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Accessories:- Adaptors and Reducers - Type AR



Including type No's:

| | | |
|---|---|---|
| A | R | * |
| | | B |
| | | S |
| | | A |

AR Series Dual Certified Adaptors and Reducers provide a method of matching electrical thread forms on Ex equipment while maintaining Flameproof Exd and Increased Safety Exe methods of explosion protection and IP66, 68 for IEC type applications. Class I, Division 1 and NEMA 4X, 6P for NEC/CEC type applications.

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|--------------------------------------|--|--|
| <p>CERTIFICATION</p> | <p>CENELEC SIRA00ATEX1094 (Metric Female) SIRA99ATEX1115U (Non-Metric Female) I M2 II 2DG E Ex de landIIC II 2DG E Ex de IIC (Aluminium)</p> <p>CSA / A Ex Class I, Zone 1, Ex de landIIC Class I, Division 1and2 ABCD Class II EFG, Class III</p> <p>GOST R-Exde IICU POCC GB MТ14.B00030</p> <p>IECEX Ex d IIC / Ex e II / Ex d I IECEX SIR 05.0042U</p> | |
| <p>INGRESS PROTECTION</p> | IP66 68, CSA Enclosure Type (NEMA) 4X 6P | |
| <p>IMPACT RESISTANCE</p> | 20Nm (7Nm Aluminium) | |
| <p>OPERATING TEMPERATURES</p> | Nitrile 'O' Ring -30°C to +100°C Silicone 'O' Ring -50°C to +180°C | |
| <p>MATERIALS</p> | Brass CZ121 (ARB) 316 Stainless Steel (ARS) Aluminium Alloy (ARA) | |
| <p>THREADS</p> | ISO Metric; ET; NPT; NPS; ISO Pipe Thread (BSP Taper, BSP Parallel); PG | |
| <p>SEALS</p> | The standard 'O' Ring material is Nitrile Tapered male thread options are not normally supplied c/w 'O' ring seal, thread sealant should be used to maintain the desired level of ingress protection | |
| <p>PLATING</p> | Zinc (ZP); Nickel (NP); Tin (TP); Electroless Nickel (EN) | |
| <p>EXAMPLE PART NUMBER</p> | <p>Sample: ARB/NP/M20/050NPT AR - Adapter/Reducer type</p> <p>B - Body material (Brass) NP - Nickel plating M20 - Male thread size 050NPT - Female thread size (1/2" NPT)</p> | |

| AVAILABLE THREAD SIZES AND CORRESPONDING BORE SIZE | | | | | | | | | |
|--|------|--------|-------|----------|-------|--------|------|------|------|
| Metric | Bore | NPT | Bore | ISO Pipe | Bore | ET | Bore | PG | Bore |
| M16 | 10.0 | | | | | | | 7 | 8.0 |
| M20 | 14.0 | 1/2" | 15.0 | 1/2" | 15.0 | 3/4" | 14.0 | 9 | 10.0 |
| M25 | 18.0 | 3/4" | 19.0 | 3/4" | 19.0 | 1" | 18.0 | 11 | 13.5 |
| M32 | 24.0 | 1" | 25.0 | 1" | 25.0 | 1 1/4" | 24.0 | 13.5 | 14.0 |
| M40 | 32.0 | 1 1/4" | 32.0 | 1 1/4" | 32.0 | 1 1/2" | 32.0 | 16 | 16.0 |
| M50 | 41.0 | 1 1/2" | 38.0 | 1 1/2" | 38.0 | 2" | 41.0 | 21 | 21.0 |
| M63 | 53.0 | 2" | 49.0 | 2" | 49.0 | 2 1/2" | 53.0 | 29 | 29.0 |
| M75 | 64.0 | 2 1/2" | 60.0 | 2 1/2" | 60.0 | 3" | 64.0 | 36 | 38.0 |
| M80 x 2.0 | 69.0 | 3" | 75.0 | 3" | 75.0 | | | 42 | 45.0 |
| M85 x 2.0 | 73.0 | 3 1/2" | 88.0 | 3 1/2" | 88.0 | | | 48 | 50.0 |
| M90 x 2.0 | 78.0 | 4" | 100.0 | 4" | 100.0 | | | | |
| M100 x 2.0 | 88.0 | | | | | | | | |

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
- For Flameproof Exd applications the female thread into which the adaptor or reducer is to be fitted must comply with clause 5.3 of EN 50018:2000 (clause 5.3 IEC 79-1)
- For NEC/CEC Explosion Proof applications an engagement of at least 8 full threads must be achieved for parallel threads and 5 full threads must be achieved for tapered threads
- Where AR adaptors and reducers are fitted into non-metallic Increased Safety Exe enclosures they must be included within the earth circuit of the system
- 316 Stainless Steel versions do not feature a marking band. This reduces the overall length of reducers by 5mm, it does not affect the overall length of Adaptors
- 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
- When ordering one needs to specify if IECEx or ATEX certification is required. ATEX versions are supplied as standard.

<http://www.cableglands.com>