

(1) **EC-TYPE EXAMINATION CERTIFICATE**

(2) Equipment or protective system intended for use in potentially explosive atmospheres
- Directive 94/9/EC

(3) EC-Type Examination Certificate Number: **KEMA 98ATEX2544**

(4) Equipment or protective system: **Solenoid Valve Operator Type IS-MXX-EE and
Type IS-M12-I**

(5) Manufacturer: **Asco Controls B.V.**

(6) Address: **Industrielaan 21, 3925 ZG Scherpenzeel, The Netherlands**

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

(8) KEMA, notified body number 0344 in accordance with Article 9 of the Council
Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective
system has been found to comply with the Essential Health and Safety Requirements
relating to the design and construction of equipment and protective systems intended
for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. 82544.

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

EN 50014 : 1992 + prA1

EN 50020 : 1994

EN50284 : 1997

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment
or protective system is subject to special conditions for safe use specified in the
schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design and construction of
the specified equipment or protective system. If applicable, further requirements of
this Directive apply to the manufacture and supply of this equipment or protective
system.

(12) The marking of the equipment or protective system shall include the following:



EEx ia IIC T6

Arnhem, 17 February 2000
by order of the Board of Directors of N.V. KEMA



L.M.J. Vries
Certification Manager

° This Certificate may only be reproduced in its entirety and without any change



SCHEDULE

(13)

(14)

to EC-Type Examination Certificate KEMA 98ATEX2544

(15) **Description**

Solenoid Valve Operator Type IS-MXX-EE and Type IS-M12-I to be used for pushing or pulling valve action with mounted valve. Valve Operator Type IS-MXX-EE contains an electronic circuit for enhanced valve operation.

Ambient temperature range -40 °C ... +60 °C.

Electrical data

Input circuit in type of protection intrinsic safety EEx ia IIC,
(terminals or connector) only for connection to a certified intrinsically safe circuit, with following maximum values:

$$\begin{array}{rcl}
 U_i & = & 32 \text{ V} \\
 I_i & = & 500 \text{ mA} \\
 P_i & = & 1,5 \text{ W}
 \end{array}$$

The effective internal capacitance and inductance are negligibly small.

(16) **Report**

KEMA No. 82544

(17) **Special conditions for safe use**

None

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

Essential Health and Safety Requirements not covered by standards listed at (9)	
Clause	Subject
1.0.5	Marking
1.0.6 (b)	Instructions

These Essential Health and Safety Requirements are examined and positively judged. The results are laid down in the report listed at (16).

(13)

SCHEDULE

(14)

to EC-Type Examination Certificate KEMA 98ATEX2544

(19) **Test documentation**

1. Certificate of Conformity KEMA No. Ex-93.C.8432, including amendments 1 ... 4

signed

2. Drawing No.. 127651, rev. D (sheet 1))
 131896, rev. C (2 sheets)) 14.02.2000
3. Samples

AMENDMENT 1

to EC-Type Examination Certificate KEMA 98ATEX2544


Manufacturer: **Asco Controls B.V.**

Address: **Industrielaan 21, 3925 BD Scherpenzeel, The Netherlands**

Description

In future, the Solenoid Valve Actuator Type IS-MXX-EE and Type IS-M12-I may also be used in an explosive atmosphere caused by the presence of air/dust mixtures.

The marking shall also include the code:

 II 2 D T 85 °C and/or II 2 G (extension of section (12) of the EC-Type Examination Certificate)

Compliance with Clause 2.2.2 of the Essential Health and Safety Requirements has been additionally assured by compliance with:

EN 50281-1-1 : 1998 (extension of section (9) of the EC-Type Examination Certificate)

or has been examined otherwise and has been positively judged.

The results are laid down in confidential report no. 2023713.

The apparatus enclosure provides a degree of ingress protection of at least IP 65 respectively IP 67 in accordance with EN 60529.

The indicated maximum surface temperature "T" of the enclosure is referred to a maximum ambient temperature of 60 °C.

Installation instruction

Cable entries shall comply with clause 6.9 of EN 50281-1-1. In order to assure the above mentioned degree of ingress protection of the enclosure, cable entries at least shall have the corresponding rating.

All other data remain unchanged.

Test documentation

Drawing No. 127651, rev. F)	<u>signed</u>
131896, rev. E (2 sheets))	31.01.2003

Arnhem, 12 March 2003
KEMA Quality B.V.



T. Pijpker
Certification Manager

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