



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx SIR 10.0173U** issue No.:1

Status: **Current**

Certificate history:
Issue No. 1 (2011-4-13)
Issue No. 0 (2011-1-4)

Date of Issue: **2011-04-13** Page 1 of 4

Applicant: **Victor Products Limited**
New York Way
Newcastle upon Tyne NE27 0QF
United Kingdom

Electrical Apparatus: **Type 5M500 Bolted Plug, Socket & Coupler**
Optional accessory:

Type of Protection: **Flameproof**

Marking: **Ex d I Mb**


Approved for issue on behalf of the IECEx
Certification Body:

C Ellaby

Position:

Deputy Certification Manager

Signature:
(for printed version)



2011-04-13

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

SIRA Certification Service
Rake Lane
Eccleston
Chester
CH4 9JN
United Kingdom

sira
CERTIFICATION



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Manufacturer: **Victor Products Limited**
New York Way
Newcastle upon Tyne NE27 0QF
United Kingdom

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2007-10 Explosive atmospheres - Part 0: Equipment - General requirements
Edition: 5

IEC 60079-1 : 2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition: 6

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[GB/SIR/ExTR10.0313/00](#)
[GB/SIR/ExTR11.0087/00](#)

Quality Assessment Report:

[GB/SIR/QAR06.0055/01](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Type 5M500PB Bolted Plug - rated at up to 750 A, 5000 V.

Type 5M500SB Bolted Socket - rated at up to 750 A, 5000 V.

Type 5M500SCB Bolted Coupler - rated at up to 750 A, 5000 V.

For full description refer to the Annexe

CONDITIONS OF CERTIFICATION: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1 - this Issue introduced the following changes:

1	The introduction of alternative sealing rings was recognised.
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Annexe to: IECEx Sir 10.0173U Issue 1
Applicant: Victor Products Limited
Apparatus: Type 5M500PB Bolted Plug
Type 5M500SB Bolted Socket
Type 5M500SCB Bolted Coupler



Type 5M500PB Bolted Plug - is rated at up to 750 A, 5000 V. The plug comprises a gunmetal enclosure, incorporating a screened insulator assembly with three main contact tubes, one pilot circuit contact tube, two auxiliary tubes and earth connections; it also has a gland assembly for the attachment of unarmoured cables. The power and contact tubes and the earth clamp are fitted with grub screws for cable core and screen/earth connection respectively.

The plug interface flange complies dimensionally with BS 5620:1990 and is for association with any socket or a coupler suitably certified for Group I in accordance with IEC 60079-0 and IEC 60079-1, having a flameproof interface as BS 5620:1990. The plug and a socket or a coupler are bolted together by means of four, stainless steel grade 304 bolts.

Type 5M500SB Bolted Socket - is rated at up to 750 A, 5000 V. The socket comprises a gunmetal enclosure, incorporating a screened insulator assembly with three main contact pins, one pilot circuit contact pin, two auxiliary pins and an earth contact. The power and contact pins are fitted with grub screws for cable core connection.

The socket interface flange complies dimensionally with BS 5620:1990 and is for association with any plug suitably certified for Group I in accordance with IEC 60079-0 and IEC 60079-1, having a flameproof interface as BS 5620:1990. The socket and a plug are bolted together by means of four, stainless steel grade 304 bolts. The other end of the socket has a facing for mounting onto a suitable, flameproof enclosure.

Type 5M500SCB Bolted Coupler - is rated at up to 750 A, 5000 V. The coupler comprises a gunmetal enclosure, incorporating a screened insulator assembly with three main contact pins, one pilot circuit contact pin, two auxiliary pins and an earth contact. The enclosure consists of two, identical mirrored image halves, which are bolted together by means of four, stainless steel grade 304 bolts. The coupler is double ended, with double ended pins to allow plug in contact tubes at each end, incoming and outgoing. The power and contact pins are fitted with grub screws for cable core connection.

The coupler interface flanges comply dimensionally with BS 5620:1990 and are for association with any plug suitably certified for Group I in accordance with IEC 60079-0 and IEC 60079-1, having a flameproof interface as BS 5620:1990. The coupler is bolted together with each plug by means of four stainless steel grade 304 bolts.