

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: **Baseefa14ATEX0026X**

4 Equipment or Protective System: **CNG Solenoid Valve S2-350**

5 Manufacturer: **Compac Industries Limited**

6 Address: **52 Walls Road, Penrose, Auckland 1061, New Zealand.**

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa, Notified Body number 1180, 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 the 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. **GB/BAS/ExTR14.0045/00**

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

EN60079-0:2012 EN60079-18:2009

except in respect of those requirements listed at item 18 of the Schedule.

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 and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

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

⊕ II 2G Ex mb IIB T4 Gb(-40°C ≤Ta ≤+55°C)

Baseefa Customer Reference No. **5033**

Project File No. **12/0695**

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GENERAL MANAGER

On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number Baseefa14ATEX0026X**

15 **Description of Equipment or Protective System**

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.

16 **Report Number**

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17 **Specific Conditions of Use**

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.

18 **Essential Health and Safety Requirements**

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 **Drawings and Documents**

Number	Sheet	Issue	Date	Description
MAD0020D	1	C	17/03/2014	S2 Bobbin and Winding
MAD0020D	2	C	17/03/2014	S2 Bobbin and Winding - Premould
MAD0020D	3	C	17/03/2014	Fuse Protector Module
MAD0020D	4	C	17/03/2014	S2 Coil Assembly
MAD0020D	5	C	17/03/2014	S2 Coil Encapsulation
MAD0020D	6	C	17/03/2014	S2 Coil Mould Specification
MAD0020D	7	B	17/03/2014	S2-350 Certification Label
PDM910A	1-2	A	8/11/2013	S2-350 Bobbin
PDM1055B	1-3	B	19/03/2014	S2-350 Solenoid Yoke
MAD0024B	1	B	3/03/2014	CNG S2 Solenoid
MAD0024B	2	B	3/03/2014	CNG S2 Solenoid ODD
MAD0024B	3	B	3/03/2014	CNG S2 Solenoid Assembly
MAD0024B	4	B	3/03/2014	CNG S2 Solenoid BOM
MAD0024B	5	B	3/03/2014	S2-350 Solenoid Assembly

These drawings are common to and are held with IECEx BAS 14.0011X.