

IBExU Institut für Sicherheitstechnik GmbH

An-Institut der TU Bergakademie Freiberg

[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 **IBExU15ATEX1178 X** | Issue 0

[4] Product: **Coil**
Type: 200 and 300 Series

[5] Manufacturer: Clark Cooper
Division of Magnatrol Valve Corp.

[6] Address: 941 Hamilton avenue
Roebing, New Jersey 08554
UNITED STATES OF AMERICA

[7] This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8] IBExU Institut für Sicherheitstechnik GmbH, notified body number 0637 in accordance with Article 17 of 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 IB-14-3-080.

[9] Compliance with the essential health and safety requirements has been assured by compliance with:
EN 60079-0:2012+A11:2013 EN 60079-1:2014
except in respect of those requirements listed at item [18] of the schedule.

[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. 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 2G Ex db IIC T3 Gb**
-20 °C ≤ Ta ≤ +60 °C

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By order

Certificates without signature and seal are not valid. Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail.

Dipl.Ing. K. Willamowski

- Seal -
(notified body number 0637)

Freiberg, 2018-02-23

[13] **Schedule**

[14] **Certificate number IBExU15ATEX1178 X | Issue 0**

[15] **Description of product**

The 200 and 300 Series coils are utilized on the Clark Cooper EH70 solenoid valve product line. All related approvals were conducted on EH70 valve components. EH70 valves are used for a wide spectrum of fluids and gases compatible with the construction materials. The coils are rigidly mounted around the valve bonnets.

Technical data:

Surrounding air: -20 °C to +60 °C
Fluid temperature: cryogenic to 150 °C maximum
Temperature classification: T3

Coil Part Number	Series Model	Voltage	Power (W)	Current (A)	For use on sizes of EH70
707735-01	200	24 V AC/DC	80	3.29	EH70-08 (½"), EH70-12 (¾"), EH70-16 (1")
707735-02	200	120 V AC/DC	80	0.74	
707735-03	200	220 V AC/DC	80	0.44	
707736-01	300	24 V AC/DC	116	4.80	EH70-24 (1½"), EH70-32 (2")
707736-02	300	120 V AC/DC	107	1.00	
707736-03	300	220 V AC/DC	97	0.44	

[16] **Test report**

The test results are recorded in the confidential test report IB-14-3-080 of 2017-02-23.

The test documents are part of the test report and they are listed there.

Summary of the test results

The solenoid coils type 200 and 300 series meet the requirements of explosion protection for electrical equipment of device group II and device category 2G in equipment protection by flameproof enclosures "d" of explosion group IIC.

[17] **Specific conditions of use**

The solenoid coils have only to be used with the Clark Cooper EH70 solenoid valve product line.

[18] **Essential health and safety requirements**

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item [9], the following are considered relevant to this product, and conformity is demonstrated in the test report: None

[19] **Drawings and Documents**

The documents are listed in the test report.

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