

## (1) EU-Type Examination Certificate

### (2) Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres

Directive 2014/34/EU

(3) EU – Type Examination Certificate Number: **IEP 19ATEX 0749X**

(4) Product: **Solenoid valve coil, Type C-51**

Trademark: **SMS**

(5) Firm Name: **SMS Sanayi Malzemeleri Üretim ve Satışı A.Ş.**

(6) Firm Address (HQ) : **Bostancı Yolu Kuru Sokak No: 16/2 Y.Dudullu Ümraniye İstanbul – TURKEY**

Address (FAC.) : **Çerkeşli OSB Mah. İMES 5. Cadde No:6 Dilovası İMES OSB Kocaeli – TURKEY**

(7) This product any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Sti., notified body number 2284 in accordance with Article 17 of the Directive 2014/34/EU of European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in confidential Report Nr: IEP.Rp.Ex.10-1584 date 13.12.2019.

(9) Compliance with Essential Health and safety requirements has been assured by compliance with;

**EN 60079-0 : 2013 , EN 60079-18 : 2015 , EN 60079-31: 2014**

(10) If the sign “ X “ is placed after the certificate number, it indicates that the product is subject to Specified Conditions of Safe Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the directive 2014/34/EU. Further requirements of the directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following:



**II 2G Ex mb IIC T4 Gb  
II 2DEx tb IIIC T120 °C Db**

#### Responsible Person:

Nurettin Terzioglu  
Head of Certification Body



Date of Issue: **16.12.2019**



**IEP Uluslararası Enerji Petrol Göz., Sertifikasyon ve Teknik Hiz. Org. Tic. Ltd. Sti.**  
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# IEP ENERGY PETROLEUM INSTITUTE

(13) Schedule

(14) Certificate Nr: **IEP 19 ATEX 0749X**

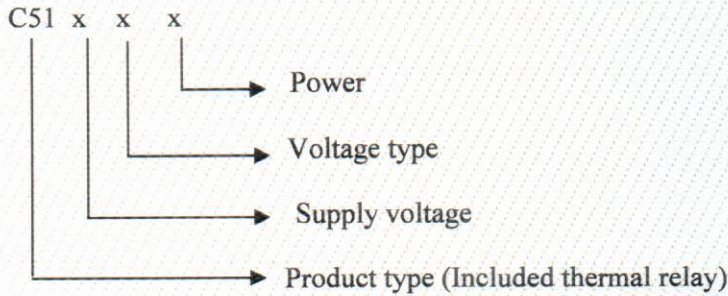
(15) Description of Equipment;

C-51 Type solenoid valve coil are used with by valves. Enamel wire insulation class 180 degrees. The coil is equipped with cable series HD 21.13.S1/HD.22.4.S4. Solenoid valve coil, Type C-51 is protection class of IP 67. Solenoid valve coil, Type C-51 is use as zone 1 and zone 21 that be used danger area determined in the EN 60079-10-1 / 2 standards. If the coil exceeds this temperature value for an unusual reason, the thermal relay prevents the coil from operating. When the coil temperature returns to normal, the coil starts working again. Cable gland type ex e is ATEX certified. AR 16 ATEX 095X

### Technical Parameters: C-51 Type solenoid valve coil

Voltage / Power	: (12 ~ 230) VAC / (30 ~ 42)W
Voltage / Power /DC	: (12 ~ 110) VDC/ (25 ~ 40) W
IP XY protection	: IP 67 connection with cable
Ambient Temperature	: -10 °C ~ +60 °C
Cable thickness	: 3 x 0, 75 mm <sup>2</sup> (Min)
Magnetic field	: 0,000048 mW/ mm <sup>2</sup>

**Code System:** Solenoid valve coil, Type C-51



(IEP 19 ATEX 0749X)X Means: C-51 type solenoid valve coil are used with by valves. C-51type solenoid valve coil installation must be in accordance with the operating instructions. If the specifications of the capsule mix and parts change, the certificate is invalid.

(16) Essential Health and Safety Requirements:

**16.1** Are included in standards, which are mentioned in clause (9) of this certificate. The products were approved in accordance with above mentioned standards and manufacturer's instruction.

**16.2** At the installation and the operation of the C-51 Type solenoid valve coil has to be observed manufacturer's manual 26 pages dated 05.09.2017.

**Responsible Person:**

Nurettin Terzioglu  
Head of Certification Body







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(17) Certificate Nr: **IEP 19 ATEX 0749X**

(18) Special conditions for safe use;

The installation and the operation of the C-51 Type solenoid valve coil have to confirm to the relevant national regulations.

(19) List of Documentation:

- ◆ User Manual : 26 pages, dated 05.09.2017
- ◆ Component Lists : Part 2.1.2, dated 08.05.2019
- ◆ Mounting Pictures and Technical Drawings : Part 2.2.1 , 13 drawings
- ◆ Certificates and Test Reports : Part 3 – 4
- ◆ Drawings;

Drawing Nr;	Date;
C51.00 Exploded	08.05.2019
KLMBBOBKAP	20.01.2016
MIL28ATEX	17.01.2014
SOCKET SEAL	05.09.2019
MKR36BBOBIN000	21.01.2016
PLS36EXTAPA-01	09.10.2013
PLS36BOBSOKET	21.01.2016
SAC58ATEX	20.06.2013
TOPRAKBOBKAP	21.01.2016
SACBBOBCEVSAC	21.01.2016
SMN28BBOBKORM03	30.04.2016
PLS360006G30V	21.01.2016
SACBBOBYUKSUK	05.02.2016
SACBBOBALTUST	21.01.2016

For the validity of analysis type certificate, the parts that are used in electrical actuator are confirmed in the part list 2.2.1 date 08.05.2019.

**Responsible Person:**

Nurettin Terzioğlu  
Head of Certification Body



**Date of Issue: 16.12.2019**

