

A2EX-VS

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

COMPRESSION GLAND for Single or Multi-Core Unarmored Cable with Copper Tape, Braided, or Lead Sheath

Features and Benefits

- Indoor, outdoor, Group II, III, Zone 1, 2, 20, 21 and 22 hazardous areas.
- The inner seal seals on the cable sheath
- A harder outer seal grips the cable, giving it superior cable retention and an IP rating
- Provides 360° earthing to copper tape or lead sheath.
- 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).







earth tag car be fitted between the cable

Tec	hni	cal	Data	
_				

A2EX-VS Gland Material:

Brass (Marine Grade Electroless Nickel Plated™), Stainless Steel 316/316L Seal Material: Standard Thermoset Elastomer or Extreme Temperature Seals, Sealing Gasket Material: Cable Type: HDPE, Nylon 66 or PTFE

Single or Multi-core with Copper Tape, Braided or Lead Sheathed Sealing Area: Taper Seal on the Outer Sheath. Compression seal on inner copper 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



10-100

11-115

12-120

043610

043611

043612

IECEX/INMETRO: Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da Equipment Protection Levels:

ATEX/UKEX: (ax) II 2/3G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da TR CU: 1 1 1 Ex d IIC Gb X / 1 Ex e IIC Gb X / 2 Ex nR IIC Gc X / Ex ta IIIC Da X

CCC: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da

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)

Conformance: Standard: IEC/BS EN IEC/BS EN 62444, 6121 IEC 60079 Part 0, 1, 7, 15, 31 **IECEx** EN 60079 Part 0, 1, 7, 31 **ATEX** EN 60079 Part 0, 15 **UKEX** BS EN 60079 Part 0, 1, 7, 31 BS EN 60079 Part 0, 15 INMETRO (Brazil) ABNT NBR IEC 60079 Part 0, 1, 7, 15, 31

TR CU (Russia) ΓΟCT 31610-0, 15, ΓΟCT IEC 60079-1 ГОСТ Р МЭК 60079-7, 31

CCC/CNEx (Chinese) GB/T3836.1, 2, 3, 31-2021 SANS SANS/IEC 60079 Part 0, 1, 7, 15, 31

IP66/68 100m - Parallel IEC 60529 IP65 - Tapered IEC 60529 IP68 - Tapered and approved grease IEC 60529

Deluge Protection 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, 15, 31, IEC 60529 **EMC** Compatible

EN 55011, + A1, EN 55022

20

3½/4

M100x2.0

M115x2.0

M120x2.0

Certificate: CMI 14CA364 IECEx CML 20.0011 CML 20ATEX1026 CML 22ATEX4116 CML 21UKEX1013 CML 22UKEX4117 TÜV 24 0267

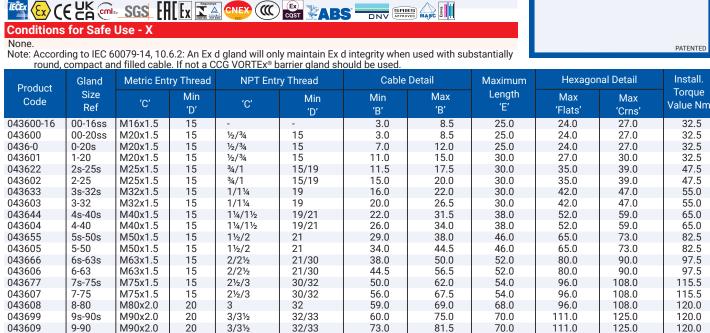
EA9C RU C-ZA.HA91.B.00245/21

CNEx 21.3386X CCC 2021312313000395

MASC S/20-9022 CML 15Y728

IECEx CML 20.0011 CML 14CA370-2 EXOVA N968667 ABS 20-1952706-1-PDA TAE0000010

SGS EMC305079/1



81.0

91.0

101.0

91.0

101.0

109.0

70.0

70.0

70.0

125.0

135.0

140.0

141.0

152.0

158.0

13-130 M130x2.0 043613 146.0 116.0 All dimensions except NPT are in mm. Intermediate thread sizes are available on request. NPT threads should be tightened 'wrench tight'.

33/34

34

120.0

175.0

175.0

175.0

FITTING INSTRUCTIONS

Metric Illustration



A2EX-VS COMPRESSION GLAND

ENCLOSURES AND EQUIPMENT TO WHICH CABLE GLANDS ARE FITTED:-

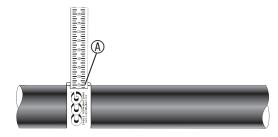
- Must be made from materials which are compatible with the cable gland materials
- Have a sealing area around the cable gland entry point with a surface roughness < Ra $6.3\ \mu m.$
- Have entries that are perpendicular to the enclosure face in the area where the cable
- gland will seal to within 2.5°.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

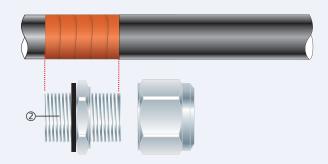
- The same thread size as the cable gland. (Thread adapters should be used to correct
- any mismatch).
- With a thread tolerance of metric class '6H' or equivalent.
 Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all other applications

OR CLEARANCE HOLES (not Ex d)

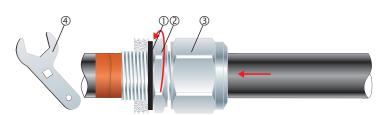
- Where the hole size is the thread nominal size with a tolerance of +0.1 to +0.7mm. (e.g. the clearance hole for an M20 thread will have a diameter between 20.1mm and
- Through material that is between 1mm and 12mm thick. (Thicker materials can be accommodated using glands with extended entry threads.)



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



Cut the PVC sheath exposing the copper tape to the length of the inner ②.



To maintain IP66/68, ensure the thread gasket ${\textcircled{1}}$ is in place. Screw the gland unit into the apparatus. Tighten the inner ② using a CCG Spanner ④. Pass the cable end through the outer nut ${}^{ ext{@}}$ and earth disc and seal.

Alternative installation through an unthreaded entry.

If the apparatus is untapped use a locknut.



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.



Unscrew the outer nut ③. Withdraw the cable. Check that the copper tape has passed through and makes 360° contact with the earthing disc.



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