



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 16.0061X

Issue No: 1

Certificate history:

Issue No. 1 (2018-11-16)

Issue No. 0 (2016-10-04)

Status: **Current**

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Date of Issue: **2018-11-16**

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

Equipment: **Valve Actuator Control Module, Series Bettis Q QC40**

Optional accessory:

Type of Protection: **Ex nA, tb**

Marking:

Ex nA IIC T4 Gc
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:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-31 : 2013 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/ExTR16.0082/01](#)

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 QC40 is used to control a pneumatic actuator by means of, up to two, pneumatic pilot valves, and gives feedback about the end positions ("open" or "close") of the actuator/valve combination by means of a position feedback sensor.

Ambient temperature range: -25 °C to +60 °C.

The enclosure provides a degree of protection of at least IP66 as per IEC 60079-0.

The maximum surface temperature T80 °C is based on an ambient temperature of +60 °C and maximum 5 mm layer of dust.

Electrical data

$U_n = 32 \text{ V}$

SPECIFIC CONDITIONS OF USE: YES as shown below:

Electrostatic charging of the painted enclosure and plastic label shall be avoided.



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EQUIPMENT (continued):

Model codes

Control Module, Series Bettis Q QC40abcdefg

a = Conduit connections

M: Metric 2 x M20 x 1.5

U: Imperial top: 3/4" NPT, bottom: 1/2" NPT

bc = Protection method

P4: Non Sparking/Incendive

d = Control module switch type

N: Two wire proximity switch

e = Action (pilot valves)

S: Single acting

D: Double acting

F: Double acting fail in last position

f = Enclosure color (non explosion safety related)

Not Ex relevant

g = Language code (non explosion safety related)

1: English



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

Change of manufacturer