

(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 03ATEX1051 X**

(4) Equipment or protective system: **Valve Actuator Series 205.**

(5) Manufacturer: **IMI Norgren-Herion GmbH & Co. KG**

(6) Address: **Stuttgarter Strasse 120, 70736 Fellbach, Germany**

(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 Quality B.V., 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. 2022933.

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

EN 50014 : 1997 EN 50020 : 2002 EN 50284 : 1999 EN 50281-1-1 : 1998

(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.

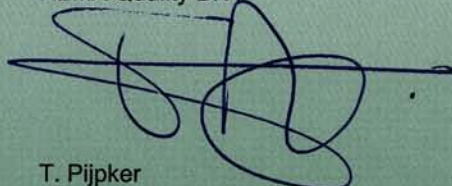
(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

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



**II 1 G EEx ia IIC T5 ... T6
II 2 D T 90 °C**

Arnhem, 10 April 2003
KEMA Quality B.V.



T. Pijpker
Certification Manager

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(13)

SCHEDULE

(14)

to EC-Type Examination Certificate KEMA 03ATEX1051 X

(15) **Description**

Valve actuators for use with mounted valve as released by the manufacturer, model series 205. . The different models of valve actuators are distinguished by the electrical data of the coils (number of windings, rated resistance).

The enclosure of the apparatus provides a protection of at least IP 66 in accordance with EN 60529.

Ambient temperature range: -40 °C ... +80 °C for temperature class T5
 -40 °C ... +70 °C for temperature class T6

The maximum temperature at the surface of the enclosure T 90 °C is referred to the maximum ambient temperature at the maximum electrical power.

Electrical data

Supply circuit in type of explosion protection intrinsic safety EEx ia IIC, (terminals + and -) only for connection to a certified intrinsically safe circuit, with following maximum values:

U_i	=	45 V
I_i	=	500 mA
P_i	=	2,5 W
C_i	=	0 nF
L_i	=	0 mH

Installation instructions

To achieve a degree of ingress protection of the Valve Actuators of at least IP 66 in accordance with EN 60529, a suitable cable entry with a degree of protection IP 66 shall be mounted correctly.

(16) **Report**

KEMA No. 2022933.

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

When installed in a potentially explosive atmosphere requiring the use equipment of category 1 G, ignition hazards due to the occurrence of hazardous electrostatic charges during operation or maintenance, even in the case of rare incidents, shall be avoided.

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

Covered by the standards listed at (9).

(19) **Test documentation**

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1. Description (2 pages))	
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2. Drawing No. 0588965)	29.07.2002
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