



(1) EC-TYPE-EXAMINATION CERTIFICATE (Translation)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**

(3) EC-type-examination Certificate Number:

PTB 01 ATEX 2020



(4) Equipment: Solenoid, type 11G52

(5) Manufacturer: Eugen Seitz AG

(6) Address: Wetzikon 3, Switzerland

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

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment 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 the confidential report PTB Ex 01-21076.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014:1997 + A1 + A2

EN 50020:1994

(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 EC-type-examination Certificate relates only to the design and construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

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

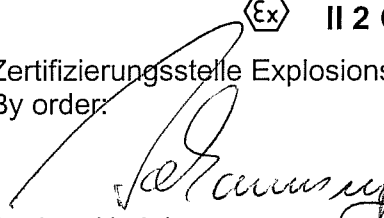


II 2 G EEx ia IIC T6 or EEx ia IIC T5

Zertifizierungsstelle Explosionsschutz

Braunschweig, March 26, 2001

By order:


Dr.-Ing. U. Johannsmeyer
Regierungsdirektor



(13)

SCHEDULE

(14)

EC-TYPE-EXAMINATION CERTIFICATE PTB 01 ATEX 2020

(15) Description of equipment

The solenoid of type 11G52 is used for valve actuation. The solenoid is designed for connection to intrinsically safe circuits of categories ia and ib with the following limiting values:

No-load voltage $U_i \leq 32 \text{ V}$

Short-circuit current $I_i \leq 200 \text{ mA}$

Max. power $P_i \leq 1.2 \text{ W}$

The solenoid inductivities and capacities have been rendered ineffective ($L_i \approx 0$, $C_i \approx 0$).

The solenoid temperature class is determined by the ambient temperature.

$T_6 = -30 \text{ °C to } +50 \text{ °C}$

$T_5 = -30 \text{ °C to } +65 \text{ °C}$

When employed in group IIC, the solenoid shall carry the additional note "to be cleaned with a moist cloth only".

(16) Test report PTB Ex 01-21076

(17) Special conditions for safe use

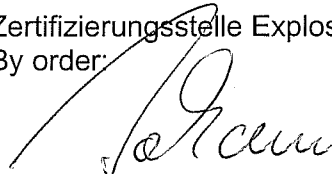
Does not apply.

(18) Essential health and safety requirements

Covered by the above standards.

Zertifizierungsstelle Explosionsschutz

By order:


Dr.-Ing. U. Johannsmeyer
Regierungsdirektor



Braunschweig, March 26, 2001


English Translation

1st SUPPLEMENT

according to Directive 94/9/EG Annex III Point 6

to EC-Type-Examination Certificate PTB 01 ATEX 2020

Equipment: Solenoid type 11G52

Marking:  II 2 G EEx ia IIC T6 or EEx ia IIC T5

Manufacturer: Eugen Seitz AG

Address: Spitalstrasse 204
8623 Wetzikon 3, Switzerland

Description of the supplements and changes

The layout of the assembled circuit board has been changed, in addition a tantalum capacitor is inserted in parallel to resistor R4. The printed circuit boards are treated with solder resist.

Test Report PTB Ex 02-22049

Test laboratory explosion protection
By order:

Braunschweig, 24. June 2002

Dipl.-Ing. Wilkens

English Translation

2nd SUPPLEMENT

according to Directive 94/9/EC Annex III Point 6

to EC-Type-Examination Certificate PTB 01 ATEX 2020

Equipment: Solenoid type 11G52

Marking:  II 2 G EEx ia IIC T6 or EEx ia IIC T5

Manufacturer: Eugen Seitz AG

Address: Spitalstrasse 204
8623 Wetzikon 3, Switzerland

Description of the supplements and changes

The solenoid type 11G52 may be also produced according to the test documents listed in the test report. The changes concern printed circuit board and moulding compound.
All other statements of the EC-type-examination certificate and of the test report PTB Ex 01-21076 are unchanged valid.

Test Report PTB Ex 03-23258

Test laboratory explosion protection
By order:

Braunschweig, 29. September 2003

Dr.-Ing. U. Johannsmeyer


3. SUPPLEMENT

according to Directive 94/9/EC Annex III.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 01 ATEX 2020

(Translation)

Equipment: Solenoid, type 11G52

Marking:  II 2 G EEx ia IIC T6 or EEx ia IIC T5

Manufacturer: Eugen Seitz AG

Address: Spitalstrasse 204, 8623 Wetzikon 3, Switzerland

Description of supplements and modifications

The solenoid, type 11G52 may in future also be manufactured in accordance with the test documents listed in the test report.

The changes concern the assessment of the the test documents according to EN 60079-0 and EN 60079-11.

In future the equipment will be marked as follows:

 II 2 G Ex ia IIC T6 or Ex ia IIC T5

All other data remain unchanged.

Applied standards

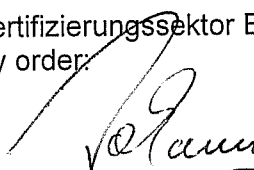
EN 60079-0:2006

EN 60079-11:2007

Test report: PTB Ex 08-28265

Zertifizierungssektor Explosionsschutz

By order:



Dr.-Ing. U. Johannsmeyer
Direktor und Professor



Braunschweig, November 13, 2008

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