

1 **EU - TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use on/in an Equipment or Protective System
Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

3 EU - Type Examination Certificate **Baseefa16ATEX0062U – Issue 3**
Number:

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: **RGP Range of multi cable transits**

5 Manufacturer: **MCT Brattbreg AB**

6 Address: **Karlskrona, SE 371-92, Sweden**

7 This re-issued certificate extends EC Type Examination Certificate No. Baseefa16ATEX0062U 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 the product, as modified by this supplementary certificate, 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 IEC 60079-7:2015+A1:2018 EN 60079-31:2014

except in respect of those requirements listed at item 18 of the Schedule.

10 The sign “U” is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

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:

⊕ II 2 GD Ex eb IIC Gb Ex tb IIIC Db Service Temperature (-60°C to +70°C)

SGS Baseefa Customer Reference No. **5909**

Project File No. **21/0112**

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Mikko Välimäki
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13

Schedule

14

Certificate Number Baseefa16ATEX0062U – Issue 3

15 Description of Product

The RGP range of multi cable transits are a circular seal construction intended for use with circular cables or circular metal pipes. The construction incorporates a sleeve which may be welded, cast in concrete or bolted to an enclosure or building wall.

The RGP range of multi cable transits are assembled from the following:

- a) RGP Sleeve / frames are detailed in matrix drawing No 1170407. The sleeve variants will either be component or equipment certified, depending upon how they are mounted. The RGP sleeves are available in 7 various sizes ranging from an inside diameter of 51mm which is designated 50, to inside diameter of 202mm which is designated 200, and 5 sizes of imperial equivalents from 3” to 8”.

The sleeves are manufactured from metal and may be of machined or welded construction, with the material having a minimum tensile strength of 340 N/mm². The sleeves /frames provide an aperture for the insertion of RGP Lycron A plug which when fitted with insert blocks seals around the cables or pipes. These Sleeves / frames may be plated or surface treated to suit the application.

- b) RGP plugs, which have a circular outer design and a square inner construction, allow for the introduction of a variety of square blocks as described below. The plugs are available in the corresponding 7 sizes to the sleeves, and are given the designation of RGP 50, RGP50S, RGP 70, RGP 100, RGP 125, RGP 150 and RGP 200, and 5 sizes of imperial equivalents from 3” to 8”.

The circular plugs are fitted into an equivalent circular RGP Sleeve / frames in a fully relaxed state, and when fitted with the corresponding blocks are tightened to a required torque via M4, M5, M6 or M8 fasteners. The tightening of the fasteners compresses the Lycron A material from which they are manufactured and displace the insert blocks to seal the cables / pipes. A variation of the frame may be manufactured with an open construction and is given the designation RGPO. The Frame may also be manufactured to provide EMC protection.

- c) Solid rubber insert blocks manufactured from Lycron A. These blocks range from 20mm to 120mm square, and are 60mm in length. Blocks of this type are marked and designated 20/0 to 120/0. Solid rubber insert blocks are available for the RGP50S plug at a length of 30mm. A variation of the solid Insert Blocks may also be manufactured to provide EMC protection.
- d) Insert blocks manufactured from Lycron A. These blocks have moulded semi-circular concave sections of fixed radius along their length, which when placed on top of each other form a square block of 20 to 120mm. The blocks have a central circular hole of fixed diameter, ranging from 4mm to 90mm depending on the block size, These blocks are 60mm in length, and when compressed form a seal around circular cables or pipes. Insert blocks are available for the RGP50S plug at a length of 30mm. All these blocks together with their associated cables or pipes are assembled in rows inside the frame up to a specified height, with the block halves designated and marked 20/4 to 120/90. A variation of the Insert Blocks may also be manufactured to provide EMC protection.
- e) A variation to the insert blocks called an AddBlock, the AddBlock comes in 11 different sizes and provides tear off wing inserts which are of varying thickness. The wing inserts are manufactured with locating ridges, which when inserted into the furrows of the main block provide 55 different cable and pipe dimensions ranging from 3.5mm to 69.5mm. The AddBlocks have the option of being fitted with 9 different sizes of plug, which allows for ease of modification to existing installations. The manufacturer provides a variation to the AddBlock with E.M.C. capability as per the existing blocks.

16 Report Number

See Certificate History

17 Schedule of Limitations

1. These transits are suitable for use within an operating temperature range of -40°C to $+70^{\circ}\text{C}$.
2. The blocks must be assembled using the manufacturer's supplied tallow lubricant which must be applied to all faces of the sealing blocks prior to assembly.
3. The transits are only for use with circular cables and circular pipes
4. Cables and pipes must be effectively clamped to prevent pulling and twisting being transmitted.
5. The fasteners of all variants shall be torqued up to the values defined below:

RGP50 =3Nm
RGP50S =2.5Nm
RGP70 =4Nm
RGP100 =6Nm
RGP125 =7Nm
RGP150 =12Nm
RGP200 =15Nm

6. The assembled frames and blocks shall be re-torqued after a period of 24 hours to the values listed above. The torque value shall then be checked again after 48 hours and re-tightened if required. This shall be completed prior to the installation being energised.
7. When the Sleeve is used for increased safety or dust protection, the Sleeve shall be suitably sealed (in accordance with IEC 60079-14) to maintain the ingress protection rating of the associated enclosure
8. Non-metallic surfaces shall be protected from electrostatic charging hazards

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
1.4.1	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
1160017	1	C	28.06.22	Spare Block EMC ATEX / IECEx
1160132	1	B	29.06.22	PLUG ATEX / IECEx
1160133	1	B	29.06.22	ADDBLOCK ATEX / IECEx
1160134	1	B	29.06.22	ADDBLOCK EMC 20/4 – 20/8 ATEX / IECEx
1160135	1	B	29.06.22	ADDBLOCK EMC ATEX / IECEx
1170409	1	B	05.10.2022	Insert Blocks EMC ATEX / IECEx RGP

The above drawings are common to Baseefa16ATEX0063X, IECEx BAS 16.0053U and IECEx BAS 16.0111X

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
1080426	1	D	18.02.22	Sleeves-Drawing S, SFR, SFRB, SFRBO ATEX
1080473	1	D	2018-03-08	ATEX Metal Plate RGP
1150422	1	B	2015.12.04	Insert Blocks Normal Module
1150426	1	A	15.04.09	Spare Block Normal Module ATEX
1160131	1	A	16.03.15	WRAP ATEX / IECEX
1160139	1	A	16.06.03	PIN FOR EMC BLOCKS ATEX / IECEX
1160140	1	A	16.06.02	EMC CONTACT SHEET INSERT TAB E20/4 & E20/5 TO ADDBLOCK EMC 20/4-8 ATEX / IECEX
1160141	1	A	16.06.02	CONTACT SHEET ADDBLOCK EMC 20/4-8 ATEX / IECEX
1160142	1	A	16.06.02	CONTACT SHEET ADDBLOCK EMC 20/9-13 ATEX / IECEX
1160143	1	A	16.06.02	CONTACT SHEET ADDBLOCK EMC 30/14-18 ATEX / IECEX
1160144	1	A	16.06.02	CONTACT SHEET ADDBLOCK EMC 30/19-23 ATEX / IECEX
1160145	1	A	16.06.02	CONTACT SHEET ADDBLOCK EMC 40/24-28 ATEX / IECEX
1160146	1	A	16.06.02	CONTACT SHEET ADDBLOCK EMC 40/29-33 ATEX / IECEX
1160147	1	A	16.06.02	CONTACT SHEET ADDBLOCK EMC 60/32-38 ATEX / IECEX
1160148	1	A	16.06.02	CONTACT SHEET ADDBLOCK EMC 60/39-43 ATEX / IECEX
1160149	1	A	16.06.02	CONTACT SHEET ADDBLOCK EMC 60/44-48 ATEX / IECEX
1170172	1	A	2017-07-03	Gasket for SFRB / SFRBO – 50 ATEX
1170173	1	A	2017-07-03	Gasket for SFRB / SFRBO – 70 ATEX
1170174	1	A	2017-07-03	Gasket for SFRB / SFRBO – 100 ATEX
1170175	1	A	2017-07-03	Gasket for SFRB / SFRBO – 125 ATEX
1170176	1	A	2017-07-03	Gasket for SFRB / SFRBO – 150 ATEX
1170177	1	A	2017-07-03	Gasket for SFRB / SFRBO – 200 ATEX
1170178	1	A	2017-07-05	ATEX / Ex Component installation drawing for welded sleeves.
1170402	1	D	04/19	Label for MCT Brattberg ATEX/IECEX product RGP Component
1170407	1	A	2017.12.11	Matrix Component and equipment approved ATEX / IECEX sleeves
1170408	1	A	17.12.20	Insert Blocks 90 and 120 ATEX RGP

20 Certificate History

Certificate No.	Date	Comments
Baseefa16ATEX0062U	27 March 2018	The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0: 2012+A11: 2013, EN 60079-7: 2015 and EN 60079-31: 2014. SGS Baseefa certification report GB/BAS ExTR16.0121/00 refers.
Baseefa16ATEX0062U/1	21 July 2020	To assess the RGP Range of multi cable transits against the standard EN IEC 60079-0:2018. To allow a change to the notified body number as displayed on the certification label. SGS Baseefa certification report SGS Baseefa report number GB/BAS/ExTR20.0109/00 refers.
Baseefa16ATEX0062U Issue 2	22 April 2021	To assess the RGP Range of multi cable transits against the standard EN IEC 60079-7:2015+A1:2018. SGS Baseefa certification report GB/BAS/ExTR21.0031/00 refers. This issue of the certificate incorporates previously issued primary and supplementary certificates into one certificate.
Baseefa16ATEX0062U Issue 3	25 November 2022	Minor variation to remove the additional marking to the rubber blocks. Assessment is recorded in test report GB/BAS/ExTR22.0178/00
For drawings applicable to each issue, see original of that issue.		