



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 PRE 14.0036X

Issue No: 1

Certificate history:

Issue No. 1 (2018-03-19)

Issue No. 0 (2015-04-16)

Status: **Current**

Page 1 of 4

Date of Issue: **2018-03-19**

Applicant: **Servi AS**
Rasmus Solbergs vei 1,
1402 Ski
Norway

Equipment: **Onboard profibus amplifier twin solenoid, OPAT**

Optional accessory:

Type of Protection: **Ex eb, ib, mb**

Marking:
Ex eb ib mb IIC T4 Gb
Tamb : -40°C to +55°C

*Approved for issue on behalf of the IECEx
Certification Body:*

Bjørn Spongsveen

Position:

Certification Manager

*Signature:
(for printed version)*

Date:

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](#).

Certificate issued by:

DNV GL Nemko Presafe AS
Veritasveien 3
1363 Høvik
Norway





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Certificate No: IECEX PRE 14.0036X Issue No: 1

Date of Issue: 2018-03-19 Page 2 of 4

Manufacturer: **Servi AS**
Rasmus Solbergs vei 1,
1402 Ski
Norway

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 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 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-18 : 2014 Edition:4.0	Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
IEC 60079-7 : 2017 Edition:5.1	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:

[NO/PRE/ExTR14.0032/00](#) [NO/PRE/ExTR14.0032/01](#)

Quality Assessment Report:

[NO/PRE/QAR15.0002/01](#)



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Certificate No: IECEX PRE 14.0036X

Issue No: 1

Date of Issue: 2018-03-19

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

OPAT is an electromechanical control unit for proportional directional and pressure relief valves.

Units with model codes BTN or SDE feature a built-in solenoid, whereas units with model code XS has a separate connection housing for an external solenoid.

The main enclosure is made of aluminium. Threaded entries can be used for connection of certified cable glands. Inside there are certified Ex-e terminals (screw or cage type) for connection to the encapsulated electronics, and an Ex ib switch. The built-in solenoid (BTN, SDE) is permanently connected to OPAT enclosure, and internal parts are encapsulated.

Model XS have a separate Ex-e connection compartment to facilitate for connection of an external solenoid. The power consumption of external solenoid must not exceed 800 mA.

Type Identification

OPAT
BTN (bottom-mounted solenoid)
SDE (side-mounted solenoid)
XS (No solenoid, connection compartment for external solenoid)

Electrical Data

24 V DC +10,- 15 %, Max current: 10 A.

Degrees of protection (IP Code)

IP67

Certificates for Phoenix Ex-e terminals:

KEMA 00 ATEX 2053U / IECEX KEM 07.0023U, KEMA 07 ATEX 0193U / IECEX KEM 07.0057U

SPECIFIC CONDITIONS OF USE: YES as shown below:

Only use a certified SELV DC supply with a maximum output voltage of 24VDC +10%.



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Certificate No: IECEX PRE 14.0036X

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Date of Issue: 2018-03-19

Page 4 of 4

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

- Updated standards and minor document changes.