January 16, 2015

The attached documentation are certificates associated with AAA Products International intrically 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: Vmax = 28V, Imax = 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: Vmax = 28V, Imax = 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: Vmax = 28V, Imax = 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: Vmax = 28V, Imax = 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: Vmax = 28V, Imax = 115mA, Li = 0, Ci = 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: Vmax = 28V, Imax = 115mA, Li = 0, Ci = 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: Vmax = 28V, Imax = 115mA, Li = 0, Ci = 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: Vmax = 28V, Imax = 115mA, Li = 0, Ci = 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

FM Approvals®

Member of the FM Global Group

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

J.E. Marquedant

J. E. Marquedant
Group Manager, Electrical

12 February 2013
Date