



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 TRC 14.0015U Issue No: 0 Certificate history:
Issue No. 0 (2014-11-20)

Status: **Current** Page 1 of 3

Date of Issue: **2014-11-20**

Applicant: **Minco Products**
7300 Commerce Lane,
Minneapolis,
Minnesota 55432
United States of America

Electrical Apparatus: **Leadwire and Cable Seal Fittings, FG4015 series (complete assemblies);
FG4014 series (fitting body and cap) to be assembled with AC4015 series
grommets.**

Optional accessory:

Type of Protection: **Flameproof, Increased Safety**

Marking: Ex d e IIC Gb IP66

*Approved for issue on behalf of the IECEx
Certification Body:*

Stephen Winsor

Position:

Certification Team Leader

*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:

TRaC Global Ltd.
Unit 1 Pendle Place
Skelmersdale
West Lancashire
WN8 9PN
United Kingdom





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Manufacturer: **Minco Products**
7300 Commerce Lane,
Minneapolis
Minnesota 55432
United States of America

Additional Manufacturing
location(s):

Minco SAS
Zone Industrielle
09310, Aston
France

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 60079-7 : 2006-07 Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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/TRC/ExTR14.0017/00](#)

Quality Assessment Report:

[NL/DEK/QAR12.0028/02](#) [FR/LCIE/QAR12.0001/03](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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 5.588mm).

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 100mm to 130mm. The Leadwire and Cable Seal Fittings are rated for a maximum of 30VDC @ 30mA.

Product part number breakdown is described in the Annex.

CONDITIONS OF CERTIFICATION: NO

Annex:

[Annex to IECEx TRC 14.0015U 2014-11-20.pdf](#)





















TRaC Global Limited,
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Annex to IECEx Certificate of Conformity

IECEx TRC 14.0015U issue No.:0

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


























		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	2N180	.180		056-6127	A10161N180						
	2N160	.160		056-6188	A10161N160						
	2N180	.180		056-6128	A10161N180						
	2N220	.220		056-6129	A10161N220						
	2N227	.227		056-6130	A10161N227						
N NITRILE	8N180	.180		056-6188	A10375N180						
	8N190	.190		056-6184	A10375N190						
V FLUORELASTOMER	6N050	.050		056-6187 TEFLON LINE 056-6670	A10376N						
	1V180	.180		056-6058	A11146V180		N/A	N/A		TUBE 068-9097 CAP 068-9098 3/8" x 2.8" LABEL 051-9095 (AC4015 ONLY)	
V FLUORELASTOMER	1V180	.180		056-6054	A11146V180						
	1V220	.220		056-6066	A11146V220						
	2V180	.180		056-6123	A10161V180						
	2V160	.160		056-6186	A10161V160		1	A12145-1			
	2V190	.190		056-6124	A10161V190						
	2V220	.220		056-6125	A10161V220						
	2V237	.237		056-6126	A10161V237						
	3V180	.180		056-6191	A10376V180		2	A12145-2			
	3V160	.160		056-6200	A10376V160						
	4V180	.180		056-6901	A11145V180		3	A12145-1			
4V160	.160		056-6902	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				 A211710	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					
	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		2	A12145-1		
	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 of Limitations” for Ex Components

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.



Manufacturer's Documents			
Title:	Drawing No.:	Rev. Level:	Date:
Pressure Seal Fitting FG4015 Series	FG4015	A	2014-07-17
Grommet Accessory Kit for Pressure Seal Fitting AC4015 Series	AC4015	A	2014-07-17
Pressure Seal Fitting FG4014 Series	FG4014	A	2014-07-17
Body Pressure Seal Fitting 1/2 – 1/4 NPT	B211711	*	2013-05-17
Pressure Seal Fitting Final Assembly Models FG4014, FG4015 and AC4015 (2 pages)	B211713	A	2014-07-17
Cap Fitting Pressure Seal No Connection Thread	B12131	A	2012-05-01
Cap Fitting Pressure Seal	B13056	B	2012-05-01
Cap Fitting Pressure Seal	B13782	B	2012-05-01
Cap Fitting Pressure Seal 1/2 -14 NPT	B10570	D	2012-07-17
Cap Fitting Pressure Seal 1/2 -14 NPT	B10159	E	2012-07-17
Body Pressure Seal Fitting 3/4 - 14 NPT	B211712	*	2013-05-17
Installation & Operation Instructions (2 pages)	SPI 00-081	A	*
*no information provided.			