

Product Selection Guide

When selecting Ex certified accessories for use in Hazardous Areas it is important to ensure that the product selected not only performs the task required, i.e. adapting the thread, but must also **maintain the overall integrity of the equipment** into which it will be fitted.

To help with selection of Redapt's product we have prepared the following as a guide. However, when selecting equipment for use in the hazardous areas the appropriate national or international standards or codes of practice must be considered.

Certification

- Accessories must be certified to a suitable, preferably the same, method of protection and for use in the same gas group as the equipment into which they will be fitted.
- Exd certified products meet and exceed the requirements for Exe approval and will therefore maintain the equipment certification, although special attention should be paid to ingress protection, as this is often higher for Exe equipment.
- In an attempt to make life easier for users Redapt's latest range of Adaptors, Reducers and Stopping Plugs are approved Exde and tested to IP66 68.

Equipment Certificates, Ex Thread Adaptors and Ex Stopping Plugs

- Redapt's Adaptors & Reducers with metric female threads (Ex Adaptors) and full range of Stopping Plugs (Ex Stopping Plugs) are certified as apparatus and granted Equipment Certificates. This means that they can be fitted into Ex apparatus enclosures without further certification.

Component Certificates

- Redapt's Adaptors & Reducers with non-metric female threads are certified as components and as such require further approval before they can be fitted to Ex apparatus enclosures. This applies to all products that have a 'u' at the end of the certificate number.

Worldwide compatibility

- Keeping pace with the rapidly changing approvals and to ensure worldwide compatibility, Redapt have North American Ex approvals for both methods of hazardous location classification, Zones and Divisions, in addition to our existing CENELEC approvals. Redapt can therefore offer Adaptors & Reducers Ex de I&IIc and/or Class I Division 1 ABCD, or Ex e II, Class I Division 2 etc.

Ingress Protection

- To ensure that the ingress protection of the equipment is maintained the accessories need to be of the same level of protection as the equipment.
- Redapt's Exde range of Adaptors, Reducers and Stopping Plugs are fitted with an integral 'O' ring seal and have been independently tested to IP66 68.

Impact Resistance

- To ensure the integrity of the equipment the impact resistance of the accessories must also be considered especially when specifying non-metallic Ex accessories.
- Redapt's Exde range of Adaptors, Reducers and Stopping Plugs has an impact resistance of 20Nm. The rest of Redapt's Ex range has an impact resistance of 7Nm, including glass filled nylon products.

Temperature Classification

- Redapt's products do not carry a Temperature Class or 'T' rating as they are passive and do not generate heat.

Material

- To ensure the long term integrity of the installation care should be taken in selecting the product material. In particular taking into account any corrosive atmosphere present and/or the potential for corrosion brought about by mating dissimilar metals.
- As standard we supply brass, which is suitable for most applications. Although in certain atmospheres, most notably ammonia, or to avoid bi-metallic corrosion and electrolytic action it may be advisable to select an alternative material or request plated brass.

Thread Fit, Gauging and Length

- Parallel threads are gauged to a medium fit (6G, 6H) and are dimensioned to ensure a minimum of 8 engaged threads, unless otherwise specified.
- Tapered threads are gauged and dimensioned to provide for 5 fully engaged threads, unless otherwise specified.

Male Thread First

- When ordering or inquiring after Adaptors and Reducers it helps avoid confusion if the male thread size is quoted first, followed by the female.

Dimensions

- It is advisable to check the dimensions of the product to ensure that it can be installed into the equipment without fouling.

Product Marking

- To ensure clarity the relevant product information is marked on the product, and/or shown on the packaging and/or within the installation instructions as tabulated below:

Marking	Product	Packaging	Installation Instructions
Redapt Logo	✓	✓	✓
Full Address	X	X	✓
⊕	✓	X	✓
Category	X	X	✓
Method of Protection	✓	✓	✓
Gas Group	✓	✓	✓
Series (PA-D etc)	✓	Full Part No.	Full Part No.
Size	✓	✓	✓
E Ex Certificate No.	X	X	✓
CE	X	✓	✓
Notified Body Name	✓	X	✓
Notified Body No.	X	X	✓
Year of Manufacture	X	✓	X
®	✓	X	✓

European Directives

- Products approved within the ATEX Directive will be shipped with detailed installation instructions.
- The CE mark is applied to the packaging and confirms that Redapt's products meet with the essential health and safety requirements of the applicable European Directives.
- For Ex certified products the relevant requirements of both the ATEX directive and the essential health and safety requirements of the Low Voltage Directive (LVD) are complied with.
- For non-Ex products, industrial versions and accessories, the essential health and safety requirements of the Low Voltage Directive (LVD) are complied with.
- Redapt's products are outside the scope of the Electromagnetic Compatibility Directive (EMC) as they are passive.