



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx BVS 15.0116 issue No.:0 Certificate history:

Status: **Current**

Date of Issue: 2016-01-04 Page 1 of 4

Applicant: **FESTO AG & Co. KG**
Ruiter Straße 82
73734 Esslingen
Germany

Electrical Apparatus: **Solenoids type VACC-S18-**-**-EX4D**
Optional accessory:

Type of Protection: **Equipment protection by flameproof enclosures "d"; Equipment dust ignition protection by enclosure "t"**

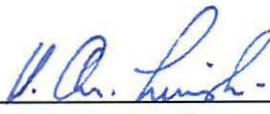
Marking: Ex db IIC T* Gb alternatively Ex db IIC T*
Ex tb IIIC T*°C Db alternatively Ex tb IIIC T*°C
For the values of the asterisks see "General product information".

Approved for issue on behalf of the IECEx Certification Body: H.-Ch. Simanski

Position: Head of Certification Body

Signature:
(for printed version)

Date:


4.1. 2016

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

 **DEKRA**
DEKRA EXAM GmbH



IECEx Certificate of Conformity

Certificate No.: IECEx BVS 15.0116

Date of Issue: 2016-01-04

Issue No.: 0

Page 2 of 4

Manufacturer: **FESTO AG & Co. KG**
Ruiter Straße 82
73734 Esslingen
Germany

Additional Manufacturing location
(s):

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 electrical apparatus 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 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition: 7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition: 2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*This Certificate **does not** indicate compliance with electrical 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/BVS/ExTR15.0108/00](#)

Quality Assessment Report:
[NL/DEK/QAR12.0012/03](#)



IECEx Certificate of Conformity

Certificate No.: IECEx BVS 15.0116

Date of Issue: 2016-01-04

Issue No.: 0

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description

The solenoids of type VACC-S18-**-**-EX4D are used to operate valves and are designed for the types of protection Flameproof Enclosure 'd' and Protection by enclosure 't'. The enclosures are closed at the top by a lid and at the bottom by a base plate. At one side a thread has been mounted to accommodate a separately certified cable gland. Inside the enclosure, a coil and other electric components are installed.

The attachment of a valve and the mechanical design of such valves are not subject of this test.

CONDITIONS OF CERTIFICATION: NO



IECEx Certificate of Conformity

Certificate No.: IECEx BVS 15.0116

Date of Issue: 2016-01-04

Issue No.: 0

Page 4 of 4

EQUIPMENT(continued):

Parameters

Electrical Parameters

Type	Rated power	Current type	Rated voltage	Rated frequency
VACC-S18-25-**-1U-EX4D	2,5 W	DC / AC	24 V	40 Hz...65 Hz or DC
VACC-S18-25-**-2U-EX4D	2,5 W	DC / AC	110 V	40 Hz...65 Hz or DC
VACC-S18-25-**-3U-EX4D	2,5 W	DC / AC	230 V	40 Hz...65 Hz or DC
VACC-S18-70-**-1U-EX4D	7 W	DC / AC	24 V	40 Hz...65 Hz or DC
VACC-S18-70-**-7U-EX4D	7 W	DC / AC	48 V	40 Hz...65 Hz or DC
VACC-S18-70-**-2U-EX4D	7 W	DC / AC	110 V	40 Hz...65 Hz or DC
VACC-S18-70-**-3U-EX4D	7 W	DC / AC	230 V	40 Hz...65 Hz or DC
VACC-S18-70-**-16U-EX4D	7 W	DC / AC	120 V	40 Hz...65 Hz or DC
VACC-S18-18-**-3A-EX4D	1,8 W	AC	230 V	40 Hz...65 Hz
VACC-S18-220-**-1-EX4D	22 W	DC	24 V	---

Thermal Parameters

Type	Ambient temperature range	Temperature class	Maximum surface temperature
VACC-S18-25-**-1U-EX4D	$-50\text{ }^{\circ}\text{C} \leq T_a \leq +40\text{ }^{\circ}\text{C}$ at T6 / T80 °C		
VACC-S18-25-**-2U-EX4D			
VACC-S18-25-**-3U-EX4D			
VACC-S18-70-**-1U-EX4D	$-50\text{ }^{\circ}\text{C} \leq T_a \leq +55\text{ }^{\circ}\text{C}$ at T5 / T95 °C		
VACC-S18-70-**-7U-EX4D			
VACC-S18-70-**-2U-EX4D			
VACC-S18-70-**-3U-EX4D	$-50\text{ }^{\circ}\text{C} \leq T_a \leq +90\text{ }^{\circ}\text{C}$ at T4 / T130 °C		
VACC-S18-70-**-16U-EX4D			
VACC-S18-18-**-3A-EX4D	$-50\text{ }^{\circ}\text{C} \leq T_a \leq +40\text{ }^{\circ}\text{C}$ at T4 / T130 °C		
VACC-S18-220-**-1-EX4D			