

1 **EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

3 EU - Type Examination Certificate **Baseefa14ATEX0026X – Issue 2**
Number:

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

4 Product: **CNG Solenoid Valve S2-350**

5 Manufacturer: **Compac Industries Limited**

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

7 This re-issued certificate extends EC Type Examination Certificate No. Baseefa14ATEX0026X to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

8.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR19.0240/00**

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

EN IEC 60079-0:2018 EN 60079-18:2015+A1:2017

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 product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:

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

SGS Fimko Oy Customer Reference No. **5033**

Project File No. **19/0349**

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SGS Fimko Oy

Särkiniementie 3

P.O. Box 30 FI-00211 Helsinki Finland

Telephone +358 (0)9 696 361 Fax. +358 (0)9 692 5474

e-mail sgs.fimko@sgs.com

web site www.sgs.fi

Business ID 0978538-5



D BREARLEY
Certification
Manager

R S SINCLAIR

Authorised Signatory for SGS Fimko Oy

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Schedule

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15 Description of Product

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 or 110 – 120V ac 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 or 110-120V ac 60Hz.

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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

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.2.7	LVD type requirements
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
MAD0020K	1/8	C	23/08/2019	CNG Solenoid Component S2 Bobbin and Winding 230V 50/60HZ Coil
MAD0020K	2/8	C	23/08/2019	CNG Solenoid Component S2 Coil Pre-mould
MAD0020K	3/8	C	23/08/2019	CNG Solenoid Component Fuse Protector Module
MAD0020K	4/8	C	23/08/2019	CNG Solenoid Component S2 Coils Assembly
MAD0020K	5/8	C	23/08/2019	CNG Solenoid Component Coil S2 Encapsulation
MAD0020K	6/8	C	23/08/2019	CNG Solenoid Component S2 Coil Mold Overall dimensions
MAD0020K	7/8	C	23/08/2019	CNG Solenoid Component S2 Solenoid Tag
MAD0020K	8/8	C	23/08/2019	CNG Solenoid Component S2 Bobbin and Winding 115v 60Hz Coil
MAD0024K	1/5	D	22/08/2019	CNG Solenoid CNG S2 Solenoid

Number	Sheet	Issue	Date	Description
MAD0024K	2/5	D	22/08/2019	CNG Solenoid CNG S2 Solenoid ODD
MAD0024K	3/5	D	22/08/2019	CNG Solenoid CNG S2 Solenoid ASSEMBLY
MAD0024K	4/5	D	22/08/2019	CNG Solenoid CNG S2 Solenoid BOM
PDM190C	1-2	C	20/02/2018	CNG Solenoid Component S2-350 Bobbin
PDM1055F	1-3	F	30/03/2016	CNG Solenoid Component S2 Solenoid Coil Yoke

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
MAD0024B	5/5	B	3/03/2014	S2-350 Solenoid Assembly

20 Certificate History

Certificate No.	Date	Comments
Baseefa14ATEX0026X	8 April 2014	The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0:2012 and EN 60079-18:2009 is documented in Test Report No. GB/BAS/ExTR14.0045/00 for project 12/0695.
Baseefa14ATEX0026X/1	17 March 2016	To permit update of the assessment standards to EN60079-0:2012 and EN 60079-18:2015. Report GB/BAS/ExTR16.0071/00 for project 16/0183.
Baseefa14ATEX0026X Issue 2	22 October 2019	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and confirms the current design meets the requirements of EN IEC 60079-0:2018 & EN 60079-18:2015+A1:2017. An alternative solenoid coil is introduced and minor mechanical changes are permitted. Report GB/BAS/ExTR19.0240/00 for project 19/0349
For drawings applicable to each issue, see original of that issue.		