

EXTENSION n. 01/12

to EC-Type Examination Certificate CESI 03 ATEX 344

Equipment: Coils for electro-valves type FPJB size I / II / III / IV.**Manufacturer:** ROTEX Automation Limited**Address:** 987/11, GIDC, Makarpura - Vadodara 390010 – Gujarat (India).**Admitted variation**


Conformity to new edition of the harmonized European standards.

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The apparatus subject of the certificate CESI 03 ATEX 344 and annexed extension are conform to the standards:

EN 60079-0: 2009 EN 60079-1: 2007 EN 60079-31: 2009

The equipment shall be marked as follows:

 II 2GD Ex d IIC T6 or T5 or T4 Gb
 Ex tb IIC T80°C or T95°C or T130°C Db
 IP66
 T_{amb} -40°C + +35°C or +50°C or +60°C

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 03 ATEX 344.

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Description of equipment

The Coils type FPJB with junction box and with/without LED, drives the rods which open/close electro-valves. The equipment is enclosed in a flameproof enclosure made in light alloy or stainless steel which contains the terminal connections to the external power supply. Four different sizes from *size I* to *size IV* are available.

According to the thread of the cable entry the following types are foreseen:

- 37-01 with cable entry 1/2"NPT.
- 39-01 with cable entry M20x1.5.

The code 01 written as last number into the type code, identifies the ATEX certificated version of the coils.

Electrical characteristics

Unchanged.

Installation conditions

The conditions of the installation of the Coils are included within the safety instructions. In any case, the accessories used for cable entries into enclosures shall be subject of separate certification, suitable for the type of protection Ex-d and Ex-tb and guarantee a minimum degree of protection IP 66 in compliance with the EN 60529 Standard and shall be suitable for the operating temperature of the coil.

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Routine tests

The manufacturer shall carry out the routine tests foreseen at paragraph 27 of the standard 60079-0 and at paragraph 16 of the standard EN 60079-1 and at paragraph 6 of the standard EN 60079-31.

The overpressure routine test of the enclosures shall be carried out using the static method (par. 15.1.3.1 of the standard EN 60079-1) at the pressure of 15.3 bar, equal to 1.5 times the reference pressure increased in order to take into account the minimum ambient temperature of -40°C.

Descriptive documents (prot. EX- B2008778)

- Technical Notes ROTEX/11.11/CESI/3.12 (pg. 1)	rev.0	dated	16.03.2012
- Declaration of Conformity (pg. 1)	rev.0	dated	07.03.2012
- Safety Instruction IM/C/0001 (pg. 3)	rev.3	dated	07.03.2012
- Drawing N. WN-1434-ATEX-CESI (1 sheet)	rev.4	dated	07.03.2012
- Drawing N. 090-01-10-12 ATEX (1 sheet)	rev.3	dated	07.03.2012

One copy of all documents is kept in CESI files.

Special conditions for safe use (X)

None.

Essential Health and Safety Requirements

The Essential Health and Safety Requirements are assured by compliance to the following standards:

EN 60079-0: 2009	Explosive atmospheres – Part 0: Equipment - General requirements;
EN 60079-1: 2007	Explosive atmospheres – Part 1: Equipment protection by flameproof enclosure “d”;
EN 60079-31: 2009	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure “t”.

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