

Installation Guide

1. All Redapt products should be installed in accordance with all relevant Installation Standards and Codes of Practice and the latest revision of IEC 60079-14: Electrical Installations in hazardous areas (other than mines)
2. Installation of Redapt products should only be carried out by an engineer trained in cable gland installation.
3. Under no circumstances should installation be carried out under live conditions.
4. The installer should ensure that no damage occurs to any thread or form of seal during installation. Where component is plated care should be taken to prevent damage or chipping.
5. Threaded Entries – Components can be installed directly into threaded entries and the recommended torque applied.
6. Clearance Holes – Clearance holes should be 0.5 mm larger than the major diameter of the male thread. Components installed in clearance holes should be secured with an appropriate sized locknut.
7. Maintaining IP 64 Rating – In order to maintain such an IP rating the installer should ensure that parallel threads engage to 8 full threads and tapered thread to 5 full threads.
8. Maintaining IP 66/67 & 68 (2 metres) Rating – In order to maintain the IP Rating of a component, the above thread engagement must be attained. The surface of the enclosure should also be clean and free from dust or moisture before assembly. In order to maintain IP 66/67 & 68 (2 metres) the installer must ensure that either the sealing washer is in the correct position or that the 'O' Ring seal is seated in the groove provided. A non-hardening thread sealant may be used to provide additional ingress protection.
9. If a serrated washer is used it should not be installed in such a way that it may impair any IP Rating.
10. Recommended Installation Torque – In order to maintain the integrity of the enclosure an installation torque as detailed below should be applied.

Installation Torque

Redapt products should be installed with the same torque as a gland of equivalent size and of the same material. If in doubt the following table should be used as a guide. Torque values apply to non-metric thread equivalents.

Male Thread Size	Maximum Torque (N.m.)
M16 & M20 and Equivalents	32.5
M25 and Equivalents	47.5
M32 and Equivalents	55.0
M40 and Equivalents	65.0
M50 and Equivalents	80.0
M63 and Equivalents	95.0
M75 and Equivalents	110.0

Routine Checking and Maintenance

1. All Redapt products should be checked during routine maintenance of the enclosure.

Special Notes

- The AR-D series are capable of operating in surrounding temperatures between – 60° C to + 180° C, providing they are not used in conjunction with any sealing device. Additional advice should be sought to ensure any sealing method is capable of operating at required temperature.
- AR-D Series adaptors/reducers will maintain IP64. Used with an appropriate size sealing washer, IP66-67 & 68 (2 metres) can be maintained
- Only one adaptor or reducer is to be used with any single cable entry on the associated equipment.
- Where the product is to be installed in a threaded entry care should be taken to ensure that the threads are fully engaged to maintain Ex integrity.
- Aluminium variants are not IECEx approved
- IECEx approved adaptors & reducers are certified Ex tD A21 IP6X for use in the presence of combustible dusts according to IEC 61241-1: 2004.

For further assistance or details on Redapt's product range please complete faxback details.

NAME:	
POSITION:	
COMPANY:	
ADDRESS:	
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NATURE OF ENQUIRY:	

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