



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 15.0034X Issue No: 0 Certificate history:
Issue No. 0 (2016-05-31)

Status: **Current** Page 1 of 3

Date of Issue: **2016-05-31**

Applicant: **Servi AS-Rissa**
7100 Rissa
Norway

Electrical Apparatus: **Flameproof enclosures for sensores on cylinders accumulators and dampers**

Optional accessory:

Type of Protection: **Ex d**

Marking: Ex d IIB T4 Gb, T_{amb} -20°C to +60°C

Approved for issue on behalf of the IECEx
Certification Body:

Asle Kaastad

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](http://www.iecex.com).

Certificate issued by:

DNV Nemko Presafe AS
Gautadalleen 30
P.O.Box 73 Blindern
0314 Oslo
Norway





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Manufacturer: **Servi AS**
7100 Rissa
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 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 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1 : 2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:6

*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/ExTR15.0033/00](#)

Quality Assessment Report:

[NO/PRE/QAR16.0024/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The equipment consists of three types of flameproof enclosures for sensors on cylinders, accumulators and dampers, "Area1", "Area 2" and "Area 3". The enclosures made from carbon steel are used to protect various types of sensors or switches on cylinders, accumulators and dampers.

Equipment is delivered equipped with proper cables and certified cable glands.

Parts are fixed together by means of special fasteners (fastening screws), minimum yield strength is 630 N/mm².

The housing type "Area 1" can vary in length up to 2 meters and diameter up to 320 mm. The length/diameter ratio must always be less than 6.25. The type "Area2" can vary in length up to 170 mm inside length. The wall thickness must be at least 5 mm for "Area 1" types, and 8 mm for "Area 2" types. The depth of engagement of the gland threads must be ≥ 8 mm.

The protection depends on that the measuring side of the sensors in "Area1", "Area2" and "Area 3" are mounted in a safe zone, i.e. in oil or other fluid as intended with maximum temperature up to +80°C.

The free end of the permanently connected cable shall be protected by type of protection listed in clause 1 of 60079-0.

Type designation

Area1, "Area 2" and "Area 3".

Electrical Data

Voltage: 10V DC

Current: 20 mA

Ambient temperature

-20°C to +40°C

CONDITIONS OF CERTIFICATION: YES as shown below:

Repairs of the "Area 2" flameproof joints must be made in compliance with the structural specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in tables 1 and 2 of IEC 60079-1.

The cable and cable gland are suitable only for fixed applications and the cable must be effectively clamped and cleated to prevent pulling and twisting.