

A2F-R

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

COMPRESSION GLAND for Unarmoured Cable / Tray Cable

Features and Benefits

- For indoor, outdoor, Group I,II,III, Zone 1, 2, 21 and 22 hazardous areas
- Fitted with a specially formulated elastomeric displacement seal, giving superior cable retention, explosion protection and IP rating.
- 100% cable retention load. No additional clamping required.
- Precision manufactured from high quality brass (Marine Grade Electroless Nickel Plated™) available in aluminium or stainless steel 316/316L on request. (Note: Aluminium not suitable for Group I applications.)
- Supplied with a thread sealing gasket (parallel threads only).







Technical Data

Type:

Gland Material: Brass (Marine Grade Electroless Nickel Plated™), Aluminium or

Stainless Steel 316/316L

Standard Thermoset Elastomer or Extreme Temperature Seals Seal Material:

Sealing Gasket Material: HDPE, Nylon 66 or PTFE Cable Type: Unarmoured

Outer Sheath Sealing Area: Adaptor, Reducer, Earth Tag, Locknut, Serrated Washer and Shroud Optional Accessories:

The installer should ensure that the materials are suitable for the

installation environment.



Equipment Protection Levels

IECEx: Ex db I/IIC Mb/Gb, Ex eb I/IIC Mb/Gb, Ex nR IIC Gc, Ex tb IIIC Db ATEX/UKEX: ŵ I M2, ŵ II 2/3 G D, II 3G, Ex db I/IIC Mb/Gb, Ex eb I/IIC Mb/Gb, Ex nR IIC Gc, Ex tb IIIC Db

Gc X. Ex th IIIC Db X

Standard Seals: 60°C to +95°C /100°C (HDPE/ Nylon Sealing Gasket) Continuous Operating Temp:

Extreme Temp. Seals: -60°C to +160°C (PTFE Sealing Gasket) Certificate

Standard: Conformance:

IEC/BS EN IEC/BS EN 62444 IEC 60079 Parts 0, 1, 7, 15, 31 **IFCFX** EN 60079 Parts 0, 1, 7, 31 **ATEX** EN 60079 Parts 0, 15 **UKEX**

BS EN 60079 Parts 0, 1, 7, 31 BS EN 60079 Parts 0, 15 ΓΟCT 31610.0, 15 TR CU (Russia)

ΓΟCT P M9K 60079 Part 7, 31

CNEx (Chinese) GB 3836.1, GB3936.2, GB3836.3 GB12476.1, GB12476.5

SANS SANS/IEC 60079 Parts 0, 1, 7, 15, 31

IP66/68 850m - Parallel IEC 60529 IEC 60529 IP68 - Tapered and approved grease IEC 60529

Corrosion Protection ASTM B117-11, BS EN ISO 3231 **EMC Compatible** EN 55011:2009, EN 55022:2010,

CML 14CA364 IECEx MSC 20.0002 CML 20ATEX1026 CML 16ATEX4002X CML 21UKEX1013 CML 21UKEX4006X

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

CNEx 21.3389X

CNEx CCC 2021312313000392

MASC S/20-9022 CML 15Y728

IECEx CML 18.0018X EXOVA N968667 SGS EMC197708/1

































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.



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

FITTING INSTRUCTIONS

Metric Illustration



A2F-R COMPRESSION GLAND Ex db I/IIC, Ex eb I/IIC, Ex tb IIIC, Ex nR IIC

ENCLOSURES AND EQUIPMENT TO WHICH CABLE GLANDS ARE FITTED:-

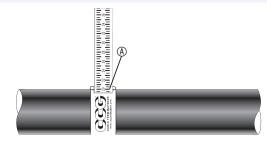
- Must be made from materials which are compatible with the cable gland materials.
 Have a sealing area around the cable gland entry point with a surface roughness < Ra
- · Have entries that are perpendicular to the enclosure face in the area where the cable gland will seal to within 2.5°
- Are sealed 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

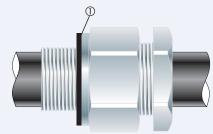
- · The same thread as the cable gland. (Thread adaptors should be used to correct any
- mismatch). With a thread tolerance of metric class '6H' or equivalent.
- Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all other applications

OR CLEARANCE HOLES (not Ex d)

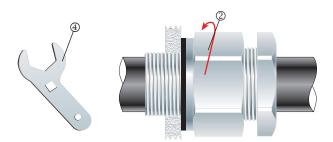
- Where the hole size is the thread nominal size with a tolerance of +0.1 to +0.7mm. (e.g. the clearance hole for an M20 thread will have a diameter between 20.1mm and
- · Through material that is between 1mm and 12mm thick. (Thicker materials can be accommodated using glands with extended entry threads.)



For accurate sizing, use a CCG Dimension Tape (4) on the outer cable sheath.



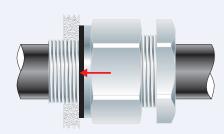
2. To maintain IP66/68 ensure the gasket ① is in place.



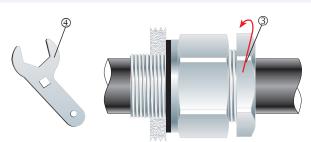
Screw the inner ${\Bbb Q}$ into the apparatus. Tighten the inner ${\Bbb Q}$ to the installation torque using a CCG Spanner 4



If the apparatus is untapped use a locknut.



Pass the cable end through the gland assembly.



Tighten the outer nut ③ to the installation torque using a CCG Spanner ④ to produce a seal and grip on the cable. 100% cable retention load. No additional clamping required.

You Tube Instruction Video: http://youtu.be/3Mo-Utop3AY