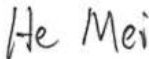




Statement for Application of directive ATEX 2014/34/EU for Equipment and Components intended for Use in Potentially Explosive Atmospheres

Equipment/Component type	Rotary Valve Type(s): DB series
Manufactured and submitted for Examination	Doebritz China Co., Ltd.
Address	Building 10, No. 860, Xinyang road, Lingang New Zone, Shanghai, P.R. China
Basis for Examination	Annex II of the European directive ATEX 2014/34/EU
Standard Basis	EN 1127- 1: 2019; EN ISO 80079-36: 2016 EN ISO 80079-37: 2016
Suitable Area	 II 2/- G Ex h IIB T5 Gb/- II 2/- D Ex h IIB T100°C Db/-
Offer Number	245846148
Test Result	The design of product is enough to lower the Explosion risk to an acceptable level.

<u>Expert(s):</u>	<u>Title:</u>	<u>Signature:</u>	<u>Date:</u>
Mr. Sun Chao	Project Engineer Explosion Protection Industrial Services & Cybersecurity Greater China		2024-12-16

<u>Reviewer(s):</u>	<u>Title:</u>	<u>Signature/Stamp:</u>	<u>Date:</u>
Ms. He Mei	Project Manager Explosion Protection Industrial Services & Cybersecurity Greater China	 	2024-12-16

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1) Equipment/Component type:

Equipment	Model
Rotary valve	DB101-200-Z-304, DB101-200-Z-316L, DB101-200-Z-TG, DB101-250-Z-304, DB101-250-Z-316L, DB101-250-Z-TG, DB105-200-Z-304, DB105-200-Z-316L, DB105-200-Z-TG

2) Description:

The rotary valve is exclusively for discharging, feeding, continuous conveying and conveying system. The rotary valve has been built in accordance with the status of technology and the recognized safety regulations. The rotary valves are not suitable for chemically unstable products.

The rotating speed of the rotary valve is less than 1m/s. The material of the rotary valve body is stainless steel or carbon steel.

Documentation: As referred to the technical documentation file stored at TÜV Rheinland archives.

Nr.	Description	Date	Pages	Document No.
	Rotary valve			
1.	Assembly drawings of DB101-200-Z-304	2024-09-13	1	(00)DB101-200-Z-304
2.	Assembly drawings of DB101-200-Z-316L	2024-09-13	1	(00)DB101-200-Z-316L
3.	Assembly drawings of DB101-200-Z-TG	2024-09-13	1	(00)DB101-200-Z-TG
4.	Assembly drawings of DB101-250-Z-304	2024-09-13	1	(00)DB101-250-Z-304
5.	Assembly drawings of DB101-250-Z-316L	2024-09-13	1	(00)DB101-250-Z-316L
6.	Assembly drawings of DB101-250-Z-TG	2024-09-13	1	(00)DB101-250-Z-TG
7.	Assembly drawings of DB105-200-Z-304	2024-09-13	1	(00)DB105-200-Z-304
8.	Assembly drawings of DB105-200-Z-316L	2024-09-13	1	(00)DB105-200-Z-316L
9.	Assembly drawings of DB105-200-Z-TG	2024-09-13	1	(00)DB105-200-Z-TG
10.	Name plate drawing	-	9	-
11.	Material report of spring gasket (sus304)	2021-12-19	1	1016715
12.	Material report of oil seal (fluororubber)	-	1	-
13.	Material report of bearing	2019-12-04	1	F-2-0105-C
14.	Material report of AISI304	2024-06-28	1	LZ/QR.8.04.11
15.	Operating Manual	-	24	-
16.	Design calculation	-	6	-
17.	Declaration of Conformity	2024-08-07	1	-

3) Technical Data:

Operating temperature: -20°C – +70°C

The detailed information: see technical documentation approved.

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4) Marking:

The suggested marking is with following information:

- Name / address
- Type / Size
- Serial Number

- ATEX 2014/34/EU Marking:  II 2/- G Ex h IIB T5 Gb/- or
II 2/- D Ex h IIB T100°C Db/-

5) Test result, Conditions for the safe Use or safe Application / Application Instructions:

1. Put the rotary valve in a clean/cool, non-corrosive place for storage. For a long storage of the rotary valve, the sealing parts must be verified prior to use.
2. When installed, avoid direct impact to the rotary valve which may damage the rotary valve or produce ignition source in the hazardous area.
3. The user manual shall be observed for installation, maintenance and repair of the equipment.
4. The equipment shall be connected to the grounding system when installed.
5. The rotary valve may only be used for dusts with a minimum ignition energy more than 30 mJ and an ignition temperature more than 300°C.
6. If the rotary valve installed with motor, it should be applied for secondary evaluation.
7. The function of explosion protection product is not in the scope of this assessment.
8. For other operation conditions or information, we refer to the user manual provided with the equipment.