(1) EU-TYPE EXAMINATION CERTIFICATE

(2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number

TÜV 17 ATEX 8048 X Issue: 00

(4) Equipment: **Solenoid valve, type 3969-810 ********************

(5) Manufacturer: **SAMSON AKTIENGESELLSCHAFT**
(6) Address: **Weismüllerstraße 3**
60314 Frankfurt am Main, Germany

(7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which 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 atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report 557/Ex8047.01/17

(9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN 60079-0:2012+A11:2013 **EN 60079-7:2015+A1:2018** **EN 60079-15:2010**

EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.

(12) The marking of the equipment shall include the following:

II 3 G Ex ec IIC T4/T6 Gc or **II 3 G Ex nA IIC T4/T6 Gc**

II 2 D Ex tb IIIC T85°C Db

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz Cologne, 2019-03-12

Dipl.-Ing. Klauspeter Graffi

This EU-Type Examination Certificate without signature and stamp shall not be valid.
This EU-Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln
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(13) Annex

(14) # EU Type Examination Certificate

TÜV 17 ATEX 8048 X Issue: 00

(15) Description of equipment

15.1 Equipment and type:

Solenoid Valve type 3969-810 **********
Where * is not Ex relevant.

15.2 Description

The Solenoid Valve type 3969 converts binary electrical input signals into pneumatic output signals. The Solenoid Valves are used for controlling pneumatic actuators. It is an electrical apparatus with type of protection Ex ec (or nA) Gc and tb Db. It can be used in hazardous areas of zone 2 and up to zone 21.

Model code:
3969-810 **********
Where * is not Ex relevant.

15.3 Technical Data

Electrical data:
U_N = 14.....24V

Environmental data:

For types of protection ec (or nA) Gc:

Gas group	Temperature class	Ambient temperature
IIC	T4	-45 °C ≤ Ta ≤ +80 °C
	T6	-45 °C ≤ Ta ≤ +70 °C

For Type of protection tb Db:

Dust group	Temperature class	Ambient temperature
IIIC	T85°C	-45 °C ≤ Ta ≤ +80 °C

(16) Test-Report No. 557/Ex8047.01/17

(17) Special Conditions for safe use

1. The solenoid valve has to be included into the equipotential bonding system.

2. Only cables with a suitable temperature range (T_{amax} + 5K) are allowed to be mounted to the device.

3. Only cable glands and blind plugs with suitable type of protection and temperature range (T_{amax} + 5K) are allowed to be mounted to the device.

4. If used as ec (or nA) equipment: The equipment shall only be used in an area of not more than pollution degree 2, as defined in IEC 60991-1

5. If used as ec (or nA) equipment: A transient protection shall be provided that is set at a level not exceeding 119V

(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz Cologne, 2019-03-12

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