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

Certificate No.:	IECEx BAS 08.0095X issue No.:9
Status:	**Current**
Date of Issue:	**2014-07-29** Page 1 of 4

Certificate history:
Issue No. 9 (2014-7-29)
Issue No. 8 (2014-3-21)
Issue No. 7 (2013-9-23)
Issue No. 6 (2013-5-2)
Issue No. 5 (2012-9-13)
Issue No. 4 (2011-5-26)
Issue No. 3 (2010-9-30)
Issue No. 2 (2010-3-22)
Issue No. 1 (2009-9-28)
Issue No. 0 (2008-11-18)

Applicant:
Bifold Fluidpower Limited
Broadgate
Oldham Broadway Business Park
Chadderton
Oldham
Greater Manchester
OL9 9XA
United Kingdom

Electrical Apparatus: **Solenoid Type 38/58/68**
Optional accessory:

Type of Protection: **Intrinsic safety**

Marking: **Ex ia IIC T6 Ga (-60°C ≤Ta ≤+60°C) P_i = 3W**

Approved for issue on behalf of the IECEx Certification Body: R S Sinclair

Position: General Manager

Signature:
(for printed version)

pp Alan Ogden

Date: 30 July 2014

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.

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

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Manufacturer: **Bifold Fluid Power**
Broadgate
Oldham Broadway Business Park
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OL9 9XA
United Kingdom

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 : 2007-10 Edition: 5	Explosive atmospheres - Part 0:Equipment - General requirements
IEC 60079-11 : 2006 Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

*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/ExTR08.0236/01	GB/BAS/ExTR09.0180/00	GB/BAS/ExTR10.0044/00
GB/BAS/ExTR10.0221/00	GB/BAS/ExTR11.0129/00	GB/BAS/ExTR12.0240/00
GB/BAS/ExTR13.0098/00	GB/BAS/ExTR13.0154/00	GB/BAS/ExTR14.0077/00

Quality Assessment Report:

GB/BAS/QAR07.0038/04

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Schedule

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

The Solenoid Type 38/58/68 are designed to accommodate a CETOP valve interface for manifold mounting applications requiring a small footprint.

The Solenoid comprises a wound coil across which are fitted duplicated suppression diodes forming an infallible assembly. The complete assembly is over-moulded and connector pins, for mating with the external free socket, enable electrical connection to the coil. The over-moulded assembly is housed within a stainless steel enclosure.

The Solenoid is adequately protected against the ingress of water; the enclosure providing a degree of protection of at least IP66.

The electrical parameters are:

Solenoid Type 38/58/68 3W Versions
Ex ia IIC T6 Ga (-60°C ≤Ta ≤+60°C) U_i = 35V dc I_i = 600mA P_i = 3W C_i = 0 L_i = 0

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The connection of the free socket must use a rubber seal between the mating parts to maintain IP66.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 9.1

This issue permits existing information (for example on Schedule Drawings) to be replaced by the revised certificate holders address. No other changes may be made to the certified design

File Reference: **14/0621**