



CCG[®]

CABLE TERMINATIONS

**FOR THE SUPPLY OF
CABLE GLANDS
JUNCTION BOXES
ADAPTORS AND REDUCERS**

INTRODUCTION TO CCG CABLE TERMINATIONS

CCG commenced manufacturing cable glands 1972 using the latest German Index machining technology at the time. The launch of the original Captive Component Gland™ was a direct response to a call by international mining companies who had problems with cable glands having loose components being incorrectly installed in deep level mines in Southern Africa.

Very quickly the concept of the CCG cable gland was adopted by other metal mining and mineral process industries and the Oil and Gas and Petrochemical Industries that recognised the safety advantages that the Captive Component Gland offers, especially for installation in safety critical installations.

Since then almost all of CCG's patented designs have been a direct response to requests from industry to solve cable termination problems.

Today CCG is a major worldwide supplier to not only the Metal Mining and Mineral Process Industries but also supplies the OGPC, Pharmaceutical, Power Generation, Transport infrastructure and Construction Industries.

CCG designs and manufactures all its products and is ISO 9001 and ISO 14000 listed with UL USA. CCG is also quality audited by ITACS Australia, ATEX Europe, the IEC, ABS USA and the SABS and its products are certified to European, Australian, South African, Chinese and IEC standards where applicable.

CCG operates a modern manufacturing plant utilizing the latest in CNC technology and is now the largest manufacturer of cable glands in the Southern Hemisphere and one of the largest in the world. CCG has a global network of offices and warehouses in Australia, Singapore, South Africa, Hong Kong, Shanghai, the United Kingdom and Dubai employing over 200 people. In addition, CCG has agents and distributors in all other major countries.

For over 38-years CCG has been in the forefront of supplying the worldwide metal mining, mineral processing and Oil & Gas industries. With this experience and reputation within the industry we strongly believe that CCG is best positioned to not only give you a quality product at a competitive price, but also a solution that will make the installation of cable glands faster, safer and more reliable.

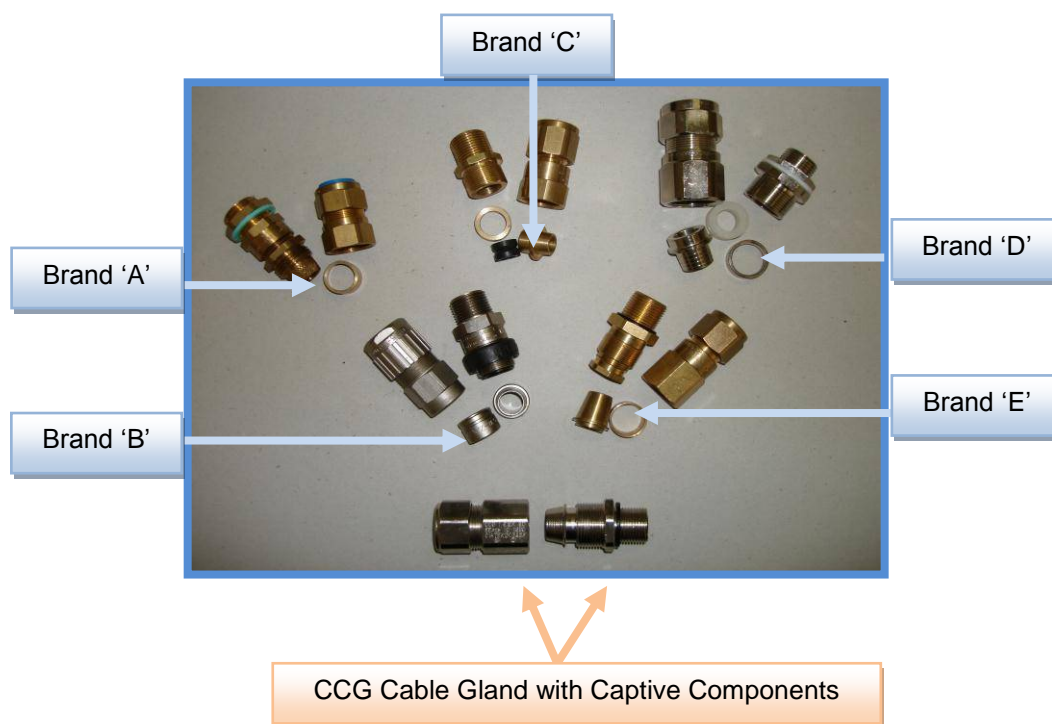


PRODUCT DESIGN

CCG's cable glands are designed so that all critical components such as seals, cones and cone rings are held captive within the body of the gland.

This Captive Component Gland™ design allows the installer to install the cable glands without misplacing, losing or incorrectly fitting these safety critical components required to clamp earth and seal cables installed on hazardous areas equipment. This design gives true built in safety and confidence in the installation.

Samples of cable glands with loose components; Brands A – E compared to CCG's Captive Component Glands.



CCG is also in the forefront of designing and manufacturing cable glands for highly corrosive and harsh conditions.

CCG's range of Posi Junction Boxes, Posi Cable Glands and the much-acclaimed Corrosion Guard have become widely accepted in the oil, gas and petrochemical industry.



GENERAL BENEFITS:

- CCG glands are manufactured from the highest quality corrosion resistant brass and are nickel plated as standard; this feature will dramatically reduce the exposure of the glands to corrosion. For highly corrosive environments, CCG also manufactures the Corrosion Guard range and glands from Stainless Steel.



CCG E1EX CABLE GLAND



CCG CORROSION GUARD

- CCG glands are all fitted with entry thread gaskets as standard. This eliminates the need to order gaskets as a separate item guaranteeing that all glands fitted will have an IP rating of IP 66/68.

- Notably CCG thread Gaskets are made from tough HDPE which out-performs the red fibre washer material offered by other manufacturers.
- CCG cable glands follow the BS 6121 design standard and are thus able to be installed without the aid of special tools.



CCG A2F CABLE GLAND

- CCG seals are tested to IECEx standards and are resistant to hydrocarbons, UV ozone dusts and moisture.



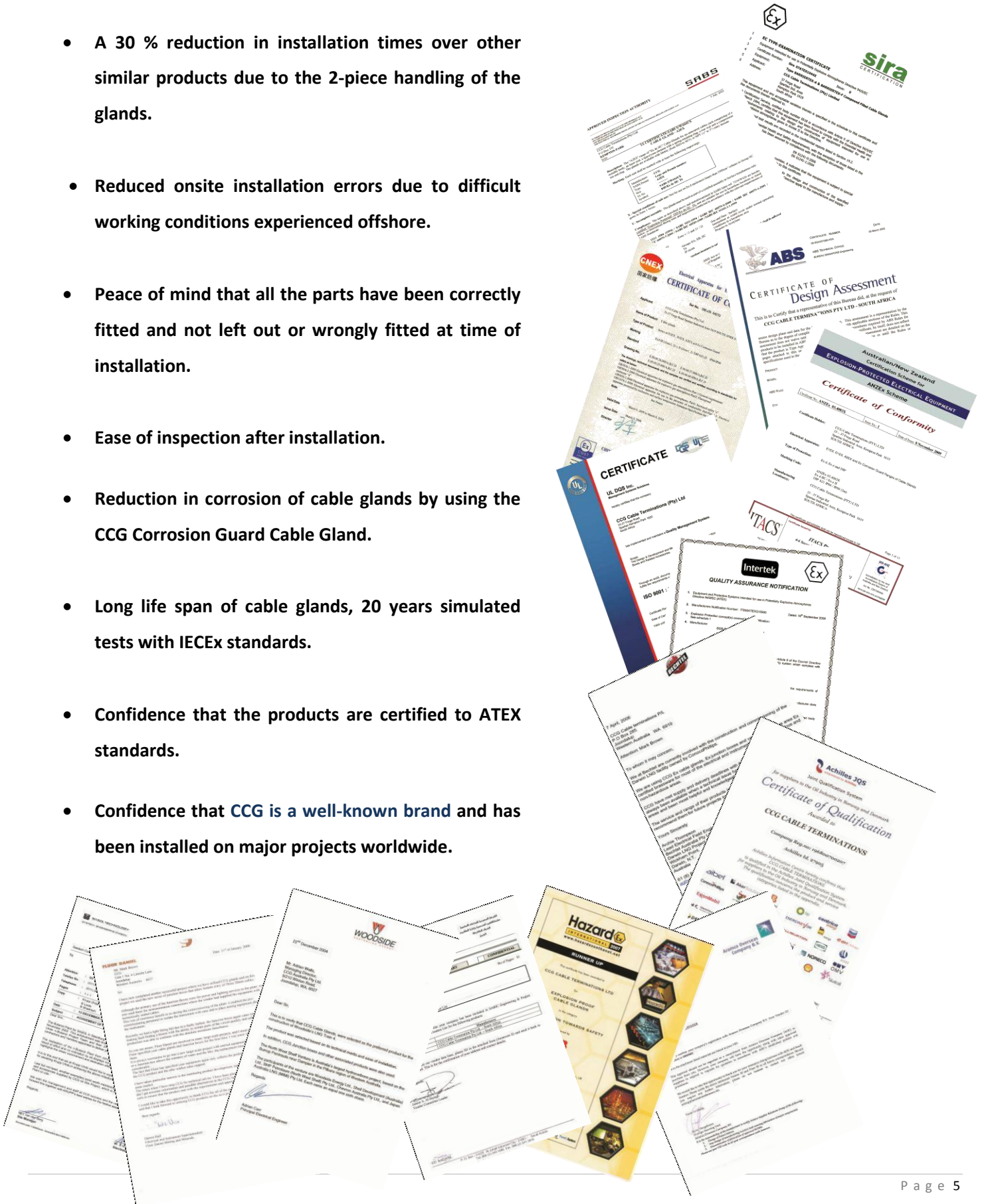
CCG POSI FIT BOX

- CCG's range starts at 16mm entry thread and goes up to 130mm. Covered by just 16 sizes without having to retrofit or change seal sizes. Thus offering reduced ORDERING and stocking on site as well as eliminating the wrong fitment of incorrectly sized seals.

FEATURES AND BENIFITS:

By choosing CCG we will help achieve the the following:

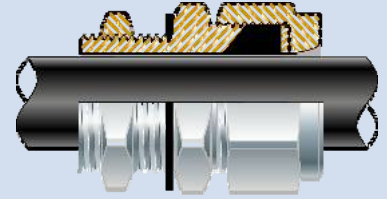
- A 30 % reduction in installation times over other similar products due to the 2-piece handling of the glands.
- Reduced onsite installation errors due to difficult working conditions experienced offshore.
- Peace of mind that all the parts have been correctly fitted and not left out or wrongly fitted at time of installation.
- Ease of inspection after installation.
- Reduction in corrosion of cable glands by using the CCG Corrosion Guard Cable Gland.
- Long life span of cable glands, 20 years simulated tests with IECEx standards.
- Confidence that the products are certified to ATEX standards.
- Confidence that CCG is a well-known brand and has been installed on major projects worldwide.



PRODUCT RANGE OFFERED

CCG A2 COMPRESSION CABLE GLAND

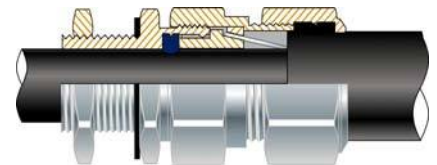
- For indoor and outdoor use.
- Seals the cable sheath to IP68.
- Specially formulated elastomeric seals.
- Wide sealing range.
- Precision manufactured from high quality brass (nickel-plated), available in aluminium or stainless steel on request.
- Complete with high quality brass locknuts and IP gasket.



BS 6121 Part 1 – EN 50262

CCG EIW CAPTIVE COMPONENT GLAND

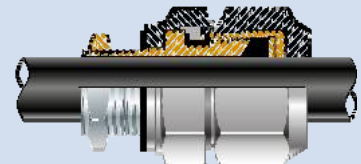
- For indoor and outdoor use.
- Two piece handling, no loose parts.
- Freely rotating captive cone and cone ring, providing an armour clamp and earth bond without twisting the armour wire with patented disconnect system for armour clamp inspection.
- Factory fitted captive elastomeric inner seal for built in safety.
- Seals on both the inner and outer sheath of the cable to IP66/68
- Precision manufactured from high quality brass (nickel-plated) and available in aluminium and stainless steel on request.
- Complete with brass locknut and sealing gasket.



BS 6121 Part 1 – EN 50262

CCG POSI FLEX COMPRESSION CABLE GLAND

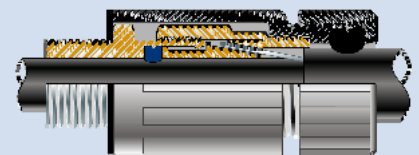
- For use in highly corrosive areas.
- All brass parts encapsulated in a non-corrosive body.
- Wide sealing range.
- Complete with a fitted elastomeric seal to seal cable IP68.
- Supplied with a brass locknut and polypropylene gasket.



BS 6121 Part 3, EN 50262

CCG IPLUS™ CORROSION GUARD CAPTIVE COMPONENT CABLE GLAND

- For highly corrosive and wet locations.
- Cable gland manufactured from high quality brass and nickel-plated.
- The screw-on Corrosion Guard™ is manufactured from non-corrosive material to protect the steel wire armour and metal parts of the gland.
- Provides sealing on inner and outer sheath of the cable, sealing to IP66/68.
- Corrosion guard screws onto the gland body and seals over the outer sheath of the cable giving an IP66/68 seal.
- Complete with high quality brass locknuts and polypropylene gasket.

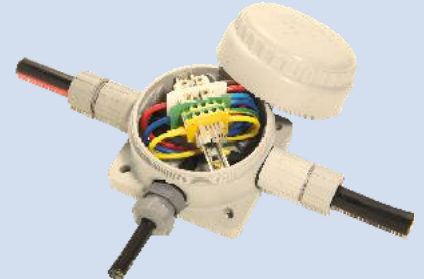


BS 6121 Part 1, EN 50262

PRODUCT RANGE OFFERED

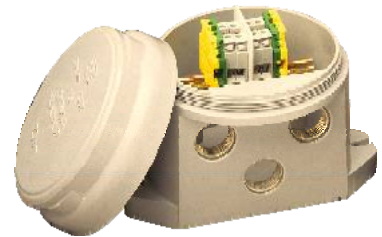
CCG HANDI FIT IP68 JUNCTION BOXES

- Internal earth continuity ring and earth studs provided.
- DIN Rail mounting studs are provided for use with terminal blocks.
- Raised domed lid facilitates connections to be made outside of the box.
- Only approved CCG cable glands and terminals must be used.
- Dust and water tight to IP68 when fitted with CCG sealed cable glands.
- Boxes can be buried for extended periods.
- Boxes with see through polycarbonate “adapt-a-lids” available on request.
- 4-Way H-Boxes with parallel entries available on request.
- Red Fire Rated Box for emergency circuits available (925°C for 3-hours).



CCG 3-Way Bottom Entry Box IP68

- 3-Way Bottom Entry Connection Box for industrial area lighting applications.
- Screw on lid provides ease of installation. Locked with a special key prevents unauthorized tampering and ease of installation.
- No exposed metal parts.
- Dust and waterproof to IP68 when used with CCG sealed cable glands.
- No drilling or tapping of cable entries required.
- Mounting studs provided for DIN rail if using CCG Terminal Blocks. Internal earthing to all entries and rail provided.



IEC 60529

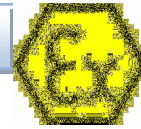
CCG ADAPTORS, REDUCERS and PLUGS

- Precision manufactured from high quality brass (nickel-plated) or stainless steel on request.
- Converts mismatching threads to the required thread.



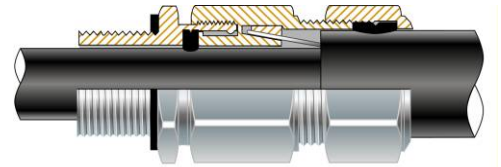
Hazardous Area Range

CCG also has a full range of hazardous areas cable glands and boxes for sections of the project that have been designated explosion hazardous areas to Zone 1, 2 (Gas) and Zone 21, 22 (Dust).



CCG E1EX CABLE GLAND

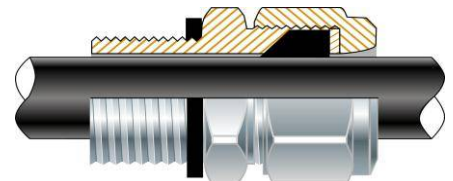
- For use indoors, outdoors and hazardous areas.
- Two part handling, no loose parts. Multi armour captive cone and cone ring, providing an armour clamp and earth bond for steel wire armour, braid and tape armoured cable.
- No need to reverse cones or cone rings or change seals to accommodate different armour cables.
- Precision manufactured from high quality brass (nickel plated) or stainless steel. Patented disconnect system that allows inspection of armour clamp and inner seal after assembly.
- Factory fitted captive elastomeric seals for built in safety. Seals on both inner and outer sheaths to IP66/68.
- Complete with polypropylene sealing gasket and an orange end cap / safety gauge for correct gland selection.



ECS 07 ATEX 2323X
Ex d, Ex e IIC Zone 1, 2, 21,22, IP66/68

CCG A2F CABLE GLAND

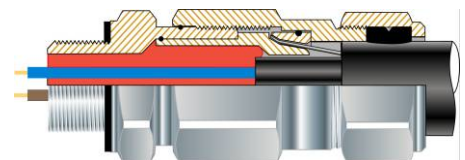
- For Indoor / Outdoor use and hazardous areas.
- Fitted with specially formulated elastomeric displacement seal, giving superior cable retention, explosive protection and IP rating.
- Precision manufactured from high quality brass (nickel plated) or stainless steel.
- Supplied with a polypropylene or neoprene sealing gasket and orange end cap / safety gauge for correct gland selection.



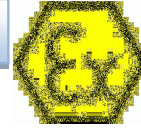
ECS 06 ATEX 2066X
Ex d, Ex e IIC Zone 1, 2, 21,22, IP66/68

CCG BARRIERTEX A CABLE GLAND

- Provides a barrier seal between the individual cores of the cable.
- Inspectable compound and flameproof chamber.
- Prevents explosive gasses propagating through an unfilled cable.
- Prevents gas and moisture migrating through an unfilled cable.
- Precision manufactured from high quality brass (nickel plated) or stainless steel.



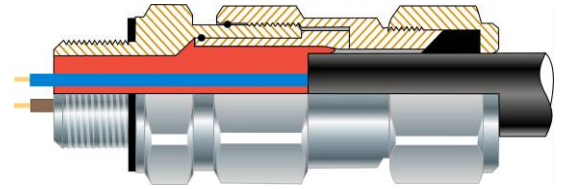
SIRA 07 ATEX 1044X
Ex d, Ex e IIC Zone 1, 2, 21,22, IP66/68



PRODUCT RANGE OFFERED

CCG BARRIERTEX F CABLE GLAND

- Provides a barrier seal between the individual cores of the cable.
- Inspectable compound and flameproof chamber.
- Prevents explosive gasses propagating through an unfilled cable.
- Prevents gas and moisture migrating through an unfilled cable.
- Precision manufactured from high quality brass (nickel-plated) or stainless steel.

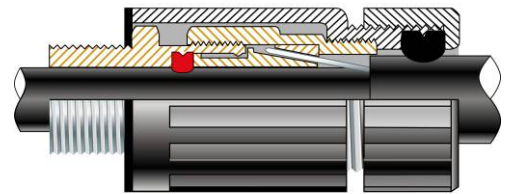


SIRA 07 ATEX 1044X

Ex d, Ex e IIC Zone 1, 2, 21,22, IP66/68

CCG EX Corrosion guard

- For use in highly corrosive and wet areas.
- Cable Gland is precision manufactured from high quality brass (nickel-plated).
- Factory fitted captive elastomeric seals for built-in safety.
- The screw-on Corrosion Guard™ is manufactured from non-corrosive material to protect the armour and metal parts of the gland.
- Corrosion Guard™ screws onto the gland body and seals over the outer sheath of the cable giving an IP68 and deluge proof seal.
- Complete with polypropylene sealing gasket and an end cap / safety gauge for correct gland selection (see reverse).

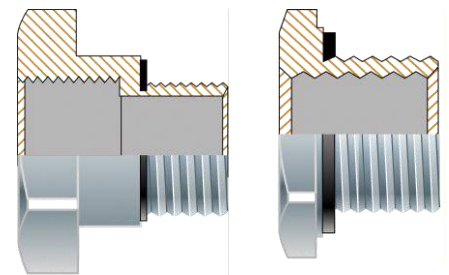


ECS 07 ATEX 2323X

Ex d, Ex e IIC Zone 1, 2, 21,22, IP66/68

CCG ADAPTORS, REDUCERS and PLUGS

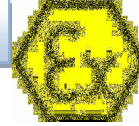
- Precision manufactured from high quality brass (nickel-plated) or stainless steel on request.
- Converts mismatching threads to the required thread.



DEMKO 01 ATEX 130325X

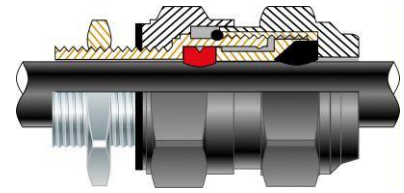
IECEX 10.0007X - PENDING

Ex d, Ex e IIC Zone 1, 2, 21,22, IP66/68



CCG Posi Grip Ex e Compression Gland

- For use in highly corrosive and hazardous areas.
- Brass parts are encapsulated in a non-corrosive body.
- Complete with a hard gripper seal, deluge proof O-Ring and elastomeric inner seal for complete ingress protection IP68.
- Complete with a polypropylene sealing gasket and an end cap / safety gauge for correct gland selection (see reverse).



DEMKO 01 ATEX 130325X

Category 2, Category 3, Ex e II 2 GD, IIC

CCG Posi Fit Ex e, Ex n, DIP, IP68 Junction Boxes

- For use in highly corrosive and wet areas.
- High temperature resistance and anti-static properties.
- DIN Rail mounting studs are provided for use with terminal blocks.
- Raised domed lid facilitates connections to be made outside of the box.
- Only approved CCG cable glands and non-sparking terminals must be used.
- Dust and water tight to IP68 when fitted with CCG sealed cable glands.
- Boxes can be buried for extended periods.
- Boxes with see through polycarbonate “adapt-a-lids” available on request.
- 4-Way H-Boxes with parallel entries available on request.



DEMKO 01 ATEX 130325X

Ex e IIC Zone 1, 2, 21,22, IP66/68

CCG 3-Way Bottom Entry Box Ex e, Ex n, DIP, IP68

- 3-Way Bottom Entry Connection Box for hazardous area lighting applications.
- Screw on lid provides ease of installation locked with a special key prevents unauthorized tampering and ease of installation.
- No exposed metal parts.
- Dust and waterproof to IP68 when used with CCG sealed cable glands.
- No drilling or tapping of cable entries required.
- Mounting studs provided for DIN rail if using CCG Terminal Blocks.



DEMKO 01 ATEX 130325X

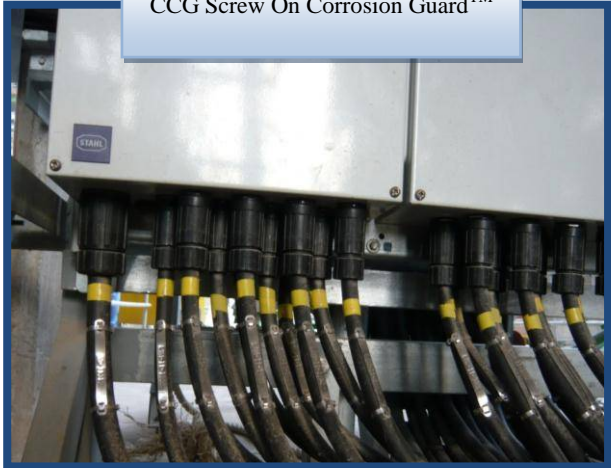
Ex e IIC Zone 1, 2, 21,22, IP66/68

PROBLEMS WITH CORROSION, OFFSHORE INSTALLATIONS

PROBLEM
 Loose Fitted Shrouds



SOLUTION
 CCG Screw On Corrosion Guard™



PROBLEM
 Tight bending radius and corrosion



SOLUTION
 CCG Screw On Corrosion Guard™



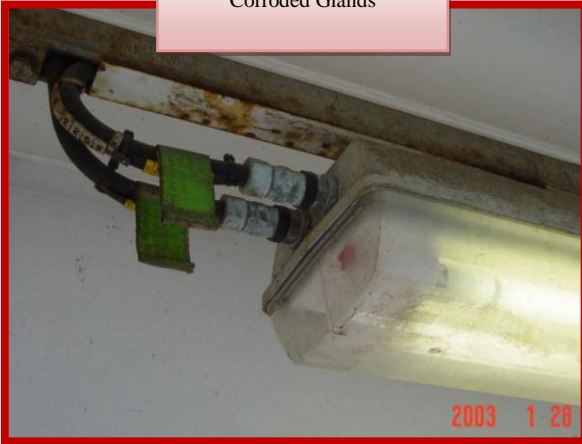
PROBLEM
 Severe Corrosion on Cable Glands



SOLUTION
 CCG Screw on Corrosion Guard™



PROBLEM
 Corroded Glands

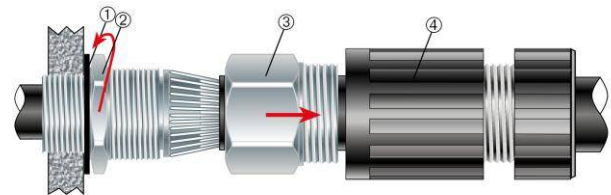


SOLUTION
 CCG Screw On Corrosion Guard™

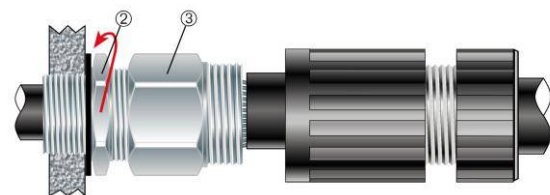


With the patented mechanical Screw on Corrosion Guard™ the cable entry is sealed to IP66/68 - no metal parts are exposed to aggressive corrosive attack.

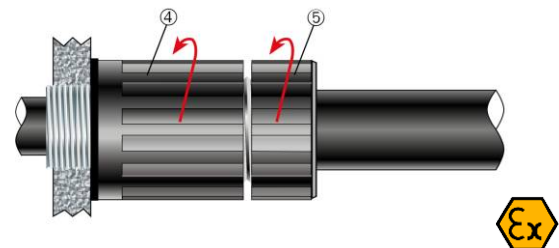
1. Make sure gasket ① is in place. Screw gland unit into apparatus and tighten gland inner ② with a spanner. Strip cable outer sheath and pass corrosion guard body ④ and gland body ③ over cable. Pass cable end through inner ② and splay armour wires over cone.



2. Screw gland body ③ onto gland inner ② and tighten gland body ③ using a spanner.



3. Pass corrosion guard body ④ and corrosion guard outer nut ⑤ over assembled gland, screw corrosion guard body ④ onto gland. Hand tighten corrosion guard body ④ and corrosion guard outer nut ⑤ to produce the required dust and waterproof seal IP66/68.



WORKING WITH ENGINEERS, CONTRACTORS and INSTALLERS

Engineers:

CCG offers to work closely with design engineers in helping them choose the correct product for the correct application.

Cable Sizing

CCG will offer to correctly size all glands according to the cable schedule provided, thus reducing the time spent on site trying to match cables to glands.



Our experience has shown that if the sizing of glands is not established well in advance there will be unnecessary delays and wastages on site.

CCG has vast experience in sizing major projects and has excellent cable data on all the cable manufacturers.

However, cable dimensions do differ from one cable manufacturer to the next, so what is sized in an office using generic cable data can be different to the sizes that come out of a cable manufacturer's plant.

To avoid this problem as much as possible we propose the following working model:

Once the cable manufacturer/supplier has been identified, we setup a meeting with them to open up a communication link between the cable manufacturer and CCG.

- We match the cable gland sizes to the cable OD's and ID's and draw up a table showing size of gland per size of cable.
- We obtain short lengths of cable to be supplied from the manufacturer and fit a gland to each length to check for compatibility.
- If there is any change in the original sizing to the physical cable sizing, we will alert Bechtel and ABB of the changes.
- Keep a record of all cable samples with glands fitted. Backed up with samples and photos to be circulated to the project team by sorting out the correct sizing of glands prior to installation we hope to dramatically reduce the time and material wasted on site.

ONSITE INSTALLERS AND SUPERVISORS

Training



Although CCG's cable glands are very easy to install CCG goes the extra mile by giving on site training and technical support for all installers and contractors so that at the commencement of any project all those involved are fully knowledgeable on the use of our products.

In addition all CCG's technical representatives are fully CompEx trained and are therefore able to advise on installation applications and ATEX standards.

FOLLOWUP AND SUPPORT:

CCG recognises that the daily operations onsite can be difficult and changes in equipment, design and personnel occur frequently. It is with this in mind that we will make regular trips to site to keep in contact with the relevant installation personnel and keep up to date with the latest on site requirements and give follow up training sessions if necessary.

CCG also has direct regular contact with customers offering an unsurpassed high level of technical support with hands on assistance and advice.

DELIVERY:



CCG recognises the difficulties of getting the replacement parts to some remote locations. With this in mind CCG will keep stock of all glands, thread adaptors and junction boxes required to meet our customers demands.

HEALTH, SAFETY AND THE ENVIRONMENT:

CCG recognises the importance of Health and Safety for all personnel as well as the impact a company's operations can have on the environment. CCG's products are non hazardous and recyclable. With this in mind CCG's manufacturing facility is certified to ISO 14001 and is in the process of obtaining ISO 18000 certification through UL U.S.A.

SUMMARY:

CCG has

- Close to 40 years' experience in the worldwide cable gland industry.
- over 35 years in the United Kingdom market
- an excellent track record in supplying major Oil and Gas and Petrochemical projects
- an in-depth knowledge of the ATEX Standards,
- a close working relationship with major contractors,
- an understanding of the logistical difficulties in delivering to the offshore oil and gas industry.
- a Worldwide presence and distribution network.
- large stock holdings in the main localities
- a product that is easy to work with and 30% quicker to install.
- technical back up by knowledgeable experienced staff.

With this experience, knowledge, products and infrastructure, we feel that CCG is well positioned to offer our customers a total solution to their requirements for cable glands, thread adaptors and junction boxes.



Petrochemical, Oil and Gas Experience:

Country	Client	Project	Contractor	Specifier	Year	Value - \$
Angola	Angola LNG	Angola LNG	Origin Energy	Origin Energy	2009	600,000.00
Australia	Apache Energy	Devil Creek Development Project (ADCDP)	Clough	Apache/Clough	2009	150,000.00
Australia	Apache Energy	MARS Compressor Upgrade	-	Apache	-	20,000.00
Australia	Apache Energy	Reindeer Platform	-	Apache	-	60,000.00
Australia	Apache Energy	STAG Platform	-	Apache	-	20,000.00
Australia	Apache Energy	Varanus Island	-	Apache	-	80,000.00
Australia	Conoco Phillips	Darwin LNG	Origin Energy	Origin Energy	2005-2006	400,000.00
Australia	Darwin Biofuels	Darwin Bio Fuel Plant	Simon Carves	BBS	2006	80,000.00
Australia	ENI	Blacktip Gas Plant	Monodelphis	ENI	2008-2009	140,000.00
Australia	Exxon Mobil	Altona Refinery Upgrade	Transfield	Shedden Uhde	2008	150,000.00
Australia	Origin Energy	Kupe Gas Plant	Technip	Technip	2008	200,000.00
Australia	Woodside Petroleum	LNG train -4	KBR	KBR/Woodside	2005	800,000.00
Australia	Woodside Petroleum	LNG trains 1,2,3,5 Refurbishment	Transfield	Woodside	2003-2009	600,000.00
Australia	Woodside Petroleum	Otway Gas Plant	Transfield	Technip	2005	200,000.00
Indonesia	PLN	Kamojang Phase-1 Power Plant	Rekayasa	Rekayasa	2007	40,000.00
Indonesia	PLN	Lahendong Phase-2 & 3 Power Plant	Rekayasa	Rekayasa/Owner	2007	20,000.00
Indonesia	Semen Dumai	Expansion	Gramazita	Bakrie Engrg	2008	10,000.00
Indonesia	Vico Indonesia	Compressor Relocation	Kaliraya Sari	Owner	2007	25,000.00
Malaysia	-	Sungai Kinta Water Treatment Plant	Salcon	Ankasa GHD	2007	30,000.00
Malaysia	Asean Bintulu Fertiliser (ABF)	MAINTENANCE/UPGRADING	ABF	ABF	2008 / ONGOING	20,000.00
Malaysia	Johor Port Authority	Tanjung Langsat Terminal	Dialog E&C	Dialog E&C	2007-2008	30,000.00
Malaysia	KEMAMAN BITUMEN COMPANY SDN BHD	Bitumen manufacturing plant	Sumatec	-	2007	80,000.00
Malaysia	Murphy Oil & Gas	BORF - Phase 1 Gas Development	ENI	MURPHY	2009-ONGOING	150,000.00
Malaysia	Newfield	East Belumut	Ramunia Fabricators		2007	30,000.00
Malaysia	Petronas	Jimah Power Plant	Toshiba	Toshiba	2007	20,000.00
Malaysia	Petronas	Megamethanol	Lurgi/Yokogawa/MIE		2008	100,000.00

Petrochemical, Oil and Gas Experience:

Country	Client	Project	Contractor	Specifier	Year	Value - \$
Malaysia	Petronas	Miri Crude Oil Terminal	Rekayasa	Rakeyasa	2008	200,000.00
Malaysia	Petronas	Polymer Latex - Pasir Gudang	Foster Wheeler Thai	Foster Wheeler Thai	2009	70,000.00
Malaysia	Petronas	Sepanga Bay Metering System	MSOG		2006	20,000.00
Malaysia	Petronas	Sumandak Selatan New Development	Sime Darby Engineering		2007	30,000.00
Malaysia	PETRONAS Penapisan (Melaka) Sdn Bhd	Cogeneration plant located in an oil refinery	Shinryo		2007	60,000.00
Malaysia	PETRONAS Penapisan (Melaka) Sdn Bhd	MG 3 Lube	J&M power	PETRONAS	2007	50,000.00
Malaysia	Petronas/MLNG	MAINTENANCE/UPGRADING	MLNG	MNLG	2008/ONGOING	30,000.00
Malaysia	Shell Sarawak	Technical Integrity Programme	SHELL SARAWAK	SHELL SARAWAK	ONGOING	100,000.00
Malaysia	Shell Sarawak Sdn Bhd	SCDRA Topsides	MMHE	MMHE	2008	60,000.00
Malaysia	Talisman	BRA water Injection Skid	Ramunia	MMC	2006	20,000.00
Malaysia	Talisman	Bunga Orkid A	SDE	SDE	2007-2008	220,000.00
Malaysia	Taliskas	Bunga Raya BRE	SDE	SDE	2007	50,000.00
Malaysia	Titan Petrochemical	Extension	CTCI	CTCI	2008	20,000.00
Mozambique	SASOL	Temane Gas Plant	Foster Wheeler	SASTECH	2005-2006	200,000.00
New Zealand	Origin Energy	Kupe Gas Plant	Technip	Technip	2008-2009	200,000.00
Oman	Sohar Aluminium/Oman	Sohar Aluminium Smelter, Oman	Bechtel	-	2007-2008	-
Oman	Steam Project/Oman	AL-QARN-ALAM Steam Project, Oman	Dodsai	-	2008-2009	-
Pakistan	BHP	Zamzam Project	BHP	AKE Kvaerner	2003-2006	480,000.00
Qatar	Qatar Petroleum	Pearl Project, Marina, Qatar	Voltas	-	2009	-
Saudi Arabia	SAUDI KAYAN	EO/EG	CTCI	CTCI-TAIWAN	2009	10,000.00
Saudi Arabia	Saudi Shell Refinery	Refinery Debottleneck and upgrade	CMS/Yokogawa	SASREF	2008	100,000.00
Singapore	Aker Floating Production ASA (AKFP) Aker Kvaerner	FPSO AKER Smart 1	Jurong Shipyard	Jurong Shipyard	2008	50,000.00
Singapore	Banyan Utilities Pte Ltd	Co-Gen facility for the Natural Fuels Limited (NFL) Bio Diesel Plant	Capital Turbines Australia (CTA)/CT Engineering & Construction Pte	Capital Turbines Australia (CTA)/CT Engineering & Construction Pte	2007	50,000.00

Petrochemical, Oil and Gas Experience:

Country	Client	Project	Contractor	Specifier	Year	Value - \$
			Ltd (CTEC)	Ltd (CTEC)		
Singapore	EXXON MOBIL Singapore	HCF Expansion Project	Foster Wheeler	FW Thailand	2008	45,000.00
Singapore	EXXON MOBIL Singapore	MOBIL Singapore (Mainland) – Maintenance	Pesko		2007- current	30,000.00
Singapore	EXXON MOBIL Singapore	SPT	Foster Wheeler	ABB	2008 - ongoing	50,000.00
Singapore	Invista	Invista Ammonia Storage Tank	CBI Overseas LLC	CBI Overseas LLC	Sep-08	15,000.00
Singapore	LABROY SHIPYARD	LABROY SHIPBUILDING	Labroy Shipyard	Labroy Shipyard	2006/2009	50,000.00
Singapore	MASTER MARINE	LABROY OFFSHORE & ENGINEERING	Labroy Shipyard	Labroy Shipyard	2008	250,000.00
Singapore	Novartis Singapore Manufacturing Facility	Pharmaceutical Secondary Manufacturing Facility	AMEC	Foster Wheeler	2006	80,000.00
Singapore	Petroleo Brasileiro S.A. (Petrobras)/ MODEC	RJS 409 (FSO) Petrobras FPSO Cidade de Rio de Janeiro MV14	Jurong Shipyard	Jurong Shipyard	2007	200,000.00
Singapore	PetroMena ASA	Petro Rig 1,2, 3	Jurong Shipyard	Jurong Shipyard	2007-2008	100,000.00
Singapore	ProSafe	Tui FPSO	Keppel Shipyard	Keppel Shipyard	2006	40,000.00
Singapore	Public Utilities Board Singapore	Changi Water Reclamation Plant package C4B, C3C, C3D, EP3, EP6 & EP7	Various	PUB/CH2M	2004-2007	400,000.00
Singapore	Public Utilities Board Singapore	Chua Chu kang Portable Water Works	United Engineers	Bennie BV	2006	10,000.00
Singapore	Public Utilities Board Singapore	NEWater Plant - 5th	Sembcorp	PUB/CH2M	2008-current	100,000.00
Singapore	Public Utilities Board Singapore	Tuas Desalination Plant	Plant Engineering	Hyflux	2004	20,000.00
Singapore	Sapura	Sapura 2000	Sembawang Shipyard	Sembawang Shipyard	2007	30,000.00
Singapore	Sea Production	Front Puffin	Keppel Shipyard	Sea Production/Keppel	2007	50,000.00
Singapore	Shell Bukom	BRS/ BOM	Foster Wheeler	ABB	2009	30,000.00
Singapore	Shell Seraya	MEG	Foster Wheeler	ABB	2009	25,000.00
Singapore	Tanker Pacific Offshore Terminals Pte Ltd	FPSO RAROA- Conversion	Jurong Shipyard	Tanker Pacific	2007	50,000.00
Singapore	Transocean	Research Vessel JR	Jurong Shipyard	Transocean	2007	200,000.00
Singapore	NIKKO CHEMICAL	Nonionic Surfactant Plant	Simon Carves		Sep-08	50,000.00
Singapore	SeaDrill	8,9 & 13	Jurong Shipyard	Jurong Shipyard	2007-2008	250,000.00

Petrochemical, Oil and Gas Experience:

Country	Client	Project	Contractor	Specifier	Year	Value - \$
South Africa	SASOL	SASOL Project Turbo	KBR/Foster Wheeler	SASTECH	2006-2009	1,500,000.00
Thailand	AN/MMA	To produce 200,000 tons/year of acrylonitrile, 70,000 tons/year of methylmethacrylate, and 160,000 tons/year of ammonium sulfate.	CTCI	CTCI Taiwan	ONGOING	200,000.00
Thailand	Bangchak Petroleum	Bangchak Refinery Expansion	CTCI	CTCI Taiwan	2007-2008	75,000.00
Thailand	Bayer Thai Co., Ltd	PC DEBOTTLENECKING	Toyo-Thai Co., Ltd.	Toyo-Thai	2006	10,000.00
Thailand	HMC Polymer / PTT	Propane Dehydrogenation (PDH) 310,000 MTA UOP Oleflex technology	CTCI	CTCI Taiwan	2008	280,000.00
Thailand	Pearl Oil	Pearl D & Banyen A		Worley Parsons	2007	30,000.00
Thailand	PTT	Phenol: 270,000 MTA	ABB	CTCI Taiwan	2007-2008	350,000.00
Thailand	PTT Polyethylene Co., Ltd/ PTT LDPE	This plant will produce 300,000 t/y Low Density Polyethylene (LDPE)	Toyo Thai	Toyo Thai	2008	50,000.00
Thailand	Purac Thailand	Lactic Acid, Lactates Lactitol plant	ABB	Shedden Uhde	2007	50,000.00
Thailand	Thai Ethanolamines Co Ltd (TEA)/PTT Chemical	Thailand's first producer of Ethanolamines	Shedden Uhde	Shedden Uhde	2008	50,000.00
Thailand	Thai Oil Private Company Limited	Thai Oil Sriracha Refinery Maintenance	Thai Oil	Thai Oil	2006-current	80,000.00
Thailand	Thai Oleochemicals Company	200,000T methyl ester plant & fatty alcohol plant 100,000T	Shedden Uhde	Shedden Uhde	2007	20,000.00
Thailand	The Aromatics Company Thailand	Plant Maintenance	TAC	TAC	2007	5,000.00
Thailand	Vinythai Public Company Limited	Everest	Toyo-Thai Co.,Ltd	Toyo-Thai	2006	15,000.00
Thailand	Vinythai Public Company Limited	Inthanon 1 Expansion Project	Toyo Thai	Toyo Thai	2008	20,000.00

Petrochemical, Oil and Gas Experience:

Country	Client	Project	Contractor	Specifier	Year	Value - \$
U.A.E.	Gasco	AGD II Gas NGL 3	Bechtel		2008-2009	100,000.00
United Arab Emirates	Gasco	Habshan Gas Complex	Fluor	Fluor	2008	40,000.00
United Arab Emirates	GASCO/Abu Dhabi	TAKREER Ruwais NGL II (OGD III)	Bechtel	-	2008-2009	-
United Arab Emirates	TRANSCO/Fujair	Fujairah Phase II Water Transmission, Fujairah	Dodsal	-	2009-Present	-
United Kingdom	Apache Energy	Helidecks for Alpha, Bravo, Charlie, Delta & Echo Platforms Fourties Field, North Sea	ABMAS Engineering	-	2008-Present	-
United Kingdom	British Gas	Dragon LNG Terminal, Milford Haven	AMEC Construction	AMEC Construction	2009	60,000.00
United Kingdom	Sabco	LDPE Plant, Wilton	Balfour Kilpatrick	Sabco	2007 - Present	150,000.00
United Kingdom	TOTAL Oil	Lindsay Oil Refinery, Immingham	Balfour Kilpatrick	Balfour Kilpatrick	2008-2009	-
United Kingdom	Vivergofuels	Biofuels Boirefinery, Hull	AKER Solutions	AKER Solutions	2009 - Present	80,000.00

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