

A2F-H

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

COMPRESSION GLAND for Unarmoured Cable

Features and Benefits

- For Group I, II, III, Zone 1, 2, 21 and 22 hazardous areas.
- Fitted with specially formulated elastomeric displacement seal, for superior cable retention, explosion protection
- A hose tail provides for clamping a protective hose over the cable.
- Precision manufactured from high-quality brass (Marine Grade Electroless Nickel Plated™) available in stainless steel 316/316L on request.
- Supplied with a thread sealing gasket (parallel threads only).





PATENTED

oupplied with a tilledd ocalling gat	oner (paramer arreado orny).
Technical Data	
Type:	A2F-H
Gland Material:	Brass (Marine Grade Electroless Nickel Plated™), 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 installation environment.
Standards and Certifications	
Equipment Protection Levels:	IECEX/INMETRO: Ex db eb I Mb, Ex db eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da ATEX/UKEX: (a) I M2, II 2 GD, II 3G, Ex db eb I Mb, Ex db eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da TR CU: □ 1Ex d IIC Gb X / PB Ex d I Mb X / 1Ex e IIC Gb X / PΠ Ex e I Mc X / 2Ex nR IIC Gc X / Ex tb IIIC Db X CCC: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
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: IEC/BS EN 62444, 6121 IEC/BS EN

IEC 60079 Part 0, 1, 7, 15, 31 EN 60079 Part 0, 1, 7, 31 **IFCFx ATEX** EN 60079 Part 0, 15 BS EN 60079 Part 0, 1, 7, 31 UKEX BS EN 60079 Part 0, 15 ABNT NBR IEC 60079 Part 0, 1, 7, 15, 31 INMETRO (Brazil)

TR CU (Russia) ГОСТ Р МЗК 60079-0, 7, 1 5, 31 and ΓΟCT IEC 60079-1 CCC/CNEx (Chinese) GB/T3836.1, 2, 3, 31-2021

SANS/IEC 60079 Part 0, 1, 7, 15, 31 IP66/68 850m - Parallel IEC 60529 IEC 60529

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

ASTM B117-11, BS EN ISO 3231 IEC 60079 Part 0, 1, 7, 15, 31, IEC 60529 Marine ABS IEC 60079 Part 0, 1, 7, IEC 60529 DNV-GL EX CE LA COLOR EX RES TONGE

DNV-GL TAE000001





ABS 20-1952706-1-PDA

IECEx MSC 20.0002

CML 16ATEX4002X

CMI 20ATEX1026

CML 21UKEX1013

CML 22UKEX4117

RU C-ZA.ME92.B.00690

TÜV 15.0483X

CNEx 21.3389X, CCC 2021312313000392

CML 14CA370-2 EXOVA N968667

CML 15Y728

MASC S/20-9022X

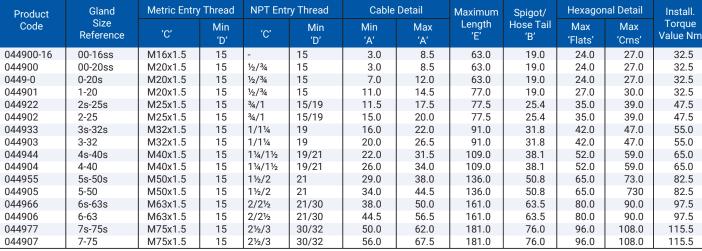






The cable glands shall only be used where the temperature, at the point of entry, is between -60°C to +95°C (standard seal & HDPE sealing gasket), -60°C to +100°C (standard seal and Nylon sealing gasket) or -60°C to +160°C (extreme temp. seal & PTFE sealing gasket) depending on seal and gasket used.

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® 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-H GLAND

ENCLOSURES AND EQUIPMENT TO WHICH CABLE GLANDS ARE FITTED:-

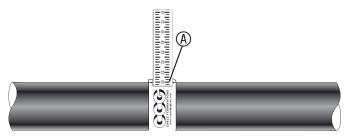
- Must be made from materials which are compatible with the cable gland materials. Have a sealing area around the cable gland entry point with a surface roughness
- < Ra 6.3 μm.
- Have entries that are perpendicular to the enclosure face in the area where the cable gland will seal to within 2.5°.
- Are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

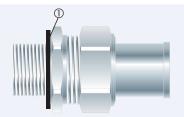
- The same thread size as the cable gland. (Thread adapters should be used to correct
- any mismatch)
- With a thread tolerance of metric class '6H' or equivalent.
- Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all other applications

OR CLEARANCE HOLES (not Ex d)

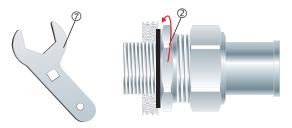
- Where the hole size is the thread nominal size with a tolerance of +0.1 to +0.7mm. (e.g. the clearance hole for an M20 thread will have a diameter between 20.1mm and
- Through material that is between 1mm and 12mm thick. (Thicker materials can be accommodated using glands with extended entry threads.)



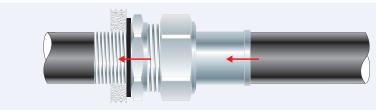
1. For accurate sizing, use a CCG Dimension Tape (4) on the outer cable sheath.



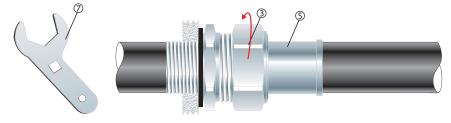
2. To maintain IP66/68 ensure the gasket ① is in place.

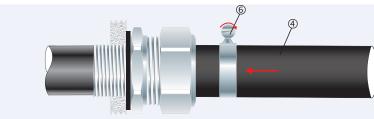


3. Screw the gland unit into the apparatus and tighten the inner ② to the installation torque using a CCG Spanner ⑧.



4. Pass the cable end through the gland assembly.





6. Slide the protective hose ④ over the hose tail ⑤ and tighten the hose clamp ⑤