Translation

1 # EU-Type Examination Certificate Supplement 1

Change to Directive 2014/34/EU

2 **Equipment intended for use in potentially explosive atmospheres Directive 2014/34/EU**

3 EU-Type Examination Certificate Number: **BVS 16 ATEX E 006 X**

4 Product: **Ex blanking elements "Ex d" and "Ex t" type *.*****

5 Manufacturer: **VEGA Grieshaber KG**

6 Address: **Am Hohenstein 113, 77761 Schiltach, Germany**

7 This supplementary certificate extends EC-Type Examination Certificate No. BVS 16 ATEX E 006 X to apply to products designed and constructed in accordance with the specification set out in the appendix of the said certificate but having any acceptable variations specified in the appendix to this certificate and the documents referred to therein.

8 DEKRA Testing and Certification GmbH, Notified Body number 0158, 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 No. BVS PP 16.2015 EU.

9 The Essential Health and Safety Requirements are assured in consideration of:

EN IEC 60079-0:2018	**General requirements**
EN 60079-1:2014	**Flameproof enclosure "d"**
EN 60079-31:2014	**Protection by Enclosure "t"**

Except in respect of those requirements listed under item 18 of the appendix.

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix 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 the product shall include the following:

II 2G Ex db IIC Gb
II 1D Ex ta IIIC Da

DEKRA Testing and Certification GmbH
Bochum, 2019-06-18

Signed: Jörg-Timm Kilisch

Managing Director

DEKRA Testing and Certification GmbH, Handwerkstr. 15, 70565 Stuttgart, Germany
Certification body: Dinnendahlstr. 9, 44809 Bochum, Germany
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13 **Appendix**

14 **EU-Type Examination Certificate**

BVS 16 ATEX E 006 X
Supplement 1

15 **Product description**

15.1 **Subject and type**

Ex blanking elements "Ex d" and "Ex t" type *.*****

15.2 **Description**

With this supplement the certificate is changed to Directive 2014/34/EU.
(Annotation: 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. Supplementary 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.)

The Ex blanking elements type *.***** are manufactured from brass (nickel plated) or stainless steel. These devices are designed for blanking off unused threaded entries in enclosures, as appropriate for the type of protection. The blanking elements are manufactured in two different designs: blanking elements with a hexagonal head and blanking elements with a hexagon socket. The sizes and forms are shown in the following table:

Type	Thread type	Material	Design
2.35000	M20 x 1.5	Stainless steel	hexagonal head
2.27370	M20 x 1.5	Brass nickel-plated	hexagonal head
2.45535	M16 x 1.5	Stainless steel	hexagonal head
2.45536	M16 x 1.5	Brass nickel-plated	hexagonal head
2.30690	1/2 NPT	Stainless steel	hexagon socket
2.22084	1/2 NPT	Brass nickel-plated	hexagon socket
2.45537	3/8 NPT	Stainless steel	hexagon socket
2.45538	3/8 NPT	Brass nickel-plated	hexagon socket

Reasons for the supplement:

- Change to Directive 2014/34/EU
- Extension of the service temperature range
- Update to the current version of the standard

15.3 **Parameters**

Size of thread	M20 x 1.5	M16 x 1.5	3/8 – 18 NPT	1/2 - 14 NPT
Quality of thread	6g	6g	--	--
Thread length	12.8	12.8	11	13
Thread engaged	> 8	> 8	> 5	> 5

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16 **Report Number**

BVS PP 16.2015 EU, as of 2019-06-18

17 **Special Conditions for Use**

17.1 The maximum service temperature for Ex equipment blanking element type *.***** in type of protection Ex db is -60 °C to +100 °C.

17.2 The maximum service temperature for Ex equipment blanking element type *.***** in type of protection Ex ta with NBR P 584, RF sealing is -40°C to +100 °C.

17.3 The maximum service temperature for Ex equipment blanking element type *.***** in type of protection Ex ta with NBR 70 sealing is -40°C to +80 °C.

17.4 A non-metallic sealing ring shall be used on all units with metric threads to provide ingress protection of IP6X.

17.5 Maximum permitted reference pressure of the enclosures in type of protection Flameproof Enclosure "d" is 60 bar.

17.6 For the installation of the metric blanking elements in an enclosure in type of protection Flameproof Enclosure "d" a depth of engagement ≥ 8 mm must be ensured regarding to the undercut.

18 **Essential Health and Safety Requirements**

The Essential Health and Safety Requirements are covered by the standards listed under item 9. For this product the standard EN IEC 60079-0:2018 is equivalent to the harmonized standard EN 60079-0:2012 + A11:2013 in terms of safety.

19 **Drawings and Documents**

Drawings and documents are listed in the confidential report.

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA Testing and Certification GmbH
Bochum, 2019-06-18
BVS-Pe/Mu A20180569

Managing Director

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Translation

(1) EC-Type Examination Certificate

(2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC

(3) No. of EC-Type Examination Certificate: **BVS 16 ATEX E 006 X**

(4) Equipment: **Ex blanking elements "Ex d" and "Ex t" type *.*****

(5) Manufacturer: **VEGA Grieshaber KG**

(6) Address: **Am Hohenstein 113, 77761 Schiltach, Germany**

(7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this type examination certificate.

(8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in the Test and Assessment Report BVS PP 16.2015 EG.

(9) The Essential Health and Safety Requirements are assured by compliance with:

EN 60079-0:2012 + A11:2013	**General requirements**
EN 60079-1:2014	**Flameproof enclosure "d"**
EN 60079-31:2014	**Protection by enclosure "t"**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the appendix to this certificate.

(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to Directive 94/9/EC.
Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:

II 2G Ex db IIC Gb
II 1D Ex ta IIIC Da

DEKRA EXAM GmbH
Bochum, dated 2016-02-02

Signed: Simanski
Certification body

Signed: Dr. Eickhoff
Special services unit

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(13) Appendix to

(14) **EC-Type Examination Certificate**
BVS 16 ATEX E 006 X

(15) 15.1 Subject and type

Ex blanking elements "Ex d" and "Ex t" type *.*****

15.2 Description

The Ex blanking elements type *.***** are manufactured from brass (nickel plated) or stainless steel. These devices are designed for blanking off unused threaded entries in enclosures, as appropriate for the type of protection. The blanking elements are manufactured in two different designs: blanking elements with a hexagonal head and blanking elements with a hexagon socket. The sizes and forms are shown in the following table:

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2.45537	3/8 NPT	Stainless steel	hexagon socket
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15.3 Parameters

Size of thread	M20 x 1.5	M16 x 1.5	3/8 – 18 NPT	1/2 - 14 NPT
Quality of thread	6g	6g	--	--
Thread length	12.8	12.8	11	13
Thread engaged	> 8	> 8	> 5	> 5

(16) Test and Assessment Report

BVS PP 16.2015 EG as of 2016-02-02

(17) Special conditions for safe use

17.1 The service temperature is limited to -50 °C to +80 °C.

17.2 A non-metallic sealing ring shall be used on all units with metric threads to provide ingress protection of IP6X.

17.3 Maximum permitted reference pressure of the enclosures in type of protection Flameproof Enclosure 'd' is 60 bar.

17.4 For the installation of the metric blanking elements in an enclosure in type of protection Flameproof Enclosure 'd' a depth of engagement ≥ 8 mm must be ensured regarding to the undercut.

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DEKRA EXAM GmbH
44809 Bochum, 2016-02-02
BVS-Pe/Mu A 20150318

Certification body

Special services unit

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