



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

(2) Equipment or Protective Systems Intended for Use in
Potentially Explosive Atmospheres - **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:

PTB 17 ATEX 5001 X

Issue: 0

(4) Product: Air-operated diaphragm pumps, types:
RFML 10 ..., RFML 15 ..., RFML 25 ..., RFML 40 ...

(5) Manufacturer: **FLUX GERÄTE GMBH**

(6) Address: **Talweg 12, 75433 Maulbronn, Germany**

(7) This product and any acceptable variation thereto is 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 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential Test Report PTB Ex 17-57167.

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

EN ISO 80079-36:2016, EN ISO 80079-37:2016

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

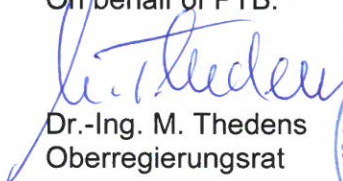
(12) The marking of the product shall include the following:

 **II 1/2 G Ex h IIB T6...T4 Ga/Gb**

Konformitätsbewertungsstelle, Sektor Explosionsschutz

Braunschweig, 9 March 2018

On behalf of PTB:


Dr.-Ing. M. Thedens
Oberregierungsrat



SCHEDULE

(13)

(14) **EU-Type Examination Certificate Number PTB 17 ATEX 5001 X, Issue: 0**

(15) Description of Product

The air-operated double diaphragm pump is made from a conductive plastic material (PP, PTFE or PE) or from stainless steel and has diaphragms made from a composite material on the side facing the medium to be conveyed. The pump is used for discharging liquid products from tanks, barrels and containers, which means that the diaphragm pump is to convey liquids that may also be flammable liquids of groups IIA and IIB.

(16) Test Report PTB Ex17-57167

Elements of the double diaphragm pump that meet category-2 requirements were not tested and assessed by PTB (e.g. pressure reducers or stroke counters). These elements can be used, if they have passed one of the conformity assessment procedures that are officially required for compliance with Directive 2014/34/EU, clause 13, and if the conditions for installation are complied with.

(17) Specific conditions of use

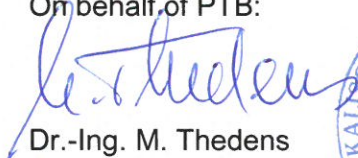
- The resistance of the hose lines that are connected with the diaphragm pump must not be higher than 10^6 ohms between the two ends of the hose lines.
- Before commissioning the diaphragm pump, the pump must be included in the equipotential bonding system. Tanks must be earthed separately, unless this is already the case because of the installation situation.
- The pump is designed for operation at ambient temperatures of 0 °C to 40 °C.
- The maximum medium temperature specified in the instructions for operation must not be exceeded.
- Should liquid seep from the pump housing or the mufflers, operation must be stopped immediately.
- Operation of the pump may lead to the flowing liquids being charged electrostatically.
- Continuous operation, i.e. longer than 30 s, while venting or emptying the pump with the formation of a droplet/particle/air mixture into the diaphragm compartment or the hose line must be avoided.

(18) Essential health and safety requirements

Met by compliance with the aforementioned standards.

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB:

Braunschweig, 9 March 2018


Dr.-Ing. M. Thedens
Oberregierungsrat



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EU-Type Examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.