



DET NORSKE VERITAS

EC-TYPE EXAMINATION CERTIFICATE

- [2] **EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 94/9/EC**
- [3] EC-Type Examination Certificate Number: **DNV 13 ATEX 2397X**
- [4] Equipment or Protective System: **Flameproof Solenoid Coil**
- [5] Applicant – Manufacturer or Authorized representative: **NUTORK CORP.**
- [6] Address **No. 10, Lane 899, Zhuguang Road, Qingpu Area, 201702, P. R. China**
- [7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV, notified body number 0575 in accordance with Article 9 of 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 and protective systems 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 14.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0: 2009, EN 60079-1:2007
- [10] If the sign “X” is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- [11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protected system. If applicable, further requirements of this Directive apply to the manufacturer and supply of this equipment or protective system.
- [12] The marking of the equipment or protective system shall include the following:

 **II 2 G Ex d IIC T6 Gb -20°C ≤ Tamb ≤ +60°C**

Høvik, 2013-02-19
for Det Norske Veritas AS

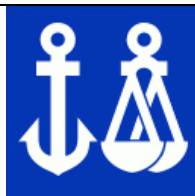
Geir Hørthe
Certification Manager



Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.

The digitally signed and electronically distributed document is the original and valid certificate. Ref.: www.dnv.com/digitalsignatures

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 300.000. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



[13]

Schedule

[14] EC-TYPE EXAMINATION CERTIFICATE No.: DNV 13 ATEX 2397X

Certificate History

Revision	Description	Report no.	Issue date
-	Original certificate	2013-430813	2013-02-19

[15] Description of Equipment or Protective System

The SV series of flameproof solenoid coil comprised an Ex d enclosure with a single flameproof compartment. A field wiring terminal and a coil is built inside of the enclosure. The enclosure may be of stainless steel or aluminum. There is M20X1.5 entry hole on the enclosure; the entry hole is installed with appropriate cable glands which have obtained ATEX certificates according to instruction manual.

Type Identification

SV	XX	-	XXX
Code of Rating			
024:24VDC -3.5W			
110:110VAC/4VA 50/60HZ			
120:120VAC/4VA 50/60HZ			
220:220VAC/4VA 50/60HZ			
240:240VAV/4VA 50/60HZ			
Code of enclosure material			
C4: stainless steel enclosure			
C5:Aluminum enclosure			
SV:Code of flameproof solenoid Coil			

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[16] Project No.: PRJC-430813-2012-PRC-CHN

Descriptive Documents

Number	Title	Rev.	Date
ALC210P1C4-00	Assembly drawing (Sheet 1 of 2)	-	2011.09.24
ALC210P1C4-00	Assembly drawing (Sheet 2 of 2)	-	2011.09.24
ALC210P1C5-00	Assembly drawing (Sheet 1 of 2)	-	2011.09.24
ALC210P1C5-00	Assembly drawing (Sheet 2 of 2)	-	2011.09.24
ALVC4-01	Seal Cover	-	2010.03.17
ALVC5-01	Seal Cover	-	2010.03.17
ALVC4-02	Body	-	2011.09.24
ALVC5-02	Body	-	2011.09.24
ALVC4-00--1	Fixed core (combination of parts)	-	2011.09.24
ALV4-09	Through Cover	-	2011.09.24
ALV4-11	Sleeve	-	2010.03.17
ALV4-12	Fixed core	-	2011.09.24
SVC4-18	Label	-	2012.03.05

Routine tests

- Each Ex-d enclosure must be routine pressure tested with 20 bars for 60 seconds according to clause 16 of EN/IEC 60079-1.

[17] Special Conditions for Safe Use

- Repairs of the 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 EN/IEC 60079-1.

[18] Essential Health and Safety Requirements

See part 9 of this certificate

END OF CERTIFICATE

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 300.000. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.