

(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 9294 X

Issue: 00

(4) Equipment: **Explosion Proof Peristaltic Pump, Type: ExD Series**

(5) Manufacturer: **Baoding Shenchen Precision Pump Co., Ltd.**

(6) Address: **No.103, Building 2, ZhiDian Industrial Park, FuXing East Road 999, Baoding, 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 / Ex9294.00 / 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

(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
II 2 D**

**Ex db IIC T4 Gb
Ex tb IIIC T130°C Db**

Cologne, 2026-08-28

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz


Yang Wang

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Extracts or alterations are subject to approval by Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH.
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Annex to

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TÜV 25 ATEX 9294 X

Issue: 00

(15) Description of Equipment

Equipment and type:

Explosion proof Peristaltic Pump

Type: ExD Series

General product information:

The ExD series explosion-protected peristaltic pump is designed and manufactured as equipment protected by means of a flameproof enclosure type Ex "db" and a dust ignition protection enclosure type Ex "tb".

The equipment mainly consists of a metallic enclosure in which the drive motor is installed. The internal motor drives the externally mounted pump head through a specially designed transmission structure, thereby achieving the pumping and transfer of liquid media.

The main enclosure is made of ZL101A cast aluminum alloy and is provided with a powder-coated surface finish. The enclosure is fitted with four pushbuttons, one rotary control knob, and one glass viewing window.

The equipment is equipped with two alternative motor types, as follows:

ACM0H-0810-C1 MS10A, and SMK80S-0100-30SAK-5DKA

The type of motor installed determines the rated input voltage of the equipment. For motor type ACM0H-0810-C1 MS10A, the rated voltage is AC 220 V, 50/60 Hz.

For motor type SMK80S-0100-30SAK-5DKA, the rated voltage is AC 110 V, 50/60 Hz.

The rated voltage of the respective motor corresponds to the rated voltage of the complete equipment. Both motor types are fitted with an internal thermal protection device.

When the internal temperature of the driver exceeds 105 °C, the protection function is activated, and the motor is automatically switched off.

The degree of protection of the equipment is IP66.

The equipment may be fitted externally with different types of pump heads. The differences in model designation within the series are determined by the combination of pump head type and drive motor type.

The pump head categories and model designation rules are as follows:

Type code:

ExD-	☐ -	☐ /	☐	* ☐
1	2	3	4	5

1. ExD, Product code.

2. Maximum motor speed:

350rpm, stands for the maximum motor speed is 350rpm, and just use one of the pump head model DY15 or DY25, Or DY35.

600rpm, stands for the maximum motor speed is 600rpm, and just use one of the pump head model DZ25-3L, DZ25-6L or YZ35-II.

1200rpm, stands for the maximum motor speed is 1200rpm, and just use one of the pump head model DZ45-I or DZ45-II.

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3. Voltage level: A, stands for Single-phase AC220V (50/60Hz); B, stands for Single-phase AC110V (50/60Hz)
4. Number of pump heads, number 1...10, stands for the pump head number.
When the pump head model is DZ25-3L, the number can be 1, 2, 3, 4, 5, 6, 7, 8, 9, 10;
When the pump head model is DZ25-6L, the number can be 1, 2, 3, 4, 5, 6;
When the pump head model is DY15, the number can be 1, 2, 3;
When the pump head model is DY25, the number can be 1, 2, 3;
When the pump head model is DY35, the number can be 1;
When the pump head model is YZ35-II, the number can be 1, 2, 3, 4;
When the pump head model is DZ45-I, the number can be 1;
When the pump head model is DZ45-II, the number can be 1;
When the pump head number is 1, this position code will be omitted.
5. Pump head model, this position code can be one of the following:
DZ25-3L, DZ25-6L, DY15, DY25, DY35, YZ35-II, DZ45-I, DZ45-II

The type code of pump head:

☐	☐ -	☐
1	2	3

1. Product Type: DZ, Quick-load type; YZ, Easy-load type; DY, Low-pulsation type.
2. Applicable tube wall thickness: 15, the tube wall thickness is 1.6mm; 25, the tube wall thickness is 2.4mm; 35, the tube wall thickness is 3.3mm; 45, the tube wall thickness is 4.8mm.
3. Special Notes: 3L, maximum flow is 3L/min; 6L, maximum flow is 6L/min; I, use tube joint; II, use tube clamp.

Details of Change:

Initial Certification.

Technical data:

Electrical data

Rated Voltage:

For motor type ACM0H-0810-C1 MS10A, the equipment rated voltage is AC 220 V, 50/60 Hz.

For motor type SMK80S-0100-30SAK-5DKA, the equipment rated voltage is AC 110 V, 50/60 Hz.

Environment data

IP rating: IP66

Tamb range: 0°C to +40°C

(16) Test report No.:

GC / Ex9294.00 / 25

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(17) Special Conditions for safe use

1. WARNING – DO NOT OPEN WHEN ENERGIZED.
2. Ta: 0°C to +40°C.
3. ELECTROSTATIC CHARGING HAZARD-CLEAN ONLY WITH A DAMP CLOTH.
4. Approved cable gland shall be used in this equipment, and minimum IP66 is required.

(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

Cologne, 2026-08-28



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