



(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 09 ATEX 2001

(4) Equipment: Valve solenoid, type 1262

(5) Manufacturer: nass magnet GmbH

(6) Address: Eckenerstraße 4-6, 30179 Hannover, Germany

(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 09-28302.

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

EN 60079-0:2006

EN 60079-11:2007

EN 61241-1:2004

(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, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

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



**II 2 G Ex ia IIC T6 or II 2 G Ex ia IIB T4 or
II 2 D Ex tD A21 IP65 T80 °C or II 2 D Ex tD A21 IP65 T130 °C**

Zertifizierungssektor Explosionsschutz

Braunschweig, January 16, 2009

By order:

Dr.-Ing. U. Johannsmeyer
Direktor und Professor



SCHEDULE

(13)

(14) **EC-TYPE-EXAMINATION CERTIFICATE PTB 09 ATEX 2001**

(15) Description of equipment

The valve solenoid of type 1262 is an intrinsically safe apparatus intended for the application inside of hazardous areas of equipment categories 2G (flammable gases and vapours) and 2D (combustible dusts).

When the valve solenoid is applied in areas where the existence of combustible dusts has to be expected, the appropriate plug connector of type 6-11174-0101 shall be used to assure the type of protection.

Electrical data

Supplyonly for connection to a certified intrinsically safe circuit of type of protection Ex ia IIC

Maximum values:

$$U_i = 28 \text{ V}$$

$$I_i = 115 \text{ mA}$$

or

only for connection to a certified intrinsically safe circuit of type of protection Ex ia IIB

$$U_i = 32 \text{ V}$$

$$I_i = 195 \text{ mA}$$

L_i negligibly low
 C_i negligibly low

For relationship between type of equipment, temperature class as well as the electrical and thermal maximum values, reference is made to the following table:

Type 1262 00.1-.. through Type 1262 49.1-..	Temperature class	U_i / I_i	Permissible range of the ambient temperature	Ex tD A21
II 2 G Ex ia IIC	T6	28 V / 115 mA	-40 ... 50 °C	T80 °C
II 2 G Ex ia IIB	T6	32 V / 195 mA	-40 ... 50 °C	T80 °C

Type 1262 50.1-.. through Type 1262 99.1-..	Temperature class	U_i / I_i	Permissible range of the ambient temperature	Ex tD A21
II 2 G Ex ia IIC	T4	28 V / 115 mA	-40 ... 85 °C	T130 °C
II 2 G Ex ia IIB	T4	32 V / 195 mA	-40 ... 85 °C	T130 °C

(16) Test report PTB Ex 09-28302

(17) Special conditions for safe use
none

(18) Essential health and safety requirements
met by compliance with the standards mentioned above

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