



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx EXA 14.0004U Issue No: 0 Certificate history:
Issue No. 0 (2014-11-14)

Status: Current Page 1 of 3

Date of Issue: 2014-11-14

Applicant: FEAM S.r.l.
Via M. Pagano 3, I - 20090 Trezzano Sul Naviglio (MI)
Italy

Electrical Apparatus: Beathing and draining valve type ECD1**
Optional accessory:

Type of Protection: Flameproof enclosures "d"; Increased safety "e"; Protection by enclosure "t"

Marking:
Ex d IIC Gb
Ex e IIC Gb
Ex tb IIIC Db

Approved for issue on behalf of the IECEx
Certification Body:

Stipo Đerek

Position:

Director General

Signature:
(for printed version)

Date:

2014-11-14

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Agencija za prostore ugrožene eksplozivnom atmosferom (Ex-
Agencija)
Bastijanova bb
HR-10001 Zagreb
Croatia





IECEX Certificate of Conformity

Certificate No: IECEx EXA 14.0004U Issue No: 0
Date of Issue: 2014-11-14 Page 2 of 3
Manufacturer: FEAM S.r.l.
Via M. Pagano 3, I - 20090 Trezzano Sul Naviglio (MI)
Italy

Additional Manufacturing
location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2006-07 Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[HR/EXA/ExTR14.0012/00](#)

Quality Assessment Report:

[IT/CES/QAR09.0003/04](#)



IECEx Certificate of Conformity

Certificate No: IECEx EXA 14.0004U

Issue No: 0

Date of Issue: 2014-11-14

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

These breathing and draining devices (valves) are normally used in enclosures to permit for breathing and draining 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).

Schedule of limitation for type of protection Ex d:

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.

CONDITIONS OF CERTIFICATION: NO





IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx EXA 14.0004U Issue No: 1 Certificate history:
Issue No. 1 (2015-02-20)
Status: Current Page 1 of 4 Issue No. 0 (2014-11-14)
Date of Issue: 2015-02-20
Applicant: FEAM S.r.l.
Via M. Pagano 3, I - 20090 Trezzano Sul Naviglio (MI)
Italy
Electrical Apparatus: Beathing and draining valve type ECD****
Optional accessory:
Type of Protection: Flameproof enclosures "d"; Increased safety "e"; Protection by enclosure "t"
Marking:
Ex d IIC Gb
Ex e IIC Gb
Ex tb IIIC Db

Approved for issue on behalf of the IECEx
Certification Body:

Stipo Đerek

Position:

Director General

Signature:
(for printed version)

Date:

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Certificate issued by:

Agencija za prostore ugrožene eksplozivnom atmosferom (Ex-
Agencija)
Bastijanova bb
HR-10001 Zagreb
Croatia





IECEX Certificate of Conformity

Certificate No: IECEX EXA 14.0004U Issue No: 1
Date of Issue: 2015-02-20 Page 2 of 4
Manufacturer: FEAM S.r.l.
Via M. Pagano 3, I - 20090 Trezzano Sul Naviglio (MI)
Italy

Additional Manufacturing
location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2006-07 Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

HR/EXA/ExTR14.0012/00 HR/EXA/ExTR14.0012/01

Quality Assessment Report:

IT/CES/QAR09.0003/04



IECEX Certificate of Conformity

Certificate No: IECEX EXA 14.0004U

Issue No: 1

Date of Issue: 2015-02-20

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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

Schedule of limitation for type of protection Ex d:

1. Service temperature range is -60°C to +80°C.
2. Maximum temperature recorded on 'Ex d' 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 180 dm³,
 - maximum reference pressure of 40 bar, and
 - for Groups IIA, IIB and IIC.

CONDITIONS OF CERTIFICATION: NO



IECEX Certificate of Conformity

Certificate No: IECEX EXA 14.0004U

Issue No: 1

Date of Issue: 2015-02-20

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

This addendum 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****.



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX EXA 14.0004U** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 Issue 1 (2015-02-20)
Date of Issue: 2022-11-02 Issue 0 (2014-11-14)
Applicant: **BARTEC F.N. S.R.L.**
Via M. Pagano, 3
I - 20090 Trezzano sul Naviglio (MI)
Italy
Ex Component: Beathing and draining valve type ECD****

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Flameproof enclosures "db"; Increased safety "eb"; Protection by enclosure "tb"**

Marking: **Ex db IIC Gb**
Ex eb IIC Gb
Ex tb IIIC Db

Approved for issue on behalf of the IECEx
Certification Body:

Marino Kelava



Fiditas d.o.o.
ZAGREB

Position:

Certification Signatory

Signature:
(for printed version)

Date:
(for printed version)

2022-11-02

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Fiditas Ltd
Slavka Tomerlina 44
HR-10361 Zagreb-Sesvete
Croatia



Fiditas
explosion safety solutions



IECEX Certificate of Conformity

Certificate No.: **IECEX EXA 14.0004U** Page 2 of 4

Date of issue: 2022-11-02 Issue No: 2

Manufacturer: **BARTEC F.N. S.R.L.**
Via M. Pagano, 3
I - 20090 Trezzano sul Naviglio (MI)
Italy

Manufacturing locations: **FENEX S.r.l.**
Via Carducci 16, I - 34070 Moraro
(GO)
Italy

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The component and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the component listed has successfully met the examination and test requirements as recorded in:

Test Reports:

HR/EXA/ExTR14.0012/00

HR/EXA/ExTR14.0012/01

HR/FIDI/ExTR22.0019/00

Quality Assessment Reports:

IT/CES/QAR09.0003/14

IT/CES/QAR12.0006/09



IECEX Certificate of Conformity

Certificate No.: **IECEX EXA 14.0004U**

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Date of issue: 2022-11-02

Issue No: 2

Ex Component(s) covered by this certificate is described below:

These breathing and draining devices (valves) are normally used in enclosures to permit for breathing and draining of the enclosure itself. Maximum free internal volume of enclosure in type of protection flameproof enclosure Ex 'db' is 180 dm³. The drain and breather valve are normally made of stainless steel or brass (which may be protected by nickel).

SCHEDULE OF LIMITATIONS:

1. Service temperature range is -60°C to +80°C.
2. Maximum temperature recorded on 'Ex db' 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 db' enclosures with:
 - maximum internal free volume 180 dm³,
 - maximum reference pressure of 40 bar, and
 - for Groups IIA, IIB and IIC.



IECEX Certificate of Conformity

Certificate No.: **IECEX EXA 14.0004U**

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Date of issue: 2022-11-02

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Extension includes:

- update of the certificate to new editions of the standards,
- change of the name of the applicant and manufacturer,
- added Fenex Srl as additional manufacturing location,
- added option of brands "BARTEC FEAM" or "BARTEC NASP" in the marking with the sentence "manufactured by BARTEC FN".