



# 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](http://www.iecex.com)

Certificate No.: IECEx DEK 15.0034X Issue No: 2 Certificate history:  
Status: **Current** Issue No. 2 (2018-11-16)  
Date of Issue: **2018-11-16** Page 1 of 5 Issue No. 1 (2017-07-20)  
Applicant: **Emerson Process Management Valve Automation Inc.**  
19200 Northwest Freeway,  
Houston, Texas, 77065  
**United States of America**  
Equipment: **Valve Actuator Control Modules, Series Bettis Q QC41, QC42 and QC43**  
*Optional accessory:*  
Type of Protection: **Ex d, Ex t**  
Marking: Ex db IIB+H2 T6...T4 Gb  
Ex tb IIIC T80 °C Db

*Approved for issue on behalf of the IECEx  
Certification Body:*

R. Schuller

*Position:*

Certification Manager

*Signature:  
(for printed version)*

*Date:*

2018-11-16

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 Certification B.V.**  
Meander 1051,  
6825 MJ Arnhem  
The Netherlands





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Manufacturer: **Emerson Process Management Valve Automation Inc.**  
19200 Northwest Freeway,  
Houston, Texas, 77065  
**United States of America**

Additional Manufacturing location(s):

**Emerson Process Management Valve Automation (M) Sdn Bhd**  
Lot 13112, Mukim Labu  
Kawasan Perindustrian Nilai  
Nilai, Negeri  
Malaysia

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 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:

<b>IEC 60079-0 : 2017</b> Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
<b>IEC 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2013</b> 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:

[NL/DEK/ExTR11.0035/02](#)

Quality Assessment Report:

[GB/SIR/QAR06.0045/10](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

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 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	24 VDC Integrated XP Control modules
		QC42	115 VAC Integrated XP Control modules
		QC43	230 VAC Integrated XP Control modules
II	Conduit connections	M	Metric
		U	NPT
III	Protection Method	P5	Flame Proof Ex d or Explosion proof approval
IV	Control module options	M	Mechanical switch (250 Vac / 250 Vdc)
		G	Mechanical switch gold plated (125 Vac / 30 Vdc)
			3-wire proximity switch PNP (10 – 30 Vdc)
		O	3-wire proximity switch NPN (10 – 30 Vdc)
		C	2-wire proximity switch (NAMUR) (8 Vdc)
		N	2-wire proximity switch (230 Vac)
V	Action	H	
		S	Single acting
		D	Double acting
		F	Double acting Fail In Last Position



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VI	Enclosure color	Any	Not Ex relevant
VII	Language Code	1	English
		2	Portuguese
		3	French

**SPECIFIC CONDITIONS OF USE: YES as shown below:**

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.



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

Update to latest edition of all standards.  
Change of minimum ambient temperature.  
Change of manufacturer.