



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 3612</b>	8-Jul-2021	Number 5	Issue date 25-Mar-2026	30-Apr-2027

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## Product designation

**Jinan Meide, F1, 1N Series, standard, flexible grooved couplings**

(Refer to the Schedule/enclosures for further specified details)

## Agent/distributor

Australian Fire Supplies & Fabrication Pty Ltd  
Unit 1/32 Stennett Road, INGLEBURN, NSW, AUSTRALIA, 2565

## Registrant

Australian Fire Supplies & Fabrication Pty Ltd  
Unit 1/32 Stennett Road, INGLEBURN, NSW, AUSTRALIA, 2565

### Producer

Jinan Meide Casting Co., Ltd.  
Meide Science and Technology Park, Pingyin Industrial Park, JINAN, SHANDONG, CHINA, 250400

## Conformance criteria and evaluation

The Jinan Meide, F1, 1N Series, standard, flexible grooved couplings have been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Approval Standard FM Class Number 1920, 'Approval Standard for Pipe Couplings and Fittings for Aboveground Fire Protection Systems'.
2. Factory Mutual - Evaluation and approval, 'FM approval'.
3. Underwriters Laboratories Standard UL 213, 'Rubber Gasketed Fittings for Fire-Protection Service'.
4. Underwriters Laboratories - Evaluation and listing, 'UL listing'.

## Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this certificate, are derived from qualifications from evaluation(s) for conformity and/or other related technical documentation. All details with respect to design, assembly and installation instructions and restrictions should be checked against the producer's current technical manual/data sheets and the requirements of the Authority having Jurisdiction.

Specified limitations/conditions, determined from the evaluation for conformity, include the following.

- i. System design and installation shall be determined and verified in accordance with the performance and prescribed requirements of the regulations, standards and criteria as specified by the building code and authorities having jurisdiction.

(Limitations/conditions of conformance continue)

This certification is issued within the scope of CSIRO Verification Services – Rules governing ActivFire Scheme and is valid only for the product(s) as submitted for evaluation and verification of conformity, subject to the following conditions.

- Reference to details, limitations and requirements, where documented as a schedule/enclosure with this certificate.
- The Registrant is responsible for their attestation of conformity and ensuring that on-going production complies with the conformance criteria defined in this certificate.
- This certificate will not be valid if any changes or modifications are made to the product which have not been notified and validated by CSIRO Verification Services.
- This certificate is subject to periodical re-validation upon verification that all requirements, as determined by the conformity assessment body, continue to be satisfactorily met by the Registrant.
- This certificate may only be reproduced in its published form, without modification and inclusive of all schedules/enclosures.
- Any changes, errors or omissions, must be submitted in writing and if necessary or requested, substantiated with relevant evidence.
- Any representations, such as advertising or other marketing related activities or articles shall reflect the correct contents of this certificate and conform with all relevant trade practices and consumer protection legislation and regulations.
- Any terms or conditions of use as applicable to content and documentation as published or accessed through web sites administered by the CSIRO Verification Services.

Issued by

Kai Loh

Executive Officer – ActivFire Scheme



# Schedule to Certificate of Conformity

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- ii. System design and installation requirements may specify a minimum wall thickness that precludes the use of some of the scheduled pipe sizes for certain applications and locations.
- iii. The dimensional and mechanical compatibility of pipes must be verified with the sizes of components by which they are connected or to which they connect.

## Technical specification

The following details are a representative extract of the technical specification for the Jinan Meide, F1, 1N Series, standard, flexible grooved couplings and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

### Schedule of variant designations

The following is a schedule of validated variant designations of the certified/listed equipment.

Model F1	Nominal pipe size   Rated working pressure <sup>a, b, c</sup>												
	33.7 mm (1")	42.7 mm (1-1/4")	48.3 mm (1-1/2")	60.3 mm (2")	73.1 mm (2-1/2")	76.1 mm	88.9 mm (3")	108 mm	114.3 mm (4")	133 mm	139.7 mm	141.3 mm (5")	159 mm
Schedule 40, Cut Groove	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	-	2070 kPa (300 psi)	-
Schedule 40, Roll Groove	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	-	2070 kPa (300 psi)	-
Schedule 30, Cut Groove	-	-	-	-	-	-	-	-	-	-	-	-	-
Schedule 30, Rolled Groove	-	-	-	-	-	-	-	-	-	-	-	-	-
Schedule 10, Rolled Groove	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	-	2070 kPa (300 psi)	-
Thinwall Pipes, Rolled Groove	-	-	-	-	-	-	-	-	-	-	-	-	-
Schedule 10, Rolled Groove	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	-	2070 kPa (300 psi)	-
0.188" Wall, Rolled Groove	-	-	-	-	-	-	-	-	-	-	-	-	-
Schedule 10, Swage Groove	-	-	-	-	-	-	-	-	-	-	-	-	-
Lightwall Pipes, Rolled Groove	-	-	-	-	-	-	-	-	-	-	-	-	-
Lightwall Pipes, Swage Groove	-	-	-	-	-	-	-	-	-	-	-	-	-
Schedule 5 Pipe, Rolled Groove	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>EN 10220 (ISO 4200), Cut Groove</b>													
Thickness F	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	-	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	-	-	-
Thickness G	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)
<b>EN 10220 (ISO 4200), Rolled Groove</b>													
Thickness D	-	-	-	-	-	-	-	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)
Thickness E	-	-	-	2070 kPa (300 psi)	-	-	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)
Thickness F	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)
Thickness G	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)
<b>EN 10255 (BS 1387) Medium, Rolled Groove</b>	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	-	2070 kPa (300 psi)	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	-
<b>EN 10255 (BS 1387) Heavy, Rolled Groove</b>	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	-	2070 kPa (300 psi)	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	-
<b>Chinese Standard GB/T 3091, Rolled Groove</b>	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	2070 kPa (300 psi)	2070 kPa (300 psi)	-	2070 kPa (300 psi)

...Model F1 size continuation

Model F1	Nominal pipe size   Rated working pressure <sup>a, b, c</sup>											
	165.1 mm	168.3 mm (6")	216.3 mm	219.1 mm (8")	267 mm	273 mm (10")	318 mm	323.9 mm (12")	356 mm	377 mm	406 mm	426 mm
Schedule 40, Cut Groove	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	-	-	-
Schedule 40, Roll Groove	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	-	-	-
Schedule 30, Cut Groove	-	-	-	2070 kPa	-	2070 kPa	-	2070 kPa	-	-	-	-



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Model 1N	Nominal pipe size   Rated working pressure <sup>a, b, c, d</sup>												
	33.7 mm (1")	42.7 mm (1-1/4")	48.3 mm (1-1/2")	60.3 mm (2")	73.1 mm (2-1/2")	76.1 mm	88.9 mm (3")	108 mm	114.3 mm (4")	133 mm	139.7 mm	141.3 mm (5")	159 mm
Thickness G	-	-	-	-	-	-	-	-	-	-	-	-	-
EN 10220 (ISO 4200), Rolled Groove	-	-	-	-	-	-	-	-	-	-	-	-	-
Thickness D	-	-	-	-	-	-	-	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)
Thickness E	-	-	-	3405 kPa (500 psi)	-	-	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)
Thickness F	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)
Thickness G	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)
EN 10255 (BS 1387) Medium, Rolled Groove	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	-	3405 kPa (500 psi)	3405 kPa (500 psi)	-	3405 kPa (500 psi)	-	3405 kPa (500 psi)	-	-
EN 10255 (BS 1387) Heavy, Rolled Groove	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	-	3405 kPa (500 psi)	3405 kPa (500 psi)	-	3405 kPa (500 psi)	-	3405 kPa (500 psi)	-	-
Chinese Standard GB/T 3091, Rolled Groove	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	3405 kPa (500 psi)	-	3405 kPa (500 psi)	-	3405 kPa (500 psi)	2070 kPa (300 psi)	3405 kPa (500 psi)	-	2070 kPa (300 psi)

...Model 1N size continuation

Model 1N	Nominal pipe size   Rated working pressure <sup>a, b, c, d</sup>											
	165.1 mm	168.3 mm (6")	216.3 mm	219.1 mm (8")	267 mm	273 mm (10")	318 mm	323.9 mm (12")	356 mm	377 mm	406 mm	426 mm
Schedule 40, Cut Groove	3405 kPa (500 psi)	3405 kPa (500 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	-	-	-
Schedule 40, Roll Groove	3405 kPa (500 psi)	3405 kPa (500 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	-	-	-
Schedule 30, Cut Groove	-	-	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	-	-	-
Schedule 30, Rolled Groove	3405 kPa (500 psi)	3405 kPa (500 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	-	-	-
Thinwall Pipes, Rolled Groove	-	-	-	-	-	-	-	-	-	-	-	-
Schedule 10, Rolled Groove	3405 kPa (500 psi)	3405 kPa (500 psi)	-	-	-	-	-	-	-	-	-	-
0.188" Wall, Rolled Groove	-	-	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	-	-	-
Schedule 10, Swage Groove	-	-	-	-	-	-	-	-	-	-	-	-
Lightwall Pipes, Rolled Groove	-	-	-	-	-	-	-	-	-	-	-	-
Lightwall Pipes, Swage Groove	-	-	-	-	-	-	-	-	-	-	-	-
Schedule 5 Pipe, Rolled Groove	-	-	-	-	-	-	-	-	-	-	-	-
EN 10220 (ISO 4200), Cut Groove	-	-	-	-	-	-	-	-	-	-	-	-
Thickness F	3405 kPa (500 psi)	3405 kPa (500 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	-	-	-
Thickness G	3405 kPa (500 psi)	3405 kPa (500 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	-	-	-
EN 10220 (ISO 4200), Rolled Groove	-	-	-	-	-	-	-	-	-	-	-	-
Thickness D	3405 kPa (500 psi)	3405 kPa (500 psi)	-	-	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	-	-	-
Thickness E	3405 kPa (500 psi)	3405 kPa (500 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	-	-	-
Thickness F	3405 kPa (500 psi)	3405 kPa (500 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	-	-	-
Thickness G	3405 kPa (500 psi)	3405 kPa (500 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	-	-	-
EN 10255 (BS 1387) Medium, Rolled Groove	3405 kPa (500 psi)	-	-	-	-	-	-	-	-	-	-	-
EN 10255 (BS 1387) Heavy, Rolled Groove	3405 kPa (500 psi)	-	-	-	-	-	-	-	-	-	-	-
Chinese Standard GB/T 3091, Rolled Groove	-	3405 kPa (500 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	2070 kPa (300 psi)	-	-	-	-

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**Notes:**

- a. Minimum schedule cut groove pipe to be joined: 6 inch or smaller, Schedule 40; 8 inch or larger, Schedule 30
- b. Minimum schedule rolled groove pipe to be joined: 6 inch or smaller, Schedule 10; 8 or 10 inch - 5 mm (0.188 inch) wall; 12 inch – 0.250 in. wall
- c. All couplings in table above, Supply with a Grade E EDPM gasket using standard gasket lubricant
- d. Electroplate Zinc Coating and Hot dip Galvanize coating available on bolt and nut assembly.

## Supplementary information

**Schedule of relevant articles**

The following schedule is an extract of articles significant and/or related as evidence of conformity.

Reference		Title / description	Date issued (or date validated)	Source
Ident. type	Ident.			
Extract	fm_w3_JinanMeide_F1_v_2022-11-14.pdf	Pipes/Fittings/Couplings   Aboveground Pipe and Fittings   Grooved Couplings, Standard-Flexible Model F1 Jinan Miede, Pipe Fittings <small>(fm_w3_JinanMeide_F1_v_2022-11-14.pdf)</small>	14-Nov-2022	Approval Guide, FM Approvals, US
	fm_w3_JinanMeide_1N_v_2022-11-14.pdf	Pipes/Fittings/Couplings   Aboveground Pipe and Fittings   Grooved Couplings, Standard-Flexible Model 1N Jinan Miede, Pipe Fittings <small>(fm_w3_JinanMeide_1N_v_2022-11-14.pdf)</small>		
	ul_w3_HHXX.EX6624.Fittings	HHXX-EX6624 – Fittings, Cast Iron, Ductile Iron, Malleable Iron and Bronze <small>(ul_w3_HHXX.EX6624.Fittings_v_2021-04-22.pdf)</small>	22-Apr-2021	Product iQ™, Underwriters Laboratories Inc., US;