



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Component intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 03ATEX9487U** Issue: **3**

4 Component: **Fuel Dispenser Nozzles Types ZVA Slimline, ZVA Slimline 2, ZVA Slimline 2 GR, ZVA 200 GR, ZVA 25**

5 Applicant: **ELAFLEX HIBY Tanktechnik GmbH & Co**

6 Address: **Schnackenburgallee 121  
22525 Hamburg  
USTID DE 187477901  
Germany**

7 This component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of a component intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 13012:2001

EN 1127:1997

EN 13463-1:2001

10 The sign 'U' is placed after the certificate number to indicate that the product assessed is a component and may be subject to further assessment when incorporated into equipment. Any special conditions for safe use are listed in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacture and supply of this component.

12 The marking of the component shall include the following:



II 1 G

C Ellaby  
Certification Officer

Project Number 22250  
C. Index 09

This certificate and its schedules may only be reproduced in its entirety and without change.

**Sira Certification Service**

Rake Lane, Eccleston, Chester, CH4 9JN, England

Tel: +44 (0) 1244 670900  
Fax: +44 (0) 1244 681330  
Email: [info@siracertification.com](mailto:info@siracertification.com)  
Web: [www.siracertification.com](http://www.siracertification.com)



**SCHEDULE**

**EC TYPE-EXAMINATION CERTIFICATE**

Sira 03ATEX9487U  
Issue 3

**13 DESCRIPTION OF COMPONENT**

These nozzles are intended to fit the delivery end of a suitable, liquid fuel, flexible hose and are formed from a common basic design. The nozzle body is constructed of cast and/or machined aluminium alloy; alternatively, it can be made from stainless steel. The body has separate spout and guard assemblies attached to it, fuel enters the rear of the body by means of a threaded entry, it then passes through a valve section to the delivery spout. The valve assembly comprises a main regulation valve (directly operated from the lever), an angle sensor arrangement and an over-fill feedback valve activated via a capillary extending to the nozzle delivery end.

The different design options are:

- ZVA Slimline– ‘Standard’ nozzle for flow rates up to 80 litres/min
- ZVA Slimline 2– ‘Standard’ nozzle for flow rates up to 80 litres/min
- ZVA 25– ‘High Flow’ nozzle with larger internal profiles for flow rates up to 140 litres/min
- ZVA 200 GR – ‘Vapour Recovery’ nozzle incorporating a vapour/fuel splitter connection, a diffuser and separate vapour recovery channels. An over-sleeve extends down the spout to recover vapour when delivery is in progress. These nozzles are designed for flow rates up to 45 litres/min.

**Variation 1** - This variation introduced the following changes:

- i. The introduction of a modified version of the existing ZVA Slimline 2, recognised as the **Slimline 2 GR** ‘Vapour Recovery’ Nozzle, this version incorporates a vapour/fuel splitter connection, a diffuser and separate vapour recovery channels. An over-sleeve extends down the spout to recover vapour when delivery is in progress. These nozzles are designed for flow rates up to 45 litres/min.

**Variation 2** - This variation introduced the following changes:

- i. The change of company name and address was changed from Hiby ZVA Produktionsgesellschaft GmbH / ELAFLEX Tankstellentechnik GmbH, Auf dem Stahl (Industriegebiet), D-58840, Plettenberg-Köbbinghausen, Germany to that currently shown.

**14 DESCRIPTIVE DOCUMENTS**

**14.1 Drawings**

Refer to Certificate Annexe.

**14.2 Associated Sira Reports and Certificate History**

Issue	Date	Report no.	Comment
0	19 September 2005	R53M10800A	The release of prime certificate.
1	24 September 07	R59M16394A	This Issue covers the following changes: <ul style="list-style-type: none"> <li>• All previously issued certification was rationalised into a single certificate, Issue 1, Issue 0 referenced above is only intended to reflect the history of the previous certification and has not been issued as a document in this format.</li> <li>• Replacement of drawings in Issue 0 with those listed in the certificate Annexe.</li> </ul>
2	31 July 2008	R59M18532A	The introduction of Variation 1.
3	07 December 2010	R22250A/00	The introduction of Variation 2.

This certificate and its schedules may only be reproduced in its entirety and without change.

**Sira Certification Service**

Rake Lane, Eccleston, Chester, CH4 9JN, England

Tel: +44 (0) 1244 670900  
Fax: +44 (0) 1244 681330  
Email: [info@siracertification.com](mailto:info@siracertification.com)  
Web: [www.siracertification.com](http://www.siracertification.com)



**SCHEDULE**

**EC TYPE-EXAMINATION CERTIFICATE**

Sira 03ATEX9487U  
Issue 3

**15 SPECIAL CONDITIONS FOR SAFE USE**

None

**16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)**

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

**17 CONDITIONS OF CERTIFICATION**

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

17.3 Each nozzle shall be subjected to the routine tests required by Table 6 of EN 13012:2001.

# Certificate Annexe

Certificate Number: Sira 03ATEX9487U  
Components: Fuel Dispenser Nozzles Types ZVA Slimline,  
ZVA Slimline 2, ZVA Slimline 2GR, ZVA 200  
GR, ZVA 25



Applicant: ELAFLEX HIBY Tanktechnik GmbH & Co

## Issue 0

The drawings have been removed from the certificate schedule and replaced with those listed under Issue 1.

## Issue 1

### Slimline & Slimline 2

Drawing No.	Sheet	Date	Description
1012599-49-00	1 of 2	26 Jan 07	ZVA Slimline automatic nozzle sectional arrangement & details
1012599-49-00	2 of 2	30 Jan 07	Parts list ZVA Slimline
2011671-49-00	1 of 2	30 Jan 07	Alternative spout with drip catcher and drip stop
2011671-49-00	2 of 2	30 Jan 07	Parts list for drip catcher and drip stop nozzle
4011559-49-00	1 of 1	26 Jan 07	ZVA Slimline marking details
4050003-49-00*	1 of 1	26 Jan 07	ZVA Slimline2 marking details
1050015-49-00*	1 of 1	29 Jan 07	Slimline/Slimline 2 differences

\* These drawings have been replaced by those dated 02 Jul 08 and 02 May 08 respectively at issue 2

### ZVA 25

Drawing No.	Sheet	Date	Description
1251658-49-00	1 of 2	25 Jan 07	ZVA 25 automatic nozzle - sectional arrangement & details
1251658-49-00	2 of 2	30 Jan 07	Parts list ZVA 25
4250044-49-00	1 of 1	25 Jan 07	ZVA 25 marking details

### ZVA200 GR

Drawing No.	Sheet	Date	Description
1021788-49-00	1 of 2	26 Jan 07	ZVA 200GR automatic nozzle sectional arrangement & details
1021788-49-00	2 of 2	30 Jan 07	Parts list ZVA 200 GR
4020344-49-00	1 of 1	30 Jan 07	ZVA 200GR marking details

## Issue 2

Drawing No.	Sheet	Date	Description
1040001-49-00	1 of 1	02 Jul 08	ZVA Slimline 2 GR automatic nozzle sectional arrangement & details
4041501-49-00	1 of 1	02 Jul 08	ZVA Slimline 2 GR marking details
4050003-49-01	1 of 1	02 Jul 08	ZVA Slimline 2 marking details
1050015-49-01	1 of 1	02 May 08	Slimline/Slimline 2 differences

**Issue 3** (No new drawings were introduced.)

This certificate and its schedules may only be reproduced in its entirety and without change.