



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.: issue No.:

Status:

Date of Issue: **2014-12-23** Page 1 of 3

Applicant: **CMI Electrical Products A Division of CMI Operations Pty Ltd**
10 – 20 Railway Road
Meadowbank NSW 2114
Australia

Electrical Apparatus: **Cable Glands, Blanking Plugs and Reducers**
Optional accessory:


Type of Protection: **Ex db I/IIC, Ex eb I/IIC, Ex ta IIC**

Marking: **CMI SUREFIT**
GWPM* or FWPM* or F-RM* or F-PM* * denotes "Assembly Cat. No."
Ex db Ex eb Ex ta
IECEX TSA 14.0018

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

Position: **Quality & Certification Manager**

Signature:
(for printed version)


23 DECEMBER 2014

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.

Certificate issued by:

TestSafe Australia
919 Londonderry Road
Londonderry NSW 2753
Australia





IECEX Certificate of Conformity

Certificate No.: IECEx TSA 14.0018

Date of Issue: 2014-12-23

Issue No.: 0

Page 2 of 3

Manufacturer: **CMI Electrical Products A Division of CMI Operations Pty Ltd**
10 – 20 Railway Road
Meadowbank NSW 2114
Australia

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 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 60079-31 : 2008 Edition: 1 | Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't' |

*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:
AU/TSA/ExTR14.0027/00

Quality Assessment Report:
AU/TSA/QAR11.0009/03



IECEX Certificate of Conformity

Certificate No.: IECEX TSA 14.0018

Date of Issue: 2014-12-23

Issue No.: 0

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The CMI Surefit FWPM Series cable glands, for armoured and cross-braided cables, and GWPM Series cable glands, for non-armoured cables, are suitable for the passage of circular cables into Ex d, Ex e or Ex t enclosures having threaded entries. An elastomeric sealing ring (grommet) is used in each gland series to facilitate sealing between the cable and gland body. Entry threads are metric complying with ISO 965-1 and ISO 965-3, with pitch of 1.5 mm or 2.0 mm and tolerance quality 6g. The cable glands are manufactured from nickel plated brass. The GWPM Series are also available in stainless steel.

The CMI Surefit F-PM Series blanking plugs and F-RM Series reducers are manufactured from nickel plated brass or stainless steel. Blanking plugs are provided with metric threads and have either hexagonal or octagonal heads. Reducers are provided with metric (external) to metric (internal) threads and have hexagonal or octagonal heads.

Ingress protection of IP66/IP68 (7.0 m for 1.0 h) is maintained when the cable glands, blanking plugs and reducers are installed in accordance with the manufacturer's instructions. A nylon sealing washer, supplied by the manufacturer, is required for IPX8 ingress protection.

The complete range of CMI Surefit cable glands, blanking plugs and reducers are detailed in the Schedule in the attached Annex.

CONDITIONS OF CERTIFICATION: NO



IECEX Certificate of Conformity Annexe

| | |
|--|---------------------|
| Annexe for Certificate No.: IECEx TSA 14.0018 | Issue No.: 0 |
|--|---------------------|

Schedule:

The range of equipment covered by this certificate is specified in the following tables.

FWPM Series cable glands

| Assembly Catalogue Number | Entry Thread Size (mm) | Back Nut Torque (Nm) | Permitted Cable Outside Diameter Range (mm) | |
|---------------------------|------------------------|----------------------|---|---------|
| | | | Minimum | Maximum |
| FWPMO | M20 X 1.5 | 30 | 9.0 | 11.9 |
| FWPM1 | M20 X 1.5 | 30 | 11.5 | 13.5 |
| FWPM1A | M20 X 1.5 | 30 | 13.5 | 17.2 |
| FWPM1B-25 | M25 X 1.5 | 40 | 17.0 | 19.6 |
| FWPM2 | M25 X 1.5 | 40 | 19.5 | 22.1 |
| FWPM2A | M25 X 1.5 | 40 | 22.0 | 26.2 |
| FWPM2B-32 | M32 X 1.5 | 50 | 26.0 | 28.7 |
| FWPM3 | M32 X 1.5 | 50 | 28.5 | 31.2 |
| FWPM3A | M32 X 1.5 | 50 | 31.0 | 35.2 |
| FWPM4 | M40 X 1.5 | 80 | 35.0 | 38.5 |
| FWPM4A | M40 X 1.5 | 60 | 38.5 | 41.7 |
| FWPM5 | M50 X 1.5 | 100 | 41.5 | 46.7 |
| FWPM5A | M50 X 1.5 | 100 | 46.5 | 51.3 |
| FWPM5B | M50 X 1.5 | 100 | 51.0 | 55.4 |
| FWPM6 | M63 X 1.5 | 100 | 55.0 | 60.2 |
| FWPM6A | M63 X 1.5 | 130 | 60.0 | 64.1 |
| FWPM6B | M63 X 1.5 | 130 | 64.0 | 68.2 |

GWPM Series cable glands

| Assembly Catalogue Number | | Entry Thread Size (mm) | Back Nut Torque (Nm) | Permitted Cable Outside Diameter Range (mm) | |
|---------------------------|-----------------------|------------------------|----------------------|---|---------|
| Standard Version | Extended Tail Version | | | Minimum | Maximum |
| GWPMO | GWPMEXO | M20 X 1.5 | 40 | 3.0 | 7.1 |
| GWPM1 | GWPMEX1 | M20 X 1.5 | 40 | 6.5 | 9.5 |
| GWPM1A | GWPMEX1A | M20 X 1.5 | 40 | 9.0 | 11.9 |
| GWPM1BSS* | GWPMEX1BSS* | M20 X 1.5 | 40 | 11.5 | 14.3 |
| GWPM1B-25 | GWPMEX1B-25 | M25 X 1.5 | 50 | 11.5 | 14.3 |
| GWPM2 | GWPMEX2 | M25 X 1.5 | 50 | 13.5 | 17.5 |
| GWPM2ASS* | GWPMEX2ASS* | M25 X 1.5 | 50 | 17.0 | 20.1 |

Certificate issued by:

| | |
|--|--|
| | <p>TestSafe Australia 919 Londonderry Road Londonderry NSW 2753 Australia</p> |
|--|--|



IECEX Certificate of Conformity Annexe

| | |
|--|---------------------|
| Annexe for Certificate No.: IECEx TSA 14.0018 | Issue No.: 0 |
|--|---------------------|

| Assembly Catalogue Number | | Entry Thread Size (mm) | Back Nut Torque (Nm) | Permitted Cable Outside Diameter Range (mm) | |
|---------------------------|-----------------------|------------------------|----------------------|---|---------|
| Standard Version | Extended Tail Version | | | Minimum | Maximum |
| GWPM2A-32 | GWPMEX2A-32 | M32 X 1.5 | 65 | 17.0 | 20.1 |
| GWPM3 | GWPMEX3 | M32 X 1.5 | 65 | 19.5 | 23.8 |
| GWPM3A | GWPMEX3A | M32 X 1.5 | 70 | 22.5 | 27.0 |
| GWPM4 | GWPMEX4 | M40 X 1.5 | 80 | 26.0 | 29.4 |
| GWPM4A | GWPMEX4A | M40 X 1.5 | 100 | 28.5 | 32.5 |
| GWPM5 | GWPMEX5 | M50 X 1.5 | 100 | 31.0 | 36.5 |
| GWPM5A | GWPMEX5A | M50 X 1.5 | 120 | 35.0 | 40.5 |
| GWPM5B | GWPMEX5B | M50 X 1.5 | 120 | 39.5 | 43.8 |
| GWPM6 | GWPMEX6 | M63 X 1.5 | 120 | 42.5 | 48.4 |
| GWPM6A | GWPMEX6A | M63 X 1.5 | 150 | 47.0 | 52.4 |
| GWPM6B | GWPMEX6B | M63 X 1.5 | 150 | 51.0 | 56.0 |
| GWPM7A | GWPMEX7A | M75X 1.5 | 150 | 55.0 | 59.3 |
| GWPM7B | GWPMEX7B | M75X 1.5 | 150 | 58.0 | 62.6 |
| GWPM7C | GWPMEX7C | M75X 1.5 | 150 | 61.0 | 65.9 |
| GWPM8A | GWPMEX8A | M85 X 2.0 | 170 | 64.0 | 69.1 |
| GWPM8B | GWPMEX8B | M85 X 2.0 | 170 | 67.5 | 72.3 |
| GWPM8C | GWPMEX8C | M85 X 2.0 | 170 | 69.5 | 75.5 |
| GWPM8D | GWPMEX8D | M85 X 2.0 | 170 | 74.0 | 78.6 |
| GWPM9A | GWPMEX9A | M95 X 2.0 | 190 | 77.0 | 81.8 |
| GWPM9B | GWPMEX9B | M95 X 2.0 | 190 | 80.0 | 85.0 |
| GWPM9C | GWPMEX9C | M95 X 2.0 | 220 | 83.0 | 88.2 |

Notes: 1) * stainless steel version only (not available in nickel plated brass).
2) Add "SS" to catalogue no. for stainless steel version (eg GWPM3ASS).

F-RM Series reducers

| Assembly Catalogue Number | | Entry Thread Size (mm) | |
|---------------------------|-----------------|------------------------|-----------|
| Nickel Plated Brass | Stainless Steel | External | Internal |
| F-RM2016 | F-RM2016SS | M20 X 1.5 | M16 X 1.5 |
| F-RM2516 | F-RM2516SS | M25 X 1.5 | M16 X 1.5 |
| F-RM2520 | F-RM2520SS | M25 X 1.5 | M20 X 1.5 |
| F-RM3216 | F-RM3216SS | M32 X 1.5 | M16 X 1.5 |
| F-RM3220 | F-RM3220SS | M32 X 1.5 | M20 X 1.5 |

Certificate issued by:

| | |
|--|---|
| | TestSafe Australia 919 Londonderry Road Londonderry NSW 2753 Australia |
|--|---|



IECEX Certificate of Conformity Annexe

| | | | |
|------------------------------------|--------------------------|-------------------|----------|
| Annexe for Certificate No.: | IECEX TSA 14.0018 | Issue No.: | 0 |
|------------------------------------|--------------------------|-------------------|----------|

| Assembly Catalogue Number | | Entry Thread Size (mm) | |
|---------------------------|-----------------|------------------------|-----------|
| Nickel Plated Brass | Stainless Steel | External | Internal |
| F-RM3225 | F-RM3225SS | M32 X 1.5 | M25 X 1.5 |
| F-RM4016 | F-RM4016SS | M40 X 1.5 | M16 X 1.5 |
| F-RM4020 | F-RM4020SS | M40 X 1.5 | M20 X 1.5 |
| F-RM4025 | F-RM4025SS | M40 X 1.5 | M25 X 1.5 |
| F-RM4032 | F-RM4032SS | M40 X 1.5 | M32 X 1.5 |
| F-RM5016 | F-RM5016SS | M50 X 1.5 | M16 X 1.5 |
| F-RM5020 | F-RM5020SS | M50 X 1.5 | M20 X 1.5 |
| F-RM5025 | F-RM5025SS | M50 X 1.5 | M25 X 1.5 |
| F-RM5032 | F-RM5032SS | M50 X 1.5 | M32 X 1.5 |
| F-RM5040 | F-RM5040SS | M50 X 1.5 | M40 X 1.5 |
| F-RM6316 | F-RM6316SS | M63 X 1.5 | M16 X 1.5 |
| F-RM6320 | F-RM6320SS | M63 X 1.5 | M20 X 1.5 |
| F-RM6325 | F-RM6325SS | M63 X 1.5 | M25 X 1.5 |
| F-RM6332 | F-RM6332SS | M63 X 1.5 | M32 X 1.5 |
| F-RM6340 | F-RM6340SS | M63 X 1.5 | M40 X 1.5 |
| F-RM6350 | F-RM6350SS | M63 X 1.5 | M50 X 1.5 |
| F-RM7516 | F-RM7516SS | M75 X 1.5 | M16 X 1.5 |
| F-RM7520 | F-RM7520SS | M75 X 1.5 | M20 X 1.5 |
| F-RM7525 | F-RM7525SS | M75 X 1.5 | M25 X 1.5 |
| F-RM7532 | F-RM7532SS | M75 X 1.5 | M32 X 1.5 |
| F-RM7540 | F-RM7540SS | M75 X 1.5 | M40 X 1.5 |
| F-RM7550 | F-RM7550SS | M75 X 1.5 | M50 X 1.5 |
| F-RM7563 | F-RM7563SS | M75 X 1.5 | M63 X 1.5 |
| F-RM8516 | F-RM8516SS | M85 X 2.0 | M16 X 1.5 |
| F-RM8520 | F-RM8520SS | M85 X 2.0 | M20 X 1.5 |
| F-RM8525 | F-RM8525SS | M85 X 2.0 | M25 X 1.5 |
| F-RM8532 | F-RM8532SS | M85 X 2.0 | M32 X 1.5 |
| F-RM8540 | F-RM8540SS | M85 X 2.0 | M40 X 1.5 |
| F-RM8550 | F-RM8550SS | M85 X 2.0 | M50 X 1.5 |
| F-RM8563 | F-RM8563SS | M85 X 2.0 | M63 X 1.5 |
| F-RM8575 | F-RM8575SS | M85 X 2.0 | M75 X 1.5 |
| F-RM9516 | F-RM9516SS | M95 X 2.0 | M16 X 1.5 |
| F-RM9520 | F-RM9520SS | M95 X 2.0 | M20 X 1.5 |

Certificate issued by:

| | |
|---|---|
|  | <p style="margin: 0;">TestSafe Australia 919 Londonderry Road Londonderry NSW 2753 Australia</p> |
|---|---|



IECEX Certificate of Conformity Annexe

| | | | |
|------------------------------------|--------------------------|-------------------|----------|
| Annexe for Certificate No.: | IECEX TSA 14.0018 | Issue No.: | 0 |
|------------------------------------|--------------------------|-------------------|----------|

| Assembly Catalogue Number | | Entry Thread Size (mm) | |
|---------------------------|-----------------|------------------------|-----------|
| Nickel Plated Brass | Stainless Steel | External | Internal |
| F-RM9525 | F-RM9525SS | M95 X 2.0 | M25 X 1.5 |
| F-RM9532 | F-RM9532SS | M95 X 2.0 | M32 X 1.5 |
| F-RM9540 | F-RM9540SS | M95 X 2.0 | M40 X 1.5 |
| F-RM9550 | F-RM9550SS | M95 X 2.0 | M50 X 1.5 |
| F-RM9563 | F-RM9563SS | M95 X 2.0 | M63 X 1.5 |
| F-RM9575 | F-RM9575SS | M95 X 2.0 | M75 X 1.5 |
| F-RM9585 | F-RM9585SS | M95 X 2.0 | M85 X 2.0 |
| F-RM11016 | F-RM11016SS | M110 X 2.0 | M16 X 1.5 |
| F-RM11020 | F-RM11020SS | M110 X 2.0 | M20 X 1.5 |
| F-RM11025 | F-RM11025SS | M110 X 2.0 | M25 X 1.5 |
| F-RM11032 | F-RM11032SS | M110 X 2.0 | M32 X 1.5 |
| F-RM11040 | F-RM11040SS | M110 X 2.0 | M40 X 1.5 |
| F-RM11050 | F-RM11050SS | M110 X 2.0 | M50 X 1.5 |
| F-RM11063 | F-RM11063SS | M110 X 2.0 | M63 X 1.5 |
| F-RM11075 | F-RM11075SS | M110 X 2.0 | M75 X 1.5 |
| F-RM11085 | F-RM11085SS | M110 X 2.0 | M85 X 2.0 |
| F-RM11095 | F-RM11095SS | M110 X 2.0 | M95 X 2.0 |

F-PM Series blanking plugs

| Assembly Catalogue Number | | Entry Thread Size (mm) | Torque (Nm) |
|---------------------------|-----------------|------------------------|-------------|
| Nickel Plated Brass | Stainless Steel | | |
| F-PM16 | F-PM16SS | M16 X 1.5 | 40 |
| F-PM20 | F-PM20SS | M20 X 1.5 | 40 |
| F-PM25 | F-PM25SS | M25 X 1.5 | 55 |
| F-PM32 | F-PM32SS | M32 X 1.5 | 65 |
| F-PM40 | F-PM40SS | M40 X 1.5 | 80 |
| F-PM50 | F-PM50SS | M50 X 1.5 | 100 |
| F-PM63 | F-PM63SS | M63 X 1.5 | 115 |
| F-PM75 | F-PM75SS | M75 X 1.5 | 140 |
| F-PM85 | F-PM85SS | M85 X 2.0 | 170 |
| F-PM95 | F-PM95SS | M95 X 2.0 | 190 |
| F-PM110 | F-PM110SS | M110 X 2.0 | 220 |

Certificate issued by:

| | |
|---|---|
|  | TestSafe Australia 919 Londonderry Road Londonderry NSW 2753 Australia |
|---|---|



IECEX Certificate of Conformity Annexe

| | | | |
|------------------------------------|--------------------------|-------------------|----------|
| Annexe for Certificate No.: | IECEX TSA 14.0018 | Issue No.: | 0 |
|------------------------------------|--------------------------|-------------------|----------|

Drawing list pertaining to Issue 0 of this Certificate:

| Drawing/Document Number: | Page/s: | Title: | Revision Level: | Date: (yyyy-mm-dd) |
|---------------------------------|----------------|------------------------|------------------------|---------------------------|
| F-PM | 1 | Blanking Plug Assembly | Original | 2014-11-04 |
| F-RM | 1 | Reducer Assembly | Original | 2014-11-04 |
| FWPM | 1 | FWPM Gland Assembly | D | 2014-11-04 |
| GWPM | 1 | GWPM Gland Assembly | Original | 2014-11-04 |

Certificate issued by:

| | |
|---|---|
|  | TestSafe Australia 919 Londonderry Road Londonderry NSW 2753 Australia |
|---|---|