



EX CORROSION GUARD® VS

QuickStop-Ex® Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC

BARRIER GLAND for Unfilled SWA, Aluminum, 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. For unfilled hygroscopic multicore cables refer to IEC 60079-14; 9.3.2 and 10.6.2a, IEC 61892-7, 10.6 and 10.7.
- Freely rotating captive cone and inspectible cone ring provides an armour clamp and earth bond on steel wire armour 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.
- Instantly mixed and injected Resin forms a 100% barrier seal around the individual cores of the cable. Prevents explosive gases and/or liquids transmitting down the cable.
- Precision manufactured from high-quality brass (Marine Grade Electroless Nickel Plated™)
- Supplied with a thread sealing gasket (parallel threads only).

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Ex Corrosion Guard® VS QuickStop-Ex® Type: Brass (Marine Grade Electroless Nickel Plated™) Gland Material: Corrosion Guard Material: Glass Reinforced Polyester Compound / PBT

Seal Material: Standard Thermoset Elastomer or Extreme Temperature Seals,

Quick Setting Injection Barrier Resin Seal

HDPE, Nylon 66 or PTFE

Sealing Gasket Material: Cable Type: Armour Clamping: Steel Wire Armour, Aluminium Armour, Copper Tape or Lead Sheathed Rotating Captive Cone and Inspectible Cone Ring

Inner Sheath, Outer Sheath and QuickStop-Ex® Resin around Cable Conductors Sealing Area: **Optional Accessories:**

Adaptor, Reducer, Locknut and Serrated Washer

The installer should ensure that the materials are suitable for the installation

environment.

Standards and Certifications

IECEX/INMETRO: Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da ATEX/UKEX: (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 1Ex d IIC Gb X / 1Ex e IIC Gb X / 2Ex nR IIC Gc X / Ex tb IIIC Db X

Continuous Operating Temp: -50°C to +95°C

Conformance Standard: IEC/BS EN IEC/BS EN 62444 **IECE**x IEC 60079 Part 0, 1, 7, 15, 31 EN 60079 Part 0, 1, 7, 31 **ATEX** EN 60079 Part 0, 15 BS EN IEC 60079 Part 0, 1, 7, 31 BS EN IEC 60079 Part 0, 15 INMETRO (Brazil) ABNT NBR IEC 60079 Part 0, 1, 7, 15, 31

TR CU (Russia) ΓΟCT 31610-0, 15, ΓΟCT IEC 60079-1 ГОСТ Р МЭК 60079-7, 31

SANS/IEC 60079 Part 0, 1, 7, 15, 31 IP66/68 100m - Parallel IEC 60529

IP68 - Tapered and approved grease IEC 60529 **Deluge Protection** DTS-01

Corrosion Protection ASTM B117-11, BS EN ISO 3231 IEC/EN 60079 Part 0, 1, 7, 15, 31 IEC/EN 60079 Part 0, 1, 7, 15, 31 Marine ABS DNV-GL **EMC** Compatible EN 55011, + A1, EN 55022

Certificate:

CML 14CA364 IECEx CML 18.0018X CML 16ATEX1001X CML 16ATEX4002X CML 21UKEX1011X CML 21UKEX4006X TÜV 15.0483X

EA9C RU C-ZA.HA91.B.00245/21

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PATENTED

MASC MS/22-9001X CML 15Y728 IECEx CML 18.0018X CML 14CA370-2 EXOVA N968667 ABS 20-1952706-1-PDA DNV-GL TAE0000010 SGS EMC305079/1

























- The cable glands shall only be used where the temperature, at the point of entry, is between -50°C to +95°C.
- Only resin supplied by CCG may be used in the glands.

Dundunt		Gland	Metric Entry Thread Cable Detail				Detail		Max	Dia.	Max.	Armour Dia		Max	Hexagonal Detail		Install.
Product Code	Size Reference	,C,	Min 'D'	Min 'A'	Max 'A'	Min 'B'	Max 'B'	Length 'E'	Over Cores	No. of Cores	Min 'F'	Max 'F'	Dia 'G'	Max 'Flats'	Max 'Crns'	Torque Value Nm	
	050900-16	00-16ss	M16x1.5	15	3.0	8.5	8.0	13.5	46.0	8.0	6	0.20	0.90	33.0	24.0	27.0	21.0
	050900	00-20ss	M20x1.5	15	3.0	8.5	8.0	13.5	46.0	10.9	10	0.20	0.90	33.0	24.0	27.0	21.0
	0509-0	0-20s	M20x1.5	15	7.0	12.0	11.5	16.0	46.0	10.9	10	0.20	1.25	33.0	24.0	27.0	21.0
	050901	1-20	M20x1.5	15	9.0	15.0	14.5	20.5	51.0	12.5	13	0.20	1.25	36.0	27.0	30.0	21.0
	050922	2s-25s	M25x1.5	15	11.0	17.5	16.0	24.5	58.0	15.5	20	0.20	1.60	46.0	35.0	39.0	30.0
	050902	2-25	M25x1.5	15	14.0	20.0	20.5	26.5	58.0	15.5	20	0.20	1.60	46.0	35.0	39.0	30.0
	050933	3s-32s	M32x1.5	15	15.0	22.0	23.0	30.5	67.0	21.7	40	0.20	2.00	53.0	42.0	47.0	42.0
	050903	3-32	M32x1.5	15	19.0	26.5	26.5	33.5	67.0	21.7	40	0.20	2.00	53.0	42.0	47.0	42.0
	050944	4s-40s	M40x1.5	15	22.0	31.5	30.0	39.5	74.0	30.0	60	0.30	2.00	68.0	52.0	59.0	52.0
	050904	4-40	M40x1.5	15	26.0	34.0	33.0	42.5	74.0	30.0	60	0.30	2.00	68.0	52.0	59.0	52.0
	050955	5s-50s	M50x1.5	15	29.0	38.0	34.0	47.5	89.0	36.3	80	0.40	2.50	84.0	65.0	73.0	57.0
	050905	5-50	M50x1.5	15	34.0	44.5	42.5	52.5	89.0	36.3	80	0.40	2.50	84.0	65.0	73.0	57.0
	050966	6s-63s	M63x1.5	15	38.0	50.0	45.5	60.5	102.0	47.9	100	0.40	2.50	110.0	80.0	90.0	66.0
	050906	6-63	M63x1.5	15	44.0	56.5	52.5	65.5	102.0	47.9	100	0.40	2.50	110.0	80.0	90.0	66.0
	050977	7s-75s	M75x1.5	15	50.0	62.0	57.0	72.5	106.0	58.2	120	0.40	3.15	124.0	96.0	108.0	72.0
	050907	7-75	M75x1.5	15	56.0	67.5	65.5	78.0	106.0	58.2	120	0.40	3.15	124.0	96.0	108.0	72.0
	050908	8-80	M80x2.0	20	59.0	69.0	65.0	77.5	117.0	61.5	140	2.50	3.15	124.0	96.0	108.0	80.0
	050999	9s-90s	M90x2.0	20	66.0	75.0	73.0	86.5	117.0	70.5	160	3.00	3.50	124.0	111.0	125.0	89.0
	050909	9-90	M90x2.0	20	74.0	81.5	82.0	91.0	117.0	70.5	160	3.00	3.50	140.0	111.0	125.0	89.0
	050910	10-100	M100x2.0	20	81.0	91.0	90.0	100.0	117.0	79.0	180	3.00	3.50	140.0	125.0	141.0	98.0

All dimensions are in mm. Intermediate thread sizes are available on request. NPT threads should be tightened 'wrench tight'.

FITTING INSTRUCTIONS

Metric Illustration



EX CORROSION GUARD® VS QuickStop-Ex® BARRIER GLAND

ENCLOSURES AND EQUIPMENT TO WHICH CABLE GLANDS ARE FITTED:-

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

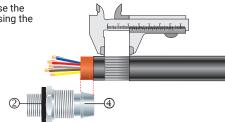
- The same thread size as the cable gland. (Thread adapters should be used to correct any mismatch).
- With a thread tolerance of metric class '6H' or equivalent. Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all other applications

OR CLEARANCE HOLES (not Ex d)

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

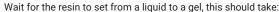
Separate the inner @ from the gland body @. Prepare the cable cutting back the outer sheath to expose the armour to the length as per table below. Strip back the inner bedding to expose the inner cable cores using the cone ④ as a gauge.

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



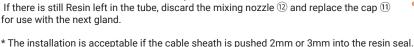
If the cable cores have screens these should be cut away or twisted together into a single core. This single core should be insulated with heat shrink tubing or coated with insulating varnish. Any drain wires should also be insulated with heat shrink tubing or coated with insulating varnish.

- Using a clean cloth, clean the cable cores insulation.
- 3. Using the insulation tape, bundle the cores together at the end.
- To maintain IP66/68, ensure the thread gasket ① is in place. Screw the inner ② into the apparatus and tighten to installation torque using a CCG Spanner. If apparatus is untapped use a locknut. Pass the bundled cable cores through corrosion guard outer nut 🗇, corrosion guard body 6 and the gland body 3. Pass the bundled cables cores through the inner 2 and the inner diaphragm seal and splay the armour wires over the cone ④
- Screw the gland body 3 onto the inner 2 until hand tight, then tighten with a CCG Spanner with ¾ turn to lock the armour between the cone ④ and the cone ring ⑤.
- Unscrew the gland body 3. Check that the armour is locked between the cone 4 and the cone ring (0-Ring on the cone ring (5) is sacrificial). Withdraw the barrier pot sub-assembly ® and the bundled cables. Remove the insulation tape. Check the copper tape has passed through and makes 360° contact with the earthing disc.
- Remove the cap ① from resin applicator and attach the mixing nozzle ② (use extension nozzle for small multicore cables). Whilst holding the barrier pot sub-assembly ® upright and holding the diaphragm seal firmly against the cable sheath inject the resin into the resin chamber*. Ensure the resin fills the inspectible resin seal pot [®] all the way to the top of the protective resin pot [®] and wipe any excess resin away.



- 15 minutes at 10°C
- minutes at 20°C
- 6 minutes at 30°C
- minutes at 40°C

For installations in less than 5°C Ambient, warm the Resin tube in warm water at ± 50°C If there is still Resin left in the tube, discard the mixing nozzle @ and replace the cap 11 for use with the next gland.







Slide the corrosion guard body © and the corrosion guard outer nut ⑦ over assembled gland, screw the corrosion guard body 6 onto gland. Hand tighten the corrosion guard body 6 and the corrosion guard outer nut To produce the required dust and waterproof seal IP66/68.



