



EXPLOSION PROTECTION

CERTIFICATE OF CONFORMITY

Cert NO.GYJ20.1094X

This is to certify that the product

Magnetic Coil

manufactured by **Festo SE & Co. KG**

(Address:Ruiter Strasse 82, 73734 Esslingen, Germany)

which model is **VACC-S13-11-K4-1-NE4A**

Ex marking **Ex ia IIC T5/T6 Gb, Ex iaD 21 T95°C/T80°C**

product standard /

drawing number **5370612**

has been inspected and certified by NEPSI, and that it conforms
to **GB 3836.1-2010,GB 3836.4-2010,GB 12476.1-2013,GB 12476.4-2010**

This Approval shall remain in force until **2025.03.26**

Remarks

- 1.Conditions for safe use are specified in the instructions.
- 2.Conditions for safe use are specified in the attachment(s) to this certificate.
- 3.Symbol "X" placed after the certification number denotes specific conditions of use, which are specified in the attachment(s) to this certificate.
- 4.Intrinsic safety parameters specified in the attachment(s) to this certificate.

Director

**National Supervision and Inspection Centre for
Explosion Protection and Safety of Instrumentation**

Issued Date **2020.03.27**



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

国家级仪器仪表防爆安全监督检验站

National Supervision and Inspection Centre for Explosion Protection and Safety of Instrumentation

(GYJ20.1094X)

(Attachment I)

Attachment I to GYJ20.1094X

Magnetic coil typed VACC-S13-11-K4-1-NE4A manufactured by FESTO SE & Co. KG has been certified by National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation (NEPSI), this product accords with following standards:

GB 3836.1-2010 Explosive atmospheres-Part 1: Equipment-General Requirements

GB 3836.4-2010 Explosive atmospheres-Part 2: Equipment protection by intrinsic safety "i"

GB 12476.1-2013 Electrical apparatus for use in the pressure of combustible dust-Part 1: General requirements

GB 12476.4-2010 Electrical apparatus for use in the pressure of combustible dust-Part 4: Protection by intrinsic safety "iD"

The Ex marking is Ex ia IIC T5/T6 Gb, Ex iaD 21 T95°C/T80°C. The certificate number is GYJ20.1094X.

1. Special condition for safe use

Suffix "X" denotes special condition for safe use: The product must be effectively protected against electrostatic charge.

2. Condition for safe use

2.1 The relation between ambient temperature and Ex marking is as following:

Ambient temperature	Ex marking
-30°C~+65°C	Ex ia IIC T5 Gb, Ex iaD 21 T95°C
-30°C~+50°C	Ex ia IIC T6 Gb, Ex iaD 21 T80°C

2.2 The product shall be used together with certified associated apparatus when installed in hazardous area. The connection shall follow the specification in the operation manual. The intrinsic safety parameters are as following:

$U_i(V)$	$I_i(mA)$	$P_i(W)$	$C_i(nF)$	$L_i(\mu H)$
32	200	1.2	≈ 0	≈ 0

2.3 In order to avoid damage to the product, the user shall not change any parts of the product and the manufacturer shall be consulted when there is any problem during the usage.

2.4 During the installation, using and maintenance, the user shall following the instruction and following standards:

GB 3836.13-2013 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 3836.16-2017 Explosive atmospheres-Part 16: Eletrical installations inspection 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

GB 15577-2018 Safety regulations for dust explosion prevention and protection

3. Manufacturer's Responsibility

3.1 Special 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 Any modification with influence on the type of protection should be submitted to NEPSI before application.

3.4 Following items should be added to the nameplate

a) NEPSI logo



b) Ex marking

c) Number of certificate

d) Ambient temperature range

**National Supervision and Inspection Center
for Explosion Protection and Safety of Instrumentation**

March 27th, 2020



防爆合格证

证号: GYJ20.1094X

由 Festo SE & Co. KG

制造的产品:

(地址: Ruiter Strasse 82, 73734 Esslingen, Germany)

名称 电磁线圈

型号规格 VACC-S13-11-K4-1-NE4A

防爆标志 Ex ia II C T5/T6 Gb, Ex iaD 21 T95°C/T80°C

产品标准 /

图样编号 5370612

经图样及技术文件的审查和样品检验, 确认上述产品符合 GB 3836.1-2010、GB 3836.4-2010、GB 12476.1-2013、标准, GB 12476.4-2010 特颁发此证。

本证书有效期: 2020年3月27日至2025年3月26日

- 备注
1. 安全使用注意事项见使用说明书。
 2. 安全使用注意事项见本证书附件。
 3. 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。
 4. 本安电气参数见本证书附件。

站长

国家级仪器仪表防爆安全监督检验站

颁发日期二〇二〇年三月二十七日

本证书仅对与认可文件和样品一致的产品有效。

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国家级仪器仪表防爆安全监督检验站

National Supervision and Inspection Centre for Explosion Protection and Safety of Instrumentation

(GYJ20.1094X)

(Attachment I)

GYJ20.1094X 防爆合格证附件 I

由FESTO SE & Co. KG生产的VACC-S13-11-K4-1-NE4A型电磁线圈，经国家级仪器仪表防爆安全监督检验站(NEPSI)检验，符合下列标准：

GB 3836.1-2010 爆炸性环境 第1部分：设备 通用要求

GB 3836.4-2010 爆炸性环境 第4部分：由本质安全型“i”型保护的设备

GB 12476.1-2013 可燃性粉尘环境用电气设备 第1部分：通用要求

GB 12476.4-2010 可燃性粉尘环境用电气设备 第4部分：本质安全型“iD”

产品防爆标志为：Ex ia II C T5/T6 Gb, Ex iaD 21 T95°C/T80°C，防爆合格证号为 GYJ20.1094X。



一、 产品安全使用特定条件

证书编号后缀“X”表明产品具有安全使用特殊条件：应采取措施避免产品裸露非金属部件静电电荷产生引燃危险。

二、 产品使用注意事项

1. 产品使用环境温度和防爆标志关系如下：

产品使用环境温度	防爆标志
-30°C~+65°C	Ex ia II C T5 Gb, Ex iaD 21 T95°C
-30°C~+50°C	Ex ia II C T6 Gb, Ex iaD 21 T80°C

2. 该产品必须与已通过防爆认证的关联设备配套共同组成本安系统方可使用于现场存在爆炸性气体混合物的危险场所，其系统接线必须同时遵守本产品 and 所配关联设备的使用说明书要求，接线端子不得接错。本安电气参数见下表，

最大输入电压	最大输入电流	最大输入功率	最大内部等效参数	
$U_i(V)$	$I_i(mA)$	$P_i(W)$	$C_i(nF)$	$L_i(\mu H)$
32	200	1.2	≈ 0	≈ 0

3. 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。

4. 用户在安装、使用和维护产品时，须同时严格遵守产品使用说明书和下列标准：

GB 3836.13-2013 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 3836.16-2017 爆炸性环境 第16部分：电气装置的检查与维护

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 电气装置安装工程爆炸和火灾危险环境电气装置施工及验收规范
GB 15577-2018 粉尘防爆安全规程

三、 制造厂责任

1. 制造厂必须将上述使用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. 涉及产品防爆性能和温度的更改和维修，需提交NEPSI重新检验认可。
4. 产品铭牌中应至少包括下列内容：

a) NEPSI认可标志



b) 产品防爆标志

c) 防爆合格证号

d) 使用环境温度范围

国家级仪器仪表防爆安全监督检验站

二〇二〇年三月二十七日