



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX BAS 14.0011X** issue No.:0 Certificate history:.....

Status: **Current**

Date of Issue: **2014-04-08** Page 1 of 3

Applicant: **Compac Industries Limited**  
52 Walls Road  
Penrose  
Auckland 1061  
New Zealand

Electrical Apparatus: **CNG Solenoid Valve S2-350**  
Optional accessory:

Type of Protection: **Encapsulation Ex mb**

Marking: **Ex mb IIB T4 Gb(-40°C ≤Ta ≤+55°C)**

Approved for issue on behalf of the IECEx Certification Body: R S Sinclair *PP O'BRIENLEY*

Position: General Manager

Signature: *T. Bending*  
(for printed version)

Date: *8/4/14*

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:  
**SGS Baseefa Limited**  
Rockhead Business Park  
Staden Lane  
Buxton  
Derbyshire  
SK17 9RZ  
United Kingdom





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Manufacturer: **Compac Industries Limited**  
52 Walls Road  
Penrose  
Auckland 1061  
**New Zealand**

Additional Manufacturing location  
(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

**IEC 60079-0 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition: 6.0

**IEC 60079-18 : 2009** Explosive atmospheres Part 18: Equipment protection by encapsulation "m"  
Edition: 3

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

[GB/BAS/ExTR14.0045/00](#)

Quality Assessment Report:

[AU/TSA/QAR08.0008/03](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The CNG Solenoid Valve S2-350 is designed such that the Solenoid Coil actuates a mechanical Solenoid Valve mechanism. The coil is wound on a non-metallic bobbin and is fully encapsulated with a thermal fuse within a metallic yoke. The Solenoid Coil is mounted on the mechanical Solenoid Valve mechanism, which forms an integral part of the apparatus. The CNG Solenoid Valve S2-350 is provided with an integral cable and is designed to operate from a nominal 220V-240V a.c. 50Hz-60Hz supply. The Solenoid Coil is considered to provide a degree of protection of at least IP67 for the electrical circuit.

Rated voltage 220-240V a.c. 50/60Hz.

### CONDITIONS OF CERTIFICATION: YES as shown below:

1. The CNG Solenoid Coil S2-350 must be supplied from an external source which is provided with a 250V, 1A fuse having a 1500A prospective current.
2. The integral cable must be terminated in a suitable manner for the Zone of installation.
3. The CNG Solenoid Valve S2-350 comprises two parts, the Solenoid Coil and the Valve Body, and each has separate limitations on the permitted temperature range. Where the fluid temperature for the Valve Body exceeds the limitations for the Solenoid Coil of -40°C to 55°C, the installation must ensure that the excessive heat or cold is not passed by any means to the Solenoid Coil, since this will invalidate the certification.