

[1]

EC – TYPE EXAMINATION CERTIFICATE[2] Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC[3] EC-Type Examination Certificate Number: **EXA 14 ATEX 0059U** Issue: **1**[4] Component: **Breathing and draining valve**Type: **ECD1****[5] Manufacturer: **FEAM Srl.**[6] Address: **Via M. Pagano 3, I - 20090 Trezzano sul Naviglio (MI), ITALY**

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] Ex-Agencija, Notified Body number 2465 according to Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment or protective system intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential report number: **EXA 14CR054**

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

EN 60079-0:2012**EN 60079-1:2007****EN 60079-7:2007****EN 60079-31:2009**

except in respect of those requirements listed at item 18 of the Schedule.

[10] The sign 'U' is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

[11] This EC-Type Examination Certificate relates only to the design, examination and test of the specified component. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

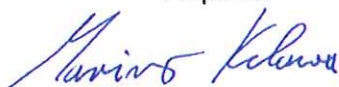
[12] The marking of the component shall include the following:

**II 2G Ex d IIC Gb****II 2G Ex e IIC Gb****II 2D Ex tb IIIC Db**

Date: 17.11.2014.

PB.14.TC.678/MK

Prepared:



Marino Kelava, dipl.ing.el.

Ex-Agencija
Department of equipment certification
Approved:
Stipo Đerek, dipl.ing.el.

Page: 1/2

[13] SCHEDULE**[14] EC - TYPE EXAMINATION CERTIFICATE No.: EXA 14 ATEX 0059U****[15] Description of Component**

The drain and breather valves are normally used in electrical enclosures to permit drain and breathing of the enclosure itself. Maximum free internal volume of enclosure in type of protection flameproof enclosure Ex 'd' is 80 dm³. The drain and breather valve are normally made of stainless steel or brass (which may be protected by nickel).

The equipment is intended to be used in an ambient temperature range -60°C up to +80°C.

[15.1] Documentation

| Title: | Drawing No.: | Rev. level: | Date: |
|-------------------------------|----------------|-------------|------------|
| Technical note | NT-14-420 | 0D | 2014-07-10 |
| Instruction for use | IU-14-420 | 0D | 2014-07-10 |
| Drawing of valve ECD1** | PNC-14-420-FG1 | 0 | 2014-07-10 |
| Drawing – Ratings and marking | PNC-14-420-FG2 | 0 | 2014-07-10 |

[16] Confidential Report No. EXA 14CR054**[16.1] Routine testing**

None.

[17] Schedule of Limitations 'U'

1. Service temperature range is -60°C to +80°C.
2. Maximum temperature recorded on 'Ex d' enclosure with free internal volume of 80 dm³ is 84,2°C for ambient temperature 80°C.
3. The valves can be installed on 'Ex d' enclosures with:
 - maximum internal free volume 80 dm³,
 - maximum reference pressure of 40 bar, and
 - for Groups IIA, IIB and IIC.

[18] Essential Health and Safety Requirements

Covered by the standards listed at item 9.



[1] **SUPPLEMENTARY EC – TYPE EXAMINATION CERTIFICATE**

[2] Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC

[3] Supplementary EC-Type Examination Certificate Number: **EXA 14 ATEX 0059U/1**

[4] Equipment or Protective System: **Breathing and draining valve**

Type: **ECD******

[5] Manufacturer: **FEAM Srl.**

[6] Address: **Via M. Pagano 3, I - 20090 Trezzano sul Naviglio (MI), ITALY**

[7] This supplementary certificate extends the certificate to apply to equipment or protective system designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule to this certificate and the documents therein referred to.

[8] The examination and test results are recorded in confidential report number: **EXA 15CR003**

[9] The marking of the equipment or protective system shall include the following:



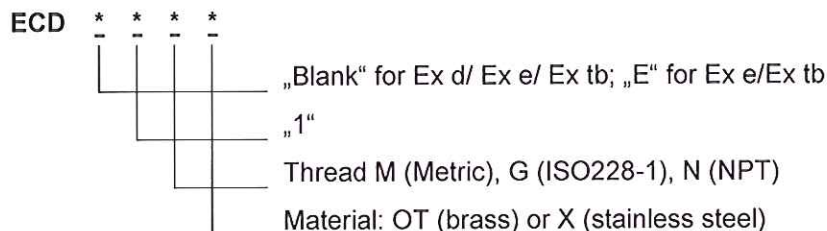
**II 2G Ex d IIC Gb
II 2G Ex e IIC Gb
II 2D Ex tb IIIC Db**

[10] Description of the supplement

This supplement covers the extension of applicability of ECD1** type when used with certified 'Ex d' enclosure, to include enclosures with free internal volume of up to 180 dm³ (previously only up to 80 dm³).

Furthermore, previous marking ECD1** has been changed to ECD**** (see type designation coding below).

Type designation code:




[10.1] Documentation

| Title: | Drawing No.: | Rev. level: | Date: |
|--------------------------------|----------------|-------------|------------|
| Technical note (7 pages) | NT-14-420 | 1A | 2015-02-15 |
| Instruction for use (11 pages) | IU-14-420 | 1A | 2015-02-15 |
| Schedule drawing (1 sheet) | PNC-14-420-FG1 | 1 | 2015-02-15 |
| Schedule drawing (1 sheet) | PNC-14-420-FG2 | 1 | 2015-02-15 |
| Schedule drawing (1 sheet) | PNC-14-420 | 0 | 2015-02-15 |

[11] Schedule of Limitations 'U' (in addition to original certificate)

1. Maximum temperature obtained during thermal test when monted to 'Ex d' enclosure with free internal volume of 180 dm³ is 84,2°C for ambient temperature 80°C.
2. The valves can be installed on 'Ex d' enclosures with maximum internal free volume of 180 dm³.

Date: 20.02.2015.

PB.14.TC.1257/MK

Prepared:



Marino Kelava, dipl.ing.el.

Ex-Agencija
Department of equipment certification
Approved:
Stipo Đerek, dipl.ing.el.



[1] **EU – TYPE EXAMINATION CERTIFICATE**

[2] Component Intended for use on/in an Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **EXA 14 ATEX 0059U** Issue: **2**

[4] Product: **Breathing and draining valve**

Type: **ECD******

[5] Manufacturer: **BARTEC F.N. S.R.L.**

[6] Address: **via M. Pagano 3, 20090 Trezzano sul Naviglio (MI) - Italy**

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

[8] FIDITAS Ltd., Notified Body number 2829 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 of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 22 CR 062**

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

EN IEC 60079-0:2018

EN 60079-1:2014

EN IEC 60079-7:2015/A1:2018

EN 60079-31:2014

except in respect of those requirements listed at item 18 of the Schedule.

[10] The sign 'U' is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

[12] The marking of the product shall include the following:



Ex db IIC Gb

Ex eb IIC Gb

Ex tb IIIC Db

Our ref.: 22.CRT.262

Date: 06.10.2022



Fiditas d.o.o.
ZAGREB

FIDITAS Ltd.
Certification department

Approved:

Marino Kelava, M.E.Eng.





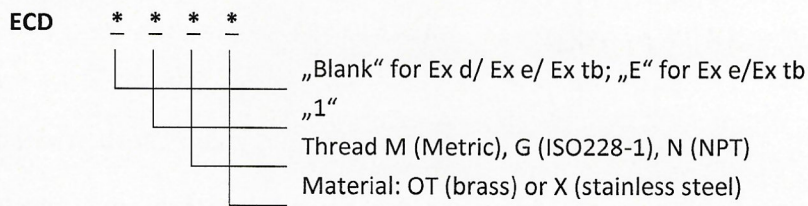
[13] SCHEDULE

[14] EU - TYPE EXAMINATION CERTIFICATE No.: EXA 14 ATEX 0059U

[15] Description of product

The drain and breather valves are used in electrical enclosures to permit drain and breathing of the enclosure itself. Maximum free internal volume of enclosure in type of protection flameproof enclosure 'd' on which the valves can be installed is 180 dm³. The drain and breather valves are normally made of stainless steel or brass (which may be protected by nickel).

Type designation code:



The equipment is intended to be used in an ambient temperature range -60°C up to +80°C

[16] Confidential Report No. FIDI 22 CR 062

[16.1] Routine testing

None

[17] Schedule of Limitations

1. Service temperature range is -60°C to +80°C.
2. Maximum temperature obtained during thermal test when mounted to 'Exd' enclosure with free internal volume of 180 dm³ is 84.2°C for ambient temperature 80°C.
3. The valves can be installed on 'Ex d' enclosures with:
 - maximum internal free volume of 180 dm³,
 - maximum reference pressure of 40 bar, and
 - for Groups IIA, IIB and IIC.

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.





[19] Drawings and Documents

| Title: | Drawing No.: | Rev. level: | Date: |
|---|-----------------|-------------|------------|
| Technical note | NT-14-420 | 2 | 15.09.2022 |
| Instruction for use | IU-14-420 | 2 | 15.09.2022 |
| Drain and breather valve ECD**** | PNC-14-420-FG01 | 2 | 15.09.2022 |
| Valves type ECDE*** | PNC-14-420-FG02 | 2 | 15.09.2022 |
| Ratings and markings drain and breather valve ECD**** | PNC-14-420 | 2 | 15.09.2022 |