



## 1 EU - TYPE EXAMINATION CERTIFICATE

2 Product or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU – Annex III

**3** EU - Type Examination

TRAC13ATEX0005X (incorporating variations V1 to V4)

Certificate No.:

4 Product: Valve Controller, VSD / VPX Series

5 Manufacturer: Imtex Controls Ltd...

6 Address: Unit 4, Tenth Avenue, Deeside Industrial Park, Deeside, Flintshire, CH5 2UA

**United Kingdom** 

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

8 Element Materials Technology, Notified Body number 2812, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential report TRA-011757-33-00A,

TRA-011757-33-01A & TRA-020980-33-00A.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN60079-0:2012/A11:2013

EN60079-1:2007

EN60079-11:2012

EN60079-31:2009

Except in respect of those requirements listed at section 18 of the schedule.

- 10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to specific conditions of use specified in the schedule to this certificate.
- 11 This EU TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- 12 The marking of this product shall include the following:

⟨ξχ⟩ II 2 G D

Ex d [ia] IIC T6 Gb Tamb =  $-*^{\circ}$ C to  $+60^{\circ}$ C

Ex d [ia] IIC T4 Gb Tamb =  $-*^{\circ}$ C to  $+85^{\circ}$ C

Ex tb IIIC T85°C Db IP6X Tamb = -\*°C to +60°C

Ex tb IIIC T135°C Db IP6X Tamb = -\*°C to +85°C

\*See Special Condition for Manufacture No.3

This certificate and its schedules may only be reproduced in its entirety and without change. This certificate is issued in accordance with the Element Materials Technology Ex Certification Scheme.

S.P. Wilson

S P Winsor, Certification Manager

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#### 13 SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE

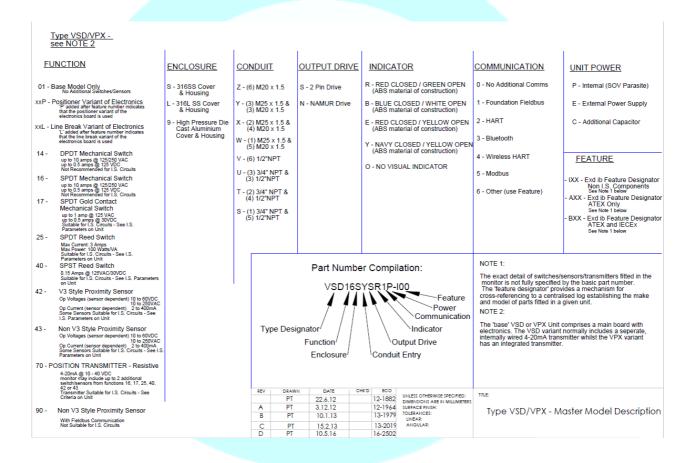
### 14 TRAC13ATEX0005X (incorporating variations V1 to V4)

### 15 Description of Product

The VSD / VPX series of Valve Controllers are designed to provide high accuracy feedback of valve position, with comprehensive diagnostics, for use with plant control systems and can be used in hazardous gas or dust atmospheres. The equipment is mounted to a valve via a mounting plate and mounting kit. A shaft on the bottom of is physically linked to the valve and passes into the flameproof IP6X enclosure. This shaft can be linked internally to a variety of internal components - micro switches, position transmitters, reed switches, proximity sensors etc depending on the end user requirements. This shaft can also be equipped to provide a physical 'open/closed' type of visual indication.

The proximity and position sensors are approved intrinsically safe components that can be fitted within the enclosure therefore with regard to gas atmospheres these are associated equipment.

There are many options available for the internal components that can be fitted but the enclosure is the same for all models. Two faces contain the entry ports into the enclosure and can be supplied as M20, M25, ½ or ¾ NPT threaded entries. A breakdown of the models covered by this approval is given below:



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### 16 Test report No. (associated with this certificate issue): N/A

### 17 Specific Conditions of Use

- 1. The equipment shall not be subjected to a build up of dust and is to be cleaned regularly to prevent a buildup of dust forming on the enclosure.
- 2. The intrinsically safe components shall be supplied by an ATEX approved barrier.

### 18 Essential Health and Safety Requirements (Directive Annex II)

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

<u>Clause</u> <u>Subject</u> None None

### 19 Drawings and Documents

The list of controlled manufacturer's drawings and documents is given in Appendix A to this schedule.

#### 20 Routine Tests

1. The Aluminium enclosures shall be subjected to a routine pressure test in accordance with EN 60079-1:2007, Clause 16.1 at a minimum pressure of 14.93 bar for at least 10 seconds. There shall be no permanent deformation of the joints, damage to the enclosure or leakage through the walls.

## 21 Specific Conditions for Manufacture

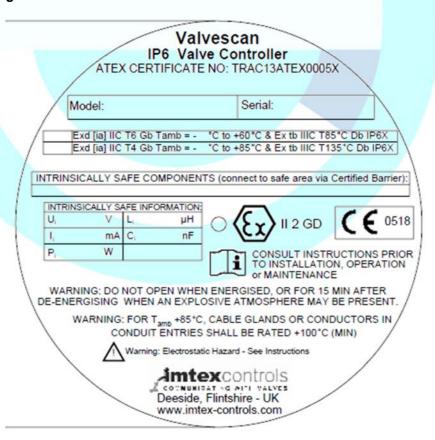
- 1. The input parameters markings for the intrinsically safe components shall be determined from their respective certificate numbers depending upon whether they are required for ATEX.
- 2. Care should be taken to ensure that the minimum and maximum temperature information on the intrinsically safe components used within the VSD/VPX valve controller is observed and satisfies the Tamb parameters and the T-class for the VSD/VPX units.
- 3. Note that minimum ambient markings will depend on approved intrinsically safe components, if fitted, as will the parameters. Units will be marked accordingly at the point of manufacture in line with their individual intrinsically safe equipment approvals. However minimum permitted ambient in all cases is -40°C.

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### 22 Photographs



### 23 Details of Markings



### **SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE**

### TRAC13ATEX0005X (incorporating variations V1 to V4)

#### 24 Details of Variations to this Certificate

This certificate is a consolidated certificate and reflects the latest status of the certification, including the following variations:

- Variation V1- Add Trade agent TRAC13AXTEX0029X
- Variation V2- Change of address and update of label.
- Variation V3- Addition of a new Aluminium enclosure, inclusion of 'ia' intrinsically safe and VPX models.
- Variation V4 This certificate was originally issued by Notified Body number 0891 under Directive 2014/34/EU. The technical file has been transferred to Element Notified Body number 2812 without further assessment or evaluation.

### 25 Notes to CE marking

In respect of CE Marking, Element Materials Technology accepts no responsibility for the compliance of the product against all applicable Directives in all applications.

### 26 Notes to this certificate

Element Materials Technology certification reference: NR-IMTQ-0002

Throughout this certificate, the date format yyyy-mm-dd (year-month-day) is used.

Notified Body number 2812 is the designation for Element Materials Technology Rotterdam BV.

In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variation certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

TA1: TRAC13ATEX0029X V2

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## APPENDIX A - LIST OF CONTROLLED MANUFACTURER'S DOCUMENTS

Title:	Drawing No.:	Rev. Level:	Date:
External Earthing Clamp	A100353	*	2008-09-22
Type VSD/VPX – Master model Description	A190281-X	D	2016-05-10
Title plate IECEx / ATEX Unit	A160190	F	2016-05-10
Intrinsically Safe Information – VSD/VPX	A190292	В	2016-05-10
VSD Unit – Housing	C100190	G	2013-02-28
VSD StSt Cover	C110150	С	2013-02-28
VDS/VPX General Layout	J100411	С	2016-05-10
VSD Shaft Assembly	J100418	Α	2012-12-03
Flamepath Gaps	J100419	В	2013-02-28
Volume Calculation for VSD/VPX Assenbly	J100420	А	2016-05-10
Termination Spacing in VSD Unit	J100421	Α	2012-10-03
VSD/VPX Exd Requirements	J100422	Α	2016-05-10
Installation, Operating and Maintenance VSD/VPX – IECEx/ATEX (Sheets 1 to 3)	VSD-IOM-004	\ - \\	2016-06-28
VSD Unit – w/ 2 x V3 Mech	VSD16SZSR0-I00	*	2013-01-16
Type VSD to IVC/IHP24 Cross Over- Master Model Description	A190281-VAL	*	2013-06-22