



(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 25 ATEX 9305 X

Issue: 00

(4) Equipment: Explosion-Proof Solenoid Valve
Type(s): DHC series

(5) Manufacturer: Primoflo (Shanghai) Co., Ltd.

(6) Address: Building 5, No. 108 Shuya Road, Songjiang District, Shanghai, 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 Zertifizierungsstelle für Explosionsschutz 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 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 / Ex9305.00 / 25.

(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 60079-1:2014


EN 60079-31: 2014

EN IEC 60079-31:2024

(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 EU-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 db IIC T* Gb**
II 2 D Ex tb IIIC T* Db

Cologne, 2026-02-04

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz



Dipl.-Ing. He Mei

This EU-Type Examination Certificate without signature and stamp shall not be valid and may be circulated only without alteration.
Extracts or alterations are subject to approval by Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH.
Am Grauen Stein • 51105 Köln • Tel. +49 (0) 221 806-0 • Fax. + 49 (0) 221 806 114

(13)

Annex to

(14)

EU-Type Examination Certificate

TÜV 25 ATEX 9305 X

Issue: 00

(15) Description of Equipment

Equipment and type:

Explosion-Proof Solenoid Valve
Type(s): DHC series

General product information:

The main enclosure of the DHC series Explosion-Proof Solenoid Valve is made of Aluminum (ADC12) or Stainless Steel (CF3M, CF8M or CF8). The enclosure is constructed in type of explosion protection flameproof enclosure “db” and dustproof enclosure “tb”. The equipment is intended to be used in Zone 1 and Zone 2 hazardous areas that explosive mixture of group IIA, IIB, IIC gases, vapors and air may exist, Zone 21 and Zone 22 hazardous areas that explosive dust may exist.

The equipment is used on solenoid switch valve that requires the fluid or gas system to be flameproof under inflammable and explosive environment.

Type/model description:

DHC a b c d e f g h

- a: Housing material A (aluminum alloy), S (stainless steel)
- b: Coil accessory blank (standard), F (Flyback voltage protection), L (External lighting protection)
- c: Cable entry size Default blank (1/2 NPT), M (M20×1.5)
- d: Valve series 00, 01, 02, 06, 08
- e: Valve type 0 to 9
- f: Valve specification ****
- g: Power option 3-digit code, e.g., 100 for 10W (refer to the power parameter table)
- h: Customer code ****

Parameters:

Temperature Class (Gas)	MAX. Surface Temperature (Dust)	MAX. Ambient Temperature (°C)	MAX. Power (W)	
			12 to 240VDC	24 to 440 VAC, 40 to 60Hz
T6	T85 °C	25	25	20
		35	16	17
		50	8	10
		60	6	1.8
		65	3.5	-
		70	1	-
T5	T100 °C	40	25	20
		50	16	17
		60	12	-
		70	6	10
		80	3.5	1.8

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Issue: 00

T4	T135 °C	50	40	-
		75	-	20
		85	25	17
		95	12	10
		110	3.5	1.8

Note: "-" symbol indicates that it is not allowed to be used.

Details of Change:

N/A

Technical data:

Ambient temperature: -40°C to +110°C (See details in general product information)

Ingress protection: IP66/IP67

(16) Test report No.: GC / Ex9305.00 / 25

(17) Special Conditions for safe use

1. The DHC series solenoid valves are only permitted for use with valve connection and non-flammable media.
2. Equipment designed for use in ambient temperature range of -40 °C to 110 °C (the media temperature range is same with ambient temperature and shall not more than ambient temperature when working).
3. Specific guidance noted to contact the original manufacturer for information on the dimension of the flameproof joints.
4. The equipment shall be incorporated with Ex certified cable glands in accordance with IEC 60079-14.
5. Under certain extreme dust circumstances, the coating film on the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with damp cloth.

(18) Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by the standards listed at item 9.

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

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