



Translation

(1) EC-Type Examination Certificate

(2) - Directive 94/9/EC -
Equipment and protective Systems intended for use
in potentially explosive atmospheres

(3) **BVS 03 ATEX E 289**

(4) **Equipment:** Solenoid type FEB 102/97

(5) **Manufacturer:** Dr.Breit GmbH

(6) **Address:** D 42579 Heiligenhaus

(7) The design and construction of this equipment and any acceptable Variation thereto are specified in the schedule to this type examination certificate.

(8) The certification body of Deutsche Montan Technologie GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council 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 test and assessment report BVS PP 03.2188 EG.

(9) The Essential Health and Safety Requirements are assured by compliance with:

EN 50014:1997+A1-A2 General requirements

EN 50018:2000+A1 Flameproof enclosure

(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 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 2G EEx d IIC T6

Deutsche Montan Technologie GmbH

Essen, dated 08. Oktober 2003

Signed: Jockers DMT-Certification body

Signed: Eickhoff Head of special Services unit



(13) Appendix to

(14) **EC-Type Examination Certificate**

BVS 03 ATEX E 289

(15) 15.1 Subject and type

Solenoid type FEB 102/97

15.2 Description

The solenoid possesses a connection area and a fitting space which are locked by a cap in each case.

Both areas are connected by an opening and they form a common area in the type of protection Flameproof Enclosure „d“.

15.3 Parameters

4.1	Ambient temperature range	Ta	-20 °C up to +60 °C
	Nominal voltage	DC	250 V
	Nominal current		1 A
	Total power dissipation		≤ 3,3 W

4.1	Ambient temperature range	Ta	-20 °C up to +50 °C
	Nominal voltage	DC	250 V
	Nominal current		1 A
	Total power dissipation		≤ 5 W

(16) Test and assessment report

BVS PP 03.2188 EG as of 08.10.2003

(17) Special conditions for safe use

N/A

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding

D - 42579 Heiligenhaus, dated 27.01.2004
Dr.Breit GmbH

Dr.Ing. F.E.Breit