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 Number: **Baseefa08ATEX0292X – Issue 11**

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: **Solenoid Type 58**

5 Manufacturer **Bifold Fluidpower Limited**

6 Address: **Broadgate, Oldham Broadway Business Park, Chadderton, Oldham, Greater Manchester, OL9 9XA**

7 This re-issued certificate extends EC Type Examination Certificate No. Baseefa08ATEX0292X 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. **See Certificate History**

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

EN IEC 60079-0: 2018 **EN 60079-11: 2012**

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:

Ex II 1 G Ex ia IIC T6 Ga (-60°C ≤ Ta ≤ +60°C)

SGS Fimko Oy Customer Reference No. **1688** Project File No. **21/0542**

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13 # Schedule

14 ## Certificate Number Baseefa08ATEX0292X – Issue 11

15 Description of Product

The Solenoid Type 58 is 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:

Ui =	35 Vdc	Ci =	0
Ii =	600 mA	Li =	0
Pi =	3.00 W		

16 Report Number

See Certificate History

17 Specific Conditions of Use

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

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
1.2.8	Overloading of equipment (protection relays, etc.)
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
0-SC0038	1 of 2	0-0	04/02/2022	58 Series Solenoid Assembly
0-SL0008	1 of 1	3	31/03/2022	Type 58 Solenoid Label Exia

These drawings are common to BAS21UKEX0842X and IECEx BAS 08.0095X.

All previous versions of drawings have become obsolete and have been replaced by the drawings above.

20 Certificate History

Certificate No.	Date	Comments
Baseefa08ATEX0292X	18 November 2008	The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0: 2006 and EN 60079-11: 2007 is documented in Test Report No. GB/BAS/ExTR08.0236/00 stored with Project File 08/0421.
Baseefa08ATEX0292X /1	28 September 2009	To permit minor mechanical changes not affecting the original assessment. The relevant information related to the assessment is stored in Project File 09/0703.
Baseefa08ATEX0292X /2	22 March 2010	To permit minor mechanical changes not affecting the original assessment but forming the Type 48 Solenoid. Furthermore, the project permits assessment to consider alternative entity parameters and alternative ambient temperature and temperature classification ranges. The relevant information related to the assessment is documented in Test Report No. GB/BAS/ExTR10.0044/00 stored in Project File 09/1000.
Baseefa08ATEX0292X /3	30 September 2010	To permit minor mechanical changes not affecting the original assessment but forming the Type 48 Solenoid. Furthermore, the project permits minor changes to the Type 48 and Type 68 label drawings. The relevant information related to the assessment is documented in Test Report No. GB/BAS/ExTR10.0221/00 stored in Project File 10/0411.
Baseefa08ATEX0292X /4	26 May 2011	To permit the use of a brazed stainless steel outer enclosure which carries a cable gland, replacing the Hirschman connector, to provide access for the supply cable and the PCB carrying the suppression diodes is changed to allow radial mounting in line with the coil, thus forming a Type 58 Solenoid. The electrical parameters remain unchanged. The relevant information related to the assessment is documented in Test Report No. GB/BAS/ExTR11.0129/00 stored in Project File 11/0294.
Baseefa08ATEX0292X /5	11 September 2012	To permit Solenoid Types 38/48/58/68 to be used in a Group IIC explosive atmosphere in addition to Group IIB explosive atmospheres. The relevant information related to the assessment is documented in Test Report No. GB/BAS/ExTR12.0240/00 stored in Project File 12/0575.
Baseefa08ATEX0292X /6	02 May 2013	To confirm the current design of the Type 38/48/58/68 Solenoid meets the requirements of EN 60079-0: 2009; the marking is unchanged. Furthermore, the variation permits minor modification to the Type 58 solenoid not affecting the original assessment in addition to minor changes to the Type 58 coil specification forming a Type 58 20mA Solenoid. The relevant information related to the assessment is documented in Test Report No. GB/BAS/ExTR13.0098/00 stored in Project File 12/0949.
Baseefa08ATEX0292X /7	12 August 2013	To permit minor changes to the marking label which do not affect the original assessment. The relevant information related to the assessment is documented in Test Report No. GB/BAS/ExTR13.0154/00 stored in Project File 13/0507.
Baseefa08ATEX0292X /8	21 March 2014	To permit the ambient temperature range to be increased to -60°C $\leq$ Ta $\leq$ +60°C with subsequent changes to the marking labels. Additionally, the Type 48 Solenoid was removed from the models covered by the certification. The relevant information related to the assessment is documented in Test Report No. GB/BAS/ExTR14.0077/00 stored in Project File 14/0248.

Certificate No.	Date	Comments
Baseefa08ATEX0292X /9	29 July 2014	To permit 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. The relevant information related to the assessment is stored in Project File 14/0621.
Baseefa08ATEX0292X Issue 10	12 November 2018	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 and EN 60079-11: 2012 including the revision of the equipment marking in accordance with these standards. Furthermore, the certificate permits minor modification to the mechanical parts of the assessment not affecting the previous assessment for the Type 58 solenoid only. The relevant information related to the assessment is documented in Test Report No. GB/BAS/ExTR18.0250/00 stored in Project File 17/0443.
Baseefa08ATEX0292X Issue 11	19 April 2022	To permit a minor change in product design and drawings not affecting the certification assessment. Additionally, Solenoid Types 38 and 68 were removed from the models covered by the certification. Report GB/BAS/ExTR22.0061/00 for Project 21/0542.
For drawings applicable to each issue, see original of that issue.		