

# A2F

Ex d IIC, Ex e IIC, Ex nR IIC, Ex tb IIIC

## COMPRESSION GLAND for Unarmoured Cable



### Features and Benefits

- For indoor / outdoor use and hazardous areas.
- Fitted with a specially formulated elastomeric displacement seal, giving superior cable retention, explosion protection and IP rating.
- Precision manufactured from high quality brass (electroless nickel plated) or stainless steel.
- Supplied with a polypropylene or neoprene sealing gasket and end cap safety gauge for correct gland selection.

### Technical Data

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Type:                 | A2F                                                              |
| Gland Material:       | Brass (Electroless Nickel Plated) or Stainless Steel             |
| Seal Material:        | Thermoset Elastomer                                              |
| Cable Type:           | Unarmoured                                                       |
| Sealing Area:         | Outer Sheath                                                     |
| Optional Accessories: | Adaptor, Earth Tag, Locknut, Reducer, Serrated Washer and Shroud |

### Standards and Certifications

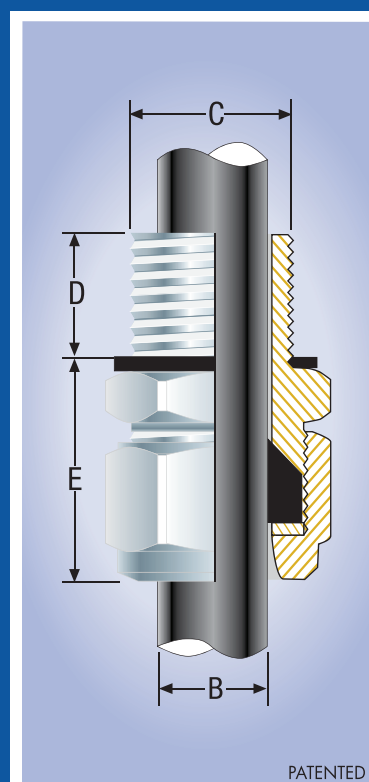
|                              |                                                                                                                |
|------------------------------|----------------------------------------------------------------------------------------------------------------|
| Equipment Protection Levels: | Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex tb IIIC Db<br>II 2G, II 2D, II 3G                                   |
| Certification:               | Standards:                                                                                                     |
| Australian/New Zealand/IEC   | IECEX ITA 12.0014X IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-15, IEC 60079-31                           |
| ATEX                         | TÜV 13 ATEX 7397X EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31<br>TÜV 13 ATEX 7422X EN 60079-0, EN 60079-15 |
| SANS/IEC                     | MASC MS/13-028X SANS/IEC 60079-0, SANS/IEC 60079-1, SANS/IEC 60079-7, SANS/IEC 60079-15, SANS/IEC 60079-31     |
| Marine                       | 14-SG1216922-PDA                                                                                               |
| Operating Temperature:       | -20°C to +95°C                                                                                                 |
| Ingress Protection:          | IP66/68 (2m) IEC 60529                                                                                         |



### Conditions and limitations for Safe Use - X

This gland must be used as part of a certified assembly in surface Group II installations only.

- According to IEC 60079-14, 10.4.2 the following must be adhered to:
  - This gland will only maintain Ex d integrity when used with substantially round, compact and filled cable. If not, a CCG StopEx™ or CCG QuickStopEx™ Barrier Gland should be used.



| Product Code | Gland Size Reference | Metric Entry Thread |         | NPT Entry Thread |         | Cable Detail |         | Maximum Length 'E' | Hexagonal Detail |            | Installation Torque Nm |
|--------------|----------------------|---------------------|---------|------------------|---------|--------------|---------|--------------------|------------------|------------|------------------------|
|              |                      | 'C'                 | Min 'D' | 'C'              | Min 'D' | Min 'B'      | Max 'B' |                    | Max 'Flats'      | Max 'Crns' |                        |
| 054100-16    | 00-16ss              | M16x1.5             | 15      | -                | -       | 3.0          | 8.5     | 25.0               | ▲ 24.0           | 27.0       | 32.5                   |
| 054100       | 00-20ss              | M20x1.5             | 15      | 1/2/3/4          | 15      | 3.0          | 8.5     | 25.0               | ▲ 24.0           | 27.0       | 32.5                   |
| 0541-0       | 0-20s                | M20x1.5             | 15      | 1/2/3/4          | 15      | 7.0          | 12.0    | 25.0               | ▲ 24.0           | 27.0       | 32.5                   |
| 054101       | 1-20                 | M20x1.5             | 15      | 1/2/3/4          | 15      | 11.0         | 15.0    | 30.0               | ▲ 27.0           | 31.0       | 32.5                   |
| 054122       | 2s-25s               | M25x1.5             | 15      | 3/4/1            | 15/19   | 11.5         | 17.5    | 30.0               | ▲ 35.0           | 40.0       | 47.5                   |
| 054102       | 2-25                 | M25x1.5             | 15      | 3/4/1            | 15/19   | 15.0         | 20.0    | 30.0               | ▲ 35.0           | 40.0       | 47.5                   |
| 054133       | 3s-32s               | M32x1.5             | 15      | 1/1 1/4          | 19      | 16.0         | 22.0    | 30.0               | ▲ 42.0           | 48.0       | 55.0                   |
| 054103       | 3-32                 | M32x1.5             | 15      | 1/1 1/4          | 19      | 20.0         | 26.5    | 30.0               | ▲ 42.0           | 48.0       | 55.0                   |
| 054144       | 4s-40s               | M40x1.5             | 15      | 1 1/4/1 1/2      | 19/21   | 22.0         | 31.5    | 38.0               | ▲ 52.0           | 60.0       | 65.0                   |
| 054104       | 4-40                 | M40x1.5             | 15      | 1 1/4/1 1/2      | 19/21   | 26.0         | 34.0    | 38.0               | ▲ 52.0           | 60.0       | 65.0                   |
| 054155       | 5s-50s               | M50x1.5             | 15      | 1 1/2/2          | 21      | 29.0         | 38.0    | 46.0               | ▲ 65.0           | 75.0       | 82.5                   |
| 054105       | 5-50                 | M50x1.5             | 15      | 1 1/2/2          | 21      | 34.0         | 44.5    | 46.0               | ▲ 65.0           | 75.0       | 82.5                   |
| 054166       | 6s-63s               | M63x1.5             | 15      | 2/2 1/2          | 21/30   | 38.0         | 50.0    | 52.0               | ▲ 80.0           | 90.0       | 97.5                   |
| 054106       | 6-63                 | M63x1.5             | 15      | 2/2 1/2          | 21/30   | 44.0         | 56.5    | 52.0               | ▲ 80.0           | 90.0       | 97.5                   |
| 054177       | 7s-75s               | M75x1.5             | 15      | 2 1/2/3          | 30/32   | 50.0         | 62.0    | 54.0               | ▲ 96.0           | 110.0      | 115.5                  |
| 054107       | 7-75                 | M75x1.5             | 15      | 2 1/2/3          | 30/32   | 56.0         | 67.5    | 54.0               | ▲ 96.0           | 110.0      | 115.5                  |
| 054108       | 8-80                 | M80x2.0             | 20      | 3                | 32      | 54.0         | 69.0    | 68.0               | ▲ 96.0           | 110.0      | 120.0                  |
| 054199       | 9s-90s               | M90x2.0             | 20      | 3/3 1/2          | 32/33   | 60.0         | 75.0    | 70.0               | ▲ 111.0          | 125.0      | 120.0                  |
| 054109       | 9-90                 | M90x2.0             | 20      | 3/3 1/2          | 32/33   | 73.0         | 81.5    | 70.0               | ▲ 111.0          | 125.0      | 120.0                  |
| 054110       | 10-100               | M100x2.0            | 20      | 3 1/2/4          | 33/34   | 81.0         | 92.0    | 70.0               | ▲ 125.0          | 142.0      | 120.0                  |
| 054111       | 11-110               | M110x2.0            | 20      | 4                | 34      | 91.0         | 101.0   | 70.0               | ▲ 135.0          | 153.0      | 175.0                  |

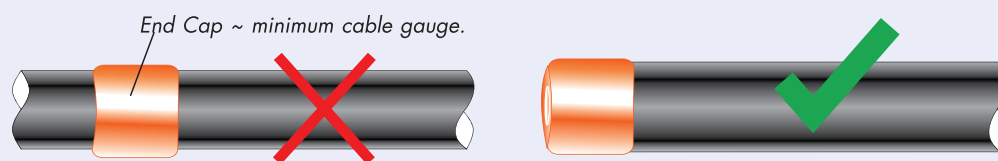
All dimensions except NPT are in mm.

▲ For use with CCG Hex Spanner. ★ For use with CCG C-Spanner.

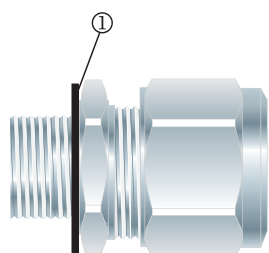
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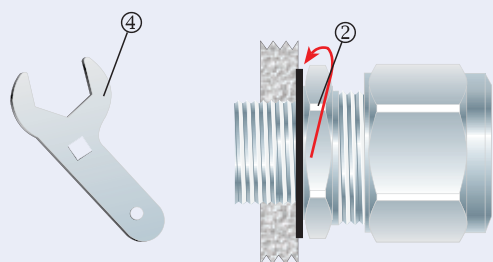
## A2F Compression Gland **Ex d IIC, Ex e IIC, Ex nR IIC, Ex tb IIIC**



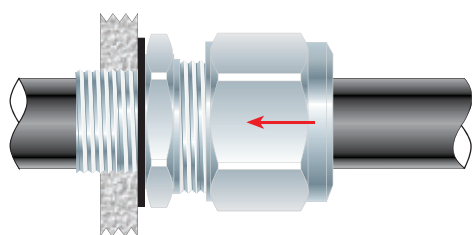
1. Check the correct gland size using the end cap (patented). If cable sheath passes through the hole in the end cap, use a gland one size smaller.



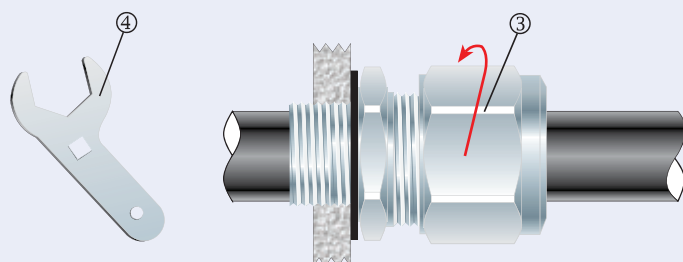
2. To maintain IP66/68 ensure the gasket ① is in place.



3. Screw the inner ② into the apparatus. Tighten the inner ② to the installation torque using a CCG Spanner ④



4. Pass the cable end through the gland assembly.



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

**You Tube** Instruction Video: <http://youtu.be/3Mo-Utop3AY>