

[1] **EC-TYPE EXAMINATION CERTIFICATE**



[2] **Component intended for use on/in equipment or protective system
intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

[3] EC-Type Examination Certificate Number: DEMKO 01 ATEX 130325X

[4] Component: A Range of Cable Glands, Blanks, Reducers and Adaptors

[5] Manufacturer: CCG Cable Terminations (PTY) Ltd

[6] Address: 33-37 Forge Road, Spartan, PO Box 192, Kempton Park, 1620, S. Africa

[7] This Component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] UL International Demko A/S, notified body number 0539 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. 130325

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 50014:1997, E incl. A1+A2 EN, 50018:2000E, EN 50019:2000E, EN 50281-1-1:1999E

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EC-Type examination certificate relates only to the design, examination and tests of the specified component in accordance with the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.


[12] The marking of the equipment or protective system shall include the following:



I/II 2 GD EEx de IIC

On behalf of UL International Demko A/S

Herlev, 2002-03-07
Correction of 2003-06-25


Karina Christiansen
Certification Manager

UL International Demko A/S

Lyskaer 8, P.O. Box 514
DK-2730 Herlev, Denmark
Telephone: +45 44856565
Fax: +45 44856500

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Schedule

[13]

[14]

EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 01 ATEX 130325X

[15] Description of Equipment or protective system:

The 'E1EX' Range of 'EEx de IIC' Cable Glands for armoured cables each comprising of a metallic body, a front seal, an armour cone, an armour compression element, a rear seal and a seal compression nut. An optional moulded corrosion guard may be interposed between the armour element and rear compression nut. The glands are available with metric (from M16 to M75) or NPT (from ½" to 3") entry threads as shown on relevant drawings.

The 'E1EX Lead Seal' Range is as above but incorporates a front lead seal.

The 'D1EX' Range of 'EEx de IIC' Cable Glands for armoured cables each comprising of a metallic body, seal, an armour cone and a compression nut. The glands are available with Metric (from M16 to M75) or NPT (from ½" to 3") entry threads as shown on relevant drawings.

The 'A2EX' & 'A2EX FHC' Range of 'EEx de IIC' Cable Glands for un-armoured cables each comprising of a metallic body, an inner seal, a space/cone element, a rear seal and a compression nut and ring. The glands are available with Metric (form M16 to M75) or NPT (½ " to 3") entry threads as shown on relevant drawings.

The 'ARMORTEX' Range of 'EEx de IIC' Cable Glands for armoured cables each comprising of a metallic body, a front seal, an armour cone, an armour compression element, a rear seal and a seal compression nut. The glands are available with metric (from M16 to M63) or NPT (from ½" to 2 ½") entry threads, as the relevant drawings indicate. An optional moulded corrosion guard may be interposed between the armour element and the rear compression nut.

The 'FLP' Range of 'EEx de IIC' Cable Glands for armoured cables each comprising of a metallic body, a seal, an armour cone, and a compression nut. The glands are available with metric (from M16 to M63) or NPT (from ½" to 2½") entry threads as the relevant drawings indicate.

The 'FLP Hose' Range of 'EEx de IIC' Cable glands for un-armoured cables each comprising of a metallic body, a seal, a spacer/compression element and a compression nut. The spacer element extends beyond the gland to allow the fitting of a hose sleeve over the cable. The Glands are available with metric (from M16 to M63) or NPT (from ½" to 2 ½") entry threads, as the relevant drawings indicate.

The 'FLP TR' Range of 'EEx de IIC' Cable Glands for un-armoured cables each comprising of a metallic body, a seal, a spacer/compression element, a rear seal and a seal compression nut. The glands are available with a metric (from M16 to M63) or NPT (from ½" to 2 ½") entry threads, as the relevant drawings indicate.

The 'CXT' Range of 'EEx de IIC' Cable Glands for un-armoured cables each comprising of a metallic body, an inner seal, a space/cone element, a rear seal and a compression nut and ring. The glands are available with Metric (form M16 to M40) or NPT (½ " to 3") entry threads as shown on relevant drawings.

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UL International Demko A/S

Lyskaer 8, P.O. Box 514
DK-2730 Herlev, Denmark
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Fax: +45 44856500



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The 'EX Corrosion Guard' and 'EX Corrosion Guard Lead Seal' Range of 'EEx de IIC' Cable Glands for armoured cables each comprising of a metallic body, an inner seal, a space/cone element, a rear seal and a corrosion guard body and outer nut. The glands are available with Metric (form M16 to M75) entry threads as shown on relevant drawings.

The Posi Grip Range of 'EEx e II' Cable Glands that incorporate two seals. The glands are available with a metric (from M16 to M75) entry threads, as the relevant drawings indicate.

The Posi Braid Range of 'EEx e II' Cable Glands that incorporate two seals. The glands are available with a metric (from M16 to M75) entry threads, as the relevant drawings indicate.

The Range of 'EEx de IIC' Blanks each comprising a hexagonal metallic body with a male thread at one end. The blanks are available with Metric (from M16 to M75), NPT (from ½" to 2 ½") or Pg (from Pg9 to Pg 48) entry threads.

The range of 'EEx de IIC' Reducers each comprise of a hexagonal metallic body with a metric male thread (from M16 to M63) at one end and a female metric thread (form M16 to M50) machined into the other.

The range of 'EEx de IIC' Adaptors each comprise of a hexagonal metallic body with a male thread at one end and a female thread machined into the other. The threads may be Pg to Metric, NPT to Metric or Metric to Metric.

The range of 'EEx de IIC' adaptors and reducers each comprising of a hexagonal metallic body with a male metric thread (from M16 to M75) at one end and a female NPT thread (form ¼" to 3") machined into the other.

[16] Report No.:

130325 - 01

Drawings:

Number	Date	Description
MR100102	10 Jan 02	Marking for CCG Cable Glands, Adaptors and Reducers
E.00.00.27.000/A	11 Jun 2001	CCG D1EX EExde Cable Glands Metric
E.00.00.27.000/B	11 Jun 2001	D1EX Exde Cable Glands
E.00.00.27.000/C	11 Jun 2001	CCG D1EX EExde Cable Glands NPT
E.00.00.27.000/D	11 Jun 2001	CCG D1EX EExde Cable Glands NPT
E.00.00.27.000/E	11 Jun 2001	D1EX EExe Cable Gland
E.00.00.27.000/F	11 Jun 2001	CCG D1EX EExe Cable Glands Metric
E.00.00.27.000/G	11 Jun 2001	CCG D1EX EExe Cable Glands NPT
E.00.00.27.000/H	11 Jun 2001	CCG D1EX EExe Cable Glands NPT
E.00.00.25.000/A	11 Jun 2001	CCG A2EX EExde Cable Glands Metric
E.00.00.25.000/B	11 Jun 2001	A2EX Exde Cable Gland
E.00.00.25.000/C	11 Jun 2001	CCG A2EX EExde Cable Glands NPT
E.00.00.25.000/D	11 Jun 2001	CCG A2EX EExde Cable Glands NPT
E.00.00.25.000/E	11 Jun 2001	CCG A2EX EExe Cable Glands Metric

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DK-2730 Herlev, Denmark
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Drawings (continued):

Number	Date	Description
E.00.00.25.000/F	11 Jun 2001	A2EX EExe Cable Glands
E.00.00.25.000/G	11 Jun 2001	CCG A2EX EExe Cable Glands NPT
E.00.00.25.000/H	11 Jun 2001	CCG A2EX EExe Cable Glands NPT
E.00.00.32.947	May 2001	A2EX FHC EExde
E.00.00.32.947/A	30 May 2001	CCG A2EX FHC EExde Cable Glands Metric - NPT
E.00.00.50.102	04 Apr 2000	CCG CXT EExde IIC Cable Gland Metric
E.00.00.50.102/A	13 Jun 2000	CCG CXT EExde IIC Cable Gland Metric
E.00.00.50.103/A	04 Apr 2000	CCG CXT EExde IIC Cable Gland NPT
E.00.00.50.103	04 Apr 2000	CCG CXT EExde IIC Cable Gland NPT
E.00.00.02.000/B	23 Jan 1997	CCG POSI GRIP EExe Cable Gland Metric
E.00.00.02.000/A	23 Jan 1997	CCG POSI GRIP EExe Cable Gland Metric
E.00.01.02.000/B	29 Sep 1998	CCG POSI BRAID EExe Cable Gland Metric
E.00.01.02.000/A	29 Sep 1998	CCG POSI BRAID EExe Cable Gland Metric
E.00.00.48.000/A	14 Jun 2001	EX Corrosion Guard EExde
E.00.00.48.000/B	14 Jun 2001	EExde Corrosion Guard
E.00.01.48.000/B	14 Jun 2001	EX CORROSION GUARD - LEAD SEAL
E.00.01.48.000/A	14 Jun 2001	EExe CORROSION GUARD - LEAD SEAL
E.00.00.26.000/A	11 Jun 2001	CCG E1EX EExde Cable Gland Metric
E.00.00.26.000/B	11 Jun 2001	E1EX Exde Cable Gland
E.00.00.26.000/C	11 Jun 2001	CCG E1EX EExde Cable Gland NPT
E.00.00.26.000/D	11 Jun 2001	CCG E1EX EExde Cable Gland NPT
E.00.00.26.000/E	11 Jun 2001	E1EX EExe Cable Gland
E.00.00.26.000/F	11 Jun 2001	CCG E1EX EExe Cable Gland Metric
E.00.00.26.000/G	11 Jun 2001	CCG E1EX EExe Cable Gland NPT
E.00.00.26.000/H	11 Jun 2001	CCG E1EX EExe Cable Gland NPT
E.00.01.26.000/A	14 Jun 2001	E1EX EExe LEAD SEAL Gland
E.00.01.26.000/B	14 Jun 2001	E1EX EEx de LEAD SEAL Gland
E.00.01.26.000/C	07 Jul 1998	E1EX EExe LEAD SEAL Cable Gland - NPT
E.00.01.26.000/D	07 Jul 1998	E1EX EExe LEAD SEAL Cable Gland - NPT
E.00.00.08.000/A	11 Jun 2001	CCG FLP EExde Cable Gland
E.00.00.08.000/B	11 Jun 2001	CCG FLP EExde Cable Gland Metric
E.00.00.08.000/C	11 Jun 2001	CCG FLP EExde Cable Gland NPT
E.00.00.08.000/D	11 Jun 2001	CCG FLP EExde Cable Gland NPT
E.00.00.09.000/A	11 Jun 2001	FLP TR Exd Cable Gland
E.00.00.09.000/B	11 Jun 2001	CCG FLP TR EExde Cable Gland Metric
E.00.00.09.000/C	11 Jun 2001	CCG FLP TR EExde Cable Gland NPT
E.00.00.09.000/D	11 Jun 2001	CCG FLP TR EExde Cable Gland NPT
E.00.00.21.000/A	11 Jun 2001	CCG FLP HOSE EExde Cable Gland
E.00.00.21.000/B	11 Jun 2001	CCG FLP HOSE EExde Cable Gland Metric
E.00.00.21.000/C	11 Jun 2001	CCG FLP HOSE TAIL EExde Cable Gland NPT
E.00.00.21.000/D	11 Jun 2001	CCG FLP HOSE TAIL EExde Cable Gland NPT
E.00.00.70.000	May 2003	AMORTEX EEx de
E.00.00.70.000/A	08 Dec 1998	ARMORTEX EExde Cable Gland
E.00.00.70.000/N	08 Jul 1998	ARMORTEX EExde Cable Gland - NPT
E.00.00.70.000/M	08 Dec 1998	ARMORTEX EExde Cable Gland - NPT
E.00.00.90.100	12 Jun 2001	CCG EExde NPT BLANKING PLUG
E.00.00.90.400	12 Jun 2001	CCG EExde PG BLANKING PLUG

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Drawings (continued):

Number	Date	Description
E.00.00.90.200	12 Jun 2001	CCG EExde BLANKING PLUG METRIC
E.40.00.24.200/1	12 Jun 2001	CCG EExde NON METALLIC PLUG
T.00.00.01	04 Apr 2000	CCG Adaptors Reducers Table

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

[17] Special conditions for safe use:

The cable glands are suitable for use on equipment with a temperature range, at the point of mounting, of -30°C to +180°C.

Glands that incorporate a seal with an uncompressed height of less than 20mm shall not be used with EEx d IIC apparatus that has a volume in excess of 2000cc.

If mounted in flame proof enclosures, make sure that at least 5 threads are engaged and that the depth of engagement for enclosures smaller than 100 cm³ are at least 5mm and for enclosures larger than 100 cm³ at least 8mm.

The temperature classification is to be evaluated when installed.

[18] Essential Health and Safety Requirements

Concerning ESR this Schedule verifies compliance with the Ex standards only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

On behalf of UL International Demko A/S

Herlev, 2002-03-07
Correction of 2003-07-04



Karina Christiansen
Certification Manager

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