



TECHNICAL DETAILS – SWIVEL ADAPTORS 90° & IN-LINE

Redapt will not take responsibility for any damage, injury or form of loss caused where products are not installed or used as detailed in these instructions. If in doubt, further advice can be obtained from our Technical Department.

Product Certification

IECEx	ATEX
IECEx SIR 10.0123U	SIRA 10ATEX1275U
Ex d/Ex e IIC Gb	Ex d/Ex e IIC Gb
*Ex d/Ex e I Mb	*Ex d/Ex e I Mb
Ex tb IIIC Db IP 6X	Ex tb IIIC Db IP 6X
*Not Aluminium	

PRODUCT TYPES	TYPE REFERENCE	
	IN-LINE	90°
Male x Female	TA	TP
Male x Male	TD	TR
Female x Female	TC	TQ

Quality

SIRA (0518) 00 ATEX M083
BSI: ISO 9001:2008 No. Q05155

Description

Each Swivel Adaptor comprises two threaded entry components. The components are assembled such that the flame-paths are formed at both the entry threads and around the "spinning" components and connection at both ends is achieved without twisting the cable. The threads are available in-line or at 90°, thread entries ranging between M20 and M75 with adaption and reduction capabilities. Alternative threads are available as ET, PG, NPT, BSPP and BSPT.

Use

Swivel Adaptors are used to facilitate in-line and 90° connections when one attachment cannot be turned.

Installation

The components have adequate threads to ensure Exd requirements are met, (8 parallel and 5 taper). The Swivel Adaptor must be fully tightened into the enclosure. If the resting position is not correct, one component can be rotated to achieve the installation angle.

The entry into which the Swivel Adaptor is to be fitted must be machined at 90° to a clean, flat surface of the enclosure. All burrs and sharp edges must be removed from leading end of thread.

The product is tested to IP66. This is achieved by purchasing the product with a machined undercut and fitted with a red silicone 'O' ring ASTW 2000, compound S7QQg shore hardness 70, which will maintain the integrity of the temperatures as detailed below. Alternatively, IP66 can be maintained by the use of 1) Washer 2) Non hardening sealing compound.

Service temperature range will be affected by the use of these items and the installer must review temperature requirements when selecting the alternative products.

Construction

Materials

BRASS	BS2874	CZ121
STAINLESS STEEL	BS970 Pt4	316 and 316L
MILD STEEL	BS970 Pt1	220 MO7
ALUMINIUM	BS1474 6082T6	
ALUMINIUM BRONZE	BS1400B2	

Temperature

TYPE OF PROTECTION	SERVICE TEMPERATURE
Ex d I Mb	-20°C to +60°C*
Ex e I Mb	-50°C to +150°C*
Ex d IIC Gb	-20°C to +60°C*
Ex e IIC Gb	-50°C to +200°C*
Ex tb IIIC Db	-50°C to +200°C*

*Temperatures will be affected if component is installed using a lower grade of 'O' ring or one of the alternative sealing products

Routine Checking and Maintenance

All Redapt products should be checked during routine maintenance of equipment.

For further assistance or details on Redapt's range of products, please contact:

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