

# Peppers Cable Glands Limited

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## Accessories:- Nylon Adaptors and Reducers - Type ARN



ARN Series Certified Adaptors and Reducers provide a method of matching electrical threadforms on Ex equipment while maintaining Increased Safety Exe methods of explosion protection and IP66, 68 for IEC type applications.

**Adaptors** are used where the thread size of the cable gland or connection device is larger than, or of an equivalent size to the entry thread of the enclosure.

**Reducers** are used to reduce the entry thread of an enclosure to accept a cable gland or connection device with a smaller thread.

|                        |                                                                                                                                                                                                                         |  |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| CERTIFICATION          | <b>CENELEC</b><br>SIRA00ATEX3091 (Metric Female)<br>SIRA99ATEX3116U (Non-Metric Female)<br>II 2DG E Ex e II<br><br><b>CSA / A Ex</b><br>Class I, Zone 1, Ex e II<br>Class I, Division 2 ABCD<br>Class II EFG, Class III |  |
| INGRESS PROTECTION     | IP66 68, CSA Enclosure Type (NEMA) 4X 6P                                                                                                                                                                                |  |
| IMPACT RESISTANCE      | 7Nm                                                                                                                                                                                                                     |  |
| OPERATING TEMPERATURES | Nitrile 'O' Ring -30°C to +100°C<br>Silicone 'O' Ring -50°C to +125°C                                                                                                                                                   |  |
| MATERIALS              | 30% Glass Filled Nylon (ARN)                                                                                                                                                                                            |  |
| THREADS                | ISO Metric; ET; NPT; NPS; ISO Pipe Thread (BSP Taper, BSP Parallel); PG                                                                                                                                                 |  |
| SEALS                  | The standard 'O' Ring material is Nitrile                                                                                                                                                                               |  |
| EXAMPLE PART NUMBER    | Sample: <b>ARN/M20/M25</b><br><b>ARN</b> - Body material (Nylon)<br><b>M20</b> - Male thread size<br><b>M25</b> - Female thread size                                                                                    |  |

### AVAILABLE THREAD SIZES AND CORRESPONDING BORE SIZE

| Metric | Bore | NPT    | Bore | ISO Pipe | Bore | ET     | Bore | PG   | Bore |
|--------|------|--------|------|----------|------|--------|------|------|------|
| M16    | 9.3  |        |      |          |      |        |      | 9    | 9.0  |
| M20    | 11.0 | 1/2"   | 12.0 | 1/2"     | 12.0 | 3/4"   | 11.0 | 11   | 10.0 |
| M25    | 16.0 | 3/4"   | 13.0 | 3/4"     | 13.0 | 1"     | 16.0 | 13.5 | 11.5 |
| M32    | 21.0 | 1"     | 18.0 | 1"       | 18.0 | 1 1/4" | 21.0 | 16   | 13.5 |
| M40    | 31.0 | 1 1/4" | 33.0 | 1 1/4"   | 33.0 | 1 1/2" | 31.0 | 21   | 19.0 |
| M50    | 40.0 | 1 1/2" | 38.0 | 1 1/2"   | 38.0 | 2"     | 40.0 | 29   | 28.0 |
|        |      |        |      |          |      |        |      | 36   | 37.0 |
|        |      |        |      |          |      |        |      | 42   | 44.0 |

All Dimensions are in Millimetres

#### NOTES:

- Full installation instructions are supplied with adaptors and reducers, the instructions must be read prior to installation and adhered to in full
- Unless otherwise stated ISO Metric entry threads have a 1.5mm pitch
- Adaptors are used where the thread size of the cable gland or connection device is larger than, or of an equivalent size to the entry thread of the enclosure
- Reducers are used to reduce the entry thread of an enclosure to accept a cable gland or connection device with a smaller thread