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防爆合格证

证号: GYJ21.1296X

制造商 VEGA Grieshaber KG
(地址: Am Hohenstein 113, Schiltach, Germany)

产品名称 防爆隔离器

型号规格 VEGATRENN 15 系列

防爆标志 Ex ec [ia Ga] IIC T4 Gc
Ex ec [ia IIC Da] IIC T4 Gc

产品标准 /

图样编号 GE3466

经图样及技术文件的审查和样品检验, 确认上述产品符合下列标准:
GB/T 3836.1-2021, GB/T 3836.3-2021, GB/T 3836.4-2021

特颁发此证。

本证书有效期: 2021年06月23日至2026年06月22日

- 备注
1. 安全使用注意事项见本证书附件。
 2. 证书编号后缀“X”表明产品具有安全使用特殊条件, 内容见本证书附件。
 3. 型号规格说明见本证书附件。
 4. 本安电气参数见本证书附件。
 5. 本证书同时适用于 VEGA Americas Inc. (3877 Mason Research Parkway, Mason, Ohio, 45036, USA) 组装生产的相同型号产品。
 6. [更改 1] (防爆标志、防爆标准、美国工厂地址变更) 2023年6月15日签发。



本证书仅对与认可文件和样品一致的产品有效。

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EXPLOSION PROTECTION CERTIFICATE OF CONFORMITY

Cert No. GYJ21.1296X

Manufacturer	VEGA Grieshaber KG (Address: Am Hohenstein 113, Schiltach, Germany)
Product	Ex-Separator
Model	VEGATRENN 15 Series
Ex marking	Ex ec [ia Ga] IIC T4 Gc Ex ec [ia IIC Da] IIC T4 Gc
Product standard	/
Drawing number	GE3466

The product was found to comply with the following standard(s):

GB/T 3836.1-2021,GB/T 3836.3-2021,GB/T 3836.4-2021

Valid until: 2026.06.22

Remarks

- 1.Conditions for safe use are specified in the attachment(s) to this certificate.
- 2.Symbol "X" placed after the certification number denotes specific conditions of use, which are specified in the attachment(s) to this certificate.
- 3.Model designation is specified in the attachment(s) to this certificate.
- 4.Intrinsic safety parameters specified in the attachment(s) to this certificate.
- 5.This certificate also cover the product with the same type that manufactured by VEGA Americas Inc. (3877 Mason Research Parkway, Mason, Ohio, 45036, USA) .
- 6.[Variation I] (modify the standards and Ex-marking and factory address in America) issued on 2023.06.15.



This Certificate is valid for products compatible with the documents and samples approved by NEPSI.

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GYJ21.1296X防爆合格证附件 II

由 VEGA Grieshaber KG 和 VEGA Americas Inc.生产的 VEGATRENN 15 系列防爆隔离器, 经检验, 符合下列标准:

GB/T 3836.1-2021 爆炸性环境 第1部分: 设备 通用要求

GB/T 3836.3-2021 爆炸性环境 第3部分: 由增安型“e”保护的 设备

GB/T 3836.4-2021 爆炸性环境 第4部分: 由本质安全型“i”保护的 设备

产品防爆标志: Ex ec [ia Ga] IIC T4 Gc, Ex ec [ia IIIC Da] IIC T4 Gc

防爆合格证号GYJ21.1296X。

产品具体认可型号为:

VEGATRENN 15 **a** **n** **b** **x** **c** **d** **e** **f**

a代表通道个数, 可为1或2;

b代表许可证, 可为A;

c代表SIL认证, 可为X或S;

d代表壳体/防护等级, 可为K或U;

e代表接线盒/连接, 可为X或B;

f代表证书, 可为M或X。

一、 产品安全使用特殊条件

1. 产品防爆合格证号后缀“X”代表产品安全使用有特定条件:
2. 产品在现场使用时, 应安装于满足GB 3836.1-2010标准要求的IP54外壳中。
3. 产品使用的区域污染等级不高于GB/T16935.1-2008 (IEC 60664-1) 定义的2级。
4. 使用环境温度: -20℃~+60℃。

二、 产品使用注意事项

1. 电气参数:

电流输出回路: $U=15\sim 35VDC, I=4\sim 20mA, U_m=253VAC$ 。

电流输入回路: 本安参数: $U_0=18V, I_0=31.6mA, P_0=569mW$ 。特性曲线:



矩形。


Ex ia IIC	Lo(mH)	7.7	1	0.5	0.2	0.02
	Co(uF)	0.11	0.13	0.16	0.2	0.309
Ex ia IIB (IIIC)	Lo(mH)	100	20	10	0.5	0.1
	Co(uF)	0.35	0.9	1.1	1.5	1.78
Ex ia I	Lo(mH)	100	20	10	0.5	0.05
	Co(uF)	2.5	4.1	4.8	6.7	9

2. 用户不得自行更换该产品的零部件，应会同产品制造商共同解决运行中出现的故障，以杜绝损坏现象的发生。

3. 产品的安装、使用和维护应同时遵守产品使用说明书、GB/T 3836.13-2021“爆炸性环境 第13部分：设备的修理、检修、修复和改造”、GB/T 3836.15-2017“爆炸性环境 第15部分：电气装置的设计、选型和安装”、GB/T 3836.16-2022“爆炸性环境 第16部分：电气装置的检查和维护”、GB/T 3836.18-2017“爆炸性环境 第18部分：本质安全电气系统”、GB 50257-2014“电气设备安装工程爆炸和火灾危险环境电气装置施工及验收规范”。

三、制造厂责任

1. 制造厂必须将上述安全使用特定条件和注意事项纳入产品的使用说明书中。
2. 制造厂必须严格按照NEPSI认可的文件资料生产。
3. 产品铭牌中应至少包括下列内容：

- a) NEPSI认可标志（见防爆合格证书）
- b) 产品防爆标志
- c) 防爆合格证号
- d) 使用环境温度范围等



注：本附件II代替附件I



Attachment II to GYJ21.1296X

Ex Separators types VEGATRENN 15 series manufactured by VEGA Grieshaber KG and VEGA Americas Inc. has been certified, this product accords with following standards:

GB/T 3836.1-2021 Explosive atmospheres-Part 1: Equipment-General Requirements

GB/T 3836.3-2021 Explosive atmospheres-Part 3: Equipment protection by increased safety "e"

GB/T 3836.4-2021 Explosive atmospheres-Part 4: Equipment protection by intrinsic safety "i"

The Ex marking is Ex ec [ia Ga] IIC T4 Gc , Ex ec [ia IIIC Da] IIC T4 Gc

The certificate number is GYJ21.1296X.

Type designation:

VEGATRENN 15 **a** **N** **b** **X** **c** **d** **e** **f**

a denotes number of channels, can be 1 or 2;

b denotes approval, can be A;

c denotes SIL qualification, can be X or S;

d denotes housing/protection, can be K or U;

e denotes terminal blocks/connection, can be X or B;

f denotes certificate, can be M or X.

1. Special condition for safe use

Symbol "X" denotes special condition for safe use:

1.1 The device may only be used in an area with a pollution degree of 2 or better.

1.2 The equipment must be mounted in a housing that has been tested according to GB 3836.1-2010 and meets the requirements of protection class IP54.

1.3 Ambient temperature: -20°C~+60°C.

2. Condition for safe use

2.1 Electrical data:

Current output circuits: U=15...35Vdc, 4...20mA, Um=253Vac

Current input circuits: Uo=18V, Io=31.6mA, Po=569mW, characteristic line: rectangular


Ex ia IIC	Lo(mH)	7.7	1	0.5	0.2	0.02
	Co(uF)	0.11	0.13	0.16	0.2	0.309
Ex ia IIB (IIIC)	Lo(mH)	100	20	10	0.5	0.1
	Co(uF)	0.35	0.9	1.1	1.5	1.78
Ex ia I	Lo(mH)	100	20	10	0.5	0.05
	Co(uF)	2.5	4.1	4.8	6.7	9



- 2.2 The user shall not replace the parts of the product by himself. The user shall work with the product manufacturer to solve the failure during operation to prevent the occurrence of damage.
- 2.3 During the installation, using and maintenance, the user shall following the instruction and following standards:
- GB/T 3836.13-2021 Explosive atmospheres-Part 13: Equipment repair, overhaul and reclamation
- GB/T 3836.15-2017 Explosive atmospheres-Part 15: Eletrical installations design, selection and erection
- GB/T 3836.16-2022 Explosive atmospheres-Part 16: Eletrical installations inspectio and maintenance
- GB/T 3836 18-2017 Explosive atmospheres-Part 18: Intrinsically safe electrical systems
- GB 50257-2014 Code for construction and acceptance of electric device for explosion atmospheres and fire hazard electrical equipment installation engineering.

3. Manufacturer's Responsibility

- 3.1 Condition for safe use specified above should be included in the instruction manual.
- 3.2 Manufacturing should be done according to the documentation approved by NEPSI.
- 3.3 Following items should be added to the nameplate:

- a) NEPSI logo 
- b) Ex marking
- c) Number of certificate
- d) Ambient temperature range

Shanghai Inspection and Testing Institute of
Instruments and Automation Systems Co., Ltd.
National Supervision and Inspection Center for
Explosion Protection and Safety of Instrumentation
Jun. 15th, 2023

Note: This annex II replaces Annex I

