

A2F

Ex db I/IIC, Ex eb I/IIC, Ex ta IIIC, Ex nR IIC **COMPRESSION GLAND for Unarmoured Cable**

Features and Benefits

- Passes the IECEx / UKEX / ATEX 100% pull test, so no additional cable clamping is required. For indoor, outdoor, Group I, II, III, Zone 1, 2, 20, 21 and 22 hazardous areas.
- Fitted with a specially formulated elastomeric displacement seal, giving superior cable retention, explosion protection and IP rating.
- Precision manufactured from high-quality brass (Marine Grade Electroless Nickel Plated™) available in aluminium or stainless steel 316/316L on request. (Note: Aluminium is not suitable for Group I applications.)

Supplied with a thread sealing gasket (parallel threads only).







Technical Data	
Type:	A2F
Gland Material:	Brass (Marine Grade Electroless Nickel Plated™), Aluminium or Stainless Steel 316/316L
Seal Material:	Standard Thermoset Elastomer or Extreme Temperature Seals
Sealing Gasket Material:	HDPE, Nylon 66 or PTFE
Cable Type:	Unarmoured
Sealing Area:	Outer Sheath
Optional Accessories:	Adaptor, Reducer, Earth Tag, Locknut, Serrated Washer and Shroud
Note:	The installer should ensure that the materials are suitable for the

Standards and Certifications

IECEX/INMETRO: Ex db I Mb / IIC Gb, Ex eb I Mb / IIC Gb, Ex ta IIIC Da, Ex nR IIC Gc Equipment Protection Levels: ATEX/UKEX: & I M2, & II 2/3 G, 1D, Ex db I Mb / IIC Gb, Ex eb I Mb / IIC Gb,

Ex ta IIIC Da, Ex nR IIC Gc

installation environment.

TR CU: La 1Ex d IIC Gb X / 1Ex e IIC Gb X / 2Ex nR IIC Gc X / Ex tb IIIC Db X Standard Seals:-60°C to +95°C /100°C (HDPE/ Nylon Sealing Gasket) Extreme Temp. Seals: -60°C to +160°C (PTFE Sealing Gasket) Continuous Operating Temp:

Conformance: Certificate IEC/BS EN 62444 IEC 60079 Part 0, 1, 7, 15, 31 EN 60079 Part0, 1, 7, 31 CML 14CA364 IECEx MSC 20.0002 IEC/BS EN **IECEx** CML 20ATEX1026 ATEX EN 60079 Part 0, 15 CML 22ATEX4116 UKEX BS EN 60079 Part 0, 1, 7, 31 CML 21UKEX1013 CML 22UKEX4117 BS EN 60079 Part 0, 15 ABNT NBR IEC 60079 Part 0, 1, 7, 15, 31

TÜV 15.0483X INMETRO (Brazil) FOCT 31610-0, 15, FOCT IEC 60079-1 EAЭC RU C-ZA.H FOCT P MЭK 60079-7, 31 GB 3836.1, GB3936.2, GB3836.3 GB12476.1,CNEx 21.3389X TR CU (Russia) EA9C RU C-ZA.HA91.B.00245/21

CNEx (Chinese)

CNEX CCC 2021312313000392 16-AV4BO-0282-5X MASC MS/22-9001X Notification of Ministry of Labour No.2013-54 SANS/IEC 60079 Part 0, 1, 7, 15, 31 KCs (Korea) SANS IP66/68 850m - Parallel IEC 60529 CML 15Y728

IP65/66 – Tapered IP68 – Tapered and approved grease IEC 60529 IEC 60529 **Deluge Protection** DTS-01

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 IEC 60079 Part 0, 1, 7, 15, 31 Corrosion Protection Marine ABS DNV-GL ClassNK **EMC Compatible** EN 55011, + A1, ÉN 55022

IECEx CML 18.0018X CML 14CA370-2 EXOVA N968667 ABS 20-1952706-1-PDA DNV-GL TAE0000010

TA20269M SGS EMC305079/1





None.

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® or QuickStop-Ex® barrier gland should be used.







FITTING INSTRUCTIONS

Metric Illustration

A2F COMPRESSION GLAND

ENCLOSURES AND EQUIPMENT TO WHICH CABLE GLANDS ARE FITTED:-

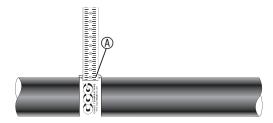
- Must be made from materials which are compatible with the cable gland materials. Have a sealing area around the cable gland entry point with a surface roughness
- < Ra 6.3 μm.
- Have entries that are perpendicular to the enclosure face in the area where the cable gland will seal to within 2.5°.
- Are sealed using the supplied sealing gasket (parallel threads) or by fully tightening into a threaded entry (tapered threads). Note that for tapered threads the IP rating can be improved to IP68 with the use of a suitable thread sealant.

MUST HAVE THREADED ENTRIES

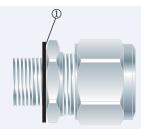
- The same thread size as the cable gland. (Thread adapters should be used to correct
- any mismatch).
- With a thread tolerance of metric class '6H' or equivalent.
- Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all other applications

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
- Through material that is between 1mm and 12mm thick. (Thicker materials can be accommodated using glands with extended entry threads.)

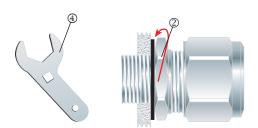


For accurate sizing, use a CCG Dimension Tape (A) on the outer cable sheath.



To maintain IP66/68, ensure the gasket ① is in place.

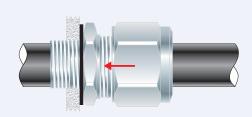
If the gland has NPT entry threads fitted to a threaded entry then IP68 (2m) can be achieved by applying one of the following tested and approved grease types to the thread:-Renolit Lubrene CA700 or LX220 EP2, Renolit LC-WP2 or Moly LX2, or Dow Corning 4 Electrical Compound.



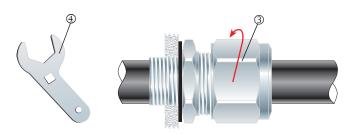
Screw the inner ② into the apparatus. Tighten the inner ② to the installation torque using a CCG Spanner ④



If the apparatus is untapped use a locknut.



Pass the cable end through the gland assembly.



5. Tighten the outer nut ③ to the installation torque using a CCG Spanner ④ to produce a seal and grip on the cable.