



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX TUR 25.0045X** Page 1 of 3 [Certificate history:](#)  
Status: **Current** Issue No: 0  
Date of Issue: 2026-02-04  
Applicant: **Primoflo (Shanghai) Co., Ltd.**  
Building 5, No. 108 Shuya Road  
Songjiang District, Shanghai  
China  
Equipment: **Explosion-Proof Solenoid Valve / Type(s): DHC series**  
Optional accessory:  
Type of Protection: **Flameproof enclosure "db" and Equipment dust ignition protection by enclosure "tb"**  
Marking: Ex db IIC T\* Gb  
Ex tb IIIC T\* Db  
Ta: -40°C to +110°C

Approved for issue on behalf of the IECEx  
Certification Body:

Dipl.-Ing. He Mei

Position:

Assigned certifier

Signature:  
(for printed version)

*He Mei*  
2026-02-04

Date:  
(for printed version)

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51105 Cologne  
Germany





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Manufacturer: **Primoflo (Shanghai) Co., Ltd.**  
Building 5, No. 108 Shuya Road  
Songjiang District, Shanghai  
China

Manufacturing  
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

**IEC 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-1:2014** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

**IEC 60079-31:2022** Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:3.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

**DE/TUR/ExTR25.0045/00**

Quality Assessment Report:

**DE/TUR/QAR26.0002/00**



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Certificate No.: **IECEX TUR 25.0045X**

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Date of issue: 2026-02-04

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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

### 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.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

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.

### Annex:

[DE-IECEX\\_TUR\\_25.0045X\\_00\\_Attachment\\_1.pdf](#)



Attachment to Certificate  
IECEX TUR 25.0045X  
Revision 0

Attachment to Certificate IECEX TUR 25.0045X

**Device:** Explosion-Proof Solenoid Valve  
Model: DHC series

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

**Address:** Building 5, No. 108 Shuya Road, Songjiang District, Shanghai, China

**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
T4	T135 °C	50	40	-
		75	-	20



Attachment to Certificate  
IECEX TUR 25.0045X  
Revision 0

		85	25	17
		95	12	10
		110	3.5	1.8

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

Technical parameters:

Electrical data

See parameters in general product information

Environmental data

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

Ingress protection: IP66/IP67

Routine tests:

The routine overpressure test may be made by the first method (static) for every product according to IEC 60079-1: clause 16.1.

The static pressures to be applied are as follows: not less than 1.83MPa, test duration 10s at least.