



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 15.0029 issue No.:1

Status: **Current**

Certificate history:
Issue No. 1 (2015-9-29)
Issue No. 0 (2015-7-13)

Date of Issue: 2015-09-29 Page 1 of 4

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

Electrical Apparatus: An Ex d Torque Drive
Optional accessory:

Type of Protection: Flameproof

Marking: Ex db IIB T6 Gb (Ta -20°C to +35°C) or
Ex db IIB T5 Gb (Ta -20°C to +50°C) or
Ex db IIB T4 Gb (Ta -20°C to +60°C)
IP66/67

Approved for issue on behalf of the IECEx
Certification Body:

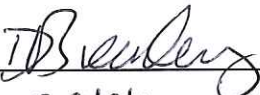
R S Sinclair

PP DUNREARLEY

Position:

Technical Manager

Signature:
(for printed version)



Date:

29/9/15

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
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Chadderton
Oldham
Greater Manchester
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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition: 6.0

IEC 60079-1 : 2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition: 7.0

*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/ExTR15.0070/00](#)

[GB/BAS/ExTR15.0272/00](#)

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 Ex d Torque Drive comprises of a motor within a cylindrical housing. The housing has a welded flange and a press fit bearing endcap at the drive end and a welded end cap at the non-drive end. The non-drive end is provided with a welded cable boss, and an endplate bolted to the endcap to provide access to the terminals. Fasteners are provided at the bearing end cap to secure the internal motor and further fasteners are provided to secure the torque drive housing to the pump flange. The bearing supported drive shaft passes through the bearing endcap and the pump flange to drive an impeller.

All the materials are stainless steel, the cover fasteners are grade A4-80, and the torque drive is rated up to 24Vdc, 2.8 A continuous. Alternatively the drive can have duty cycles of S2 30min/hr <4A, S2 15min/30min <5A, S2 5min/30min <6A.

Cable entry holes are provided as specified on the certified drawings 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 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).

CONDITIONS OF CERTIFICATION: NO



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

Variation 1.1

To permit alternative flamepath gaps.

Variation 1.2

Clarification of the duty cycles to:-

Alternatively the drive can have duty cycles of S2 30min/hr \leq 4A, S2 15min/30min \leq 5A, S2 5min/30min \leq 6A.

ExTR: GB/BAS/ExTR15. 0272/00

File Reference: 15/0668