

POSI GRIP®

Ex db IIC, Ex eb IIC, Ex tb IIIC, Ex nR IIC

COMPRESSION GLAND for Unarmoured Cable



Features and Benefits

- For highly corrosive Group II, III, Zone 1, 2, 21 and 22 hazardous areas.
- Complete with a gripper seal, deluge proof seal and elastomeric inner seal for complete explosion and ingress protection IP65/66/68.
- Brass parts are encapsulated in a non-corrosive body.
- Marine Grade Electroless Nickel Plated™ entry threads.
- Complete with a thread sealing gasket.

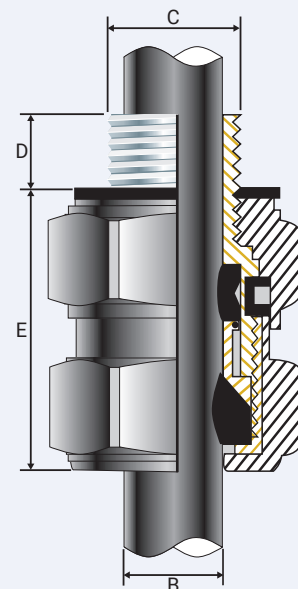


Technical Data

Type:	Posi Grip®
Gland Material:	Brass (Marine Grade Electroless Nickel Plated™) encapsulated in Glass Reinforced Polyester/PBT
Seal Material:	Standard Thermoset Elastomer
Cable Type:	Unarmoured
Sealing Area:	Outer Sheath
Optional Accessories:	Adaptor, Reducer, Locknut and Serrated Washer
Note:	The installer should ensure that the materials are suitable for the installation environment.

Standards and Certifications

Equipment Protection Levels:	IECEX: Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex tb IIIC Db ATEX: II 2GD, II 3G Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc TR CU: 1Ex d IIC Gb X / 1Ex e IIC Gb X / 2Ex nR IIC Gc X / Ex tb IIIC Db X	
Continuous Operating Temp:	-20°C to +95°C	
Conformance:	Standard:	Certificate:
IEC/BS EN	IEC/BS EN 62444	CML 14CA364
IECEX	IEC 60079 Parts 0, 1, 7, 15, 31	IECEX ITA 12.0014X
ATEX	EN 60079 Parts 0, 1, 7, 31 EN 60079 Parts 0, 15	CML 16ATEX1001X CML 16ATEX4002X
INMETRO (Brazil)	ABNT NBR IEC 60079 Parts 0, 1, 7, 15, 31	TÜV 15.0483X
TR CU (Russia)	ГОСТ Р МЭК 60079-0, 7, 15, 31, ГОСТ IEC 60079-1	TC RU C-ZA.ME92.B.00690
SANS	SANS 60079 Parts 0, 1, 7, 15, 31	MASC MS/13-028X
IP66/68 100m - Parallel	IEC 60529	CML 15Y728
Corrosion Protection	ASTM B117-11, BS EN ISO 3231	EXOVA N968667
Marine ABS	IEC 60079 Parts 0, 1, 7, 15, 31 and IEC 60529	ABS 20-SG1952706-PDA
DNV-GL	IEC 60079 Parts 0, 1, 7 and IEC 60529	DNV-GL TAE0000010



Conditions for Safe Use - X

- The cable glands shall only be used where the temperature, at the point of entry, is between -20°C and +95°C.
- The gland may only be used on fixed installations where the cable is clamped or stress applied to the cable is prevented.
- The gland may only be installed / dismantled using the tool provided by CCG (CCG Posi™ Spanner).
- 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 QuickStop-Ex® barrier gland should be used.

Product Code	Gland Size Reference	Metric Entry Thread		Cable Detail		Maximum Length 'E'	Hexagonal Detail		*Installation Torque Value Nm
		'C'	Min 'D'	Min 'B'	Max 'B'		Max 'Flats'	Max 'Crns'	
054500	00-20ss	M20x1.5	15	3.0	8.5	42.0	30.0	33.8	14.0
0545-0	0-20s	M20x1.5	15	7.0	12.0	42.0	30.0	33.8	14.0
054501	1-20	M20x1.5	15	9.0	15.0	46.0	34.0	38.3	14.0
054502	2-25	M25x1.5	15	14.0	20.0	51.0	42.0	47.3	20.0
054503	3-32	M32x1.5	15	19.0	26.5	60.0	52.0	58.5	27.0
054504	4-40	M40x1.5	15	26.0	34.0	65.0	62.0	69.8	34.0
054505	5-50	M50x1.5	15	34.0	44.5	75.0	74.0	83.3	40.0
054506	6-63	M63x1.5	15	44.0	56.5	107.0	95.0	106.9	40.0
054507	7-75	M75x1.5	15	56.0	67.5	107.0	111.0	124.9	40.0
054508	8-80	M80x2.0	20	65.0	74.0	128.0	117.0	131.6	40.0
054509	9-90	M90x2.0	20	74.0	81.5	133.0	130.0	146.3	40.0
054510	10-100	M100x2.0	20	81.0	91.0	170.0	140.0	157.5	50.0
054511	11-110	M110x2.0	20	86.0	98.0	170.0	150.0	168.8	50.0

All dimensions are in mm.

* Only CCG Posi™ Spanner to be used for installation torque.

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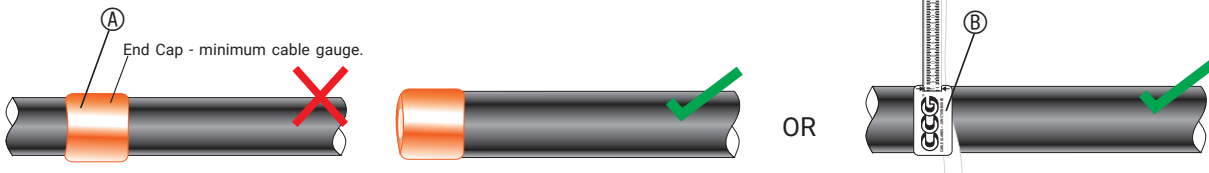
ENCLOSURES AND EQUIPMENT TO WHICH CABLE GLANDS ARE FITTED:-

- 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 <math>< Ra 6.3 \mu m</math>.
- 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.

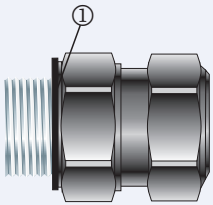
MUST HAVE THREADED ENTRIES

- The same thread size as the cable gland. (Thread adapters should be used to correct any mismatch).

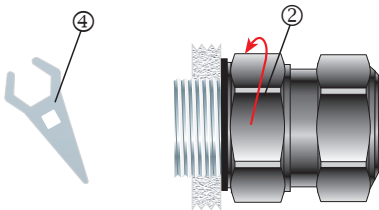
- With a thread tolerance of metric class '6H' or equivalent.
 - Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all other applications
- OR CLEARANCE HOLES** (not Ex d)
- Where the hole size is the thread nominal size with a tolerance of +0.1 to +0.7mm. (e.g. the clearance 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. Check the correct gland size using an end cap (patented) (A). If the cable sheath passes through the hole in the end cap (A), use a gland one size smaller. For accurate sizing, use a CCG Dimension Tape (B) on the cable sheath.



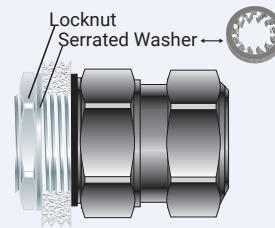
2. To maintain IP66/68 ensure the gasket (1) is in place.



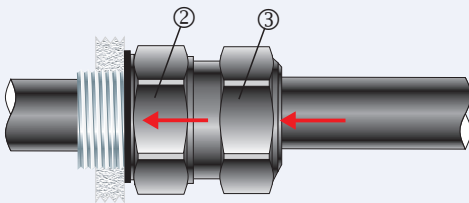
3. Screw the gland unit into the apparatus. Tighten the nipple nut (2) as per torque value using a CCG Posi Spanner (4).

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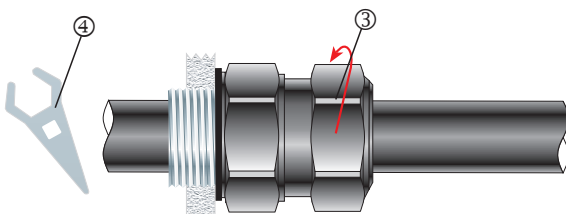
Alternative installation through an unthreaded entry.



If the apparatus is untapped use a locknut.



4. Pass the cable end through the outer nut (3) nipple nut (2).



5. Tighten the outer nut (3) using a CCG Posi Spanner (4) as per torque value using a CCG Posi Spanner (4) to produce a seal and grip on the cable.

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