



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 3610</b>	7-Jul-2021	Number 1	Issue date 7-Jul-2021	30-Apr-2023

## Product designation

**Jinan Meide, Model range 1#... - 9045, T330 (ANSI/ASME B16.3, BS EN10242), malleable iron pipe fittings**

(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, Model range 1#... - 9045, T330 (ANSI/ASME B16.3, BS EN10242), malleable iron pipe fittings 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 - 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. This equipment shall not be exposed to an ambient temperature exceeding 107°F (225°C).

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

David Whittaker  
Executive Officer – ActivFire Scheme



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## Technical specification

The following details are a representative extract of the technical specification for the Jinan Meide, Model range 1#... - 9045, T330 (ANSI/ASME B16.3, BS EN10242), malleable iron pipe fittings 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 num.	Description <sup>(a)(c)(e)</sup>	End connection	Nominal pipe size		Rated working pressure	
			mm	In.	kPa	psi
1#	90° Bend <sup>(c)</sup>	Male BSP X Female BSP	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
1#	90° Bend <sup>(c)</sup>	Male BSP X Female BSP	150	6	2065	300
1#	90° Bend <sup>(e)</sup>	Male BSP X Female BSP	3, 6, 10, 12, 20, 25, 32, 40, 50, 65, 80, 100	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
1#	90° Bend <sup>(e)</sup>	Male BSP X Female BSP	150	6	3100	450
1A	90° Bend Short <sup>(c)</sup>	Male BSP X Female BSP	12, 20, 25, 32, 40, 50, 65, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 4	3445	500
1A	90° Bend Short <sup>(e)</sup>	Male BSP X Female BSP	6, 10, 12, 20, 25, 32, 40, 50, 65, 80, 100	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
2#	90° Bend <sup>(c)</sup>	Female BSP	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
2#	90° Bend <sup>(e)</sup>	Female BSP	6, 10, 12, 20, 25, 32, 40, 50, 65, 80, 100	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
2A	90° Bend Short <sup>(c)</sup>	Female BSP	12, 20, 25, 32, 40, 50	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	3445	500
2A	90° Bend Short <sup>(e)</sup>	Female BSP	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
2AF	90° Bend Short <sup>(e)</sup>	Female BSP	6, 12, 20, 25, 32, 40	1/4, 1/2, 3/4, 1, 1 1/4, 1 1/2	3445	500
3#	90° Bend <sup>(c)</sup>	Male BSP	12, 20, 25, 34, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/3, 1 1/2, 2, 2 1/2, 3, 4	3445	500
3#	90° Bend <sup>(e)</sup>	Male BSP	6, 10, 12, 20, 25, 32, 40, 50, 65, 80, 100	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
40	45° Bend <sup>(c)</sup>	Male BSP X Female BSP	12, 20, 25, 34, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/3, 1 1/2, 2, 2 1/2, 3, 4	3445	500
40	45° Bend <sup>(c)</sup>	Male BSP X Female BSP	150	6	2065	300
40	45° Bend <sup>(e)</sup>	Male BSP X Female BSP	6, 10, 12, 20, 25, 32, 40, 50, 65, 80, 100	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
40	45° Bend <sup>(e)</sup>	Male BSP X Female BSP	150	6	3100	450
41	45° Bend <sup>(c)</sup>	Female BSP	12, 20, 25, 34, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/3, 1 1/2, 2, 2 1/2, 3, 4	3445	500
41	45° Bend <sup>(e)</sup>	Female BSP	6, 10, 12, 20, 25, 32, 40, 50, 65, 80, 100	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
85	Crossover <sup>(c)</sup>	BSP	12, 20, 25, 32, 40, 50	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	3445	500
85	Crossover <sup>(e)</sup>	BSP	12, 20, 25, 32, 40, 50	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	3445	500
90	90° Elbow <sup>(a)</sup>	NPT	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
90	90° Elbow <sup>(a)</sup>	NPT	125, 150	5, 6	2065	300
90	90° Elbow <sup>(c)</sup>	BSP	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
90	90° Elbow <sup>(c)</sup>	BSP	125, 150	5, 6	2065	300
90	90° Elbow <sup>(e)</sup>	BSP	3, 6, 10, 12, 20, 25, 32, 40, 50, 65, 80, 100, 125	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4, 5	3445	500
90	90° Elbow <sup>(e)</sup>	BSP	150	6	3100	450

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Model num.	Description <sup>(a)(c)(e)</sup>	End connection	Nominal pipe size		Rated working pressure	
			mm	In.	kPa	psi
90R	90° Reducing Elbow <sup>(a)</sup>	NPT	12 x 6, 10 20 x 6, 10, 12 25 x 100 x 10, 12, 20 32 x 10, 12, 20, 25 40 x 12, 20, 25, 32 50 x 12, 20, 25, 32, 40 65 x 12, 20, 25, 32, 40, 50 80 x 12, 20, 25, 32, 40, 50, 65 100 x 12, 20, 25, 32, 40, 50, 65, 80	1/2 x 1/4, 3/8 3/4 x 1/4, 3/8, 1/2 1 x 1/4 x 3/8, 1/2, 3/4 1 1/4 x 3/8, 1/2, 3/4, 1 1 1/2 x 1/2, 3/4, 1, 1 1/4 2 x 1/2, 3/4, 1, 1 1/4, 1 1/2 2 1/2 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2 3 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2 4 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	3445	500
90R	90° Reducing Elbow <sup>(c)</sup>	BSP	12 x 6, 10 20 x 6, 10, 12 25 x 100 x 10, 12, 20 32 x 10, 12, 20, 25 40 x 12, 20, 25, 32 50 x 12, 20, 25, 32, 40 65 x 12, 20, 25, 32, 40, 50 80 x 12, 20, 25, 32, 40, 50, 65 100 x 12, 20, 25, 32, 40, 50, 65, 80	1/2 x 1/4, 3/8 3/4 x 1/4, 3/8, 1/2 1 x 1/4 x 3/8, 1/2, 3/4 1 1/4 x 3/8, 1/2, 3/4, 1 1 1/2 x 1/2, 3/4, 1, 1 1/4 2 x 1/2, 3/4, 1, 1 1/4, 1 1/2 2 1/2 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2 3 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2 4 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	3445	500
90R	90° Reducing Elbow <sup>(c)</sup>	BSP	100 x 100	6 x 4	2065	300
90R	90° Reducing Elbow <sup>(e)</sup>	BSP	10 x 6 12 x 6, 10 20 x 10, 12 25 x 10, 12, 20 32 x 12, 20, 25 40 x 12, 20, 25, 32 50 x 12, 20, 25, 32, 40 65 x 25, 40, 50 80 x 40, 50, 65 100 x 65, 80	3/8 x 1/4 1/2 x 1/4, 3/8 3/4 x 3/8, 1/2 1 x 3/8, 1/2, 3/4 1 1/4 x 1/2, 3/4, 1 1 1/2 x 1/2, 3/4, 1, 1 1/4 2 x 1/2, 3/4, 1, 1 1/4, 1 1/2 2 1/2 x 1, 1 1/2, 2 3 x 1 1/2, 2, 2 1/2 4 x 2 1/2, 3	3445	500
90U	Return Bend <sup>(e)</sup>	BSP	12, 20, 25, 32, 40, 50	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	3445	500
92	90° Street Elbow <sup>(a)</sup>	NPT	12, 20, 25, 32, 40, 50 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2 2 1/2, 3, 4	3445	500
92	90° Street Elbow <sup>(a)</sup>	NPT	150	6	2065	300
92	90° Street Elbow <sup>(c)</sup>	BSP	12, 20, 25, 32, 40, 50 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2 2 1/2, 3, 4	3445	500
92	90° Street Elbow <sup>(c)</sup>	BSP	150	6	2065	300
92	90° Street Elbow <sup>(e)</sup>	BSP	3, 6, 10, 12, 20, 25, 32, 40, 50, 65, 80, 100	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
92R	90° Reducing Street Elbow <sup>(c)</sup>	BSP	20 x 12 25 x 20	3/4 x 1/2 1 x 3/4	3445	500
92R	90° Reducing Street Elbow <sup>(e)</sup>	BSP	12 x 10 20 x 10, 12, 25 25 x 20 32 x 25 40 x 25, 32	1/2 x 3/8 3/4 x 3/8, 1/2, 1 1 x 3/4 1 1/4 x 1 1 1/2 x 1, 1 1/4	3445	500
94	90° Elbow <sup>(e)</sup>	Male BSP	10, 12, 20, 25, 32, 40, 50	3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2	3445	500
95	Union Elbow, Flat Seat without gasket <sup>(c)</sup>	Female BSP	12, 20, 25, 32, 40, 50	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	3445	500
95	Union Elbow, Flat Seat without gasket <sup>(e)</sup>	Female BSP	10, 12, 20, 25, 32, 40, 50, 65, 80	3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	3445	500
95D	Union Elbow, Flat Seat with gasket <sup>(e)</sup>	Female BSP	10, 12, 20, 25, 32, 40, 50, 65, 80	3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	3445	500
96	Union Elbow, Conical Joint Iron to Iron <sup>(c)</sup>	Female BSP	12, 20, 25, 32, 40, 50	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	3445	500
96	Union Elbow, Conical Joint Iron to Iron <sup>(e)</sup>	Female BSP	6, 10, 12, 20, 25, 32, 40, 50, 65, 80	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	3445	500

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Model num.	Description <sup>(a)(c)(e)</sup>	End connection	Nominal pipe size		Rated working pressure	
			mm	In.	kPa	psi
97	Union Elbow, Flat Seat without gasket <sup>(c)</sup>	Male BSP X Female BSP	40	1 1/2	3445	500
97	Union Elbow, Flat Seat without gasket <sup>(e)</sup>	Male BSP X Female BSP	10, 12, 20, 25, 32, 40, 50, 65, 80	3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	3445	500
98	Union Elbow, Conical Joint Iron to Iron <sup>(c)</sup>	Male BSP X Female BSP	12, 20, 25, 32, 40, 50	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	3445	500
98	Union Elbow, Conical Joint Iron to Iron <sup>(e)</sup>	Male BSP X Female BSP	6, 10, 12, 20, 25, 32, 40, 50, 65, 80	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	3445	500
120	45° Elbow <sup>(a)</sup>	NPT	12, 20, 25, 32, 25 12, 50 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2 2 1/2, 3, 4	3445	500
120	45° Elbow <sup>(a)</sup>	NPT	125, 150	5, 6	2065	300
120	45° Elbow <sup>(c)</sup>	BSP	12, 20, 25, 32, 25 12, 50 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2 2 1/2, 3, 4	3445	500
120	45° Elbow <sup>(c)</sup>	BSP	125, 150	5, 6	2065	300
120	45° Elbow <sup>(e)</sup>	BSP	6, 10, 12, 20, 25, 32, 40, 50, 65, 80, 100	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
120	45° Elbow <sup>(e)</sup>	BSP	150	6	3100	450
121	45° Street Elbow <sup>(a)</sup>	NPT	12, 20, 25, 32, 25 12, 50 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2 2 1/2, 3, 4	3445	500
121	45° Street Elbow <sup>(c)</sup>	BSP	12, 20, 25, 32, 25 12, 50 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2 2 1/2, 3, 4	3445	500
121	45° Street Elbow <sup>(e)</sup>	BSP	10, 12, 20, 25, 32, 40, 50, 65, 80	3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	3445	500
130	Equal Tee <sup>(a)</sup>	NPT	12, 20, 25, 32, 25 12, 50 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2 2 1/2, 3, 4	3445	500
130	Equal Tee <sup>(a)</sup>	NPT	125, 150	5, 6	2065	300
130	Equal Tee <sup>(c)</sup>	BSP	12, 20, 25, 32, 25 12, 50 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2 2 1/2, 3, 4	3445	500
130	Equal Tee <sup>(c)</sup>	BSP	125, 150	5, 6	2065	300

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Model num.	Description <sup>(a)(c)(e)</sup>	End connection	Nominal pipe size		Rated working pressure	
			mm	In.	kPa	psi
130R	Reducing Tee <sup>(a)</sup>	NPT	12 x 12 x 6, 10 12 x 6 x 12 12 x 10 x 12 20 x 20 x 6, 10, 12 20 x 12 x 12 x 20 25 x 25 x 6, 10, 12, 20 25 x 12 x 12, 20, 25 25 x 20 x 12, 20, 25 32 x 12 x 12, 20, 25, 32 32 x 20 x 20, 25, 32 32 x 25 x 12, 20, 25, 32, 40 32 x 32 x 10, 12, 20, 25 40 x 12 x 20, 40 40 x 20 x 12, 20, 25, 32, 40 40 x 25 x 12, 20, 25, 32, 40 40 x 32 x 12, 20, 25, 32, 40, 50 40 x 40 x 12, 20, 25, 32 50 x 12 x 50 50 x 20 x 50 50 x 25 x 25, 40, 50 50 x 32 x 25, 32, 40, 50 50 x 40 x 12, 20, 25, 32, 40, 50 50 x 50 x 12, 20, 25, 32, 40 65 x 40 x 50, 65 65 x 50 x 50, 65 65 x 65 x 12, 20, 25, 32, 40, 50 80 x 50 x 50, 80 80 x 80 x 12, 20, 25, 32, 40, 50, 65 100 x 100 x 12, 20, 25, 32, 40, 50, 65, 80	1/2 x 1/2 x 1/4, 3/8 1/2 x 1/4 x 1/2 1/2 x 3/8 x 1/2 3/4 x 3/4 x 1/4, 3/8, 1/2 3/4 x 1/2 x 1/2 x 3/4 1 x 1 x 1/4, 3/8, 1/2, 3/4 1 x 1/2 x 1/2, 3/4, 1 1 x 3/4 x 1/2, 3/4, 1 1 1/4 x 1/2 x 1/2, 3/4, 1, 1 1/4 1 1/4 x 3/4 x 3/4, 1, 1 1/4 1 1/4 x 1 x 1/2, 3/4, 1, 1 1/4, 1 1/2 1 1/4 x 1 1/4 x 3/8, 1/2, 3/4, 1 1 1/2 x 1/2 x 3/4, 1 1/2 1 1/2 x 3/4 x 1/2, 3/4, 1, 1 1/4, 1 1/2 1 1/2 x 1 x 1/2, 3/4, 1, 1 1/4, 1 1/2 1 1/2 x 1 1/4 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2 1 1/2 x 1 1/2 x 1/2, 3/4, 1, 1 1/4 2 x 1/2 x 2 2 x 3/4 x 2 2 x 1 x 1, 1 1/2, 2 2 x 1 1/4 x 1, 1 1/4, 1 1/2, 2 2 x 1 1/2 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2 2 x 2 x 1/2, 3/4, 1, 1 1/4, 1 1/2 2 1/2 x 1 1/2 x 2, 2 1/2 2 1/2 x 2 x 2, 2 1/2 2 1/2 x 2 1/2 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2 3 x 2 x 2, 3 3 x 3 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2 4 x 4 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	3445	500

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Model num.	Description <sup>(a)(c)(e)</sup>	End connection	Nominal pipe size		Rated working pressure	
			mm	In.	kPa	psi
130R	Reducing Tee <sup>(c)</sup>	BSP	12 x 6, 10	1/2 x 1/4, 3/8	3445	500
			20 x 6, 10, 12	3/4 x 1/4, 3/8, 1/2		
			25 x 6, 10, 12, 20	1 x 1/4, 3/8, 1/2, 3/4		
			32 x 10, 12, 20, 25	1 1/4 x 3/8, 1/2, 3/4, 1		
			40 x 10, 12, 20, 25, 32	1 1/2 x 3/8, 1/2, 3/4, 1, 1 1/4		
			50 x 10, 12, 20, 25, 32, 40	2 x 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2		
			65 x 20, 12, 25, 32, 40, 50	2 1/2 x 3/4, 1/2, 1, 1 1/4, 1 1/2, 2		
			80 x 12, 20, 25, 32, 40, 50, 65	3 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2		
			100 x 12, 20, 25, 32, 40, 50, 65, 80	4 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3		
			12 x 12 x 20, 25	1/2 x 1/2 x 3/4, 1		
			20 x 20 x 25, 32	3/4 x 3/4 x 1, 1 1/4		
			25 x 25 x 32 x 40, 50, 65	1 x 1 x 1 1/4 x 1 1/2, 2, 2 1/2		
			32 x 32 x 40, 50	1 1/4 x 1 1/4 x 1 1/2, 2		
			40 x 40 x 50, 65	1 1/2 x 1 1/2 x 2, 2 1/2		
			50 x 50 x 65	2 x 2 x 2 1/2		
			65 x 65 x 80, 100	2 1/2 x 2 1/2 x 3, 4		
			20, 25 x 12 x 12	3/4, 1 x 1/2 x 1/2		
			32, 40 x 20 x 20	1 1/4, 1 1/2 x 3/4 x 3/4		
			32 x 12 x 12	1 1/4 x 1/2 x 1/2		
			32, 40, 50 x 25 x 25	1 1/4, 1 1/2, 2 x 1 x 1		
			40, 50 x 32 x 32	1 1/2, 2 x 1 1/4 x 1 1/4		
			50 x 40 x 40	2 x 1 1/2 x 1 1/2		
			65, 80 x 50 x 50	2 1/2, 3 x 2 x 2		
			20 x 12 x 20	3/4 x 1/2 x 3/4		
			25 x 12 x 25, 25 x 20 x 25, 25 x 100 x 25	1 x 1/2 x 1, 1 x 3/4 x 1, 1 x 1/4 x 1		
			32 x 12 x 32, 32, 32 x 20 x 32, 32 x 25 x 32	1 1/4 x 1/2 x 1 1/4, 1 1/4, 1 1/4 x 3/4 x 1		
			40 x 12 x 40, 40 x 20 x 40, 40 x 25 x 40, 40 x 32 x 40	1/4, 1 1/4 x 1 x 1 1/4		
			50 x 12 x 50, 50 x 20 x 50, 50 x 25 x 50, 50 x 32 x 50, 50 x 40 x 50	1 1/2 x 1/2 x 1 1/2, 1 1/2 x 3/4 x 1 1/2, 1		
			65 x 40 x 65, 65 x 50 x 65	1/2 x 1 x 1 1/2, 1 1/2 x 1 1/4 x 1 1/2		
			20 x 12 x 25, 25 x 12 x 20, 25 x 20 x 12	2 x 1/2 x 2, 2 x 3/4 x 2, 2 x 1 x 2, 2 x 1		
			32 x 12 x 20, 25	1/4 x 2, 2 x 1 1/2 x 2		
			32 x 20 x 12, 25	2 1/2 x 1 1/2 x 2 1/2, 2 1/2 x 2 x 2 1/2		
			32 x 25 x 12, 20	3/4 x 1/2 x 1, 1 x 1/2 x 3/4, 1 x 3/4 x 1/2		
			40 x 20 x 25, 32	1 1/4 x 1/2 x 3/4, 1		
			40 x 25 x 12, 32	1 1/4 x 3/4 x 1/2, 1		
			40 x 32 x 12, 20, 50	1 1/4 x 1 x 1/2, 3/4		
			50 x 25 x 40	1 1/2 x 3/4 x 1, 1 1/4		
			50 x 32 x 25, 40 x 40 x 20, 25, 32	1 1/2 x 1 x 1/2, 1 1/4		
			65 x 50 x 12, 25, 32	1 1/2 x 1 1/4 x 1/2, 3/4, 2		
				2 x 1 x 1 1/2		
	2 x 1 1/4 x 1, 1 1/22 x 1 1/2 x 3/4, 1, 1					
	1/4					
	2 1/2 x 2 x 1/2, 1, 1 1/4					
130R	Reducing Tee <sup>(c)</sup>	BSP	100 x 50, 80, 100	6 x 2, 3, 4	2065	300

# Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 3610</b>	7-Jul-2021	Number 1	Issue date 7-Jul-2021	30-Apr-2023

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Model num.	Description <sup>(a)(c)(e)</sup>	End connection	Nominal pipe size		Rated working pressure	
			mm	In.	kPa	psi
130R	Reducing Tee <sup>(e)</sup>	BSP	10 x 10 x 6, 12 12 x 10 x 10, 12 12 x 12 x 6, 10, 20, 25 20 x 10 x 20 20 x 12 x 12, 20, 25 20 x 20 x 6, 10, 12, 25 25 x 10 x 25 25 x 12 x 12, 20, 25 25 x 20 x 12, 20, 25 25 x 25 x 6, 10, 12, 20, 32, 40 32 x 12 x 20, 25, 32 32 x 20 x 12, 20, 25, 32 32 x 25 x 12, 20, 25, 32, 40 32 x 32 x 10, 12, 20, 25, 40, 50 40 x 12 x 25, 32, 40 40 x 20 x 25, 32, 40 40 x 25 x 12, 20, 25, 32, 40 40 x 32 x 12, 20, 25, 32, 40 40 x 40 x 12, 20, 25, 32, 50 50 x 12 x 40, 50 50 x 20 x 40, 50 50 x 25 x 40, 50 50 x 32 x 32, 40, 50 50 x 40 x 12, 20, 25, 32, 40, 50 50 x 50 x 12, 20, 25, 32, 40 65 x 50 x 50 65 x 65 x 12, 20, 25, 32, 40, 50 80 x 50 x 50 80 x 80 x 12, 20, 25, 32, 40, 50, 65 100 x 100 x 25, 32, 40, 50, 65, 80 125 x 125 x 100	3/8 x 3/8 x 1/4, 1/2 1/2 x 3/8 x 3/8, 1/2 1/2 x 1/2 x 1/4, 3/8, 3/4, 1 3/4 x 3/8 x 3/4 3/4 x 1/2 x 1/2, 3/4, 1 3/4 x 3/4 x 1/4, 3/8, 1/2, 1 1 x 3/8 x 1 1 x 1/2 x 1/2, 3/4, 1 1 x 3/4 x 1/2, 3/4, 1 1 x 1 x 1/4, 3/8, 1/2, 3/4, 1 1/4, 1 1/2 1 1/4 x 1/2 x 3/4, 1, 1 1/4 1 1/4 x 3/4 x 1/2, 3/4, 1, 1 1/4 1 1/4 x 1 x 1/2, 3/4, 1, 1 1/4, 1 1/2 1 1/4 x 1 1/4 x 3/8, 1/2, 3/4, 1, 1 1/2, 2 1 1/2 x 1/2 x 1, 1 1/4, 1 1/2 1 1/2 x 3/4 x 1, 1 1/4, 1 1/2 1 1/2 x 1 x 1/2, 3/4, 1, 1 1/4, 1 1/2 1 1/2 x 1 1/4 x 1/2, 3/4, 1, 1 1/4, 1 1/2 1 1/2 x 1 1/2 x 1/2, 3/4, 1, 1 1/4, 2 2 x 1/2 x 1 1/2, 2 2 x 3/4 x 1 1/2, 2 2 x 1 x 1 1/2, 2 2 x 1 1/4 x 1 1/4, 1 1/2, 2 2 x 1 1/2 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2 2 x 2 x 1/2, 3/4, 1, 1 1/4, 1 1/2 2 1/2 x 2 x 2 2 1/2 x 2 1/2 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2 3 x 2 x 2 3 x 3 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2 4 x 4 x 1, 1 1/4, 1 1/2, 2, 2 1/2, 3 5 x 5 x 4	3445	500
130R	Reducing Tee <sup>(e)</sup>	BSP	100 x 100 x 100	6 x 6 x 4	3100	450
130R	Bullhead Tee <sup>(a)</sup>	NPT	10 x 10 x 12 12 x 12 x 20, 25 20 x 20 x 25 25 x 25 x 32, 40, 50 32 x 32 x 40, 50 40 x 40 x 50 50 x 50 x 65	3/8 x 3/8 x 1/2 1/2 x 1/2 x 3/4, 1 3/4 x 3/4 x 1 1 x 1 x 1 1/4, 1 1/2, 2 1 1/4 x 1 1/4 x 1 1/2, 2 1 1/2 x 1 1/2 x 2 2 x 2 x 2 1/2	3445	500
131	Equal Tee <sup>(c)</sup>	BSP	12, 20, 25, 32, 40, 50	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	3445	500
131	Equal Tee <sup>(e)</sup>	BSP	12, 20, 25, 32, 40, 50	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	3445	500
132	Twin Elbow <sup>(e)</sup>	BSP	12, 20, 25, 32, 40, 50	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	3445	500
133	Equal Tee <sup>(e)</sup>	Female BSP X Female BSP X Male BSP	10, 12, 20, 25	3/8, 1/2, 3/4, 1	3445	500
134	Service Tee <sup>(a)</sup>	NPT	12, 20, 25, 32, 40, 50	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	3445	500
134	Service Tee <sup>(c)</sup>	BSP	12, 20, 25, 32, 40, 50	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	3445	500
134	Service Tee <sup>(e)</sup>	BSP	12, 20, 25, 32, 40, 50	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	3445	500
134R	Service Tee Reducing <sup>(c)</sup>	BSP	50 x 40 65 x 50 80 x 65	2 x 1 1/2 2 1/2 x 2 3 x 2 1/2	3445	500
135	Equal Tee <sup>(e)</sup>	Male BSP	12, 20, 25	1/2, 3/4, 1	3445	500
165	Lateral Y Branch <sup>(a)</sup>	NPT	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
165	Lateral Y Branch <sup>(c)</sup>	BSP	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
165	Lateral Y Branch <sup>(e)</sup>	BSP	12, 20, 25, 32, 40, 50	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	3445	500
180	Equal Cross <sup>(a)</sup>	NPT	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
180	Equal Cross <sup>(a)</sup>	NPT	125, 150	5, 6	2065	300
180	Equal Cross <sup>(c)</sup>	BSP	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
180	Equal Cross <sup>(e)</sup>	BSP	3, 6, 10, 12, 20, 25, 32, 40, 50, 65, 80, 100	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500

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7-Jul-2021

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Model num.	Description <sup>(a)(c)(e)</sup>	End connection	Nominal pipe size		Rated working pressure	
			mm	In.	kPa	psi
180R	Reducing Cross <sup>(a)</sup>	NPT	20 x 12 25 x 20 32 x 20, 25 40 x 20, 25, 32 50 x 20, 25, 32, 40 50 x 12 x 25, 32, 40, 50 80 x 25, 32, 40, 50, 65 100 x 65, 80	3/4 x 1/2 1 x 3/4 1 1/4 x 3/4, 1 1 1/2 x 3/4, 1, 1 1/4 2 x 3/4, 1, 1 1/4, 1 1/2 2 x 1/2 x 1, 1 1/4, 1 1/2, 2 3 x 1, 1 1/4, 1 1/2, 2, 2 1/2 4 x 2 1/2, 3	3445	500
180R	Reducing Cross <sup>(c)</sup>	BSP	20 x 12 40 x 20 32 x 12, 20, 25 40 x 12, 20, 25, 32 50 x 20, 25, 32, 40 50 x 12 x 25, 32, 40, 50 80 x 20, 25, 32, 40, 50 100 x 25, 32, 40, 50, 65, 80	3/4 x 1/2 1 1/2 x 3/4 1 1/4 x 1/2, 3/4, 1 1 1/2 x 1/2, 3/4, 1, 1 1/4 2 x 3/4, 1, 1 1/4, 1 1/2 2 x 1/2 x 1, 1 1/4, 1 1/2, 2 3 x 3/4, 1, 1 1/4, 1 1/2, 2 4 x 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	3445	500
180R	Reducing Cross <sup>(e)</sup>	BSP	20 x 12, 25 x 12	3/4 x 1/2, 1 x 1/2	3445	500
220	Coupling <sup>(a)</sup>	NPT	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
220	Coupling <sup>(c)</sup>	BSP	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
220	Coupling <sup>(c)</sup>	BSP	125, 150	5, 6	2065	300
240	Reducing Socket <sup>(a)</sup>	NPT	12 x 10 20 x 10, 12 25 x 10, 12, 20 32 x 12, 20, 25 40 x 12, 20, 25, 32 50 x 12, 20, 25, 32, 40 65 x 40, 50 80 x 40, 50, 65 100 x 50, 80	1/2 x 3/8 3/4 x 3/8, 1/2 1 x 3/8, 1/2, 3/4 1 1/4 x 1/2, 3/4, 1 1 1/2 x 1/2, 3/4, 1, 1 1/4 2 x 1/2, 3/4, 1, 1 1/4, 1 1/2 2 1/2 x 1 1/2, 2 3 x 1 1/2, 2, 2 1/2 4 x 2, 3	3445	500
240	Reducing Socket <sup>(c)</sup>	BSP	12 x 6, 10 20 x 6, 10, 12 25 x 6, 10, 12, 20 32 x 6, 10, 12, 20, 25 40 x 100, 10, 12, 20, 25, 32 50 x 12, 20, 25, 32, 40 65 x 12, 20, 25, 32, 40, 50 80 x 12, 20, 25, 32, 40, 50, 65	1/2 x 1/4, 3/8 3/4 x 1/4, 3/8, 1/2 1 x 1/4, 3/8, 1/2, 3/4 1 1/4 x 1/4, 3/8, 1/2, 3/4, 1 1 1/2 x 1/4, 3/8, 1/2, 3/4, 1, 1 1/4 2 x 1/2, 3/4, 1, 1 1/4, 1 1/2 2 1/2 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2 3 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2	3445	500
240N	Reducing Socket <sup>(c)</sup>	NPT	25 x 20	1 x 3/4	2065	300
241	Bushing <sup>(a)</sup>	NPT	12 x 6, 10 20 x 10, 12 25 x 12, 20 32 x 12, 20, 25 40 x 10, 12, 20, 25, 32 50 x 10, 12, 20, 25, 32, 40 65 x 12, 20, 25, 32, 40, 50 80 x 12, 20, 25, 32, 40, 50, 65 90 x 65, 80 100 x 20, 25, 32, 40, 50, 65, 80, 90	1/2 x 1/4, 3/8 3/4 x 3/8, 1/2 1 x 1/2, 3/4 1 1/4 x 1/2, 3/4, 1 1 1/2 x 3/8, 1/2, 3/4, 1, 1 1/4 2 x 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2 2 1/2 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2 3 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2 3 1/2 x 2 1/2, 3 4 x 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 3 1/2	3445	500
241	Bushing <sup>(a)</sup>	NPT	125 x 50, 80, 100 100 x 50, 65, 80, 90, 100, 125	5 x 2, 3, 4 6 x 2, 2 1/2, 3, 3 1/2, 4, 5	2065	300
241	Bushing <sup>(c)</sup>	BSP	12 x 6, 10 20 x 6, 10, 12 25 x 6, 10, 12, 20 32 x 6, 10, 12, 20, 25 40 x 6, 10, 12, 20, 25, 32 50 x 6, 10, 25, 32, 40 65 x 12, 20, 40, 50 80 x 50, 65 90 x 80 100 x 20, 25, 32, 40, 80	1/2 x 1/4, 3/8 3/4 x 1/4, 3/8, 1/2 1 x 1/4, 3/8, 1/2, 3/4 1 1/4 x 1/4, 3/8, 1/2, 3/4, 1 1 1/2 x 1/4, 3/8, 1/2, 3/4, 1, 1 1/4 2 x 1/4, 3/8, 1, 1 1/4, 1 1/2 2 1/2 x 1/2, 3/4, 1 1/2, 2 3 x 2, 2 1/2 3 1/2 x 3 4 x 3/4, 1, 1 1/4, 1 1/2, 3	3445	500
241	Bushing <sup>(c)</sup>	BSP	125 x 80, 100 100 x 50, 65, 125	5 x 3, 4 6 x 2, 2 1/2, 5	2065	300



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<b>afp - 3610</b>	7-Jul-2021	Number 1	Issue date 7-Jul-2021	30-Apr-2023
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Model num.	Description <sup>(a)(c)(e)</sup>	End connection	Nominal pipe size		Rated working pressure	
			mm	In.	kPa	psi
241	Bushing <sup>(e)</sup>	BSP	100 x 3 10 x 3, 6 12 x 3, 6, 10 20 x 3, 6, 10, 12 25 x 6, 10, 12, 20 32 x 10, 12, 20, 25 40 x 6, 10, 12, 20, 25, 32 50 x 25, 32, 40 65 x 12, 20, 40, 50 80 x 12, 50, 65 100 x 25, 32, 40, 50, 80 125 x 100	1/4 x 1/8 3/8 x 1/8, 1/4 1/2 x 1/8, 1/4, 3/8 3/4 x 1/8, 1/4, 3/8, 1/2 1 x 1/4, 3/8, 1/2, 3/4 1 1/4 x 3/8, 1/2, 3/4, 1 1 1/2 x 1/4, 3/8, 1/2, 3/4, 1, 1 1/4 2 x 1, 1 1/4, 1 1/2 2 1/2 x 1/2, 3/4, 1 1/2, 2 3 x 1/2, 2, 2 1/2 4 x 1, 1 1/4, 1 1/2, 2, 3 5 x 4	3445	500
241	Bushing <sup>(e)</sup>	BSP	100 x 125	6 x 5	3100	450
241D	Bushing <sup>(c)</sup>	BSP	50 x 12, 20 65 x 25, 32 80 x 12, 20, 25, 32, 40 100 x 50, 65	2 x 1/2, 3/4 2 1/2 x 1, 1 1/4 3 x 1/2, 3/4, 1, 1 1/4, 1 1/2 4 x 2, 2 1/2	3445	500
241D	Bushing <sup>(c)</sup>	BSP	100 x 80, 100	6 x 3, 4	2065	300
241D	Bushing <sup>(e)</sup>	BSP	25 x 12 50 x 12, 20 65 x 25, 32 80 x 12, 20, 25, 32, 40 100 x 50, 65	1 x 1/2 2 x 1/2, 3/4 2 1/2 x 1, 1 1/4 3 x 1/2, 3/4, 1, 1 1/4, 1 1/2 4 x 2, 2 1/2	3445	500
241D	Bushing <sup>(e)</sup>	BSP	100 x 80, 100	6 x 3, 4	3100	450
245	Hex Nipple Reducing <sup>(c)</sup>	BSP	12 x 6, 10 20 x 6, 10, 12 25 x 12, 20 32 x 12, 20, 25 40 x 12, 20, 25, 32 50 x 12, 20, 25, 32, 40 65 x 25, 32, 40 80 x 40, 50, 65 100 x 50, 100 x 65, 100 x 80	1/2 x 1/4, 3/8 3/4 x 1/4, 3/8, 1/2 1 x 1/2, 3/4 1 1/4 x 1/2, 3/4, 1 1 1/2 x 1/2, 3/4, 1, 1 1/4 2 x 1/2, 3/4, 1, 1 1/4, 1 1/2 2 1/2 x 1, 1 1/4, 1 1/2 3 x 1 1/2, 2, 2 1/2 4 x 2, 4 x 2 1/2, 4 x 3	3445	500
245	Hex Nipple Reducing <sup>(e)</sup>	BSP	100 x 3 10 x 3, 6 12 x 6, 10 20 x 6, 10, 12 25 x 12, 20 32 x 12, 20, 25 40 x 12, 20, 25, 32 50 x 12, 20, 25, 32, 40 65 x 25, 32, 40, 50 80 x 40, 50, 65 100 x 50, 65, 80	1/4 x 1/8 3/8 x 1/8, 1/4 1/2 x 1/4, 3/8 3/4 x 1/4, 3/8, 1/2 1 x 1/2, 3/4 1 1/4 x 1/2, 3/4, 1 1 1/2 x 1/2, 3/4, 1, 1 1/4 2 x 1/2, 3/4, 1, 1 1/4, 1 1/2 2 1/2 x 1, 1 1/4, 1 1/2, 2 3 x 1 1/2, 2, 2 1/2 4 x 2, 2 1/2, 3	3445	500
246	Extension Reducing <sup>(c)</sup>	Male BSP X Female BSP	12 x 6, 10 20 x 10, 12 25 x 12, 20 32 x 12, 20, 25 40, 20, 25, 32 50 x 25, 32, 40	1/2 x 1/4, 3/8 3/4 x 3/8, 1/2 1 x 1/2, 3/4 1 1/4 x 1/2, 3/4, 1 1 1/2, 3/4, 1, 1 1/4 2 x 1, 1 1/4, 1 1/2	3445	500
246	Extension Reducing <sup>(e)</sup>	Male BSP X Female BSP	100 x 3 10 x 6 12 x 6, 10 20 x 10, 12 25 x 12, 20 32 x 12, 20, 25 40 x 20, 25, 32 50 x 12, 20, 25, 32, 40 65 x 40, 50 80 x 50, 65	1/4 x 1/8 3/8 x 1/4 1/2 x 1/4, 3/8 3/4 x 3/8, 1/2 1 x 1/2, 3/4 1 1/4 x 1/2, 3/4, 1 1 1/2 x 3/4, 1, 1 1/4 2 x 1/2, 3/4, 1, 1 1/4, 1 1/2 2 1/2 x 1 1/2, 2 3 x 2, 2 1/2	3445	500
270	Socket <sup>(c)</sup>	BSP Parallel Threads	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
270	Socket <sup>(c)</sup>	BSP Parallel Threads	150	6	2065	300

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7-Jul-2021

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Valid until  
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Model num.	Description <sup>(a)(c)(e)</sup>	End connection	Nominal pipe size		Rated working pressure	
			mm	In.	kPa	psi
271	Socket <sup>(c)</sup>	BSP Right and Left Threads	12, 20, 25, 32, 40, 50	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	3445	500
271	Socket <sup>(e)</sup>	BSP Right and Left Threads	6, 10, 12, 20, 25, 32, 40, 50, 65, 80	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	3445	500
280	Hex Nipple <sup>(a)</sup>	NPT	12, 20, 25, 32, 40, 50, 65	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2	3445	500
280	Hex Nipple <sup>(c)</sup>	BSP	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
280	Hex Nipple <sup>(c)</sup>	BSP	125, 150	5, 6	2065	300
280	Hex Nipple <sup>(e)</sup>	BSP	3, 6, 10, 12, 20, 25, 32, 40, 50, 65, 80, 100, 125	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4, 5	3445	500
280	Hex Nipple <sup>(e)</sup>	BSP	150	6	3100	450
281	Hex Nipple <sup>(e)</sup>	BSP Right and Left Threads	10, 12, 20, 25, 32, 40, 50	3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2	3445	500
290	Plug, Sq. Hd., Beaded <sup>(e)</sup>	BSP	3, 6, 10, 12, 20, 25, 32, 40, 50, 65, 80, 100	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
291	Plug, Sq. Hd. <sup>(a)</sup>	NPT	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
291	Plug, Sq. Hd. <sup>(c)</sup>	BSP	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
291	Plug, Sq. Hd. <sup>(c)</sup>	BSP	150	6	2065	300
291	Plug, Sq. Hd. <sup>(e)</sup>	BSP	3, 6, 10, 12, 20, 25, 32, 40, 50, 65, 80, 100	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
291	Plug, Sq. Hd. <sup>(e)</sup>	BSP	150	6	3100	450
291-4	Plug, Cross Slotted <sup>(a)</sup>	NPT	100	4	3445	500
291-4	Plug, Cross Slotted <sup>(a)</sup>	NPT	125, 150	5, 6	2065	300
291N	Plug, Sq. Socket <sup>(a)</sup>	NPT	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
291N	Plug, Sq. Socket <sup>(c)</sup>	BSP	12, 20, 25, 32, 40, 50, 65, 80	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	3445	500
291S	Plug, Solid Sq. <sup>(a)</sup>	NPT	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
291S	Plug, Solid Sq. <sup>(c)</sup>	BSP	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
300	End Cap <sup>(a)</sup>	Grooved	32, 40, 50, 65, 80, 100, 125, 150, 200, 250, 300 76.1, 165 mm	1 1/4, 1 1/2, 2, 2 1/2, 3, 4, 5, 6, 8, 10, 12 76.1, 165 mm	3445	500
300	End Cap <sup>(a)</sup>	NPT	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
300	End Cap <sup>(a)</sup>	NPT	125, 150	5, 6	2065	300
300	End Cap <sup>(c)</sup>	BSP	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
300	End Cap <sup>(c)</sup>	BSP	125, 150	5, 6	2065	300
300	End Cap <sup>(e)</sup>	BSP	3, 6, 10, 12, 20, 25, 32, 40, 50, 65, 80, 100	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
301	Round Cap <sup>(e)</sup>	BSP	6, 10, 12, 20, 25, 32, 40, 50, 65, 80, 100	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
310	Locknut <sup>(c)</sup>	BSP	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
312	Backnut <sup>(c)</sup>	BSP	12, 20, 25, 32, 40, 50, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 4	3445	500
321	Flange Adapter <sup>(a)</sup>	Flanged x NPT	12, 20, 25, 32, 40, 50	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	3445	500
321-4	Flange Adapter <sup>(a)</sup>	Flanged x BSP	32, 40, 50, 65, 80, 100	1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
321-4	Flange Adapter <sup>(a)</sup>	Flanged x BSP	150	6	2065	300
321-6	Flange Adapter <sup>(a)</sup>	Flanged x BSP	32, 40, 50, 65, 80, 100	1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
321-6	Flange Adapter <sup>(a)</sup>	Flanged x BSP	150	6	2065	300
321H	Flange Adapter <sup>(a)</sup>	Flanged x BSP	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
321N	Flange Adapter <sup>(a)</sup>	Flanged x BSP	50	2	3445	500
321P	Flange Adapter <sup>(a)</sup>	Flanged x BSP	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
321P	Flange Adapter <sup>(a)</sup>	Flanged x BSP	125, 150	5, 6	2065	300
321PW	Flange Adapter <sup>(a)</sup>	Flanged x BSP	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
321PW	Flange Adapter <sup>(a)</sup>	Flanged x BSP	125, 150	5, 6	2065	300
321TD	Flange Adapter <sup>(a)</sup>	Flanged x BSP	25, 32, 40, 50, 65, 80, 100	1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
321TD	Flange Adapter <sup>(a)</sup>	Flanged x BSP	150	6	2065	300
321W	Flange Adapter <sup>(a)</sup>	Flanged x BSP	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
330	Union Flat Seat without gasket <sup>(e)</sup>	BSP	6, 10, 12, 20, 25, 32, 40, 50, 65, 80, 100	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
330D	Union Flat Seat with gasket, hex <sup>(e)</sup>	BSP	10, 12, 20, 25, 32, 40, 50, 65, 80, 100	3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500

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<b>afp - 3610</b>	7-Jul-2021	Number 1	Issue date 7-Jul-2021	30-Apr-2023
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Model num.	Description <sup>(a)(c)(e)</sup>	End connection	Nominal pipe size		Rated working pressure	
			mm	In.	kPa	psi
331	Union Flat Seat without gasket <sup>(c)</sup>	Male BSP X Female BSP	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
331D	Union Flat Seat with gasket, hex <sup>(e)</sup>	Male BSP X Female BSP	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
340	Union Conical Joint Iron to Iron <sup>(c)</sup>	BSP	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
340	Union Conical Joint Iron to Iron <sup>(e)</sup>	BSP	3, 6, 10, 12, 20, 25, 32, 40, 50, 65, 80, 100	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
340F	Union Nut <sup>(c)</sup>	BSP	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
341	Union Conical Joint Iron to Iron <sup>(c)</sup>	Male BSP X Female BSP	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
341	Union Conical Joint Iron to Iron <sup>(e)</sup>	Male BSP X Female BSP	6, 10, 12, 20, 25, 32, 40, 50, 65, 80, 100	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
342	Union Conical Joint Brass to Iron <sup>(a)</sup>	NPT	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
342	Union Conical Joint Brass to Iron <sup>(c)</sup>	BSP	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
342	Union Conical Joint Brass to Iron <sup>(e)</sup>	BSP	6, 10, 12, 20, 25, 32, 40, 50, 65, 80, 100	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
344	Union Taper Seat <sup>(e)</sup>	Male BSP	6, 10, 12, 20, 25, 32, 40, 50	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2	3445	500
345	Union Flat Seat <sup>(e)</sup>	Male BSP X Female BSP	12, 20, 25, 32, 40, 50, 65, 80	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	3445	500
346	Union Flat Seat <sup>(e)</sup>	BSP	12, 20, 25, 32, 40, 50, 65, 80	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	3445	500
471	Flanged Base Elbow <sup>(e)</sup>	BSP	10, 12, 20, 25	3/8, 1/2, 3/4, 1	3445	500
526	Extension <sup>(c)</sup>	BSP	12	1/2	3445	500
526	Extension <sup>(e)</sup>	BSP	10 x 30, 40, 100 12 x 30, 40 20 x 40	3/8 x 30, 40, 100 1/2 x 30, 40 3/4 x 40	3445	500
529	Extension <sup>(a)</sup>	NPT	12, 20, 25, 32, 40, 50, 65, 80, 100	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
529A	Extension Long <sup>(c)</sup>	BSP	12, 20, 25, 32, 40, 50	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	3445	500
529A	Extension Long <sup>(e)</sup>	BSP	10, 12, 20, 25, 32, 40, 50	3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2	3445	500
529X	Extension Short <sup>(c)</sup>	BSP	12	1/2	3445	500
531	Coupling <sup>(e)</sup>	BSP	10, 12, 20, 25, 32, 40, 50, 65, 80, 100	3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	3445	500
596	Plug, Sq. Socket <sup>(e)</sup>	BSP	20, 25, 32, 40	3/4, 1, 1 1/4, 1 1/2	3445	500
1090	90° Elbow Plain <sup>(c)</sup>	BSP	12, 20, 25, 32, 50	1/2, 3/4, 1, 1 1/4, 2	3445	500
1130	Equal Tee Plain <sup>(c)</sup>	BSP	12, 20, 25, 32, 40, 50	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	3445	500
1220	Socket Plain <sup>(c)</sup>	BSP	12, 20, 25, 32, 40, 50, 65, 80	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	3445	500
1221	Side Outlet Elbow <sup>(a)</sup>	NPT	12, 20, 25, 32, 40, 50	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	3445	500
1221	Side Outlet Elbow <sup>(c)</sup>	BSP	12, 20, 25, 32, 50	1/2, 3/4, 1, 1 1/4, 2	3445	500
1221	Side Outlet Elbow <sup>(e)</sup>	BSP	10, 12, 20, 25, 32, 40, 50	3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2	3445	500
1223	Side Outlet Tee <sup>(c)</sup>	BSP	12, 20, 25	1/2, 3/4, 1	3445	500
1223	Side Outlet Tee <sup>(e)</sup>	BSP	12, 20, 25, 32	1/2, 3/4, 1, 1 1/4	3445	500
2220	Wye <sup>(e)</sup>	BSP	10, 12, 20, 25	3/8, 1/2, 3/4, 1	3445	500
9015	Blk. Drinking Nipple <sup>(e)</sup>	BSP	12	1/2	3445	500
9030	Blk. Drinking Nipple <sup>(e)</sup>	BSP	12, 20, 20 x 12	1/2, 3/4, 3/4 x 1/2	3445	500

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Model num.	Description <sup>(a)(c)(e)</sup>	End connection	Nominal pipe size		Rated working pressure	
			mm	In.	kPa	psi
9045	Blk. Drinking Nipple <sup>(e)</sup>	BSP	12, 20	1/2, 3/4	3445	500
T330	Union Flat Seat <sup>(e)</sup>	BSP	12, 20, 25, 32, 40, 50, 65, 80	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	3445	500

**Notes:**

- a. Malleable iron fittings, ASME B16.3
- c. Malleable iron fittings, BS EN 10242
- e. Malleable iron fittings, DIN EN 10242, threads per ISO 7-1, available in black and galvanised

## 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_JinanMeide1920Fittings	Pipe Fittings, Jinan Miede, Pipe Fittings (fm_w3_JinanMeide1920Fittings_v_2021-04-22.pdf)	22-Apr-2021	Approval Guide, FM Approvals, US
Extract	ul_w3_HHXX.EX6624.Fittings	HHXX-EX6624 – Fittings, Cast Iron, Ductile Iron, Malleable Iron and Bronze (ul_w3_HHXX.EX6624.Fittings_v_2021-04-22.pdf)	22-Apr-2021	Product iQ™, Underwriters Laboratories Inc., US;