EU-Type Examination Certificate

[2] EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 2014/34/EU

[3] **EU-Type Examination Certificate Number:** **Presafe 14 ATEX 5271X** **Issue 1**

[4] **Product:** **Onboard profibus amplifier twin solenoid, OPAT**

[5] **Manufacturer:** **Servi AS**

[6] **Address:** **Rasmus Solbergs vei 1**
1402 Ski
Norway

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

[8] **DNV GL Nemko Presafe AS, notified body number 2460, 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 confidential reports listed in section 16.

[9] **Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 60079-0:2012/A11:2013, EN 60079-7:2015, EN 60079-11:2012 and EN 60079-18:2015**

[10] **If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule 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 2 G Ex eb ib mb IIC T4 Gb Tamb : -40°C to +55°C

Date of issue: 2018-03-19

Bjørn Spongsveen
For DNV GL Nemko Presafe AS
The Certificate has been digitally signed.
See www.presafe.com/digital_signatures for more info

NORSK AKKREDITERING
PROD 021

This certificate may only be reproduced in its entirety and without any change, schedule included.

DNV GL Nemko Presafe AS, Veritasveien 3, 1363 Høvik, Norway

EU-Type Examination Certificate

[13] **Schedule**

[14] **EU-TYPE EXAMINATION CERTIFICATE No.:** **Presafe 14 ATEX 5271X** Issue 1

[15] **Description of Product**

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

Routine tests

- Each piece of 'm' equipment shall be subjected to a visual inspection according to clause 9.1 of EN 60079-18

- A dielectric strength test shall be carried out according to clause 7.1 (6.1) of EN 60079-7. (This will also cover the requirements for routine dielectric strength test according to clause 9.2 of EN 60079-18)

DNV GL Nemko Presafe AS, Veritasveien 3, 1363 Høvik, Norway

[16] Report No.: 44260801

[17] Specific Conditions of Use

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

[18] Essential Health and Safety Requirements

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 9

[19] Drawings and documents

Number	Title	Rev.	Date
1388695	All housing designs – general arrangement	A2	2018-03-16
1388045	Document overview - electronics	A1	2014-09-10

[20] Certificate History

Issue	Description	Issue date	Report no.
0	Original issue	2014-09-26	44260801
1	Updated standards, minor document update	2018-03-19	44260801 issue 1

END OF CERTIFICATE

DNV GL Nemko Presafe AS, Veritasveien 3, 1363 Høvik, Norway