



(Pty) Ltd
Reg No: 1999/027771/07



Government Approved Test
Laboratory
(Previously AIA)

ACCREDITED AND APPROVED TEST LABORATORY

(previously referred to as Approved Inspection Authority)

IN TERMS OF:

ARP 0108: "REGULATORY REQUIREMENTS FOR EXPLOSION PROTECTED APPARATUS"

IA CERTIFICATE

EMERSON PROCESS MANAGEMENT
ASVELDWEG 11,
7556 BR HENGELO,
THE NETHERLANDS

Issued: **06 Jan 2014**
*Expire: **06 Jan 2015**
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Revision 1

Equipment: Electric actuators
Manufacturer: EL-O-MATIC B.V.
Type: ELQ 100, ELQ 200, ELQ 300, ELQ 500 and ELQ 800
Serial No: All items imported between Issued and Expire dates.
Supplied by

Emerson Process Management

Identified by Inspection Authority number

S-XPL/08047 X

And as described in the Explolabs file number **XPL/9300/08047** is hereby certified "Explosion Protected Ex db IIB T4", having been examined and inspected in accordance with the relevant requirements of South African Standards.

SANS 60079-0: 2009 Ed 4 IEC 60079-0: 2007 Ed 5	"Electrical apparatus for explosive gas atmospheres, Part 0: General requirements"
SANS 60079-1: 2009 Ed 4 IEC 60079-1: 2007 Ed 6	Explosive atmospheres -Part 1: Equipment protection by flameproof enclosures "d"

Locations	Zone 1	Gas: Surface
Frequency		Intermittent as could occur under normal operation
Environment	Group IIB	Propane to Ethylene
Limiting Temp.	T4	135 °C

This certification indicates compliance with R10.1 of the Mines Health and Safety Act and/or EMR 9(2) of the Occupational Health and Safety Act, provided that the apparatus is used as relevant in accordance with:

- i) SANS 10086 and IEC/SANS 61241-14 requirements as applicable;
- ii) Any conditions mentioned in the above report;
- iii) Any relevant requirements and codes of practice enforced in terms of the Mine Health and Safety Act or Occupational Health and Safety Act; and
- iv) Any restrictions and conditions enforced by the Chief Inspector of Mines or the Principal Inspector or the Chief Inspector: Occupational Health and Safety.
- v) A revision certificate replaces all previous version of the certificate.
- vi) * - Only covers equipment Imported between the "Issued" and "Expire" dates.
- vii) If and when your QAN (Quality Assurance Notification) Certificate for your equipment manufacturer expires during the valid period of the IA Certification (issued for your equipment) and a new certificate is not submitted the existing IA Certification will then be cancelled. It is thus the client's responsibility to always submit the updated and valid QAN certificate(s) to Explolabs (Pty) Ltd.

1. GENERAL

The Electric actuators, EL-O-MATIC Types ELQ 100, ELQ 200, ELQ 300, ELQ 500 and ELQ 800 are used to actuate valves. The aluminium alloy housing contains the motor, gear reduction, a heater and the electronic control unit. The cover of the enclosure is provided with a viewing window. The actuators can be provided with some built-in options.

The options are used to provide control and position indication of the electric actuators. The options Q-CFF, Q-XS2, Q-PNP, Q-POT, Q-SC, Q-PT, Q-MOD, Q-STM, Q-MT and Q-RB are mounted in the actuator housing.

Based on the following documentation: DEKRA 12 ATEX 0002 X issue 2

2. SAFETY PARAMETERS

ELQ 100, 200, 300, 500 and 800 with the options included

Supply voltage : 115/230/400 (+10% / -6%) Vac, 50/60 Hz or 24 Vdc (+10%)

Power : max. 120 VA (ELQ 100, 200 and 300), max. 200 VA (ELQ 500, 800)

3. INSTALLATION INSTRUCTIONS

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

4. SPECIAL CONDITIONS OF USE (X)

- Ambient temperature range -20 °C to +60 °C.
- The property class of the fasteners is at least A2-70.
- The manufacturer shall be contacted for information on the dimensions of the flameproof joints.

5. MARKING

The following marking must be added to the units in a legible and durable manner:

Supplier: Emerson Process Management

IA Number: S-XPL/08047 X

Rating: Ex db IIB T4

If the above marking does not appear on the unit, this certificate does not cover it.



**P van Staden
TESTING OFFICER**