



Bewertungs- und Prüfbericht

nach Richtlinie 94/9/EG

*Assessment and Test Report
according to Directive 94/9/EC*

PTB Ex 11-41009

(TRANSLATION)



Gegenstand:
Object Flow Meter, type GE 1

Hersteller:
Manufacturer Gilbarco Veeder Root

Anschrift:
Address 125 Powder Forest Dr. ,
Simsbury, CT 06070, USA

Eingangsdatum:
Date of application May 4, 2011

Prüfspezifikation:
Test specification EN 13463-1:2009, EN 13463-3:2005, EN 16852:2010

Prüflaboratorium Explosionsschutz
On behalf of PTB:

Braunschweig, May 10, 2011



Dr. rer. nat. Frank Stolpe
Oberregierungsrat



1. Explanations for the item

The GE1 flow meter, which is described in Test Report PTB Ex 05-45031, is to be alternatively equipped with an Eltomatic A/S pulse generator. The dimensions of the components have also been changed.

2. Explanations for the test specification

The requirements specified in Test Report PTB Ex 05-45031 shall apply.

3. Test results

List of technical documents, test records, samples and other documents

a) EC Type Examination Certificate TÜV 10 ATEX 384298 X

Marking II 2 G Ex mb IIB T6 Gb
Magnetic encoder type ME 01-03
(only informative)

b) Drawings with parts lists for the GE1 flow meter

No.	Description	Drawing No.	Date	Rev. date
1	ISD Flowmeter, Assembly (2 Seiten)	332261-001	01/04/2004	18/10/2010
2	ISD Flowmeter, Meter Housing - machined (2 Seiten)	331813-001	31/07/2001	18/10/2010
3	ISD Flowmeter, Rotor – machined	331835-001	16/10/2001	18/10/2010
4	ISD Flowmeter, Spur Gear 56T 64P W/ HUB	331828-001	15/05/2002	18/10/2010
5	ISD Flowmeter, Spur Gear Blank - 56T 64P	332517-001	06/01/2006	18/10/2010
6	ISD Flowmeter, Gear Housing – machined (2 Seiten)	332256-001	26/03/2004	18/10/2010
7	ISD Flowmeter, Gear Plate (2 Seiten)	331994-001	16/02/2006	18/10/2010
8	ISD Flowmeter, End Plate (2 Seiten)	332255-001	16/02/2006	18/10/2010
9	ISD Flowmeter, Flame Arrester – Overview	332317-001	23/07/2004	18/10/2010
10	Mini Prec BRNG-EXT INR RNG .1875 Bore X .5000 OD (2 Seiten)	576008-517	19/01/2005	18/10/2010

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Test result: the changes do not have any effect on the explosion protection features.

The tests for explosion pressure surge strength and flame arresting performance mentioned in Test Report PTB Ex 05-45031 conforms with the specifications in EN 16852:2010.

The type test at four times the reference pressure in accordance with EN 50018:2000 (clause 16.2), which is mentioned in Test Report PTB Ex 05-45031, conforms with the EN 13463-3:2005 (16) type test (reference made to EN 60079-1:2008, clause 16.2).

4. Notes for manufacturing and operation

The requirements specified in Test Report PTB Ex 05-45031 continue to apply without any reservations.

The flow meter may be operated together with the Magnetic Encoder type ME 01-03 pulse generator (EC Type Examination Certificate No. TÜV 10 ATEX 384298 X).

5. Technical evaluation - assessment

The assessment in Test Report PTB Ex 05-45031 continues to apply without any reservations.

1st SUPPLEMENT

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

to EC-TYPE-EXAMINATION CERTIFICATE PTB 05 ATEX 4009-1

(Translation)

Equipment: Flow Meter Typ GE 1

Marking:  II 1/2 G IIA dm T4

Manufacturer: Gilbarco Veeder Root

Address: 125 Powder Forest Dr., Simsbury, CT 06070, USA

Description of supplements and modifications

The GE1 flow meter, which is described in Test Report PTB Ex 05-45031, is to be alternatively equipped with an Eltomatic A/S pulse generator. The dimensions of the components have also been changed.

Applied standards

EN 13463-1:2009, EN 13463-3:2005, EN 16852:2010

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The changes do not have any effect on the explosion protection features.

The flow meter may be operated together with the Magnetic Encoder type ME 01-03 pulse generator (EC Type Examination Certificate No. TÜV 10 ATEX 384298 X).

Zertifizierungssektor Explosionsschutz
On behalf of PTB:

Braunschweig, May 10, 2011



Dr.-Ing. D.-H. Frobese
Oberregierungsrat

