



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 DEK 15.0034X Issue No: 0 Certificate history:
Issue No. 0 (2015-09-23)

Status: **Current** Page 1 of 3

Date of Issue: **2015-09-23**

Applicant: **Emerson Process Management Valve Automation**
Asveldweg 11
7556 BR Hengelo
The Netherlands

Electrical Apparatus: **Actuator Control Module, Series Bettis Q QC41..., QC42... and QC43...**
Optional accessory:

Type of Protection: **Ex d, Ex t**

Marking: Ex d IIB+H2 T6 or T4 Gb
Ex t IIIC T80 °C Db IP66

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

R.H.D. Pommé

Position:

Certification Manager

*Signature:
(for printed version)*

Date:

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](#).

Certificate issued by:

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





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Manufacturer: **Emerson Machinery Equipment (Shenzhen) Co. Ltd**
Bao Heng Technology Industry Park
Liu Xian 1st Road, District 68,
Boan District Shenzhen, 51810
China

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 : 2007-10 Edition:5	Explosive atmospheres - Part 0:Equipment - General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2008 Edition:1	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/ExTR15.0045/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0020/06](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Actuator Control Module, Series Bettis Q QC41..., QC42... and QC43... is 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.

Ambient temperature range -30 ° C to +60 ° C.

For details about the electrical data and type designation see Annex 1 to this certificate.

CONDITIONS OF CERTIFICATION: 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.

Annex:

[218254500-Annex1_ExTR15.0045.00_DEK 15.0034X-iss0_15ATEX0055X-iss1.pdf](#)

Annex 1 to IECExTR NL/DEK/ExTR15.0045/00

Annex 1 to Certificate of Conformity IECEx DEK 15.0034X, issue 0

Annex 1 to EC-Type Examination Certificate DEKRA 15ATEX0055 X, issue 1

Description

The Actuator Control Module, Series Bettis Q QC41..., QC42... and QC43... is 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.

Ambient temperature range -30 °C to +60 °C.

Type designation

QC42 . U P5 H S K 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/UNC
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	Future Expansions Code	K	Bettis Q
VII	Language Code	1	English, German, French & Spanish

Electrical data

Rated voltage control module: 24 Vdc, 115 Vac or 230 Vac.