

January 16, 2015

The attached documentation are certificates associated with AAA Products International intrinsically safe coil. The intrinsically safe coil is sold as an assembly which consists of a solenoid operator, coil, nut and din connector. The entire assembly is AAA part number V-564 and is Nass number 1433 72-340/5146. The Nass coil operator is number 1259 06-400/5146. The coil cannot be purchased separately.

| AAA Part Number | Voltage     | Nass Number      |
|-----------------|-------------|------------------|
| V-564           | 24 Volt D-C | 1259 06-400/5146 |

Russ McKenna  
Engineer



# Certificate of Compliance

**Certificate:** 1141987

**Master Contract:** 152603

**Project:** 2659793

**Date Issued:** September 6, 2013

**Issued to:** Nass Magnet GmbH  
Eckenerstrasse 4 - 6  
Hannover, 30179  
Germany  
Attention: Rudolf Barth

*The products listed below are eligible to bear the CSA Mark shown*



*D. Simpson Certifier*

**Issued by:** D. Simpson Certifier

## **PRODUCTS**

**CLASS 3218 06** - INDUSTRIAL CONTROL EQUIPMENT - Miscellaneous Apparatus - For Hazardous Locations

### **Class I, Groups A, B, C and D; Class II, Groups E, F and G; Class III:**

- Solenoid operators, Model 1259 06 400/5142 /5146; rated 24V dc, 0.05A; intrinsically safe (System) when connected to a CSA Certified barrier device, rated 28V max, 300 ohms min; intrinsically safe (Entity) with entity parameters of:  $V_{max} = 28V$ ,  $I_{max} = 115mA$ ,  $Li = 0$ ,  $Ci = 0$  when installed per installation dwg 1259 06 400; Max Ambient 50 Deg C.

- Solenoid operators, Model 1259 06 450/5142 /5146; rated 24V dc, 0.05A; intrinsically safe (System) when connected to a CSA Certified barrier device, rated 28V max, 300 ohms min; intrinsically safe (Entity) with entity parameters of:  $V_{max} = 28V$ ,  $I_{max} = 115mA$ ,  $Li = 0$ ,  $Ci = 0$  when installed per installation dwg 1259 06 450; Max Ambient 50 Deg C.

- Solenoid operators, Model 1259 16 450/5146; rated 24V dc, 0.05A; intrinsically safe (System) when connected to a CSA Certified barrier device, rated 28V max, 300 ohms min; intrinsically safe (Entity) with entity parameters of:  $V_{max} = 28V$ ,  $I_{max} = 115mA$ ,  $Li = 0$ ,  $Ci = 0$  when installed per installation dwg 1259 16 450; Max Ambient 50 Deg C.

- Solenoid operator, Model 1259 50 450/5146; rated 24V dc, 0.05A; intrinsically safe (System) when connected to a CSA Certified barrier device, rated 28V max, 300 ohms min; intrinsically safe (Entity) with entity parameters of:  $V_{max} = 28V$ ,  $I_{max} = 115mA$ ,  $Li = 0$ ,  $Ci = 0$  when installed per installation dwg 1259 50 450; Ambient - 40 to +85 Deg. C.



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- Solenoid operator, Model EN-3198-22-XISC-D024; rated 24V dc, 0.05A; intrinsically safe (System) when connected to a CSA Certified barrier device, rated 28V max, 300 ohms min; intrinsically safe (Entity) with entity parameters of:  $V_{max} = 28V$ ,  $I_{max} = 115mA$ ,  $L_i = 0$ ,  $C_i = 0$  when installed per installation dwg 1259 12 450; Max Ambient 50 Deg C.

- Solenoid operator, Model EN-3198-22-XISC-44-D024; rated 24V dc, 0.05A; intrinsically safe (System) when connected to a CSA Certified barrier device, rated 28V max, 300 ohms min; intrinsically safe (Entity) with entity parameters of:  $V_{max} = 28V$ ,  $I_{max} = 115mA$ ,  $L_i = 0$ ,  $C_i = 0$  when installed per installation dwg 108-060-0022; Ambient -40 to +85 Deg C.

- Solenoid operator, Model VA10647; rated 24V dc, 0.05A; intrinsically safe (System) when connected to a CSA Certified barrier device, rated 28V max, 300 ohms min; intrinsically safe (Entity) with entity parameters of:  $V_{max} = 28V$ ,  $I_{max} = 115mA$ ,  $L_i = 0$ ,  $C_i = 0$  when installed per installation dwg 108-060-0085; Ambient -40 to +85 Deg C.

- Solenoid operator, Models 3039; rated 24V dc, 0.05A; intrinsically safe (System) when connected to a CSA Certified barrier device, rated 28V max, 300 ohms min; intrinsically safe (Entity) with entity parameters of:  $V_{max} = 28V$ ,  $I_{max} = 115mA$ ,  $L_i = 0$ ,  $C_i = 0$  when installed per installation dwg 1259 15 400; Max Ambient 50 Deg C.

Note: The above Solenoid Operators are **not** for use with "Safety Valves" and are intended for use but not limited for use with Process and Industrial Control equipment only.

#### **APPLICABLE REQUIREMENTS**

- |                          |   |
|--------------------------|---|
| CAN/CSA-C22.2 No. 0-M91  | General Requirements – Canadian Electrical Code, Part II                      |
| C22.2 No. 14-05          | Industrial Control Equipment  |
| C22.2 No. 25-1966        | Enclosures for Use in Class II, Groups E, F and G Hazardous Locations         |
| CAN/CSA-C22.2 No. 157-92 | Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations |





This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

|                        |      |
|------------------------|------|
| Class 3600             | 1998 |
| Class 3610             | 2010 |
| Class 3810             | 1989 |
| Including Supplement 1 | 1995 |

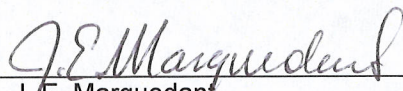
Original Project ID: 3015004

Approval Granted: April 30, 2004

Subsequent Revision Reports / Date Approval Amended

| Report Number | Date              | Report Number | Date |
|---------------|-------------------|---------------|------|
| 100514        | May 25, 2010      |               |      |
| 130131        | February 12, 2013 |               |      |

FM Approvals LLC

  
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J.E. Marquedant  
Group Manager, Electrical

12 February 2013  
Date