

# CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**

2. **Certificate No:** FM17US0181  
3. **Equipment:** Axiom series AMI valve position monitor  
(Type Reference and Name)

4. **Name of Listing Company:** Neles USA Inc. dba StoneL

5. **Address of Listing Company:** 26271 US Hwy 59  
Fergus Falls MN 56537  
United States

6. The examination and test results are recorded in confidential report number:  
3026085 dated 29<sup>th</sup> June 2006

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM Class 3600:2018, FM Class 3610:2018, FM Class 3611:2018, FM Class 3810:2005,  
ANSI/UL 60079-0:2020, ANSI/UL 60079-11:2014,  
ANSI/UL 121201:2017, ANSI/ISA 61010-1:2004, ANSI/NEMA 250:2018


8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

10. Equipment Ratings:

Intrinsically Safe for use in Class I, II, III, Division 1, Groups A, B, C, D, E, F, G  
Nonincendive for Class I, Division 2, Groups A, B, C, D  
Suitable for Class II, III, Division 2, Groups E, F, G  
Indoor and Outdoor Type 4, 4X, 6

**Certificate issued by:**

  
\_\_\_\_\_  
J.E. Marquedant  
VP, Manager - Electrical Systems

4 January 2021  
\_\_\_\_\_  
Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

**THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE**

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA  
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: [information@fmapprovals.com](mailto:information@fmapprovals.com) [www.fmapprovals.com](http://www.fmapprovals.com)

# SCHEDULE



US Certificate Of Conformity No: FM17US0181

11. The marking of the equipment shall include:

AMI44, 93 Option

Intrinsically Safe CI I,II, III Div 1 & 2, Gp A, B, C, D, E, F, G

Intrinsically Safe CI I, Div 1 & 2, Gp A, B, C, D

Nonincendive CI I, Div 2, Gp A, B, C, D; CI II, III, Div 2, Gp F, G

Type 4, 4X, 6

AMI33, 92, 94, 96, 97 Options

Nonincendive CI I, Div 2, Gp A, B, C, D; CI II, III, Div 2, Gp F, G

Type 4, 4X, 6

12. **Description of Equipment:**

**General** - The Axiom AMI series is designed to monitor and control the position of a valve. This device consists of a sensing and communication module, an optional solenoid or solenoids for pneumatic control, connection options to plant electrical and communication systems and a visual indicator to the fluid being processed. The sensing and communication module has several available options:

**Construction** - The Axiom AMI apparatus is enclosed in an aluminum housing, aluminum or polycarbonate cover and attaches directly to various actuators and valves.

**Ratings –**

**AMlabcdfg-h:**

Entity Parameters when a = 44,  $U_i = 16V_{dc}$ ,  $I_i = 25mA$ ,  $P_i = 1.0W$ ,  $C_i = 4.4nF$ ,  $L_i = 0mH$

Entity Parameters when b = 1E, 2E, 3E, 4E, 5E or 6E,  $U_i = 28V_{dc}$ ,  $I_i = 120mA$ ,  $P_i = 1.0W$ ,  $C_i = 0$ ,  $L_i = 0$

FISCO Parameters only when a = 93,  $U_i = 30V_{dc}$ ,  $I_i = 380mA$ ,  $P_i = 5.32W$ ,  $C_i = 0$ ,  $L_i = 0$

T5\*\*  $T_{a^{***}} = -18^{\circ}C$  to  $+50^{\circ}C$

\*\*When a = 92, 96, or 97, T4A

\*\*\*When b = 1A, 2A, 3A, 4A, 5A or 6A,  $T_a = -10^{\circ}C$  to  $+60^{\circ}C$

\*\*\*When h = T,  $T_a = -40^{\circ}C$  to  $+80^{\circ}C$

**AMI96abcDde-f:**

T6  $T_{a^*} = -18^{\circ}C$  to  $+50^{\circ}C$

\*When f = T,  $T_a = -40^{\circ}C$  to  $+75^{\circ}C$

**AMlabcdfg-h Valve Position Monitor**

a = Function 33, 44, 92, 93, 94, 96 or 97

b = Solenoid 11, 1A, 1B, 1D, 1E, 1H, 2A, 2B, 2D, 2E, 2H, 3A, 3B, 3D, 3E, 3H, 4A, 4B, 4D, 4E, 4H, 5A, 5B, 5D, 5E, 5H, 6A, 6B, 6D, 6E or 6H

c = Enclosure A

d = Junction 02, 05, 10, 11, 13, 15, 17, 18, 19, 20 or 21

e = Capabilities S

f = Visual Indication X, G, R, 1 or 2

g = Brandin A or M

h = Options T or up to 5 Alpha and /or Numeric Digits for Special and Marketing identification.

Note: Options digits do not affect the integrity of the enclosure, the electrical safety or the title marking of the product.

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# SCHEDULE



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US Certificate Of Conformity No: FM17US0181

## **AMlabcdefg-h Valve Position Monitor**

*a = Function 33, 44, 92, 93, 94, 96 or 97*

*b = Solenoid 11, 1A, 1B, 1D, 1E, 1H, 2A, 2B, 2D, 2E, 2H, 3A, 3B, 3D, 3E, 3H, 4A, 4B, 4D, 4E, 4H, 5A, 5B, 5D, 5E, 5H, 6A, 6B, 6D, 6E or 6H*

*c = Enclosure E*

*d = Junction 02, 05, 10, 11, 13, 15, 17, 18, 19, 20 or 21*

*e = Capabilities S*

*f = Visual Indication X, G, R, 1 or 2*

*g = Brandin A or M*

*h = Options T or up to 5 Alpha and /or Numeric Digits for Special and Marketing identification.*

*Note: Options digits do not affect the integrity of the enclosure, the electrical safety or the title marking of the product.*

## **AMI96abcDde-f. Valve Position Monitor.**

*a = Solenoid 11, 1D, 2D, 3D, 4D, 5D or 6D.*

*b = Enclosure A*

*c = Junction 02, 05, 10, 11, 13, 15, 17, 18, 19, 20 or 21.*

*d = Visual Indication X, G, R, 1 or 2.*

*e = Branding A or M.*

*f = Options T or up to 5 Alpha and/or Numeric Digits for Special and Marketing Identification.*

*Note: Option digits do not affect the integrity of the enclosure, the electrical safety or the title marking of the product.*

## **AMI96abcDde-f. Valve Position Monitor.**

*a = Solenoid 11, 1D, 2D, 3D, 4D, 5D or 6D.*

*b = Enclosure E*

*c = Junction 02, 05, 10, 11, 13, 15, 17, 18, 19, 20 or 21.*

*d = Visual Indication X, G, R, 1 or 2.*

*e = Branding A or M.*

*f = Options T or up to 5 Alpha and/or Numeric Digits for Special and Marketing Identification.*

*Note: Option digits do not affect the integrity of the enclosure, the electrical safety or the title marking of the product.*

### **13. Specific Conditions of Use:**

None.

### **14. Test and Assessment Procedure and Conditions:**

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

### **15. Schedule Drawings**

A copy of the technical documentation has been kept by FM Approvals.

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## 16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
29 <sup>th</sup> June 2006	Original Issue.
22 <sup>nd</sup> June 2017	<u>Supplement 7:</u> Report Reference: – 3061079 dated 22 <sup>nd</sup> June 2017 Description of the Change: Listing update to reflect changes made to product ratings and documentation updates.
4 <sup>th</sup> January 2021	<u>Supplement 8:</u> Report Reference: RR225434 dated 4 <sup>th</sup> January 2021. Description of the Change: Name of Company changed to Neles USA Inc. dba StoneL. FM3600, FM3610, FM3611, and ANSI/NEMA 250 updated to 2018. ANSI/UL 60079-0:2019, ANSI/UL 60079-11:2014 and ANSI/UL 121201:2017, ANSI/ISA 61010-1:2004 are added. Minor documentation updates.

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