



TÜV Rheinland Group

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

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



(3) Type-Examination Certificate Number

**TÜV 05 ATEX 7159 X**

(4) **Equipment:** Variable Volume Flow Control RN or EN

(5) **Manufacturer:** Gebrüder Trox GmbH

(6) **Address:** Heinrich -Trox-Platz

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

(8) The TÜV CERT-Zertifizierungsstelle for ex-protected products of TÜV Industrie Service GmbH, TÜV Rheinland Group certifies this equipment has been found to comply with the Essential Health and Safety Requirements that related to the design of Category 3 equipment, which is intended for use in potentially explosive atmosphere. These the Essential Health and Safety Requirements are given in Annex II to European Union Directive 94/9/EC of 23 March 1994.

The examination and test results are recorded in the confidential report: 194/195.00.05

(9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

**EN 1127-1**

**EN 13463-1:2001**

**EN 13463-5:2003**

(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 Type-examination certificate relates only to the design, examination and tests of the specified equipment in accordance with Directive 94/9/EC. Further requirements of the Directive may 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 D c 80°C (T6)

TÜV CERT-Zertifizierungsstelle für Explosionsschutz

Köln, 20.06.05

Dipl.-Ing. K. Wettingfeld

This Type Examination Certificate without signature and stamp shall not be valid.

This Type Examination Certificate may only be circulated without alterations. German version is valid.  
Extracts or alterations must be approved by TÜV CERT-Zertifizierungsstelle of TÜV Industrie Service GmbH,  
TÜV Rheinland Group, Am Grauen Stein 51105 Köln, Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114

(13) Annex to

(14) **Type Examination Certificate**  
**TÜV 05 Atex 7159 X**

(15) **Description of the Apparatus**

15.1 Article and Series

Constant Volume Flow Control RN or EN

15.2 Description of the Apparatus

The constant volume flow control is installed in ventilation systems. It is a mechanical automatic control and works without any external energy. A freely-moving control flap is operated by aero-dynamic forces so that a set volume flow is held constant over the entire differential pressure range.

The enclosure is made of galvanized steel plate.

15.3 Parameters

15.3.1 Technical Data

RN size Nominal diameter 80 to 315 80 m<sup>3</sup>/h to 1000 m<sup>3</sup>/h

EN size 200x100mm to 600x 600 mm 250 m<sup>3</sup>/h to 2500 m<sup>3</sup>/h

(16) **Test Report No.** 194/Ex 159.00.05

(17) **Special Conditions for Safe Use**

The constant volume flow control must be installed in a sheltered site and protected against mechanical damage.

The constant volume flow control must be earthed with the pipe system.

(18) **Basic Safety and Health Requirements**

The requirements are met due to the conformity with the above-mentioned standards and an appropriate engineering design according to the current state of technology.

TÜV CERT-Zertifizierungsstelle

Cologne, 20.06.05

Dipl.-Ing. K. Wettingfeld



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TÜV Rheinland Group

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