

(1) TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**
- (3) Type-Examination Certificate Number

TÜV 22 ATEX 8854

Issue: 00

- (4) Equipment: **Retractable Grounding Reel**
Type:RGR Series
- (5) Manufacturer: **Qingdao Alltank Safety Technology Co., Ltd.**
- (6) Address: **No.13 Hancheng Road, Qingdao Free Trade Zone, Shandong Province, 266555, P.R. China**
- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which 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 atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report GC / Ex 8854.00 / 22

- (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 IEC 60079-0:2018

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 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 and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following:



II 2 G Ex h IIC T5 Gb

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2023-06-01

Dipl.-Ing. Klauspeter Graffi



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

This Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the TÜV Rheinland 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

(14) **Type Examination Certificate**
TÜV 22 ATEX 8854

Issue: 00

(15) Description of equipment

15.1 Equipment and type:

Retractable Grounding Reel
Type:RGR Series

15.2 Description / Details of Change

General product information

The Retractable Ground Reel is used for External Floating Roof Storage Tanks in oil depots.

Retractable Grounding Reel (RGR) is designed to provide the lowest impedance connection between the shell of a floating roof tank and its roof by creating the shortest possible path between the two. This connection is obtained by keeping constant tension on the braided cable.

The RGR can be installed during erection, maintenance shut downs or during regular operation of a tank. It needs minimal maintenance and is easy to install on both new and existing tanks in petrochemical facilities.

Technical Data

Environmental data
Ambient temperature: $T_a = -20^{\circ}\text{C}$ to $+60^{\circ}\text{C}$

(16) Test-Report No. GC / Ex 8854.00 / 22

(17) Special Conditions for safe use

N/A

This Type Examination Certificate without signature and official stamp shall not be valid.
This certificate may be circulated without alteration. Extracts or alterations are subject to approval by:
Zertifizierungsstelle of TÜV Rheinland Industrie Service GmbH

(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2023-06-01




Dipl.-Ing. Klauspeter Graffi

This Type Examination Certificate without signature and official stamp shall not be valid.
This certificate may be circulated without alteration. Extracts or alterations are subject to approval by:
Zertifizierungsstelle of TÜV Rheinland Industrie Service GmbH