



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEX BAS 09.0092X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 7	Issue 6 (2019-08-08)
Date of Issue:	2022-03-18		Issue 5 (2018-05-03)
Applicant:	Bifold Fluidpower Limited Broadgate Oldham Broadway Business Park Chadderton Oldham Greater Manchester OL9 9XA United Kingdom		Issue 4 (2014-07-29)
Equipment:	Type 28, 78, 88 & 98 Solenoid Operator		Issue 3 (2014-03-12)
Optional accessory:			Issue 2 (2013-06-12)
Type of Protection:	Intrinsic Safety & Protection by Enclosure		Issue 1 (2012-09-03)
Marking:	Type 28, 78, 88 & 98 Solenoid Operator Ex ia IIC T4 Ga (-60°C ≤ Ta ≤ +95°C) Ex ta IIIC T200 133°C Da (-60°C ≤ Ta ≤ +95°C) or Ex ia IIC T6 Ga (-60°C ≤ Ta ≤ +60°C) Ex ta IIIC T200 98°C Da (-60°C ≤ Ta ≤ +60°C) Type 28 Solenoid Operator Ex ia IIC T4 Gb (-60°C ≤ Ta ≤ +95°C) Ex ta IIIC T133°C Db (-60°C ≤ Ta ≤ +95°C) or Ex ia IIC T6 Gb (-60°C ≤ Ta ≤ +60°C) Ex ta IIIC T98°C Db (-60°C ≤ Ta ≤ +60°C)		Issue 0 (2010-01-28)

Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

Technical Manager

Signature:
(for printed version)

Date:
(for printed version)

18/03/2022

1. This certificate and schedule may only be reproduced in full.
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Certificate issued by:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton, Derbyshire, SK17 9RZ
United Kingdom





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

Manufacturing locations: **Bifold Fluidpower Limited**
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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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with 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 Reports:

[GB/BAS/ExTR07.0159/00](#)
[GB/BAS/ExTR13.0117/00](#)
[GB/BAS/ExTR18.0196/00](#)

[GB/BAS/ExTR07.0160/00](#)
[GB/BAS/ExTR14.0061/00](#)
[GB/BAS/ExTR21.0210/00](#)

[GB/BAS/ExTR12.0232/00](#)
[GB/BAS/ExTR17.0259/00](#)

Quality Assessment Report:

[GB/BAS/QAR07.0038/09](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Type 28, 78, 88 & 98 Solenoid Operator comprises a stainless steel cylindrical enclosure within which is mounted an encapsulated coil. This coil is used to operate an armature within the enclosure, which is used to control valves to which the Solenoid Operator may be attached. The enclosure cover may be fitted with a pushbutton which can be used to mechanically operate the valve.

Facilities for connection to the encapsulated coil are provided within the enclosure and a threaded boss, which forms part of the enclosure, permits cable entry via cable gland or conduit.

Terminal Parameters

$U_i = 31V$
 $I_i = 210mA$
 $P_i = 1.5W$
 $C_i = 0$
 $L_i = 0$

SPECIFIC CONDITIONS OF USE: YES as shown below:

The installation must use a suitably certified cable gland to ensure that the required degree of protection provided by the enclosure is maintained.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Variation 7.1

To permit a minor changes in product design and drawings not affecting the certification assessment.

Variation 7.2

To permit update of assessment standard to IEC 60079-0:2017 Edition 7.

ExTR: **GB/BAS/ExTR21.0210/00**

File Reference: **21/0541**