A	Optional	YES	N/A	YES	N/A	N/A	N/A	N/A
A2EXFH C (VS)(LS) ###	E1EX	E1EX	N/A	A2	N/A	A2EX-FHC	A2EX	N/A	N/A	YES	N/A	N/A	Optional	YES	N/A	YES	N/A	N/A	N/A	A2EX-FHC
VRTX	VRTX	SPRING	VRTX	VRTX	VRTX	VRTX	N/A	N/A	N/A	N/A	N/A	N/A	Optional	N/A	N/A	N/A	VRTX	N/A	N/A	N/A

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Various Cable Gland Ranges
(Revision 2)

UNITEX T ₁ ~QS	UNITEX- T ₁	UNITEX ~QS	UNITEX	E1EX-D (VS)(LS) ###	A2FX-R (QS)	Gland Ref	Constructional parts
UNITEX-F~QS	UNITEX-F~QS	E1EX-D~QS	E1EX-D~QS	E1EX-D	AFX-R		Inner
UNITEX-F~QS	UNITEX-F~QS	E1EX~QS	E1EX~QS	E1EX	A2		Inner Seal
E1EX-D~QS	E1EX-D~QS	E1EX-D~QS	E1EX-D~QS	E1EX-D	AFX-R		Body
E1EX-U	E1EX-U	E1EX-U	E1EX-U	E1EX-U	A2		Outer Seal
E1EX-U	E1EX-U	E1EX-U	E1EX-U	E1EX-U	A2		Skid Ring
E1EX-U / D	E1EX-U / D	E1EX-U / D	E1EX-U / D	E1EX-U / D	AFX-R		Outer nut
UNITEX-F~QS	UNITEX-F~QS	E1EX-D~QS	E1EX-D~QS	E1EX-D	N/A		Cone
E1EX	E1EX	E1EX	E1EX	E1EX	N/A		Cone Ring
N/A	N/A	N/A	N/A	N/A	N/A		Barrier Putty *
YES	N/A	YES	N/A	N/A	YES		Clear Sealing Compound **
N/A	N/A	N/A	N/A	N/A	N/A		Corrosion Guard Body
N/A	N/A	N/A	N/A	N/A	N/A		Inner Lock Nut
Optional	Optional	Optional	Optional	Optional	Optional		Lock Nut
YES	YES	YES	YES	YES	N/A		O-Ring
N/A	N/A	N/A	N/A	N/A	N/A		Lead Seal
YES	N/A	YES	N/A	N/A	YES		Quick Stop with Sleeve Assembly
N/A	N/A	N/A	N/A	N/A	N/A		Compression Nut
N/A	N/A	N/A	N/A	N/A	N/A		Nipple Seal/Nut
N/A	N/A	N/A	N/A	N/A	N/A		Posi Insert
N/A	N/A	N/A	N/A	N/A	N/A		Coupling/Outer Coupling

* The barrier putty is part of the flameproof characteristics of the gland. It forms a flamepath with the cone.

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- ** Use of Metal sleeve and clear sealing compound as indicated below. (Quickstop- QS on Marking)
 - (CG) Parts manufactured from Non-metallic or specifically adapted for fitment to corrosion guard
 - ## Not applicable to NPT thread. Applicable to all parallel thread (e.g. Metric and BSP parallel).
Optional for Ex d application without IP rating.
 - ### A thin copper/brass disc may be utilised in the (VS) and (LS) gland variants between the inner seal and the cone for earth continuity to a metallic cable screen (e.g. variable speed drive cable). The sealing arrangement between the inner seal and the potted sleeve is not affected.

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