

[1]

# EC-TYPE EXAMINATION CERTIFICATE



[2]

## Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

[3]

EC-Type Examination Certificate Number: **DEMKO 14 ATEX 1437X Rev. 0**

[4]

Equipment or Protective System: **Portable Flameproof Motor and Pump**

[5]

Manufacturer: **Tuthill Transfer Systems**

[6]

Address: **8825 Aviation Dr. Fort Wayne, IN 46809, USA**

[7]

This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8]

UL International Demko A/S, notified body number 0539 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to 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 confidential report no. **4786356975**

[9]

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

**EN 60079-0:2012+A11:2013**

**EN 60079-1:2007**

[10]


If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system 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 or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system.  
These are not covered by the certificate.

[12]

The marking of the equipment or protective system shall include the following:

 **II 2 G Ex d IIA T4 Gb**

### Certification Manager

Jan-Erik Storgaard

### Notified Body

This is to certify that the sample(s) of the Equipment described herein ("Certified Equipment") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Equipment Certification Program Requirements. This certificate and test results obtained apply only to the equipment sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured equipment. UL has not established Follow-Up Service or other surveillance of the equipment. The Manufacturer is solely and fully responsible for conformity of all equipment to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

**Date of Issue:** 2015-03-31



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**Schedule**  
**EC-TYPE EXAMINATION CERTIFICATE No.**  
**DEMKO 14 ATEX 1437X Rev. 0**  
**Report: 4786356975**

[15] Description of Equipment or protective system

The Tuthill RD Motor is a flameproof, portable motor and pump constructed of a steel can and aluminium housing. The enclosure is completed by a Henkel E-40EXP seal. The RD Motor is supplied with a power cable that is a flameproof plug connector at one end and the other is bare leads for connection to a suitable wiring means.

Nomenclature:

Model No. RD; followed by 4, 8, or 12.

- I. RD – Motor model name
- II. 4, 8, 12 – Denotes rotor vane size

Temperature range

The relation between ambient temperature and the assigned temperature class is as follows:

Ambient temperature range	Temperature class
-20 °C to +40 °C	T4

Electrical data  
13.6 V<sub>DC</sub>, 14A

Installation instructions

The RD Motor is supplied with a power cable that is a flameproof plug connector at one end and the other is bare leads for connection to a suitable wiring means.

Mounting instructions  
Refer to "Instructions".

Routine tests

Routine tests according to EN 60079-1 cl.16 are not required, as the enclosures have been successfully tested at four times the reference pressure.

[16]

Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [ 8 ] on page 1 of this EC-Type Examination Certificate.

[17]

Specific conditions of use:

The minimum and maximum values of the flameproof joints differ from what is specified in Table 1 of EN 60079-1:2007. Manufacturer is to be contacted for information on the dimensions of the flameproof joints.

[18]

Essential Health and Safety Requirements

Concerning ESRs this Schedule verifies compliance with the Annex III of ATEX directive only. By placing the product on the market, the manufacturer declares compliance with other relevant Directives, and all other safety related requirements including those of Annex II of this Directive.

Additional information

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

The fasteners used to secure the steel can to the aluminium housing have a yield strength of 1100 MPa.

