



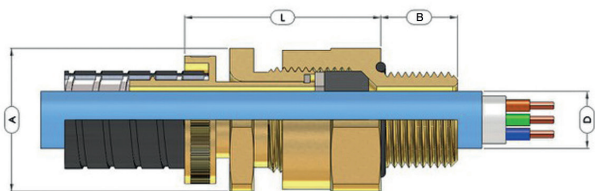
PRODUCT TYPE A*RCC

Single Compression Gland featuring a Freely Rotating Flexible Metallic Conduit Connector

Ex d : Ex e : Ex nR : Ex ta : IP66 : IP68

PART NUMBERS:

| | | | | | |
|---|---|---|----|---|---|
| A | 1 | R | CC | B | F |
| | 2 | | | S | |
| | 3 | | | A | |
| | 4 | | | | |



REFERENCE NUMBER: 2.3.0

EXAMPLE PART NUMBERING: A2RCCBF/NP/20-1/M20

| | |
|-------------|---|
| A | Gland featuring controlled displacement sealing |
| 2 | Neoprene Seal (2) - Silicone Seal (3) - Neoprene/Lead (1) - Silicone/Lead (4) |
| R | Rotating Conduit Design |
| CC | Metallic Flexible Conduit Connector |
| B | Aluminium (A) / Brass (B) / Stainless Steel (S) |
| F | Multiple Certification |
| NP | Nickel Plated |
| 20-1 | Gland & Connector Size |
| M20 | M20 x 1.5mm Male Entry Thread |

OPTIONAL ACCESSORIES:

| | |
|-------------------------|---|
| LOCKNUT | Brass (ACBLN) / Stainless Steel (ACSLN) / Aluminium (ACALN) |
| EARTH TAG | Brass (ACBET) / Stainless Steel (ACSET) / Aluminium (ACAET) |
| IP WASHERS | Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW) |
| SERRATED WASHERS | Stainless Steel (ACSSW) |

| | |
|------------------------|--|
| IP RATING: | IP66 & IP68 (50 metres - 7 Days) |
| OPERATING TEMP: | Neoprene Seals -35°C to +90°C / Silicone Seals -60°C to +180°C |
| MATERIALS: | Aluminium, Brass or Stainless Steel |
| PLATING: | Electroless Nickel |

PRODUCT DESCRIPTION

"A*RCC" type glands are certified Flameproof Ex d, Increased Safety Ex e, Restricted Breathing Ex nR and Dust Protected Ex ta. They are suitable for use in Zone 1 and 2 for Gas Groups IIA, IIB and IIC and additionally for use in Zones 20, 21 and 22 for Dust Groups IIIA, IIIB and IIIC. Commonly referred to as "stuffing glands", they provide a controlled pull resistant environmental displacement seal on the cable outer sheath, minimising damage to cables that exhibit "cold flow" characteristics. The gland maintains IP66 & IP68 to 50 metres. It is supplied with an IP O-ring seal as standard on metric entry threads. The gland features a freely rotating flexible conduit connection.

COMPLIANCE STANDARDS:

EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, EN 60079-31
IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31 & IEC 60529

CERTIFICATION:

| | |
|-------------------------|---|
| ATEX | II 1D 2G Ex d IIC Gb / Ex e IIC Gb / Ex ta IIC Da II 3 G Ex nR IIC Gc |
| IECEx | Ex d IIC Gb / Ex e IIC Gb / Ex ta IIC Da |
| EAC | Exd II CU / Exe II U / ExnR II U |
| INMETRO - Brazil | Ex d IIC Gb / Ex e IIC Gb / Ex ta IIC Da / Ex nR IIC Gc |
| SAC - China | Ex d IIC / Ex e IIC |
| UKRAINE | Ex d IIC X / Ex e II X |
| CCoE - India | Petroleum Rules 2002 (PESO) |
| ABS | Specified ABS Rules |
| LLOYD'S | Enclosure Systems (Part 1B) |
| RMRS | Part XI of RS Rules for the classification & construction of sea-going ships (ed. 2014) |

CERTIFICATION No:

| | |
|-------------------------|-------------------------------------|
| ATEX | SIRA 01ATEX1272X & SIRA 09ATEX1221X |
| IECEx | IECEx SIR 07.0096X |
| EAC | RU C-GB.F506.B.00098 |
| INMETRO - Brazil | NCC 13.2012 X |
| SAC - China | NEPSI GY16.1399X |
| UKRAINE | UA.TR.047.C.0408-13 & 2937 |
| CCoE - India | PESO P365300/2 & P365300/5 |
| ABS | 14-LD463991-1-PDA |
| LLOYD'S | 10/00056(E1) |
| RMRS | 14.02755.315 |

CABLE GLAND SELECTION TABLE (ALL DIMENSIONS IN mm)

| Gland & Connector Size | Entry Thread Size | | Metric Thread Length [B] | Cable Acceptance Details Outer Sheath [D] | | Typical Conduit Diameter | | Nominal Protusion Length [L] | Dimensions/Weight (Metric Versions) | | |
|------------------------|-------------------|------------------|--------------------------|---|------|--------------------------|---------|------------------------------|-------------------------------------|----------------|------------|
| | Metric | NPT | | Min | Max | I/D | Max O/D | | Across Flats [A] | Across Corners | Weight Kgs |
| 12-1 | M12 x 1.5 | 3/8" | 16 | 0.9 | 5.4 | 6.8 | 10.3 | 35 | 19.0 | 20.9 | 0.051 |
| 12-1 | M16 x 1.5 | 3/8" or 1/2" | 16 | 0.9 | 5.4 | 6.8 | 10.3 | 34 | 25.4 | 28.0 | 0.059 |
| 12-2 | M12 x 1.5 | 3/8" | 16 | 0.9 | 6.0 | 9.1 | 14.3 | 35 | 19.0 | 20.9 | 0.083 |
| 12-2 | M16 x 1.5 | 3/8" or 1/2" | 16 | 0.9 | 6.0 | 9.1 | 14.3 | 34 | 25.4 | 28.0 | 0.092 |
| 12-3 | M16 x 1.5 | 3/8" or 1/2" | 16 | 0.9 | 6.0 | 7.7 | 13.0 | 34 | 25.4 | 28.0 | 0.107 |
| 16-1 | M16 x 1.5 | 3/8" or 1/2" | 16 | 4.0 | 8.4 | 10.2 | 14.1 | 39 | 25.4 | 28.0 | 0.130 |
| 16-1 | M20 x 1.5 | 3/8" or 1/2" | 16 | 4.0 | 8.4 | 10.2 | 14.1 | 45 | 25.4 | 28.0 | 0.130 |
| 16-2 | M16 x 1.5 | 3/8" or 1/2" | 16 | 4.0 | 8.4 | 10.9 | 15.8 | 39 | 25.4 | 28.0 | 0.130 |
| 16-2 | M20 x 1.5 | 3/8" or 1/2" | 16 | 4.0 | 8.4 | 10.9 | 15.8 | 45 | 25.4 | 28.0 | 0.130 |
| 16-3 | M16 x 1.5 | 3/8" or 1/2" | 16 | 4.0 | 8.4 | 13.0 | 17.1 | 39 | 25.4 | 28.0 | 0.130 |
| 16-3 | M20 x 1.5 | 3/8" or 1/2" | 16 | 4.0 | 8.4 | 13.0 | 17.1 | 45 | 25.4 | 28.0 | 0.130 |
| 20S-1 | M20 x 1.5 | 3/8" or 1/2" | 16 | 7.2 | 11.0 | 13.0 | 17.1 | 45 | 25.4 | 28.0 | 0.133 |
| 20S-2 | M20 x 1.5 | 3/8" or 1/2" | 16 | 7.2 | 11.7 | 15.0 | 19.3 | 45 | 25.4 | 28.0 | 0.133 |
| 20S-3 | M20 x 1.5 | 3/8" or 1/2" | 16 | 7.2 | 11.7 | 13.6 | 20.7 | 45 | 25.4 | 28.0 | 0.133 |
| 20-1 | M20 x 1.5 | 1/2" or 3/4" | 16 | 9.4 | 14.0 | 16.9 | 22.3 | 45 | 30.0 | 33.0 | 0.162 |
| 20-2 | M20 x 1.5 | 1/2" or 3/4" | 16 | 9.4 | 14.0 | 18.0 | 23.8 | 45 | 30.0 | 33.0 | 0.162 |
| 20-3 | M20 x 1.5 | 1/2" or 3/4" | 16 | 9.4 | 14.0 | 18.7 | 24.8 | 45 | 30.0 | 33.0 | 0.174 |
| 20-4 | M20 x 1.5 | 1/2" or 3/4" | 16 | 9.4 | 14.0 | 20.7 | 28.3 | 45 | 30.0 | 33.0 | 0.195 |
| 20-5 | M20 x 1.5 | 1/2" or 3/4" | 16 | 9.4 | 13.0 | 13.9 | 19.3 | 45 | 30.0 | 33.0 | 0.210 |
| 25-1 | M25 x 1.5 | 3/4" or 1" | 16 | 13.5 | 20.0 | 23.7 | 31.3 | 46 | 37.6 | 41.4 | 0.256 |
| 25-2 | M25 x 1.5 | 3/4" or 1" | 16 | 13.5 | 19.0 | 21.1 | 26.8 | 46 | 37.6 | 41.4 | 0.231 |
| 25-3 | M25 x 1.5 | 3/4" or 1" | 16 | 13.5 | 19.0 | 24.3 | 31.3 | 46 | 37.6 | 41.4 | 0.234 |
| 25-4 | M25 x 1.5 | 3/4" or 1" | 16 | 13.5 | 20.0 | 22.3 | 28.3 | 46 | 37.6 | 41.4 | 0.234 |
| 32-1 | M32 x 1.5 | 1" or 1 1/4" | 16 | 19.5 | 26.0 | 28.1 | 33.3 | 47 | 46.0 | 50.6 | 0.322 |
| 32-2 | M32 x 1.5 | 1" or 1 1/4" | 16 | 19.5 | 26.3 | 30.4 | 38.2 | 47 | 46.0 | 50.6 | 0.347 |
| 32-3 | M32 x 1.5 | 1" or 1 1/4" | 16 | 19.5 | 26.3 | 30.4 | 40.2 | 47 | 46.0 | 50.6 | 0.369 |
| 40-1 | M40 x 1.5 | 1 1/4" or 1 1/2" | 16 | 23.0 | 32.2 | 36.4 | 46.2 | 50 | 55.0 | 60.5 | 0.518 |
| 40-2 | M40 x 1.5 | 1 1/4" or 1 1/2" | 16 | 23.0 | 32.2 | 36.4 | 44.2 | 50 | 55.0 | 60.5 | 0.497 |
| 40-3 | M40 x 1.5 | 1 1/4" or 1 1/2" | 16 | 23.0 | 32.2 | 37.7 | 44.7 | 50 | 55.0 | 60.5 | 0.484 |
| 50S-1 | M50 x 1.5 | 1 1/2" or 2" | 16 | 28.1 | 38.2 | 48.4 | 55.8 | 50 | 65.0 | 71.5 | 0.630 |
| 50-1 | M50 x 1.5 | 2" | 16 | 33.1 | 44.1 | 48.4 | 55.8 | 50 | 65.0 | 71.5 | 0.575 |
| 63S-1 | M63 x 1.5 | 2" or 2 1/2" | 19 | 39.2 | 50.1 | 57.5 | 64.8 | 50 | 80.0 | 88.0 | 0.990 |
| 63-1 | M63 x 1.5 | 2 1/2" | 19 | 46.7 | 53.6 | 57.5 | 64.8 | 50 | 80.0 | 88.0 | 0.900 |

NOTES

- Gland size does not necessarily equate to the entry thread size.
- The IP O-ring seal is only available on metric entry threads. IP washers can be supplied for tapered entry threads.
- Dimensions (A) & (B) may differ for glands with non metric entry threads. Please refer to our "Thread Reference Tables" for specific dimensions.
- Assembly instructions must be read prior to installation and adhered to in full.
- Peppers supplies cable glands with parallel entry threads that conform to the flameproof threaded joint requirements of IEC/EN 60079-1 and other equivalent standards. They usually incorporate a thread run out according to the available machining techniques and will not have a full form thread for the entire length.

- Peppers Cable Glands Limited will not be held responsible for clients' installations where this has not been taken into account.
- When selecting IP Washer material for gland kits, please be aware of the accessories temperature range to ensure they are suitable for the intended installation.
- Where approval in addition to ATEX and IECEx is required, this must be clearly requested at time of enquiry / order.
- It is the installer's responsibility to ensure that the flexible conduit is secured correctly.
- If fit testing is required for specific conduit please contact Peppers.

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