



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

| | | | |
|---------------------|--|-------------|--------------------------------------|
| Certificate No.: | IECEx ExTC 20.0005 | Page 1 of 4 | <u>Certificate history:</u> |
| Status: | Current | Issue No: 1 | Issue 0 (2020-07-13) |
| Date of Issue: | 2023-09-18 | | |
| Applicant: | CMI Electrical Products Unit F3 29 Birnie Avenue Lidcombe NSW 2141 Australia | | |
| Equipment: | Surefit Cable Glands, Blanking Plugs & Threaded Adaptors - F-GWPMH, F-PMH & F-RMH | | |
| Optional accessory: | | | |
| Type of Protection: | "Flameproof", "Increased Safety" & "Protection by Enclosure" | | |
| Marking: | Ex db I Mb, Ex db IIC Gb, Ex eb I Mb, Ex eb IIC Gb, Ex ta IIIC Da -20°C ≤ Ta ≤ +130°C | | |

Approved for issue on behalf of the IECEx
Certification Body:

David Price

Position:

Certification Authority

Signature:
(for printed version)

Date:
(for printed version)

2023-09-18

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 www.iecex.com or use of this QR Code.



Certificate issued by:

Ex Testing and Certification Pty Ltd
1/30 Kennington Drive
Tomago NSW 2322
Australia



TESTING & CERTIFICATION



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Manufacturer: **CMI Electrical Products**
Unit F3
29 Birnie Avenue
Lidcombe 2141
Australia

Manufacturing
locations: **CMI Electrical Products**
Unit F3
29 Birnie Avenue
Lidcombe 2141
Australia

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 equipment 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](#) Explosive atmospheres - Part 0: General requirements
Edition:6.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with 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/ExTC/ExTR20.0022/00](#)

Quality Assessment Report:

[AU/TSA/QAR11.0009/08](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The CMI Surefit F-GWPMH Series cable glands are suitable for the passage of circular cables into Ex d, Ex e or Ex t enclosures having threaded entries. Attachment of the glands to an enclosure is by means of the male threaded portion on the gland body. An elastomeric sealing ring (grommet) is used in each gland series to facilitate sealing between the cable and gland body, and to clamp the cable to prevent pulling or twisting forces being transmitted to the conductor connections. Entry threads are metric complying with ISO 965-1 and ISO 965-3, with pitch of 1.5 mm and tolerance quality 6g. Ingress protection of IP66/IP68 (7.0 m for 1.0 h) is maintained when the glands are installed in accordance with the manufacturer's instructions. A PTFE sealing washer, supplied by the manufacturer, is required for IPX8 ingress protection.

SPECIFIC CONDITIONS OF USE: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Refer to Annex for details.

Annex:

[IECEx ExTC 20.0005-1 Certificate Annex - Final.pdf](#)

| | | | |
|--|--------------------|--|---|
|  <h1 style="text-align: center;">IECEX Certificate of Conformity</h1> <h2 style="text-align: center;">Annexe</h2> | |  <p style="text-align: center;">TESTING & CERTIFICATION</p> | |
| Annexe for Certificate No.: | IECEX ExTC 20.0005 | Issue No.: | 1 |

Description: (Continued from certificate)

The F-GWPMH Series cable glands are designed for non-armoured cables and are comprised of a gland body, grommet, friction washer and back nut. When the back nut is screwed into the gland body, the grommet is compressed onto the outer sheath of the cable.

The F-GWPMH Series cable glands may be supplied with any of the following options:

- (a) Alternative metallic component material in nickel plated brass (grade C38600 to AS/NZS 1567-1997) or stainless steel (grade 304).
- (b) Alternative back nut with extended tail.

All metallic components of each gland are manufactured from the same material. Certification information is marked on the gland bodies. The full range of cable glands is shown in the Schedule.

The CMI Surefit F-PMH Series blanking plugs and F-RMH Series adaptors are manufactured from nickel plated brass (grade C38600 to AS/NZS 1567-1997) or stainless steel (grade 304). Blanking plugs are provided with metric threads and have either hexagonal or octagonal heads. Adaptors are provided with metric (external) to metric (internal) threads and have hexagonal or octagonal heads. Metric threads comply with ISO 965-1 and ISO 965-3, with pitch of 1.5 mm and tolerance quality 6H/6g. Certification information is marked on the blanking plugs and adaptors. The full range of blanking plugs and adaptors are shown in the Schedule.

Schedule:

F-GWPMH Series Glands (High Temp)

| Assembly Catalogue Number | | Entry Thread Size (mm) | Back Nut Torque (Nm) | Permitted Cable Outside Diameter Range (mm) | |
|---------------------------|-----------------------|------------------------|----------------------|---|---------|
| Standard Version | Extended Tail Version | | | Minimum | Maximum |
| GWPM0H | GWPMEX0H | M20 X 1.5 - 6g | 25 | 3.0 | 7.1 |
| GWPM1H | GWPMEX1H | M20 X 1.5 - 6g | 25 | 6.5 | 9.5 |
| GWPM1AH | GWPMEX1AH | M20 X 1.5 - 6g | 25 | 9.0 | 11.9 |
| GWPM1BSSH | GWPMEX1BASSH | M20 X 1.5 - 6g | 40 | 11.5 | 14.3 |
| GWPM1B-25H | GWPMEX1B-25H | M25 X 1.5 - 6g | 40 | 11.5 | 14.3 |
| GWPM2H | GWPMEX2H | M25 X 1.5 - 6g | 45 | 13.5 | 17.5 |
| GWPM2ASSH | GWPMEX2ASSH | M25 X 1.5 - 6g | 40 | 17.0 | 20.1 |
| GWPM2A-32H | GWPMEX2A-32H | M32 X 1.5 - 6g | 40 | 17.0 | 20.1 |
| GWPM3H | GWPMEX3H | M32 X 1.5 - 6g | 30 | 19.5 | 23.8 |
| GWPM3AH | GWPMEX3AH | M32 X 1.5 - 6g | 40 | 22.5 | 26.2 |
| GWPM4H | GWPMEX4H | M40 X 1.5 - 6g | 60 | 26.0 | 29.4 |
| GWPM4AH | GWPMEX4AH | M40 X 1.5 - 6g | 90 | 28.5 | 32.5 |

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Annexe



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F-RMH Series Reducer Assembly (High Temp)



| Assembly Catalogue Number | | External Thread Size | Internal Thread Size | PTFE Washer Part No |
|---------------------------|-------------|----------------------|----------------------|---------------------|
| BRASS | ST.STEEL | | | |
| F-RM2016H | F-RM2016SSH | M20 X 1.5 - 6g | M16 X 1.5 – 6H | W20H |
| F-RM2516H | F-RM2516SSH | M25 X 1.5 - 6g | M16 X 1.5 – 6H | W25H |
| F-RM2520H | F-RM2520SSH | M25 X 1.5 - 6g | M20 X 1.5 – 6H | W25H |
| F-RM3216H | F-RM3216SSH | M32 X 1.5 - 6g | M16 X 1.5 – 6H | W32H |
| F-RM3220H | F-RM3220SSH | M32 X 1.5 - 6g | M20 X 1.5 – 6H | W32H |
| F-RM3225H | F-RM3225SSH | M32 X 1.5 - 6g | M25 X 1.5 – 6H | W32H |
| F-RM4016H | F-RM4016SSH | M40 X 1.5 - 6g | M16 X 1.5 – 6H | W40H |
| F-RM4020H | F-RM4020SSH | M40 X 1.5 - 6g | M20 X 1.5 – 6H | W40H |
| F-RM4025H | F-RM4025SSH | M40 X 1.5 - 6g | M25 X 1.5 – 6H | W40H |
| F-RM4032H | F-RM4032SSH | M40 X 1.5 - 6g | M32 X 1.5 – 6H | W40H |

F-PMH Series Blanking Plug Assembly (High Temp)

| Assembly Catalogue Number | | External Thread Size | PTFE Washer Part No |
|---------------------------|-----------|----------------------|---------------------|
| BRASS | ST.STEEL | | |
| F-PM20H | F-PM20SSH | M20 X 1.5 - 6g | W20H |
| F-PM25H | F-PM25SSH | M25 X 1.5 - 6g | W25H |
| F-PM32H | F-PM32SSH | M32 X 1.5 - 6g | W32H |
| F-PM40H | F-PM40SSH | M40 X 1.5 - 6g | W40H |

Specific Conditions of Use pertaining to Issue 0 of this Certificate:

No conditions for Issue 0 of this certificate.

| | | |
|--|--------------------|---|
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Drawing list pertaining to Issue 0 of this Certificate:

| Manufacturer's Documents | | | | |
|--|--------------|-------|-------------|------------|
| Title: | Drawing No.: | Pages | Rev. Level: | Date: |
| GWPMH GLAND ASSY (HIGH TEMPERATURE) | F-GWPMH | 1 | A | 2020-07-01 |
| BLANKING PLUG ASSEMBLY (HIGH TEMPERATURE) | F-PMH | 1 | A | 2020-07-01 |
| REDUCER ASSEMBLY (HIGH TEMPERATURE) | F-RMH | 1 | A | 2020-07-01 |
| Fitting Instructions for Surefit GWPMH Series Explosion Protected Glands | TSG-1H | 1 | A | 2020-07-01 |

Variations permitted by Issue 1 of this certificate:

Change of Applicant and Manufacturer location to new facility.

Specific Conditions of Use pertaining to Issue 1 of this Certificate:

No changes from the previous issue of the certificate.

Drawing list pertaining to pertaining to Issue 1 of this Certificate:

No changes from the previous issue of the certificate.