

# A2F-FHC

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

### **COMPRESSION GLAND for Unarmoured Cable Housed In Conduit**

#### **Features and Benefits**

- For indoors, outdoors, Group II, III, Zone 1, 2, 20, 21 and 22 hazardous areas.
- For use with all types of unarmoured cable housed in rigid or flexible conduit.
- Fitted with a rotating female conduit coupler.
- Factory fitted with a specially formulated elastomeric seal for Built-in Safety™, acting on the sheath of the cable.
- Precision manufactured from high-quality brass (Marine Grade Electroless Nickel Plated™) available in aluminium or stainless steel 316/316L on request.
- Supplied with a thread sealing gasket (parallel threads only)





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

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Standards and Certifications	5	
Equipment Protection Levels:	IECEX: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex nR IIC Gc ATEX/UKEX: (a) II 2/3G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex nR IIC Gc	
Continuous Operating Temp:	Standard Seals:-60°C to +95°C /100°C (HDPE/ Nylon Sealing Gasket) Extreme Temp. Seals: -60°C to +160°C (PTFE Sealing Gasket)	
Conformance:	Standard:	Certificate:
IEC/BS EN	IEC/BS EN 62444	CML 14CA364
IECEx	EN 60079 Part 0, 1, 7, 31	IECEx CML 20.0011
ATEX	EN 60079 Part 0, 1, 7, 31 EN 60079 Part 0, 15	CML 20ATEX1026 CML 22ATEX4116
UKEX	BS EN 60079 Part 0, 1, 7, 31 BS EN 60079 Part 0, 15	CML 22UKEX4117 CML 21UKEX4006X
TR CU (Russia)	ΓΟCT 31610-0, 15, ΓΟCT IEC 60079-1 ΓΟCT P M9K 60079-7, 31	EA9C RU C-ZA.HA91.B.00245/21
SANS	SANS/IEC 60079 Part 0, 1, 7, 15, 31	MASC MS/22-9001X
IP66/68 100m - Parallel IP65/66 - Tapered IP68 - Tapered and approved gre	IEC 60529 IEC 60529 ase IEC 60529	IECEx CML 20.0011



## None.

Deluge Protection

Corrosion Protection

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.

ASTM B117-11, BS EN ISO 3231



CML 14CA370-2

EXOVA N968667

All dimensions except NPT are in mm. Male Entry Thread 'C' and Female Entry Thread 'B' can only be any combination of either NPT or Metric threads. Intermediate thread sizes are available on request. NPT threads should be tightened 'wrench tight'.



PATENTED

## FITTING INSTRUCTIONS

### **Metric Illustration**



## **A2F-FHC COMPRESSION GLAND**

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

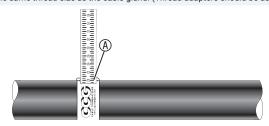
- Must be made from materials which are compatible with the cable gland materials. Have a sealing area around the cable gland entry point with a surface roughness < Ra 6.3 μm.
- Have entries that are perpendicular to the enclosure face in the area where the cable gland will seal to within 2.5°.
- Are 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

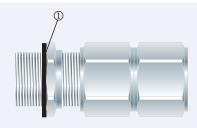
- The same thread size as the cable gland. (Thread adapters should be used to correct
- any mismatch).
- With a thread tolerance of metric class '6H' or equivalent.
- Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all other applications

#### 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.)

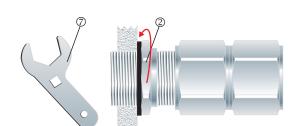


For accurate sizing, use a CCG Dimension Tape (A) on the outer cable sheath.



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

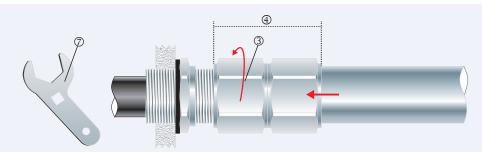
If the gland has NPT entry threads fitted to a threaded entry then IP68 (2m) can be achieved by applying one of the following tested and approved grease types to the thread:-Renolit Lubrene CA700 or LX220 EP2, Renolit LC-WP2 or Moly LX2, or Dow Corning 4 Electrical Compound.



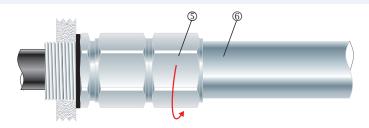
Screw the gland unit into the apparatus. Tighten the inner until hand tight ② using a CCG Spanner 7 with 1/4 turn.



If the apparatus is untapped use a locknut.



Pass the cable end through the conduit assembly ④ and the gland assembly. Tighten the outer ③ to the installation torque using a CCG Spanner ⑦ to produce a seal and grip on the cable.



5. Fit the threaded conduit end 6 into the female rotating threads 5 as indicated.