

1 EU - TYPE EXAMINATION CERTIFICATE

2 Component Intended for use on/in an Product or Protective System Intended for use in Potentially Explosive Atmospheres

Directive 2014/34/EU – Annex III

3 EU - Type Examination Certificate No.: **TRAC14ATEX0040U (incorporating variations V1 to V2)**

4 Product: **Leadwire and Cable Seal Fittings,
FG4015 series (complete assemblies)
FG4014 series (fitting body and cap) to be assembled with AC 4015 series grommets**

5 Manufacturer: **Minco Products Inc.**

6 Address: **7300 Commerce Lane, Minneapolis, Minnesota 55432,
United States of America**

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Element Materials Technology, Notified Body number 2812, 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. The examination and test results are recorded in the confidential reports **TRA-015571-33-00A & TRA-051875-33-00A.**

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

EN 60079-0:2012+ A11:2013 EN 60079-1:2007 EN 60079-7:2007

Except in respect of those requirements listed at section 18 of the schedule.

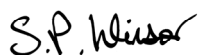
10 The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as the basis for certification of an equipment or protective system.

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 this product shall include the following:

 **II 2 G Ex db eb IIC Gb IP66**

This certificate and its schedules may only be reproduced in its entirety and without change. This certificate is issued in accordance with the Element Materials Technology Ex Certification Scheme.



S P Winsor, Certification Manager

Issue date: 2021-01-26

Page 1 of 7

CSF355-NL 4.0

13 SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE

14 CERTIFICATE NUMBER TRAC14ATEX0040U (incorporating variations V1 to V2)

15 Description of Product

The FG4015 series of fittings are cable transit type devices which are also known as Leadwire and Cable Seal Fittings. They are designed for use in applications which require one or several conductors or cables to pass through a bulkhead within a small area. The fittings are rated for pressure applications with a maximum of 50 PSIG. The seal fittings are offered with 1/2 or 3/4 NPT thread types on the 'process thread'. The fittings are directional and the process thread must be employed for mounting the fittings in their respective housings. Additionally the fittings are offered with 1, 2, 3 or 4 hole grommets, which can accommodate a variety wire diameters ranging from 0.05 to 0.22 inches (1.27 to 5.588 mm).

The sealing grommets are offered in 2 different configurations - non split and split. They are also available in 2 material types for different temperature applications. The neoprene grommets are rated for use in -40 °C to +75 °C applications and are only available as 'non-split' solid type grommets. The fluoroelastomer grommets are rated for use in -40 °C to +90 °C applications and are available as both solid and split types.

The seal fitting can be ordered as FG4015 series, which are complete assemblies, comprised of an FG4014 series fitting body and an AC4015 series grommet. Alternatively FG4014 fittings can be ordered separately with AC4015 series grommets. The FG4014 fittings **must** only be used in conjunction with AC4015 (non split) or AC4015S (split) series of grommets.

The fitting bodies are available in either Type 303 Stainless Steel or Type 316 Stainless Steel. The cap fittings, which screw into the body and compress the grommet via a compression plug, can be supplied with 1/2 or 3/4 NPT external or internal threads for external connections or with no threaded section. The approximate length of the fittings range from 100 mm to 130 mm. The Leadwire and Cable Seal Fittings are rated for a maximum of 30 V DC @ 30mA.

SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE

CERTIFICATE NUMBER TRAC14ATEX0040U (incorporating variations V1 to V2)

Product part number breakdown:

TABLE 1					
CAP FITTING AND BODY					
1/2		3/4			
B10570-2	056-6171	B211712-2	-	ST	P1
B10570-3	056-6156	B211712-1	-	SS	
3/4		3/4			
B10159-2	056-6175	B211712-2	-	ST	P2
B10159-3	056-6176	B211712-1	-	SS	
1/2		1/2			
B10570-2	056-6171	B211711-2	-	ST	P3
B10570-3	056-6156	B211711-1	-	SS	
3/4		1/2			
B10159-2	056-6175	B211711-2	-	ST	P4
B10159-3	056-6176	B211711-1	-	SS	
		1/2			
B12131	056-6160	B211711-1	-	SS	P5
		3/4			
B12131	056-6160	B211712-1	-	SS	P6
1/2		1/2			
B13056-1	-	B211711-2	-	ST	P7
B13056-2	-	B211711-1	-	SS	
1/2		3/4			
B13056-1	-	B211712-2	-	ST	P8
B13056-2	-	B211712-1	-	SS	
3/4		3/4			
B13782-1	-	B211712-2	-	ST	P9
B13782-2	-	B211712-1	-	SS	

AC4015H
FG4015 P2 SS 2V 200 S
FG4014 P2 SS 2V 220 S

TABLE 2

		HOLE DIA	HOLE CONFIGURATION	GROMMET		SPLIT GROMMET ADDITIONS ONLY			COMPRESSION PLUG	PACKAGING	
				STOCK NO.	DRAWING NO.	HOLE SPLIT PATTERN	HOLE PLUG QTY	HOLE PLUG ITEM			
N NEOPRENE	2N130	.130		056-6127	A10161N130					TUBE 068-3097 ***** CAP 068-3098 ***** 3/8" x 2.8" LABEL 031-8035 (AC4015 ONLY)	
	2N160	.160		056-6138	A10161N160						
	2N190	.190		056-6128	A10161N190						
	2N220	.220		056-6129	A10161N220						
	2N257	.257		056-6130	A10161N257						
	3N130	.130		056-6133	A10375N130						
	3N190	.190		056-6134	A10375N190						
	6N050	.050		056-6137 TEFLON LINE: 056-6670	A10376N						
	1V130	.130		056-6303	A11146V130						
	1V160	.160		056-6304	A11146V160						
1V220	.220	056-6306		A11146V220							
2V130	.130	056-6123		A10161V130	1						
2V160	.160	056-6136		A10161V160							
2V190	.190	056-6124		A10161V190							
2V220	.220	056-6125		A10161V220							
2V257	.257	056-6126		A10161V257							
3V130	.130	056-6131		A10375V130	2						
3V160	.160	056-6300		A10375V160							
3V190	.190	056-6132		A10375V190							
4V130	.130	056-6301	A11145V130	3							
4V160	.160	056-6302	A11145V160								

Table 2 Detail

	HOLE DIA	HOLE CONFIGURATION	GROMMET		SPLIT GROMMET ADDITIONS ONLY			COMPRESSION PLUG	PACKAGING		
			STOCK NO.	DRAWING NO.	HOLE SPLIT PATTERN	HOLE PLUG QTY	HOLE PLUG ITEM				
N NEOPRENE	2N130 .130		056-6127	A10161N130					TUBE 068-3097 ----- CAP 068-3098 ----- 3/8" x 2.8" LABEL 031-8035 (AC4015 ONLY)		
	2N160 .160		056-6138	A10161N160							
	2N190 .190		056-6128	A10161N190							
	2N220 .220		056-6129	A10161N220							
	2N257 .257		056-6130	A10161N257							
	3N130 .130		056-6133	A10375N130							
	3N190 .190		056-6134	A10375N190							
	6N050 .050		056-6137 TEFLON LINE: 056-6670	A10376N							
	V FLUOROELASTOMER	1V130 .130		056-6303	A11146V130					N/A	A211710
		1V160 .160		056-6304	A11146V160						
1V220 .220		056-6306		A11146V220							
2V130 .130			056-6123	A10161V130			1			A12145-1	
2V160 .160			056-6136	A10161V160						A12145-2	
2V190 .190			056-6124	A10161V190						A12145-3	
2V220 .220			056-6125	A10161V220						A12145-4	
2V257 .257			056-6126	A10161V257						N/A	
3V130 .130			056-6131	A10375V130							
3V160 .160		056-6300	A10375V160	A12145-2							
3V190 .190		056-6132	A10375V190	A12145-3							
4V130 .130			056-6301	A11145V130			3			A12145-1	
4V160 .160			056-6302	A11145V160						A12145-2	

SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE

CERTIFICATE NUMBER TRAC14ATEX0040U (incorporating variations V1 to V2)

16 Test Report No. (as added for this issue of the certificate): N/A.

17 Schedule of Limitations

1. The Model FG4014 Leadwire & Cable Seal Fitting must be used in conjunction with AC4015 or AC4015S series grommets.
2. The neoprene grommet material shall not be subjected to service temperatures of less than -40°C or in excess of +75°C.
3. The fluoroelastomer grommet material shall not be subjected to service temperatures of less than -40°C or in excess of +90°C.
4. The seal fittings are offered with 1/2 or 3/4 NPT thread types on the 'process thread'. The fittings are directional and the process thread must be employed for mounting the fittings in their respective housings.



Attention is drawn to the operating and installation instructions which may contain useful information in relation to conditions of use.

18 Essential Health and Safety Requirements (Directive Annex II)

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the relevant reports.

19 Drawings and Documents

The list of controlled technical documentation is given in Appendix A to this schedule.

20 Routine Tests

None.

21 Specific Conditions for Manufacture

None.

22 Photographs



SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE

CERTIFICATE NUMBER TRAC14ATEX0040U (incorporating variations V1 to V2)

23 Details of Markings

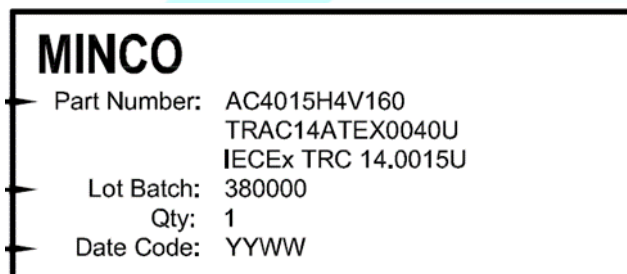
FG4014 Part Marking



FG4015 Part Marking



AC4015 Label Marking



24 Certificate History

Original certificate	2014-11-20	First issue.
Variation V1	2020-07-09	This certificate was originally issued by Notified Body number 0891 under Directive 2014/34/EU. The technical file has been transferred to Element Notified Body number 2812 without further assessment or evaluation, except for the manual and markings.
Variation V2	2021-01-26	Drawing updates including change to marking format to 'eb' 'db'.

This certificate is a consolidated certificate and reflects the latest status of the certification, including all variations and amendments.

25 Notes to CE marking

In respect of CE Marking, Element Materials Technology accepts no responsibility for the compliance of the product against all applicable Directives in all applications.

26 Notes to this certificate

Element Materials Technology certification reference: ERO032645P77 (GU-MINQ-0001).

Throughout this certificate, the date format yyyy-mm-dd (year-month-day) is used.

Notified Body number 2812 is the designation for Element Materials Technology Rotterdam BV.

SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE

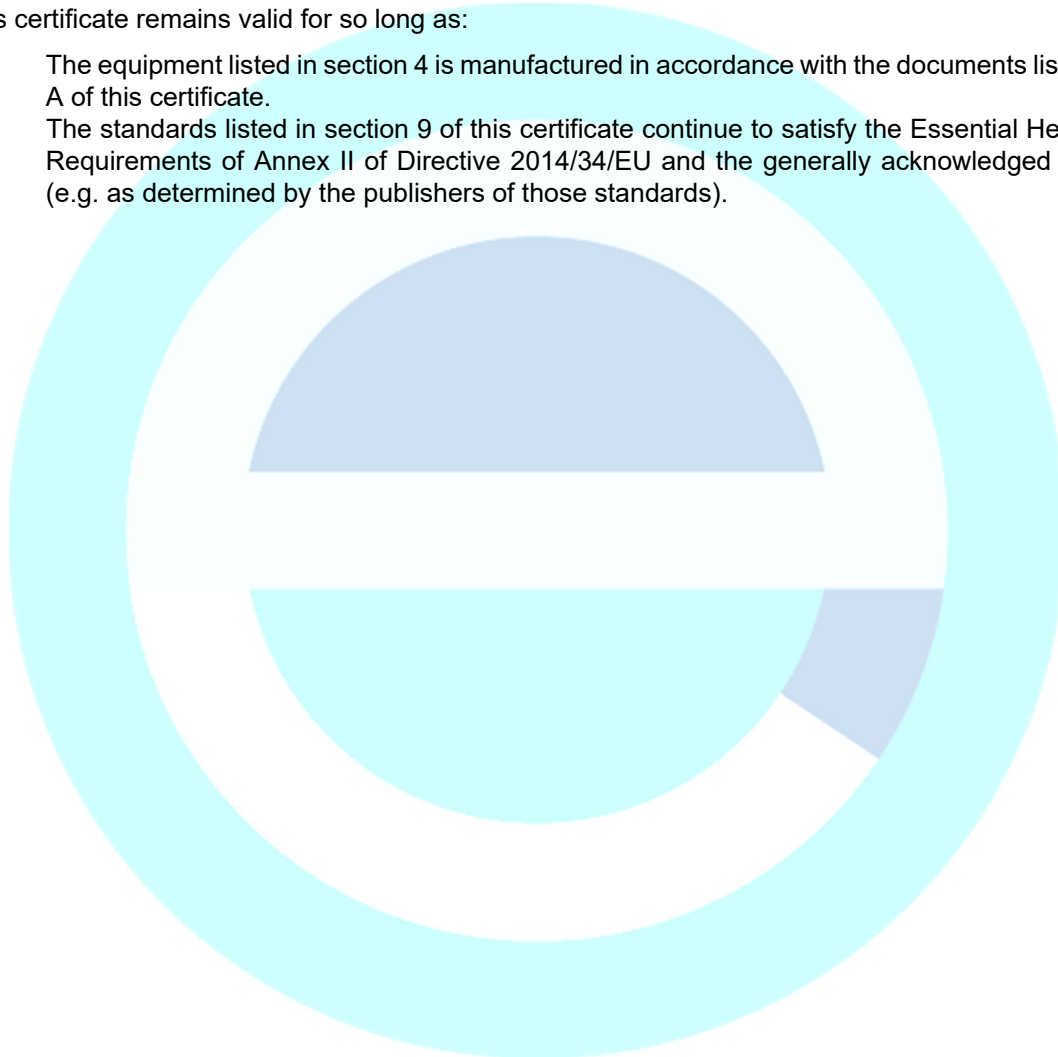
CERTIFICATE NUMBER TRAC14ATEX0040U (incorporating variations V1 to V2)

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. Variation 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.

27 Conditions for the validity of this certificate

This certificate remains valid for so long as:

- (i) The equipment listed in section 4 is manufactured in accordance with the documents listed in Appendix A of this certificate.
- (ii) The standards listed in section 9 of this certificate continue to satisfy the Essential Health and Safety Requirements of Annex II of Directive 2014/34/EU and the generally acknowledged state of the art (e.g. as determined by the publishers of those standards).



SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE**CERTIFICATE NUMBER TRAC14ATEX0040U (incorporating variations V1 to V2)****APPENDIX A - TECHNICAL DOCUMENTS**

Title:	Drawing No.:	Rev. Level:	Date:
Pressure seal fitting FG4015 series ATEX/IECEX/TR CU Ex db eb certified	FG4015	B	2017-04-19
Grommet Accessory Kit for Pressure Seal Fitting AC4015 Series	AC4015	B	2017-04-19
Pressure Seal Fitting FG4014 Series	FG4014	B	2017-04-19
Body Pressure Seal Fitting 1/2 – 1/4 NPT	B211711	C	2020-07-27
Pressure Seal Fitting Final Assembly Models FG4014, FG4015 and AC4015 (2 pages)	B211713	F	2020-09-09
Cap Fitting Pressure Seal No Connection Thread	B12131	C	2016-05-10
Cap Fitting Pressure Seal	B13056	E	2020-07-27
Cap Fitting Pressure Seal	B13782	E	2020-07-27
Cap Fitting Pressure Seal 1/2 -14 NPT	B10570	G	2020-07-27
Cap Fitting Pressure Seal 1/2 -14 NPT	B10159	H	2020-07-27
Body Pressure Seal Fitting 3/4 - 14 NPT	B211712	C	2020-07-27
Installation & Operation Instructions (6 pages)	SPI 00-0801	E	2020

*no information provided.