

CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **DEKRA 15ATEX0055 X** Issue Number: **3**

(4) Product: **Valve Actuator Control Modules, Series Bettis Q QC41, QC42 and QC43**

(5) Manufacturer: **Emerson Process Management Valve Automation Inc.**

(6) Address: **19200 Northwest Freeway, Houston, Texas, 77065, USA**

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

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the 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 test report number NL/DEK/ExTR11.0035/02.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0 : 2011 + A11 : 2013
EN IEC 60079-0 : 2018

EN 60079-1 : 2014

EN 60079-31 : 2014

except in respect of those requirements listed at Item 18 of the Schedule

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of 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. 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 product shall include the following:



II 2 G Ex db IIB+H₂ T6...T4 Gb
II 2 D Ex tb IIIC T80 °C Db

Date of certification: 16 November 2018

DEKRA Certification B.V.

R. Schuller
Certification Manager



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 15ATEX0055 X**

Issue No. 3

(15) **Description**

Valve Actuator Control Module, Series Bettis Q QC41, QC42 and QC43 are used to control an actuator to its open or closed position and is intended to be mounted to a Bettis Q valve actuator. The position feedback is achieved by switches. The control module has a degree of protection IP66 when mounted to a Bettis Q valve actuator with minimum degree of protection IP66.

Ratings

Temperature: Ambient temperature range -25 °C to +60 °C
 Voltage: Control module; 24 Vdc, 115 Vac or 230 Vac

Type designation

QC42 . U P5 H S # 1
 I II III IV V VI VII

Designation	Explanation	Value	Explanation
I	Control Module	QC41 QC42 QC43	24 VDC Integrated XP Control modules 115 VAC Integrated XP Control modules 230 VAC Integrated XP Control modules
II	Conduit connections	M U	Metric NPT
III	Protection Method	P5	Flame Proof Ex d or Explosion proof approval
IV	Control module options	M G O C N H	Mechanical switch (250 Vac / 250 Vdc) Mechanical switch gold plated (125 Vac / 30 Vdc) 3-wire proximity switch PNP (10 – 30 Vdc) 3-wire proximity switch NPN (10 – 30 Vdc) 2-wire proximity switch (NAMUR) (8 Vdc) 2-wire proximity switch (230 Vac)
V	Action	S D F	Single acting Double acting Double acting Fail In Last Position
VI	Enclosure color	Any	Not Ex relevant
VII	Language Code	1 2 3	English Portuguese French

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. NL/DEK/ExTR11.0035/02.

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 15ATEX0055 X** Issue No. 3

(17) **Specific conditions of use**

The manufacturer shall be contacted for information on the dimensions of the flameproof joints.

Precaution shall be taken to avoid danger of ignition due to electrostatic charges on the marking plate of the enclosure.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR11.0035/02.

(20) **Certificate history**

Issue 1 - 213866500	Initial certificate.
Issue 2 - 221824800	Non safety related changes to documentation and addition of alternative connection terminal.
Issue 3 - 222201900	Update to latest edition of all standards. Change of minimum ambient temperature. Change of manufacturer.