



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

Certificate No.: **IECEx TUR 25.0034X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2026-08-28

Applicant: **Baoding Shenchon Precision Pump Co., Ltd.**
No.103, Building 2, ZhiDian Industrial Park
FuXing East Road 999, Baoding
China

Equipment: **Explosion Proof Peristaltic Pump, Model: ExD Series**

Optional accessory:

Type of Protection: **Equipment protection by flameproof enclosures "db" and Equipment dust ignition protection by enclosure "tb"**

Marking: Ex db IIC T4 Gb
Ex tb IIIC T130°C Db
(Tamb: 0° to +40°C)

Approved for issue on behalf of the IECEx
Certification Body:

Dipl.-Ing. Yang Wang

Position:

Assigned Certifier

Signature:
(for printed version)

Date:
(for printed version)

2026-08-28

1. This certificate and schedule may only be reproduced in full.
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Certificate issued by:

TUV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Cologne
Germany





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Manufacturer: **Baoding Shenchon Precision Pump Co., Ltd.**
No.103, Building 2, ZhiDian Industrial Park
FuXing East Road 999, Baoding
China

Manufacturing locations: **Baoding Shenchon Precision Pump Co., Ltd.**
No.103, Building 2, ZhiDian Industrial Park
FuXing East Road 999, Baoding
China

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/ExTR25.0034/00](#)

Quality Assessment Report:

[DE/TUR/QAR26.0014/00](#)



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Certificate No.: **IECEx TUR 25.0034X**

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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.

SPECIFIC CONDITIONS OF USE: YES as shown below:

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.

Annex:

[DE-IECEx_TUR_25.0034X_00_Attachment_2026-08-28.pdf](#)



Attachment to Certificate
IECEX TUR 25.0034 X
Revision 0

Attachment to Certificate IECEX TUR 25.0034 X

Device: **Explosion Proof Peristaltic Pump**
Type: ExD Series

Manufacturer: **Baoding Shenchen Precision Pump Co., Ltd.**

Address: **No.103, Building 2, ZhiDian Industrial Park, FuXing East Road 999, Baoding China**

General product information:

Basic Description of Ex Equipment:

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:



Attachment to Certificate
IECEX TUR 25.0034 X
Revision 0

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.
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.

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

Routine Test at Manufacturer:

Use static pressure method at a pressure of 1.04 MPa which is 1.5 times reference pressure tested in accordance with IEC 60079-1 Clause.16. After test the enclosure withstands the pressure without suffering permanent deformation of the joints or damage to the enclosure.