



# BW

## CAPTIVE CONE GLAND®

for Steel Wire Armoured and Aluminium Armoured Cable

### Features and Benefits

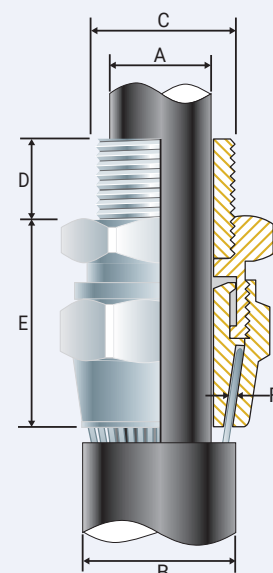
- For indoor use.
- Two-part handling, no loose parts.
- Freely rotating captive cone, providing an armour clamp and earth bond without twisting the armouring.
- Precision manufactured from high-quality brass (nickel plated) available in aluminium on request.
- Complete with heavy duty locknut.

### Technical Data

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Type:                 | BW                                                               |
| Gland Material:       | Brass (Nickel Plated) BS 2874, EN 12164 or Aluminium ASTM B221   |
| Cable Type:           | Steel Wire Armour / Aluminium Armour Wire                        |
| Armour Clamping:      | Rotating Captive Cone                                            |
| Optional Accessories: | Adaptor, Reducer, Earth Tag, Locknut, Serrated Washer and Shroud |

### Standards and Certifications

|                             |                                                              |                                                                            |
|-----------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------|
| Mechanical Properties:      | Impact Category 8<br>Anchorage Type D                        |                                                                            |
| Electrical Properties:      | Category A (no earth tag)<br>Category B (with earth tag)     |                                                                            |
| Continuous Operating Temp:  | -65°C to +120°C                                              |                                                                            |
| Conformance:                | Standard:                                                    | Certificate:                                                               |
| Design Standards            | BS 6121:Part 1<br>IEC/BS EN 62444<br>SANS 62444<br>SANS 1213 | CML 14CA364<br>CML 14CA364<br>MASC 22-9012<br>MASC 18-2047, SANS 2109/4596 |
| Ingress Protection          | IP2X (without a shroud)                                      |                                                                            |
| EMC Compatible              | EN 55011, + A1, EN 55022                                     | SGS EMC305079/1                                                            |
| London Underground Approval | BS EN 62444                                                  | LU 3043                                                                    |



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### Installation Standards

- AS/NZS 3000
- BS 6121-5
- BS 7671
- BS 7430
- IEC 60364-5-54
- SANS 0142

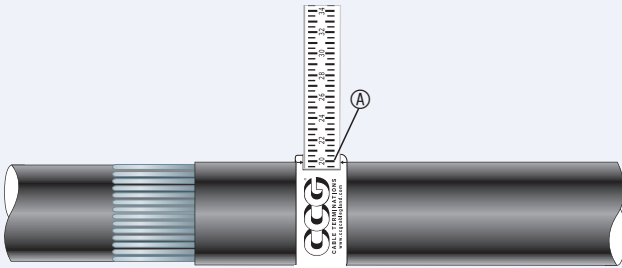
| Product Code | Gland Size Reference | Metric Entry Thread |         | NPT Entry Thread |         | Cable Detail |         |         | Maximum Length 'E' | Armour Dia |         | Hexagonal Detail |            | Installation Torque Value Nm |
|--------------|----------------------|---------------------|---------|------------------|---------|--------------|---------|---------|--------------------|------------|---------|------------------|------------|------------------------------|
|              |                      | 'C'                 | Min 'D' | 'C'              | Min 'D' | Max 'A'      | Min 'B' | Max 'B' |                    | Min 'F'    | Max 'F' | Max 'Flats'      | Max 'Crns' |                              |
| 0503-0       | 0-20s                | M20x1.5             | 10      | 1/2 3/4          | 15      | 12.0         | 11.5    | 16.0    | 23.0               | 0.90       | 1.25    | ▲ 22             | ◆ 25       | 35.0                         |
| 050301       | 1-20                 | M20x1.5             | 10      | 1/2 3/4          | 15      | 15.0         | 14.5    | 20.5    | 26.0               | 0.90       | 1.25    | ▲ 25/27          | ◆ 28/30    | 35.0                         |
| 050302       | 2-25                 | M25x1.5             | 10      | 3/4 1            | 15/19   | 20.0         | 20.5    | 26.5    | 29.0               | 1.25       | 1.60    | ▲ 35             | ◆ 39       | 50.0                         |
| 050303       | 3-32                 | M32x1.5             | 10      | 1 1/4            | 19      | 26.5         | 26.5    | 33.5    | 32.0               | 1.60       | 2.00    | ▲ 42             | ◆ 47       | 70.0                         |
| 050304       | 4-40                 | M40x1.5             | 15      | 1 1/4 1 1/2      | 19/21   | 34.0         | 33.0    | 42.5    | 36.0               | 1.60       | 2.00    | ▲ 52             | ◆ 59       | 90.0                         |
| 050305       | 5-50                 | M50x1.5             | 15      | 1 1/2 2          | 21      | 44.5         | 42.5    | 52.5    | 45.0               | 2.00       | 2.50    | ▲ 65             | ◆ 73       | 100.0                        |
| 050306       | 6-63                 | M63x1.5             | 15      | 2 2/2 1/2        | 21/30   | 56.5         | 52.5    | 65.5    | 50.0               | 2.00       | 2.50    | ▲ 80             | ◆ 90       | 120.0                        |
| 050307       | 7-75                 | M75x1.5             | 15      | 2 1/2 3          | 30/32   | 67.5         | 65.5    | 78.0    | 60.0               | 2.50       | 3.15    | ▲ 96             | ◆ 102      | 120.0                        |
| 050308       | 8-80                 | M80x2.0             | 20      | 3                | 32      | 74.0         | 78.0    | 82.0    | 65.0               | 2.50       | 3.15    | ▲ 96             | ◆ 102      | 120.0                        |
| 050309       | 9-90                 | M90x2.0             | 20      | 3 3/3 1/2        | 32/33   | 81.5         | 82.0    | 91.0    | 69.0               | 3.00       | 3.50    | ▲ 111            | ◆ 125      | 120.0                        |
| 050310       | 10-100               | M100x2.0            | 20      | 3 1/2 4          | 33/34   | 91.0         | 90.0    | 100.0   | 88.0               | 3.00       | 3.50    | +                | -          | 120.0                        |
| 050311       | 11-110               | M110x2.0            | 20      | 4                | 34      | 98.0         | 100.0   | 114.0   | 88.0               | 3.00       | 4.00    | +                | -          | 120.0                        |
| 050312       | 12-120               | M120x2.0            | 20      | -                | -       | 103.0        | 103.0   | 118.0   | 100.0              | 3.00       | 4.00    | +                | -          | 120.0                        |
| 050313       | 13-130               | M130x2.0            | 20      | -                | -       | 115.0        | 113.0   | 124.0   | 100.0              | 3.00       | 4.00    | +                | -          | 120.0                        |

All dimensions are in mm.

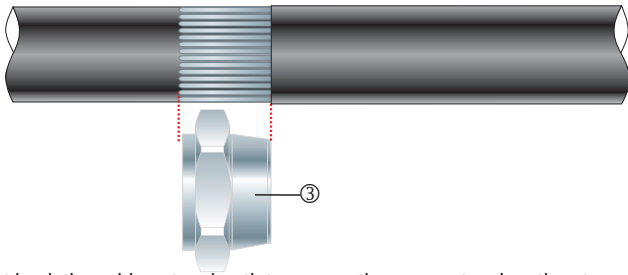
▲ For use with a CCG Hex Spanner. ◆ For use with a CCG C Spanner.

◆ When manufactured in Aluminium, Hex will be 27 Across Flats and 30 Across Corners.

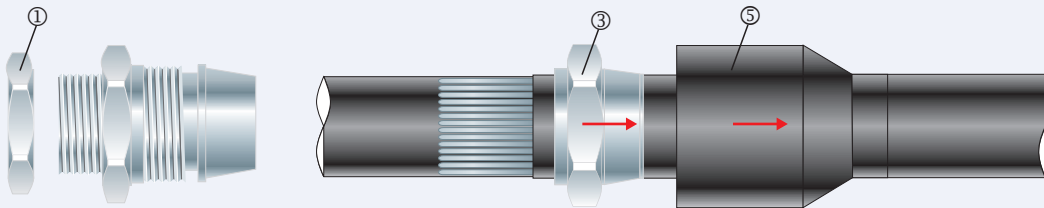
### BW CAPTIVE CONE GLAND<sup>®</sup>



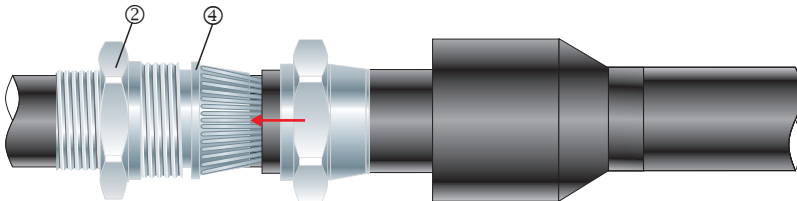
1. For accurate sizing, use a CCG Dimension Tape <sup>Ⓐ</sup> on the inner and outer cable sheath.



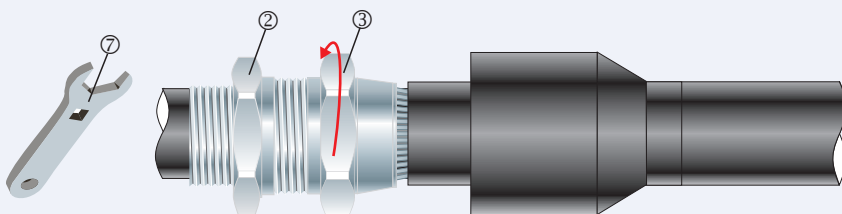
2. Cut back the cable outer sheath to expose the armour to a length not more than the outer <sup>③</sup>.



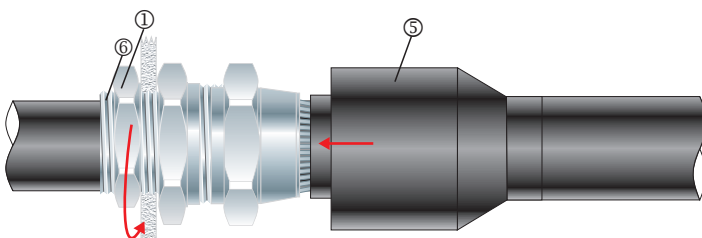
3. Remove the locknut <sup>①</sup>. Slide the shroud <sup>⑤</sup> and the outer <sup>③</sup> over the cable.



4. Pass the cable end through the inner <sup>②</sup> and splay the armour wires over the cone <sup>④</sup>.



5. Tighten the outer <sup>③</sup> onto the inner <sup>②</sup> to the installation torque using a CCG Spanner <sup>⑦</sup>.



6. Insert the gland bush <sup>⑥</sup> into the cable entry of the apparatus and tighten the locknut <sup>①</sup>. Slide the shroud <sup>⑤</sup> over the gland.