

UNITEx D

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

CAPTIVE COMPONENT GLAND® WITH VARIABLE DELUGE SEAL™ for Multi Armoured Cable

Features and Benefits

- Indoors and outdoors, Group II, III, Zone 1, 2, 20, 21 and 22 hazardous areas. Two-part handling, no loose part. A freely rotating captive cone and inspectible cone ring provide an armour clamp and earth bond on steel wire, aluminium, braid, and tape armour

- Patented disconnect system that allows inspection of armour clamp and inner seal after assembly. With a patented Variable Deluge Seal™ as a standard. Factory-fitted with a specially formulated elastomeric seal for Built-in Safety™, it seals on the inner and outer sheath of the cable to IP65/66/68.
- 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).



UNITEX[™]-D Brass (Marine Grade Electroless Nickel Plated[™]), Aluminium, Gland Material:

Stainless Steel 316/316L Standard Thermoset Elastomer or Extreme Temperature Seals Seal Material:

HDPE, Nylon 66 or PTFE

Sealing Gasket Material: Cable Type: Armour Clamping: Steel Wire, Aluminium, Braided and Tape Armour Sealing Area:

Optional Accessories:

Rotating Captive Cone and Inspectible Cone Ring Inner Sheath, Outer Sheath and Variable Deluge Seal™ Adaptor, Reducer, Earth Tag, Locknut, Serrated Washer and Shroud The installer should ensure that the materials are suitable for the installation

environment

Standards and Certifications

IECEX/INMETRO: 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 nR IIC Gc, Ex ta IIIC Da 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) Extreme Temp. Seals: -60°C to +160°C (PTFE Sealing Gasket) Equipment Protection Levels:

Continuous Operating Temp:

Extreme Temp. Seals: -60°C to +160°C (I Standard: IEC/BS EN 62444, 6121 IEC 60079 Part 0, 1, 7, 15, 31 EN 60079 Part 0, 1, 7, 31 EN 60079 Part 0, 15 BS EN 60079 Part 0, 1, 7, 31 BS EN 60079 Part 0, 1, 5 ABNT NBR IEC 60079 Part 0, 1, 7, 15, 31 FOCT 31610-0, 15, FOCT IEC 60079-1 FOCT P M9K 60079-7, 31 GB/T3836 1, 2, 3, 31-2021 Certificate: CML 14CA364 Conformance: IFC/BS FN IECEx CML 18.0018X **ATEX** CML 16ATEX1001X CML 16ATEX4002X CML 21UKEX1011X CML 21UKEX4006X **UKEX**

INMETRO (Brazil) TÜV 15.0483X TR CU (Russia) EA9C RU C-ZA.HA91.B.00245/21

CCC/CNEx (Chinese) GB/T3836.1, 2, 3, 31-2021 CNEX 21.3388X

CCC 2021312313000394 SANS/IEC 60079 Parts 0, 1, 7, 31 MASC MS/22-9001X CML 15Y728

IECEx CML 18.0018X CML 14CA370-2 EXOVA N968667 Deluge Protection Corrosion Protection ASTM B117-11. BS EN ISO 3231 Marine ABS ABS 20-1952706-1-PDA

IEC/EN 60079 Part 0, 1, 7, 15, 31 IEC 60079 Part 0, 1, 7, 15, 31 IEC 60079 Part 0, 1, 7, 15, 31 EN 55011, + A1, EN 55022 TAE0000010 TA20270M SGS EMC305079/1 DNV ClassNK **EMC** Compatible

Conditions for Safe Use - X

Gland

Size

00s-16ss

00s-20ss

00-20ss

0s-16s 0s-20s

0-20s

2s-25s

3s-32s

4s-40s

5s-50s

6s-63s

7s-75s

9s-90s

10-100

M90x20

M100x2.0

20

3/31/2

3½/4

3-32

4-40

5-50

6-63

7-75 8-80

9-90

1-20

Product

Code

055400S-16

0554-0S-16

055400S

055400

0554-0S

0554-0

055401

055422

055402

055433

055403

055444

055404

055455

055405

055466

055406

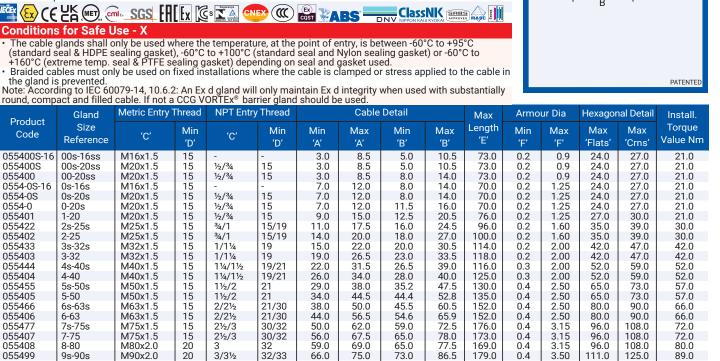
055477

055407 055408

055499

055409

055410



82 0

90.0

91 0

100.0

177 0

196.0

0.4

0.4

3 50

3.50

111 0

125.0

125 0

141.0

89 N

98.0

20 81.0 All dimensions except NPT are in mm. Intermediate thread sizes are available on request. NPT threads should be tightened 'wrench tight'.

74 0

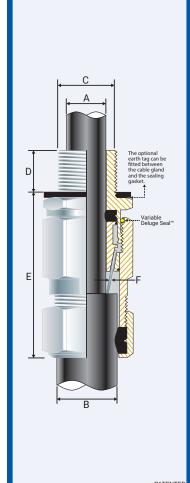
32/33

33/34









FITTING INSTRUCTIONS

Metric Illustration

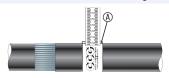
UNITEX*-D GLAND

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
- 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)

Alternative installation through an unthreaded entry.

- 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 20.7mm).
- 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 inner and outer cable sheath.

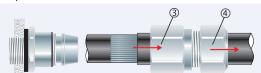


Gland Size	Armour Length	Gland Size	Armour Length	Gland Size	Armour Length	Gland Size	Armour Length
00-16ss	20.0	3s-32s	30.0	6s-63s	45.0	9-90	50.0
00-20ss	20.0	3-32	30.0	6-63	45.0	10-100	60.0
0-20s	20.0	4s-40s	30.0	7s-75s	50.0	11-115	60.0
1-20	25.0	4-40	30.0	7-75	50.0	12-120	60.0
2s-25s	25.0	5s-50s	35.0	8-80	50.0	13-130	60.0
2-25	25.0	5-50	35.0	9s-90s	50.0		

2. Cut back the cable outer sheath to expose the armour to a length as per the table above.



3. To maintain IP66/68, ensure the gasket 1 is in place. Screw the inner 2into the apparatus. Tighten the inner 2 to the installation torque using a



CCG Spanner 7.

If the apparatus is untapped use a locknut.

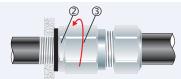


If the gland has NPT entry threads fitted to a threaded entry then IP68 (2m) can be achieved by applying one of the following tested and approved grease types to the thread:- Renolit Lubrene CA700 or LX220 EP2, Renolit LC-WP2 or Moly LX2, or Dow Corning 4 Electrical Compound.

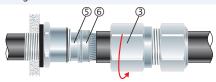
4. Pass the outer nut @ and the body @ over the cable.



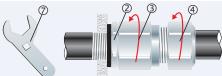
Pass the cable end through the inner ②. Splay the armour wires over the cone ⑤.



Tighten the body ③ onto the inner ② until hand tight, then tighten with a CCG Spanner ⑦ with ¾ turn to lock the armour between the cone ⑤ and the cone ring 6



7. Unscrew the body ③. Check that the armour has locked between the cone ⑤ and cone ring ⑥. (O-Ring on the cone ring ⑥ is sacrificial).



Tighten the body ③ onto the inner ② to the installation torque using a CCG Spanner ⑦. The Variable Deluge Seal™ will engage automatically as the body is tightened onto the inner ②. Tighten the outer nut ④ to produce a moisture proof seal by turning until the seal makes contact with the outer sheath of cable and then make one full turn.