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## Making Hazardous Environments Work

### TYPE A43SB 500AMP 3300VOLT BOLTED FLAMEPROOF SOCKETS

Certification number Baseefa09ATEX0121U  I M2 Ex db I Mb

Certification number IECEX BAS 09.0048U  I M2 Ex db I Mb

Certification number BAS22UKEX0031U  I M2 Ex db I Mb

The certificate carries the group and category marking:- I M2

Where I signifies suitability for use in mining and M2 signifies suitability for use in mines where it must be de-energized in the presence of an explosive atmosphere.

For India only – The socket has been designed in accordance with IS/IEC 60079-0:2004 and IS/IEC 60079-1:2007. Test report number CIMFR/TC/C/H351

#### General

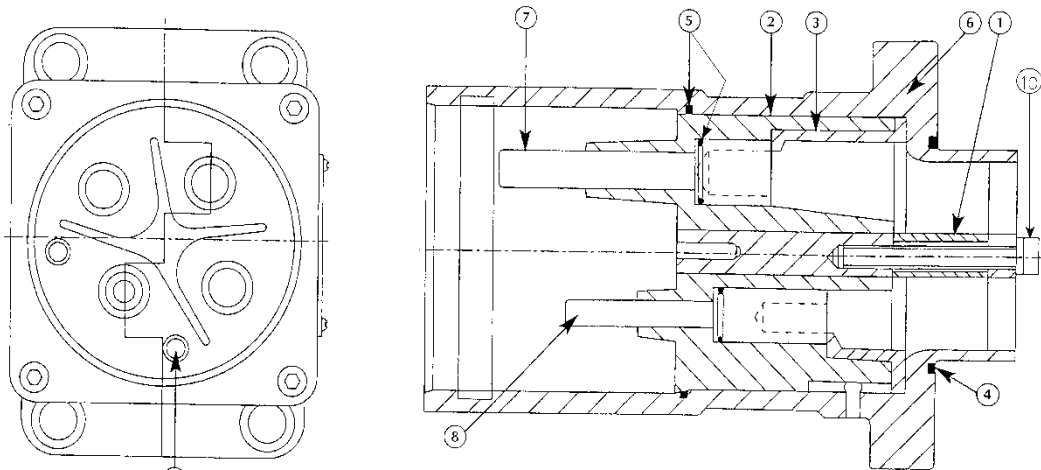
The A43SB Flameproof Bolted Socket is designed in accordance with BS EN IEC 60079-0:2018 and BS EN 60079-1:2014, with the interface mounting flange complying dimensionally with BS5620. The associated enclosure should be flameproof and certified to either EN60079-1, EN50018, BS5501, BS4683, or BS229 with the mating interface mounting flange complying dimensionally with BS5620. The socket can also be associated with any certified double flanged socket having a mounting flange and spigot interface complying dimensionally with BS5620. The following certified components can be associated with the A43SB socket:

|                                  |   |  |
|----------------------------------|---|--|
| Bolted Plug Type A43PB           | - | Certificate Baseefa03ATEX0023U   |
| Bolted Plug Type 43PB            | - | Certificate MECS96D5084U   |
| Bolted Plug Type A772A2          | - | Certificate HSE(M)905136U  |
| Bolted Plug Type A43PB           | - | Certificate Baseefa09ATEX0121U<br>IECEX BAS 09.0048U<br>BAS22UKEX0031U |
| Bolted Test Plug Type A43TBP     | - | Certificate Baseefa03ATEX0025U   |
| Bolted Test Plug Type 43TBP      | - | Certificate HSE(M)96D5086U   |
| Bolted Test Plug Type A772A2     | - | Certificate HSE(M)905283U  |
| Bolted Test Plug Type A43TBP     | - | Certificate Baseefa09ATEX0121U<br>IECEX BAS 09.0048U<br>BAS22UKEX0031U |
| Bolted Blanking Plug Type A43BPB | - | Certificate Baseefa03ATEX0026U   |
| Bolted Blanking Plug Type 43BPB  | - | Certificate MECS96D5087U   |
| Bolted Blanking Plug Type A772A2 | - | Certificate HSE(M)9050283  |
| Bolted Blanking Plug Type A43PB  | - | Certificate Baseefa09ATEX0121U<br>IECEX BAS 09.0048U<br>BAS22UKEX0031U |

## Installation

Note - It is the end users responsibility to follow the installation roles protecting other equipment energized via the connectors against the hazards arising from power failures.

1. Only suitably qualified personnel in accordance with established codes of practice should carry out the installation, maintenance, and inspection. Before commencement of work, ensure the power supply and load are compatible with rated voltage and current.
2. Remove the central retaining screw (10) and remove the distance piece (1). Remove the socket insulator (2), back up insulator (3) and contact pins (7, 8 and 9) from the body (6).



3. The insulation on the mains cable leads should be removed to the depth of the drilled holes (+5mm) in the mains contact pins. These contact pins can be either crimped or clamped. If crimped, they should be crimped using the required die set shown in table 1. Prior to crimping, ensure there is sufficient length on the leads for termination to the switchgear. The pilot pin can be made off as the mains contact pin. Remove 12mm of insulation from the auxiliary leads and terminate into the 2 auxiliary contact pins. If fitted with grub screws, ensure they are fully tightened.

| Main Pin  | 70mm <sup>2</sup> | 95mm <sup>2</sup> | 120mm <sup>2</sup> | Further information on die sets is available on request. |
|-----------|-------------------|-------------------|--------------------|--|
| Neilson   | ME29              | ME29              | ME29               |  |
| Pilot Pin | 35mm <sup>2</sup> | 50mm <sup>2</sup> | 70mm <sup>2</sup>  |  |
| Neilson   | ME14              |                   |                    |  |

**Table 1.**

4. The leads can now be fed through the back of the socket body. They should be split into 2 groups. The phase lead that is to go into position 3 of the insulator, the pilot lead and the 2 auxiliary leads should be fed through the opening adjacent to the insulator locating pin. Phase leads 1 and 2 should be fed through the other opening.
5. The insulator cap (3) can now be passed over the leads and the contact pins inserted into their relevant holes in the insulator (2). A slight resistance with the 'o' rings (5) may be incurred. Slide the insulator cap (3) along the cables and locate into the back of the insulator (2).
6. Insert the insulator assembly into the socket body (6) ensuring the key in socket body locates into the keyway of the insulator (2), spacer (1) and secure with the central retaining screw (10).
7. The socket body assembly can now be attached to the approved interface using the correct fasteners.

# TYPE A43RASB DETAILS

## General

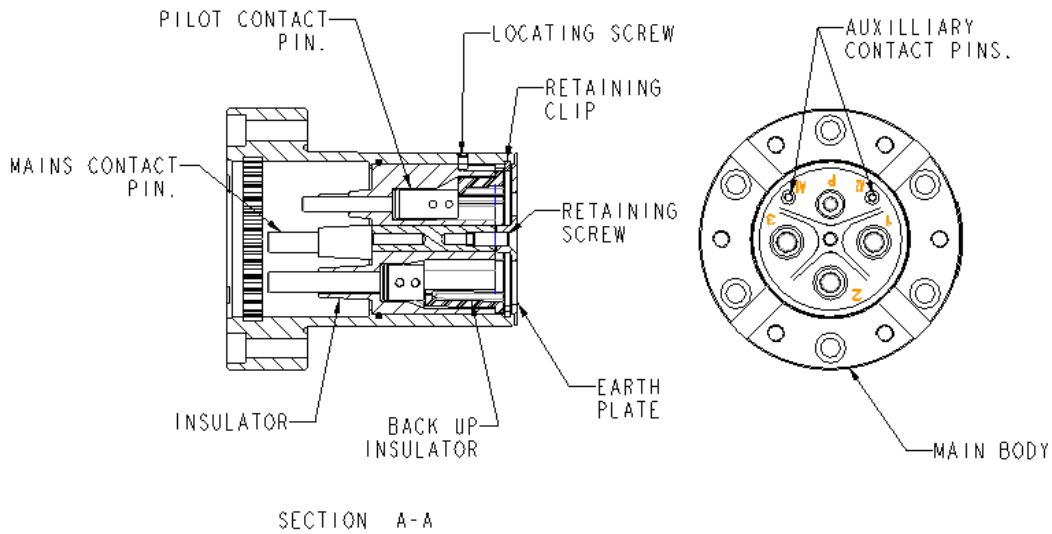
The A43RASB Flameproof Bolted Socket is designed in accordance with BS EN IEC 60079-0:2018 and BS EN 60079-1:2014. The socket can be associated with any certified equipment that has a mating interface flange dimensionally complying with EN60079-0 and EN60079-1.

The following certified component can be associated with the A43RASB socket:

|                          |   |                                |
|--------------------------|---|--------------------------------|
| Bolted Plug Type A43RAPB | - | Certificate Baseefa03ATEX0023U |
| Bolted Plug Type A43RAPB | - | Certificate Baseefa09ATEX0121U |
|                          |   | IECx BAS 09.0048U              |
|                          |   | BAS22UKEX0031U                 |

## Installation

1. Only suitably qualified personnel in accordance with established codes of practice should carry out the installation, maintenance, and inspection. Before commencement of work, ensure the power supply and load are compatible with the rated voltage and current.
2. Remove the retaining screw, earth plate, retaining ring and locating screw and remove the insulator assembly from the main body.
3. Remove the back up insulator and remove all of the contact pins.
4. Slide the earth plate over the 6 cables prior to fitting the contact pins. The insulation on the mains cable leads should be removed to the depth of the drilled holes (+5mm) in the mains contact pin. These contact pins will be either crimped or clamped.  
If crimped, they should be crimped using the required die set shown in table Prior to crimping, ensure there is sufficient length on the leads for termination to the switchgear.  
The pilot pin can be made off as the mains contact pin.  
Remove 12mm of insulation from the auxiliary leads and terminate into the 2 auxiliary contact pins.
5. Slide the back up insulator over the leads and slide the insulator onto the contact pins. A slight resistance may be encountered with the 'o' ring. The lip on the legs of the back up insulator should fit in between the end face of the contact pins and the end face conductor insulation.
6. The insulator assembly can now be slid into the main body. Line up the keyway in the insulator with the locating screw hole and fit the locating screw. Do not over tighten.
7. Using suitable tooling, compress the retaining clip and fit into the recess within the main body to retain the insulator. Slide the earth plate along the cables and secured with the retaining screw.
8. The unit can now be secured to the approved interface using the correct fasteners.



## Maintenance and Inspection

It should be noted that the original manufacturer must supply all components that are to be replaced. Failure to use such components invalidates the certification and approval and may make the apparatus dangerous. NO modifications should be made to the apparatus without the knowledge and approval of the manufacturer. If in doubt, refer to the manufacturer. A copy of the Spare Parts List is available from Victor Products Ltd. Before re-assembly ensure that all flameproof paths are visually inspected and dimensionally checked for any abnormality.

## HEALTH AND SAFETY AT WORK etc. ACT 1974

In the United Kingdom all equipment must be installed, operated and disposed of (as required) within the legislative requirements of the Health and Safety at Work etc. Act 1974. Leaflet No. HSS L1 refers to the Company's obligation and is available on request.

It is the responsibility of the user to select, install, operate and maintain the equipment in accordance with the relevant legislation and appropriate code of practice.



EU Only

Prices and design are subject to alteration without notice. All products are sold subject to our conditions of sale, copies of which are available on request.

*We reserve the right to change characteristics of our products. All data is for guidance only*

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# UK Attestation of Conformity




Victor Products Ltd  
Unit 3A, Tyne Dock East Side  
Port of Tyne,  
South Shields,  
Tyne and Wear  
NE33 5SQ  
United Kingdom

## TYPE A43 RANGE OF 500AMP 3300VOLT BOLTED FLAMEPROOF SOCKETS Certification number BAS22UKEX0031U

### Victor Products Ltd

Hereby declare our sole responsibility that the product which is the subject of this attestation is in conformity with the following standards or normative documents.

| Number and date of standard  | UK Legislation  |
|--|---|
| BS EN IEC 60079-0:2018<br>BS EN 60079-1:2014   | Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016                                 |
| EN50082 (1992)<br>EN55015 (1993)<br>EN 60555-2 (1987)  | 89/336 EEC: Electromagnetic Compatability   |
| <b>Notified Body:</b><br>Sira Certification Services<br>CSA Group<br>Deeside CH5 3US<br>Notified Body No. 0518 | <br>P. Devlin<br>Operations Manager<br>January 2024 |

SERIAL NUMBER

# Attestation of Conformity

Attestation de Conformité  
Konformitätsbescheinigung



Victor Products Ltd  
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United Kingdom

## TYPE A43 RANGE OF BOLTED FLAMEPROOF SOCKETS 500AMP 3300VOLT

Certification number Baseefa09ATEX0121U


IECEX BAS 09.0048U

Victor Products Ltd

Hereby declare our sole responsibility that the product which is the subject of this attestation is in conformity with the following standards or normative documents.

Erklären in alleiniger Verantwortung, daß das Product auf das sich diese Bescheinigung bezieht, mit der/den folgenden Norm(en) oder normativen Dokumenten Ubereinstimmt.

Déclarons de notre seule responsabilité, que le produit auquel cette attestation se rapporte, est conforme aux norme(s) ou aux documents normatifs suivants.

| <b>Number and date of standard</b><br>Nr. Sowie Ausgabedatum der Norm<br>No. Ainsi que date d'émission des normes. | <b>Directive description</b><br>Bestimmungen der Richtlinie<br>Prescription de la directive   |
|--|---|
| BS EN IEC 60079-0:2018<br>BS EN 60079-1:2014   | <b>Equipment and protective systems intended for use in potentially explosive atmospheres.</b><br>This Attestation is valid for directive 2014/34/EU.<br><br>Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen.<br>Diese Bescheinigung gilt für die Richtlinie 2014/34 /EU.<br><br>Appareils et systèmes de protection destinés à être utilisés en atmosphères explosibles.<br>Cette Attestation est valable pour la directive 2014/34 /UE. |
| EN50082 (1992)<br>EN55015 (1993)<br>EN 60555-2 (1987)  | <b>89/336 EEC: Electromagnetic Compatibility</b><br><br>89/336 EWG: Elektromagnetische Verträglichkeit<br><br>89/336 CEE: Compatibilité électromagnétique   |
| <b>Notified Body:</b><br>CSA Group Netherlands B.V.<br>Notified Body No. 2813                                      | <br>P. Devlin<br>Operations Manager<br>January 2024   |

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