



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 11.0048 issue No.:5

Status: **Current**

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Certificate history:
Issue No. 5 (2016-5-31)
Issue No. 4 (2015-9-2)
Issue No. 3 (2015-3-20)
Issue No. 2 (2014-7-11)
Issue No. 1 (2014-1-15)
Issue No. 0 (2011-6-28)

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

Electrical Apparatus: **EXD2010 Electro-hydraulic Positioning System**
Optional accessory:

Type of Protection: **Flameproof & Dust tight**

Marking: **Ex d IIC T6* Gb (-40°C ≤ Ta ≤ +60°C)*
Ex tb IIIC T85°C* Db (-40°C ≤ Ta ≤ +60°C)* IP66 - * see schedule**

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

Position: Technical Manager

Signature:
(for printed version)

Date:

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: **Bifold Fluidpower Limited**
Broadgate
Oldham Broadway Business Park
Chadderton
Oldham
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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 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2008 Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'

*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/ExTR11.0098/00
GB/BAS/ExTR15.0231/00

GB/BAS/ExTR14.0006/00
GB/BAS/ExTR16.0142/00

GB/BAS/ExTR14.0105/00

Quality Assessment Report:

GB/BAS/QAR07.0038/05



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The EXD2010 Electro-hydraulic Positioning System comprises a cylindrical enclosure to IECEx SIR 08.0025U, with a solid or glazed cover. The cover is secured to the enclosure base by a threaded joint complete with a locking screw. Internal and external earthing facilities are provided.

The interior of the enclosure comprises an assembly of several circular printed circuit boards, all mounted on pillars from a steel baseplate. The internal PCB assembly may be any one of four optional arrangements, either as standard DC units (rated up to 28V d.c. and 100mA, with a maximum internal dissipation of 2.8W), or optional AC units (rated up to 250V a.c. and 90mA, with a maximum internal dissipation of 22.5W) as follows:-

- a. The EX200 Positioner (d.c. supply)
- b. The EX210 Positioner (d.c. supply)
- c. The EX200 AC SC Positioner (a.c. supply)
- d. The EX210 AC SC Positioner (a.c. supply)

The D.C. units (i.e. for use with a d.c. supply) have a temperature marking of T85°C, whilst the A.C. units (i.e. for use with an a.c. supply) have a temperature marking of T100°C.

The enclosure base includes three off 3/4" NPT or M20 cable entries for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with suitable certified flameproof stopping plugs. The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component).

When the equipment is used in dust applications the cable entries must be sealed in accordance with IEC60079-14, to maintain the IP66 rating.

CONDITIONS OF CERTIFICATION: NO



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

Variation 5.1

To incorporate the new maximum service temperature rating (+120°C) of the Type EHPC Operator, when fitted to the EXD2010 Electro-hydraulic Positioning System.

ExTR: GB/BAS/ExTR16.0142/00

File Reference: 16/0337