



(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 2129 X**



(4) Equipment: Solenoids type 2A52W and type 2C52W

(5) Manufacturer: Eugen Seitz AG

(6) Address: Spitalstrasse 204; 8623 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 01-21273.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN 50014: 1997 + A1 + A2    EN 50019:1994    EN 50028:1987**

(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 em II T4 resp. T6**

Zertifizierungsstelle Explosionsschutz  
By order:

Braunschweig, September 26, 2001

Dr.-Ing. U. Johannsmeyer  
Regierungsdirektor



## SCHEDULE

(13)

(14) **EC-TYPE-EXAMINATION CERTIFICATE PTB 01 ATEX 2129 X**

(15) Description of equipment

The solenoid function is to operate valves, the breaking surge voltage is limited by means of a varistor or a diode, which is subject to the type of voltage used.

### Elektrische Daten

Type designation	2A52W
Type of current	direct current
Nominal voltage	6 V ... 250 V
Nominal current	0,072 A ... 3,0 A
Steady-state active power	17 W
Max. perm. Ambient temperature	40 °C
Temperature class	T4
Dimensions of the valve block	54 mm x 38 mm x 38 mm
Material of the valve block	St
Medium temperature	max. 40 °C
Single mounting	yes
Group mounting	no
Type designation	2A52W
Type of current	direct current
Nominal voltage	6 V ... 250 V
Nominal current	0,03 A ... 1,25 A
Steady-state active power	7,5 W
Max. perm. Ambient temperature	40 °C
Temperature class	T6
Dimensions of the valve block	54 mm x 38 mm x 38 mm
Material of the valve block	St
Medium temperature	max. 40 °C
Single mounting	yes
Group mounting	no
Type designation	2C52W
Type of current	alternating current
Nominal voltage	12 V ... 250 V
Nominal current	0,108 A ... 2,250 A
Steady-state active power	16 W
Max. perm. Ambient temperature	40 °C
Temperature class	T4
Frequency	48 Hz...62 Hz
Dimensions of the valve block	54 mm x 38 mm x 38 mm
Material of the valve block	St
Medium temperature	max. 40 °C
Single mounting	yes
Group mounting	no

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EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

Type designation	2C52W
Type of current	alternating current
Nominal voltage	12 V ... 250 V
Nominal current	0,04 A ... 0,833 A
Steady-state active power	7 W
Max. perm. Ambient temperature	40 °C
Temperature class	T6
Frequency	48 Hz...62 Hz
Dimensions of the valve block	54 mm x 38 mm x 38 mm
Material of the valve block	St
Medium temperature	max. 40 °C
Single mounting	yes
Group mounting	no

(16) Test report PTB Ex 01-21273

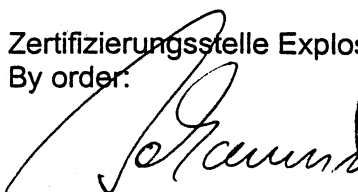
(17) Special conditions for safe use

1. A fuse corresponding to its rated current (max.  $3 \cdot I_{\text{rat}}$  according IEC 60127-2-1) or a motor protecting switch with short-circuit and thermal instantaneous tripping (set to rated current) shall be connected in series to each solenoid as short circuit protection. For very low currents or the solenoid the fuse of lowest current value according to the indicated IEC standard will be sufficient. The fuse may be accommodated in the associated supply unit or shall be separately arranged. The rated voltage to the fuse shall be equal to or greater than the stated rated voltage of the magnet coil. The breaking capacity of the fuse-link shall be as high as or higher than the maximum expected short circuit current at the location of the installation (usually 1500 A).
2. A maximum permissible ripple of 20 % is valid for all magnets of direct-current design.
3. The solenoids of type 2A52W and type 2C52W may only be operated with the associated valve. A bigger valve block with improved thermal conductivity may be assembled at any time.
4. The solenoids were only qualified for single mounting, group mounting respectively batterie mounting is not allowed.
5. For the application of the solenoids in the individual groups the danger of electrostatic charge is to be taken into consideration. For group IIC the additional plate is absolutely necessary.

(18) Essential health and safety requirements

met by standards mentioned above

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