

Translation

(1) **EC-Type Examination Certificate**

**TÜV NORD**



(2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 94/9/EC**

- (3) **Certificate Number** TÜV 07 ATEX 553412 X
- (4) for the equipment: Valve actuator electro-magnet  
Type 95...
- (5) of the manufacturer: IMI Norgren Buschjost GmbH & Co KG
- (6) Address: Detmolder Straße 256  
32545 Bad Oeynhausen  
Germany


Order number: 8000553412

Date of issue: 2007-10-15

- (7) This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV NORD CERT GmbH, notified body No. 0044 in accordance with Article 9 of the Council Directive of the EC of March 23, 1994 (94/9/EC), 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 the confidential report No. 07203553412.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

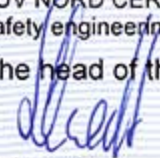
EN 50 014:1997 +A1+A2      EN 50019:2000      EN 50 028:1987  
EN 50 281-1-1:1998+A1

- (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 in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the equipment or protective system must include the following:

 **II 2 G EEx me II T3 resp. T4    resp. II 2 G EEx m II T3 resp. T4**  
**II 2 D T140°C**

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, accredited by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The head of the certification body

  
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(13) **SCHEDULE**

(14) **EC-Type Examination Certificate No. TÜV 07 ATEX 553412 X**

(15) Description of equipment

Valve actuators electro-magnet for single mounting to be used for pushing and pulling action with a mounted valve type 95...

The different types are differ in the rated power, the cable entries and / or the type of connection (terminals or cable).

The relation between ambient temperature, process temperature and temperature class is shown in the following table:

Type	Ambient temperature	Process temperature	temperature class
9540...9559	-40°C...+40°C	≤ 60°C	T4
	-40°C...+40°C	≤ 100°C	T3
9560...9564	-40°C...+60°C	≤ 100°C	T4
	-40°C...+70°C	≤ 100°C	T3

The maximum surface temperature of the enclosures is based on the maximum ambient temperature of 70°C (type 9560..9564) resp. 40°C (type 9540..9559).

Electrical data

Rated voltage: depending on the type  
24....400V DC resp. 24...400V AC

Rated cross section of connecting cable: 2.5mm<sup>2</sup> single- or multi-strand, max. 4mm<sup>2</sup> single-strand  
(for types with connecting terminals without permanently connected cable)

Type 9540..9559

Rated current: 3.10...0.163A

Rated power: 65W

Type 9560...9564

Rated current: 2.24...0.118A

Rated power: 47W

(16) Test documents are listed in the test report No. 07203553412.

(17) Special conditions for safe use

Every valve actuator electro-magnet must be protected against short circuits by a fuse with a rating in accordance with the rated current (max. 3xI<sub>B</sub> acc. to IEC 60127-2-1). The rated voltage of the fuse must have a minimal value of the nominal voltage of the valve actuator electro-magnet.

The breaking capacity of the fuse must have a minimal value in accordance of the prospective short current at the place of installation.

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The valve actuator electro-magnet with connecting terminals without permanently connected cable must be mounted with a cable entry which meets the requirements of the directive 94/9/EC and of the type of explosive protection "Increased safety e" at least. The cable entries must be suitable for the conditions of use and correctly installed. The temperature range for use must be at least  $-40^{\circ}\text{C}$  ...  $+100^{\circ}\text{C}$ .

A heat resistant cable with a continuous operating temperature of at least  $120^{\circ}\text{C}$  must be used.

The cable of the valve actuator electro-magnet with permanently connected cable must be connected in a junction box which meets the requirements of at least one of the types of protection named in EN 50014. For use in the presence of combustible dust the junction box must have an IP 6X rating according to EN 60529.

The cable of the valve actuator electro-magnet with permanently connected cable must be installed fixed.

For mounting and installation of the valve actuator electro-magnet the requirements of EN 60079-14 shall be met.

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

no additional ones