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GOVERNMENT APPROVED TEST LABORATORY

IN TERMS OF ARP 0108: "REGULATORY REQUIREMENTS FOR EXPLOSION PROTECTED APPARATUS"

IA CERTIFICATE

Date Issued: 26 Jan 2021 26 Jan 2024 *Expiry date:

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Ex – Type Examination Certificate

Certificate Number: S-XPL/21.0012 U **Insulated Adaptors** Equipment:

Model / Type: **Type 777**

CMP Products Limited Applicant:

Glasshouse Street

St Peters

Newcastle Upon Tyne

NE6 1BS

United Kingdom

Manufacturer: **CMP Products Limited**

Serial No: All serial numbers imported between issued- and expire date and all serial

numbers covered by a valid report or acceptable product certification mark.

Supplied by

CMP Products Limited

Identified by Inspection Authority number

S-XPL/21.0012 U

And as described in the Explolabs file number XPL/21804/21.0012 is hereby certified "Explosion Protected 1888 (Refer to clause 1, for Ex Rating)", having been examined and inspected in accordance with the relevant requirements of South African Standards.

SANS 60079-0: 2019 Ed 6

Explosive atmospheres Part 0: Equipment — General requirements IEC 60079-0: 2017 Ed 7

SANS 60079-1: 2015 Ed 5

Explosive atmospheres Part 1: Equipment protection by flameproof enclosures "d"

IEC 60079-1: 2014 Ed 7

SANS 60079-7: 2019 Ed 4 Explosive atmospheres Part 7: Equipment protection by increased safety "e"

IEC 60079-7: 2015 Ed 5 SANS 60079-31: 2014 Ed 2

Explosive atmospheres Part 31: Equipment dust ignition protection by enclosure "t" IEC 60079-31: 2013 Ed 2

Leavest Browners to day	Protection Equipment Protection Level (EPL) Group		Performance of protection	Conditions of operation	T class or Max Surface Temp (°C)	
In dear	High Gb Group II		Suitable for normal operation and frequently occurring disturbances or equipment where faults are normally taken into account	Equipment remains functioning in zones 1 and 2	150°C	
that is don.	Very high	Da Group III	Two independent means of protection or safe even when two faults occur independently of each other	Equipment remains functioning in zones 20, 21 and 22	150ºC	

ANNEX TO CERTIFICATE NO S-XPL/21.0012 U

GENERAL

The marking of the Insulated Adaptors shall include the following:

Ex db IIC Gb

Ex eb IIC Gb

Ex ta IIIC Da

The Type 777 Range adaptors consists of three parts: a metallic front portion that forms a threaded entry into the equipment, a non-metallic insulator and a metallic rear section that accommodates a gland. An optional variant has the metallic rear section replaced by a complete CMP cable gland which can be supplied separately.

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Note that these adaptors when used in flameproof enclosures shall not be used in conjunction with a blanking device, in addition, only one adaptor shall be installed in any one cable entry.

Material of manufacture:

The standard material supplied is:

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	Brass	BS EN 12164:2011/ BS EN 12168:2011 Grade CZn39Pb3 (CW614N)
		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 316S13, 316S13, 316S31,316S33, 316L					
Mild Steel	BS EN 10088-3:2014 Grades 220M07, 230M07 (EN1A) /					
	220M07Pb,230M0M07Pb)					
Aluminium	BS EN 573-3:2013 / BS EN 755-1-3:2008 Grade 6082 T6, 6262 T6 / BS					
	EN1676:2010 Grade LM25 TF					

Alternative entry component thread forms:

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Metric	ISO 965-1, ISO 965-3 Medium fit (6g) for external threads					
ET (Conduit)	BS31:1940 (1940), 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					
NPSM	ANSI/ASME B1.20.1 – 2013 gauging to clause 6.4 for external threads					

Threads size combinations:

Available	Available threads sizes									
Female	M20 x 1.5	M25 x 1.5	M32 x 1.5	M40 x 1.5	M50 x 1.5	M63 x 1.5	M75 x 1.5	M90 x 2		
Male	M20 x 1.5	M25 x 1.5	M32 x 1.5	M40 x 1.5	M50 x 1.5	M63 x 1.5	M75 x 1.5	M90 x 2		

Alternative combinations of male and female thread sizes can be used; however, the female thread size can only be the same or one size larger than the male thread size.

Based on the following documentation: IECEx CML 18.0185U. 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.

DOCUMENT No: XPI 0213	RELEASE DATE: 29/05/2018	RFV · 7

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SCHEDULE OF LIMITATIONS (denoted by "U" after certificate number)

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

- I. The type 777 range of insulated adaptors shall be used in enclosures where the temperature, at the point of mounting, is outside the range of -60° C to + 130 °C.
- II. Based on the smallest male or female thread size used in the construction of the Type 777 Insulated Adaptor that they are installing, the following table shall be used by the installer to determine the maximum, applicable tightening torque and, when the adaptor is being assembled and fitted into associated equipment, this torque shall not be exceeded.

Smallest male or female thread size	M20	M25	M32	M40	M50	M63	M75	M90 \
Maximum tightening torque (NM)	40	55	65	80	100	115	140	180

CONDITIONS OF CERTIFICATION

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

MARKING

The following (or similar) information have to be clearly and permanently marked on all units:

: CMP Products Limited Supplier : CMP Products Limited Manufacturer : Insulated Adaptors Equipment

Model/Type : Type 777

Serial No.

IA Certificate No

Ex Rating : Ex db IIC Gb

> Ex eb IIC Gb Ex ta IIIC Da

: S-XPL/21.0012 U

This certification indicates compliance with R10.1 of the Mines Health and Safety Act and/or EMR 9(2) of the Occupational Health and Safety Act, provided that the apparatus is used as relevant in accordance with:

SANS 10086 and IEC/SANS 61241-14 requirements as applicable;

Any conditions mentioned in the above report:

- Any relevant requirements and codes of practice enforced in terms of the Mine Health and Safety Act or Occupational Health and Safety Act
- Any restrictions and conditions enforced by the Chief Inspector of Mines or the Principal Inspector or the Chief Inspector: Occupational Health
- A revision certificate replaces all previous version of the certificate.

 * Only covers equipment Imported between the "Issued" and "Expire" dates.
 - If and when your QAN (Quality Assurance Notification) Certificate for your equipment manufacturer expires during the valid period of the IA Certification (issued for your equipment) and a new certificate is not submitted the existing IA Certification will then be cancelled. It is thus the client's responsibility to always submit the updated and valid QAN certificate(s) to Explolabs (Pty) Ltd

Responsible Testing Officer:

M Lategan **Testing Officer**

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