

1. GENERAL

The marking of the Right-Angled Adaptors shall include the following:

- Ex db I Mb
- Ex eb I Mb
- Ex db IIC Gb
- Ex eb IIC Gb
- Ex ta IIIC Da

The Type 787 Range of Right-Angled Adaptors has a male thread at one end and a female thread at 90° to the male thread. They are intended to provide cable entry options where space is limited or to avoid cable damage. Additionally, they may be used to convert an existing cable entry aperture to a different thread form and/or size. Male thread forms are between M20x1.5 and M100x2.0 and combinations such that a maximum of one 'standard' size difference is maintained. The male thread may be fitted with an optional O-ring seal. The type 787 range has been tested and assessed to achieve a minimum IP rating of IP64 by Sira. IP ratings exceeding IP64 have not been endorsed by CML but may be marked on the adaptors.

Design Options

Materials of manufacture:

The standard material supplied is:

Brass	BS EN 12164:2011/ BS EN 12168:2011 Grade CuZn39Pb3 (CW614N) All brass manufactured component parts can be optionally nickel plated to a maximum of 0.008mm
Cast Brass	Not inferior to gb/t 5231-2012 hpb58-3 / astm38000 jis c3604 All brass manufactured component parts can be optionally nickel plated to a maximum of 0.008mm

Alternate materials are:

Stainless steel	BS EN 10088-3:2014 Grades 316S11, 316S13, 316S31, 316S33, 316L
Mild steel	BS EN 10277-2:2008 Grades 220M07, 230M07 (EN1A) / 220M07Pb, 230M07Pb (EN1APb)
Aluminum	BS EN 573-3:2013 / BS EN 755-1-3:2008 Grade 6082 T6, 6262 T6 / BS EN 1676:2010 Grade LM25 TF Not for use with Group I mining Aluminium will contain less than 6% magnesium

The materials are manufactured in the following methods

	Male x Female metric thread size									
	M20x M16	M25x M20	M32x M25	M40x M32	M50x M40	M63x M50	M75x M63	M80x M75	M90x M80	M100x M90
Brass	M/C	M/C	M/C	M/C	M/C	M	M	M	M	M
Aluminium	M	M	M	M	M	M	M	M	M	M
Mild Steel	M/C	M/C	M/C	M/C	M/C	M	M	M	M	M
St. Steel	M/C	M/C	M/C	M/C	M/C	M	M	M	M	M

M – Machined C – Cast

Alternative entry component thread forms:

Metric	ISO 965-1, ISO 965-3 medium fit (6g) for external threads
ET (Conduit)	BS31:1940 (1979), Table A
PG	DIN 40430:1971
BSPP	BS2779:1986 class A full form for external threads
BSPT	BS21:1985 standard threads only as clause 5.4, gauging to clause 5.2 system A
ISO	ISO 7/1:1994, gauging to ISO 7/2 clause 6.3 for external threads
NPT	ANSI/ASME B1.20.1-2013 gauging to clause 3.2 for external threads

NPT	USAS B2.1-1968, Gauging to clause 36 for external threads and clause 37 for internal threads
NPSM	ANSI/ASME B1.20.1-2013 gauging to clause 6.4 for external threads

Notes:

- Sira 14ATEX1033U and IECEx SIR 14.0014U is superseded by this certificate.
- The product covered by Issue 0 of this certificate remains identical to that previously covered by Sira 14ATEX1033U and IECEx SIR 14.0014U.
- Where Sira 14ATEX1033U and/or IECEx SIR 14.0014U is specified in other product certification, or other technical specifications, this certificate reference for the product shall be used in its place; updating of the other product certificate or technical specification is not required.

Based on the following documentation: IECEx CML 18.0176U. Issue 0.

2. INSTALLATION INSTRUCTIONS

It is the manufacturer’s responsibility to supply installation instructions with each unit offered for sale as required by IEC/SANS 60079-0 Clause 30.

3. SPECIAL CONDITIONS FOR SAFE USE (denoted by “X” after certificate number)

None.

4. SCHEDULE OF LIMITATIONS (denoted by “U” after certificate number)

The following conditions relate to safe installation and/or use of the equipment.

i. The following thread forms and sizes of the machined versions of the Type 787 right-angle adaptors shall not be subjected to installation torques above the values in the table below. No limitations apply to the cast versions of the Type 787 right-angle adaptors.

Male Threads	Nm	Male Threads	Nm
M25	53	M25	40
M32	53	M32	40
M40	53	M50	80
M90	166	M75	115
M100	166	M90	115

5. CONDITIONS OF CERTIFICATION

All production units must be covered by a QAN (Quality Assurance Notification), Product Mark Scheme or batch evaluation.

