11 4.08 E A4 ® TÜV, TUEV and TUV are registered trademarks. Utilisation and application requires prior approval.

(1) EU TYPE-EXAMINATION CERTIFICATE



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

TÜV 16 ATEX 7412 X lss

Issue: 00

(4) Equipment: Explosion-proof Solenoid

(5) Manufacturer: Ningbo HOYEA Machinery Manufacture Co., Ltd.

(6) Address: Zhoujia, Hengxi town, Yinzhou district

Ningbo Zhejiang, 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 for ex-protected products of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this equipment 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/Ex7412.00/16 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 60079-0: 2012 EN 60079-1: 2007 EN 60079-31: 2009

- (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.

I M2 Ex d I Mb
II 2G Ex d IIC T6 Gb
II 2D Ex tb IIIC T80°C Db IP65

TÜV Rheinland ExNB for explosion protected equipment

Cologne, 2016-08-18

Dipl-Ing Andreas Maschke

otified bon

This EU 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) EU Type Examination Certificate TÜV 16 ATEX 7412 X Issue: 00

(15) <u>Description of equipment</u>

15.1 Equipment and type:

Explosion-proof Solenoid Type(s):

E-DTBBL-50FYC, E-DTBBL-75FYC, E-DTBBL-100FYC, E-DTBZ-37FYC, E-DTBZ-90FYC

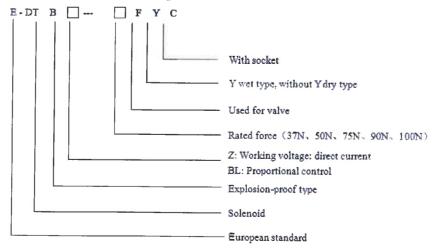
15.2 Description / Details of Change

General product information

This product is explosion-proof solenoid which is mainly used on solenoid switch valve that requires the fluid system to be flameproof under inflammable and explosive environment. The explosion-proof solenoid is made up of push rod, core tube component, housing unit, securing nut, and isolation cover components. When the solenoid coil has electromagnetic force in the energized state, affected by the armature and push rod, it can push the spool work, and finally exert the function of solenoid switch valve.

Type code:

The specification composition and meaning:



This EU 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





Technical Data

Rated Current (A): DC800mA, DC1.5A, DC2.5A;

(E-DTBBL-50FYC, E-DTBBL-75FYC, E-DTBBL-100FYC)

Rated Voltage (V): DC 24V (E-DTBBL-75FYC, E-DTBBL-100FYC, E-DTBBL-50FYC);

DC24V, AC127V, AC220V, AC110V (E-DTBZ-90FYC, E-DTBZ-37FYC);

Rated power (W): ≤27W (E-DTBZ-90FYC), ≤18W (E-DTBZ-37FYC);

Rated suction: 37N (E-DTBZ-37FYC), 50N (E-DTBBL-50FYC), 75N (E-DTBBL-75FYC),

90N (E-DTBZ-90FYC), 100N (E-DTBBL-100FYC)

(16) Test-Report No.

GC/Ex7412.00/16

(17) Special Conditions for safe use

- 1. WARNING Do not open while energized.
- When assembly, operation and maintenance, the operator must follow the requirements
 of the IEC 60079-14: latest version Explosive atmospheres- Part 14: Electrical
 installations design, selection and erection, beside of the manufacturer's operating
 instructions or its National equivalent.
- 3. Repair and overhaul shall comply with IEC 60079-19: latest version or its National equivalent.

(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

TÜV Rheinland ExNB for explosion protected equipment

Cologne, 2016-08-18

Dipl.-Ing. Andreas Maschke