

[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: **DEMKO 10 ATEX 1007782X**

[4]

Equipment or Protective System: **Electric Solenoid Operators**

[5]

Manufacturer: **Asco**

[6]

Address: **50 Hanover Drive, Florham Park, NJ 07932, USA**

[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]

UL International Demko A/S, notified body number 0539 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 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. **10NK07782**

[9]

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

**EN 60079-0:2009**

**EN 60079-1:2007**

[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 the certificate.

[12]

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

II 2 G Ex d IIB T6 Gb

**Certification Manager**

Jan-Erik Storgaard

Date of issue: 2011-01-10

**Notified Body**

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[13]  
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**Schedule**  
**EC-TYPE EXAMINATION CERTIFICATE No.**  
**DEMKO 10 ATEX 1007782X**  
**Report: 10NK07782**

[15] Description of Equipment or protective system  
Cat. Nos. HV298934001 and HV298934002 are direct acting electric solenoid operators. Each electric solenoid operator consists of a solenoid housing that connects to a valve body via a threaded joint. The solenoid housing has an integral cast conduit fitting with factory sealed lead wires for connection to external circuits. The bonnet of the solenoid operator forms a flanged internal joint with the valve body to complete the flameproof enclosure.

Temperature range  
The ambient temperature range is -20°C to +50 °C.

Electrical data

Cat. No. HV298934001: 12/24 Vdc, 1.30 W  
Cat. No. HV298934002: 12/24 Vdc, 0.55 W

Installation instructions

- The installation instructions for the electric solenoid operators are provided in the manufacturer's installation & maintenance instructions

Mounting instructions

- The mounting instructions for the electric solenoid operators are provided in the manufacturer's installation & maintenance instructions

Routine tests

The weld between the bonnet and sleeve and plug nut and sleeve of the guide tube assembly shall be tested for leakage at 10,4 bar (150 psi).

[16] Report No.  
Project Report No.: 10NK07782 (Hazardous Location Testing)

Documents:

Description:	Drawing No.:	Rev. Level:	Date:
Solenoid Operator Assembly	298934	D	2010-12-09
Guide Tube Assembly	297521	D	2010-01-27
Installation & Maintenance Instructions (EF8320 Valve)	V9621R1	-	2010-12
Installation & Maintenance Instructions (EF8317 Valve)	V9622R1	-	2010-12
Installation & Maintenance Instructions (EF8321 Valve)	V9623R1	-	2010-12
Valve Body Marking Label (EF8317 & EF8321 Valve)	427342	A	2010-12
Valve Body Marking Label (EF8320 Valve)	427343	A	2010-12
Housing Marking Label	299024	C	2010-11-17

[17] Special conditions for safe use:

- Contact manufacturer for information on the dimensions of the flameproof joints.
- Replacement parts or rebuild kits are not available.

[18] Essential Health and Safety Requirements  
Concerning ESR this Schedule verifies compliance with Annex III of ATEX directive only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

Additional information

The Electric Solenoid Operators, Cat. Nos. HV298934001 and HV298934002, have in addition passed the tests for Ingress Protection to IP 67 in accordance with EN60529: 1991/A1 2001.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.