

Victor Products Ltd  
Unit 3A, Tyne Dock East Side  
Port of Tyne,  
South Shields,  
Tyne and Wear  
NE33 5SQ  
United Kingdom  
Tel : +44(0)191 2808000  
Fax : +44(0)191 2808080



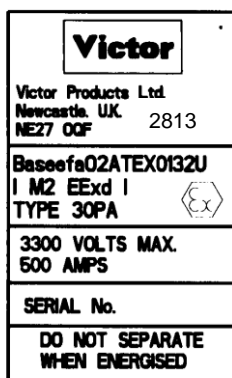
## Making Hazardous Environments Work

**TYPE 30PA 500A 3300V MAX. RESTRAINED FLAMEPROOF PLUGS.**

### Certification number Baseefa02ATEX0132U I M2 EExd I

The ATEX certificate carries the ATEX 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-energised in the presence of an explosive atmosphere.



### NAMEPLATE DETAIL

#### General.

These plugs are designed in accordance with EN50014: 1997 and EN50018: 2000. They can be associated with any of the following certified connectors for flameproof equipment.

|          |                                       |                                   |
|----------|---------------------------------------|-----------------------------------|
| Sockets: | Type No's 30S, 3RS, 3LS, & 3DS        | Certificate No. HSE(M)905041U     |
|          | Type No's 53OS, 53RS, 53LS & 53DS     | Certificate No. MECS92C5504U      |
|          | Type No's 53OSA, 53RSA, 53LSA & 53DSA | Certificate No. Baseefa02ATEX0133 |

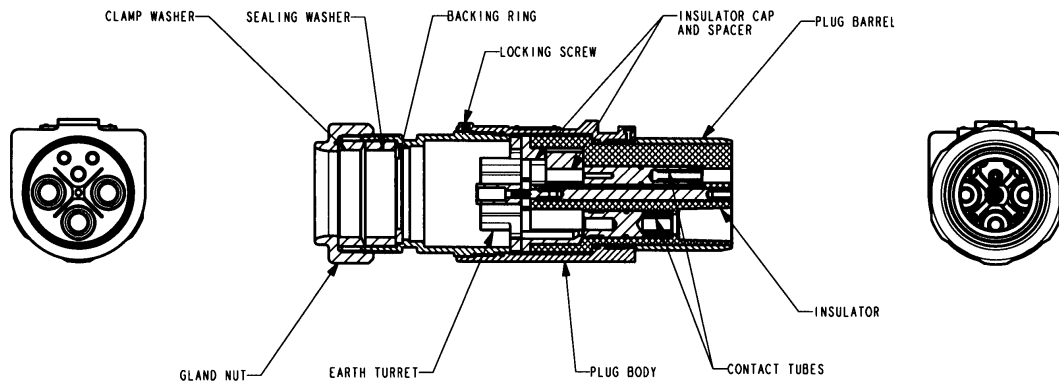
|           |                 |                                   |
|-----------|-----------------|-----------------------------------|
| Plug      | Type No's 3RC   | Certificate No. HSE(M)90B5045     |
| Couplers: | Type No's 3RPCA | Certificate No. Baseefa02ATEX0133 |

For India only – The plug has been designed in accordance with IS/IEC 60079-0:2004 and IS/IEC 60079-1:2007. Test report number CIMFR/TC/C/H333.

#### Preparation

1. Only suitably qualified personnel in accordance with established codes of practice must carry out installation, maintenance, and inspection.
2. Ensure that the rated voltage and current are compatible with the power supply and load requirements. To assist in using circuits of different voltages, the insulator can be rotated through 180°. This rotation prevents the insertion of a plug into a plug coupler or socket when voltage restrictions are applied.

- Ensure that an approved type and size of cable is used with the plug. The plugs are designed to accept cables from 26mm to 73mm diameter.



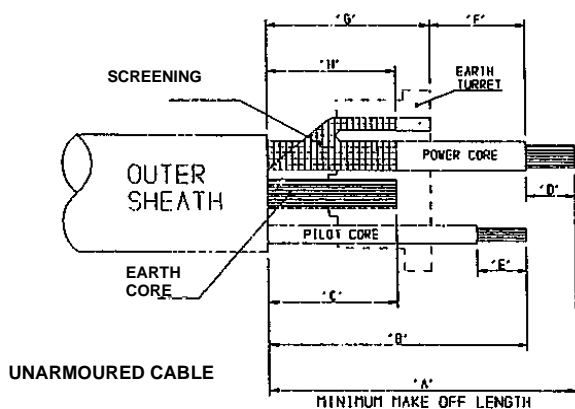
**Fig 1. Plug shown in conventional 1100 volt mode.**

**Installation – Screened Trailing Cables and PWA.**

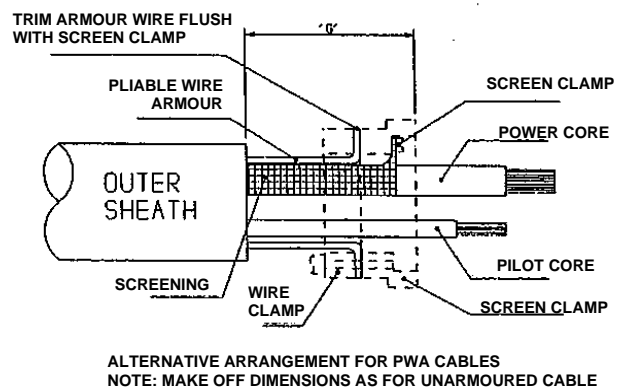
- Pass the Gland nut, Clamp washer, Sealing ring and Backing ring over the cable and well clear of the jointing area.
- Prepare cable to Table 1 and Fig. 2a or 2b.
- Unwind and secure the screening around the power cores to dimension 'H' and form individual 'ropes' ensuring that all the screens are fully intact.
- Pass the earth turret over the cores (with the turrets facing the outer sheath) to dimension 'G'. Secure the earth screens and earth core into the turret. See dimension 'C' for the earth core. The pilot is located in the bore marked 'P'.
- Remove the insulation from the power/pilot cores to dimensions 'D' & 'E' respectively.

| REF. No. | TYPE 7S OR 307S CABLE | TYPE 7, 7M, 307 OR 307M CABLE |
|----------|-----------------------|-------------------------------|
| A        | 144                   | 144                           |
| B        | 144                   | 109                           |
| C        | 52                    | 52                            |
| D        | 29                    | 29                            |
| E        | 29                    | 22                            |
| F        | 50                    | 50                            |
| G        | 65                    | 65                            |
| H        | 60                    | 60                            |

Table 1.



**Fig 2a**



**Fig 2b**

- Pass the insulator cap over the cores so that it butts against the earth turret.

- 7) Proceed to fit the power and pilot tubes i.e. crimping or by set screws. See table 2 for appropriate die sets. For further information on alternative die sets, refer to manufacturer.
- 8) Pass the insulator over the pins allowing the insulator cap to be inserted in the insulator to retain the contact tubes.
- 9) Position body complete with barrel secured with locking screw over the insulator aligning the flat of the insulator with the mating flat on the inside of the body. If correct the insulator should be flush with the end of the barrel.
- 10) Bring the gland body, gland nut, gland nut, clamp washer, clamping ring, backing ring back along the cable.
- 11) Screw the gland body into the plug body and secure with the locking screw
- 12) Locate the backing ring, sealing ring and clamp washer within the gland body. As a guide the end face of the Sealing Ring should be approximately 4mm below the end face of the Gland Body.
- 13) The gland nut can now be fed along the cable and screwed hand tight onto the Gland Body until no further rotation can be achieved. Please ensure that the cable is positioned centrally at all times into the sealing ring and Gland body. To assist in final tightening of the Gland nut, the Plug body can be gripped lightly around the 'D' profile of the body or alternatively by utilising the 2 flats on the Gland body. The gripping of this is intended an anti-torsion aid as over-tightening may distort the FLP paths. The Gland nut can be fully tightened with the aid of a strap or chain wrench of 300mm length until no further movement can be achieved. As a visible aid to assist in detecting any possible movement of the Gland Nut due to bending forces or distortion in the cable, a 'pop' mark can be made on the Gland Nut that aligns with the cast/stamped arrow on the Plug Body. **See also Maintenance and Inspection.**

| Description   | Victor Ref. No. | Type No. | Conductor size.          |
|---------------|-----------------|----------|--------------------------|
| Crimping Tool | MC003000        | HT45-E   |                          |
| Die Set       | MC003001        | ME19     | 95mm <sup>2</sup>        |
| Die Set       | MC003002        | ME17     | 70mm & 50mm <sup>2</sup> |
| Die Set       | MC003007        | ME29     | 120mm <sup>2</sup>       |
| Die Set       | MC003008        | ME9      | 35mm <sup>2</sup>        |

**Table 2.**

### **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.

It is highly recommended that the tightness of the gland nut is checked at regular intervals and also that the pop mark and arrow are aligned. If the gland nut has become loose or the marks are not in line, then the reason should be investigated. The gland nut must be further tightened as described in section 10. The gland nut can then be remarked with 2 pop marks and so on. If the amount of pop marks becomes confusing then the gland nut can be replaced.

### **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.



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*

# Attestation of Conformity

Attestation de Conformité  
Konformitätsbescheinigung



Victor Products Ltd  
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United Kingdom


## 500 AMP 3300 VOLTS MAX. RESTRAINED FLAMEPROOF PLUGS Certification number Baseefa02ATEX0132U I M2 EExd I

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   |
|--|---|
| <p>EN 50014 (1998)<br/>EN 50018 (2000)</p> <p>This equipment has been reviewed against the requirements of EN60079-0: 2018 and EN60079-1: 2014, in respect of the differences from the standards to which this certificate was issued; none of these differences affect this equipment.</p> <p>Dieses Gerät wurde hinsichtlich der Unterschiede zu den Standards, für die dieses Zertifikat ausgestellt wurde, mit den Anforderungen von EN60079-0: 2018 und EN60079-1: 2014 verglichen. Keiner dieser Unterschiede wirkt sich auf dieses Gerät aus.</p> <p>Cet équipement a été passé en revue contre les conditions d'EN60079-0 : 2018 et EN60079-1 : 2014, en ce qui concerne les différences des normes auxquelles ce certificat a été délivré ; aucune de ces différences n'affecte cet équipement.</p> | <p><b>Equipment and protective systems intended for use in potentially explosive atmospheres.</b><br/>This Attestation is valid for directive 2014/34/EU.</p> <p>Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen.<br/>Diese Bescheinigung gilt für die Richtlinie 2014/34 /EU.</p> <p>Appareils et systèmes de protection destinés a être utilisés en atmosphères explosibles.<br/>Cette Attestation est valable pour la directive 2014/34 /UE.</p> |
| <p>EN50082 (1992)<br/>EN55015 (1993)<br/>EN 60555-2 (1987)</p>   | <p><b>89/336 EEC: Electromagnetic Comptability</b></p> <p>89/336 EWG: Elektromagnetische Verträglichkeit</p> <p>89/336 CEE: Comptabilité électromagnétique</p>  |
| <p><b>Notified Body:</b><br/>CSA Group Netherlands B.V.<br/>Notified Body No. 2813</p>   |  <p>P. Devlin<br/>Operations Manager<br/>January 2024</p>   |

SERIAL NUMBER