

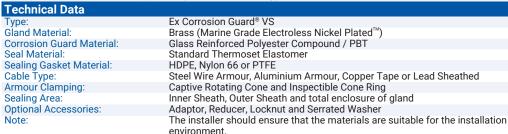
# Ex Corrosion Guard® VS

## Ex db IIC, Ex eb IIC, Ex nR IIC, Ex ta IIIC

## CAPTIVE COMPONENT GLAND® for Steel Wire Armour, Aluminium, Copper Tape or Lead Sheathed Cable

## **Features and Benefits**

- For highly corrosive, wet locations, Group II, III, Zone 1, 2, 20, 21 and 22 hazardous areas. Factory-fitted captive elastomeric seals for Built-in Safety™ .
- A two-part handling, freely rotating captive cone and inspectable cone ring provides an armour clamp and earth bond on steel wire and aluminium armour.
- Corrosion Guard® screws onto the gland body and seals over the outer sheath of the cable, giving an IP68 and deluge-proof seal protecting the armour and metal parts of the gland.
- Provides 360° earthing to copper tape or lead sheath.
- Cable Gland is precision manufactured from high-quality brass (Marine Grade Electroless Nickel Plated™).
- Supplied with a thread-sealing gasket (parallel threads only).



#### Standards and Certifications

IECEx/INMETRO: Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da ATEX/UKEX: ② II 2/3G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex nR IIC Gc **Equipment Protection Levels** TR CU: 1 1 Ex d IIC Gb X / 1 Ex e IIC Gb X / 2 Ex nR IIC Gc X / Ex tb IIIC Db X Standard Seals: -60°C to +95°C /100°C (hDPE/ Nylon Sealing Gasket) Continuous Operating Temp:

Co

	Extreme remp. Seals60 C to +120 C (PTPE Sealing Gasker)				
Conformance:	Standard:	Certificate:			
IEC/BS EN	IEC/BS EN 62444	CML 14CA364			
IECEx	IEC 60079 Part 0, 1, 7, 15, 31	IECEx CML 18.0018X			
ATEX	EN 60079 Part 0, 1, 7, 31	CML 16ATEX1001X			
	EN 60079 Part 0, 15	CML 16ATEX4002X			
UKEX	BS EN 60079 Part 0, 1, 7, 31	CML 21UKEX1011X			
	BS EN 60079 Part 0, 15	CML 21UKEX4006X			
INMETRO (Brazil)	ABNT NBR IEC 60079 Part 0, 1, 7, 15, 31	TÜV 15.0483X			
TR CU (Russia)	ΓΟCT 31610-0, 15, ΓΟCT IEC 60079-1	EA9C RU C-ZA.HA91.B.00245/21			
	ГОСТ Р МЭК 60079-7, 31				
CANC	SANS/IEC 60070 Part 0 1 7 15 31	MASC MS/22-0001Y			

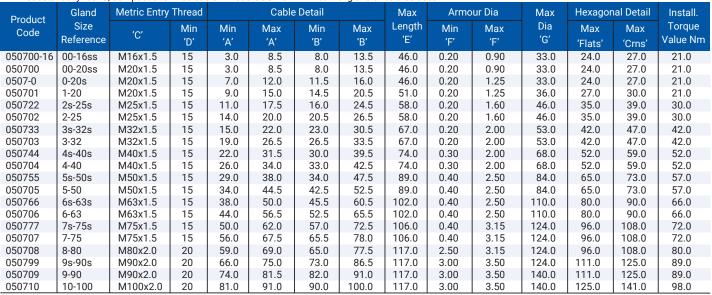
MASC MS/22-9001X CML 15Y728 IP66/68 100m - Parallel IFC 60529 IP68 - Tapered and approved grease IFCFx CMI 18 0018X IFC 60529 CML 14CA370-2 **Deluge Protection** DTS-01 Corrosion Protection ASTM B117-11, BS EN ISO 3231 EXOVA N968667 ABS 20-1952706-1-PDA Marine ABS TAE0000010

IEC 60079 Part 0, 1, 7, 15, 31, IEC 60529 IEC 60079 Part 0, 1, 7, IEC 60529 EN 55011, + A1, EN 55022 **EMC** Compatible SGS EMC305079/1 EX CE CH COLORS FILER ZA VABS DNV FIRE AND I

## Conditions for Safe Use - X

The cable glands shall only be used where the temperature, at the point of entry, is between -60°C to +95°C (standard seal & HDPE sealing gasket), -60°C to +100°C (standard seal and Nylon sealing gasket) or -60°C to +120°C (extreme temp. seal & PTFE sealing gasket) depending on seal and gasket used

Note: According to IEC 60079-14, 10.6.2: An Ex d gland will only maintain Ex d integrity when used with substantially round, compact and filled cable. If not a CCG VORTEx® barrier gland should be used



All dimensions are in mm. A For use with CCG Hex Spanner. Intermediate thread sizes are available on request.

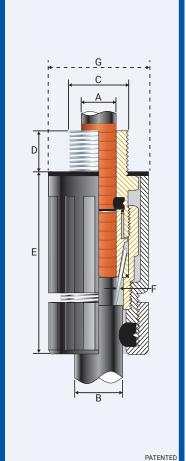












## FITTING INSTRUCTIONS

## **Metric Illustration**



## **EX CORROSION GUARD® VS GLAND**

#### ENCLOSURES AND EQUIPMENT TO WHICH CABLE GLANDS ARE FITTED:-

- Must be made from materials which are compatible with the cable gland materials.

  Here a calling group around the cable gland entry point with a curface roughness.
- Have a sealing area around the cable gland entry point with a surface roughness
   Ra 6.3 µm.
- Have entries that are perpendicular to the enclosure face in the area where the cable gland will seal to within 2.5°.
- Are sealed using the supplied sealing gasket.

#### MUST HAVE THREADED ENTRIES

- The same thread size as the cable gland. (Thread adapters should be used to correct any mismatch).
- · With a thread tolerance of metric class '6H' or equivalent.
- Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all other applications

#### OR CLEARANCE HOLES (not Ex d)

- Where the hole size is the thread nominal size with a tolerance of +0.1 to +0.7mm.
   (e.g. the clearance hole for an M20 thread will have a diameter between 20.1mm and 20.7mm).
- Through material that is between 1mm and 12mm thick. (Thicker materials can be accommodated using glands with extended entry threads).



1. For accurate sizing, use a CCG Dimension Tape (A) on the inner and outer cable sheath.



Gland Size	Armour Length	Gland Size	Armour Length	Gland Size	Armour Length	Gland Size	Armour Length
00-16ss	20.0	2-25	25.0	5s-50s	35.0	7-75	50.0
00-20ss	20.0	3s-32s	30.0	5-50	35.0	8-80	50.0
0-20s	20.0	3-32	30.0	6s-63s	45.0	9s-90s	50.0
1-20	25.0	4s-40s	30.0	6-63	45.0	9-90	50.0
2s-25s	25.0	4-40	30.0	7s-75s	50.0	10-100	60.0

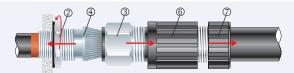
2. Cut back the cable outer sheath to expose the armour to a length as per the table above. Cut the PVC sheath exposing the copper tape or lead sheath to the length of the inner ②.



3. To maintain IP66/68, ensure the gasket 1 is in place. Screw the inner 2 into apparatus. Tighten the inner 2 to installation torque using a CCG Spanner 8.







4. Pass the corrosion guard outer nut ⑦, corrosion guard body ⑥ and the gland body ③ over the cable. Pass the cable end through the inner ② ensure the copper tape does not unravel and splay the armour wires over the cone ④.



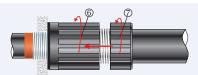
5. Screw the gland body ③ onto the inner ② and tighten the gland body ③ using a CCG Spanner ⑧ to lock the armour between the cone ④ and the cone ring ⑤.



6. Unscrew the body ③. Check that the armour has locked between the cone ④ and the cone ring ⑤. (O-Ring on the cone ring ⑤ is sacrificial). Check the copper tape or lead sheath has passed through and makes 360° contact with the earthing disc.



7. Screw the gland body ③ onto the inner ②. Tighten the gland body ③ to installation torque using a CCG Spanner ⑧.



8. Slide corrosion guard body ® and corrosion guard outer nut ⑦ over assembled gland, screw corrosion guard body ® onto the gland. Hand tighten corrosion guard body ® and corrosion guard outer nut ⑦ to produce the required dust and waterproof seal IP66/68.

You Tube Instruction Video: http://youtu.be/HWTJRdh\_438