



Certificate of Compliance

RIGID AND FLEXIBLE PIPE COUPLINGS, PIPE FITTINGS, MECHANICAL TEES AND SPLIT FLANGES

The following products are FM Approved for Jinan Meide Casting Co. Ltd when manufactured at the plant below:

<i>Product Designation</i>	<i>Nominal Pipe Size, in.</i>	<i>Pipe Ends</i>	<i>Remarks</i>	<i>Max Working Pressure, psi (kPa)</i>
1G	1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4, 5, 6, 8	Cut Groove Rolled Groove	a, b, c, d	300 (2070)
	10, 12 267.4, 318.5, 356, 377, 406, 426 mm	Cut Groove Rolled Groove	a, c	300 (2070)
	76.1, 108, 133, 139.7, 159, 165 mm	Cut Groove Rolled Groove	c, d	300 (2070)
1GS	2, 2 1/2, 3, 4, 5, 6, 8	Cut Groove Rolled Groove	a, b, c, d	300 (2070)
	76.1, 108, 139.7, 159, 165, 216.3 mm	Cut Groove Rolled Groove	c, d	300 (2070)

Remarks:

- a. Minimum schedule cut groove pipe to be joined: 6 in. NPS and smaller - Schedule 40; 8 in. NPS and larger - Schedule 30.
- b. Minimum schedule rolled groove pipe to be joined: 6 in. NPS and smaller - Schedule 10S; 8 in. NPS and larger 0.188 in. (5 mm) wall.
- c. Approved when supplied with EPDM gasket.
- d. Approved for use with GB/T3092 regular and extra heavy pipe, ISO 4200, and BS 1387 medium and heavy pipe.



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<i>Product Designation</i>	<i>Nominal Pipe Size, in.</i>	<i>Pipe Ends</i>	<i>Remarks</i>	<i>Max Working Pressure, psi (kPa)</i>
1N	1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4, 5, 6, 8, 10, 12	Cut Groove Rolled Groove	a, b, c, d	300 (2070)
1N	76.1, 108, 133, 139.7, 159, 165 mm	Cut Groove Rolled Groove	c, d	300 (2070)
1NH	2, 2 1/2, 3, 4, 5, 6, 8	Cut Groove Rolled Groove	a, b, c, d	500 (3450)
1NH	76.1, 165.1 mm	Cut Groove Rolled Groove	c, d	500 (3450)

Remarks:

- a. Minimum schedule cut groove pipe to be joined: 6 in. NPS and smaller - Schedule 40; 8 in. NPS and larger - Schedule 30.
- b. Minimum schedule rolled groove pipe to be joined: 6 in. NPS and smaller - Schedule 10S; 8 in. NPS and larger 0.188 in. (5 mm) wall.
- c. Approved when supplied with EPDM gasket.
- d. Approved for use with GB/T3092 regular and extra heavy pipe, ISO 4200, and BS 1387 medium and heavy pipe.



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<i>Product Designation</i>	<i>Nominal Pipe Size, in.</i>	<i>Pipe Ends</i>	<i>Remarks</i>	<i>Max Working Pressure, psi (kPa)</i>
1N	2 x 1 1/2 2 1/2 x 1, 2 3 x 1, 2, 2 1/2 4 x 1, 2 4 x 2 1/2, 3 6 x 3, 4 8 x 6	Cut Groove Rolled Groove	a, b, c, d	300 (2070)
1N	76.1 x 33.7, 1 1/2, 2 3 x 76.1 4 x 76.1 165 x 4 8 x 165	Cut Groove Rolled Groove	a, b, c, d	300 (2070)

Remarks:

- a. Minimum schedule cut groove pipe to be joined: 6 in. NPS and smaller – Schedule 40; 8 in. NPS and larger – Schedule 30.
- b. Minimum schedule rolled groove pipe to be joined: 6 in. NPS and smaller – Schedule 10S; 8 in. NPS and larger 0.188 in. (5 mm) wall.
- c. Approved when supplied with EPDM gasket.
- d. Approved for use with GB/T3092 regular and extra heavy pipe, ISO 4200, and BS 1387 medium and heavy pipe.



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Product Designation	Fitting Description	Nominal Pipe Size, in.	Remarks	Max Rated Pressure, psi (kPa)
3G	Mechanical Tee, Grooved Outlet	2 x 1-1/4, 1-1/2 2-1/2 x 1-1/4, 1-1/2 76 x 1, 1-1/4, 1-1/2 3 x 1, 1-1/4, 1-1/2, 2 4 x 1, 1-1/4, 1-1/2, 2, 2-1/2, 3 133 x 3 139.7 x 1-1/4, 1-1/2, 2, 2-1/2, 3, 4 159 x 108, 4 5 x 1-1/4, 1-1/2, 2, 2-1/2, 3 165 x 2, 2-1/2, 3, 4 6 x 1-1/4, 1-1/2, 2, 2-1/2, 3, 4 8 x 2, 2, 2-1/2, 76, 3, 108, 4 10 x 108, 4	a, c	300 (2070)
3L	Mechanical Tee, Grooved Outlet	1-1/4 x 1/2, 3/4, 1 1-1/2 x 1/2, 3/4, 1 2 x 1/2, 3/4, 1 2-1/2 x 1/2, 3/4, 1 76 x 1/2, 3/4, 1 3 x 1 4 x 1, 1-1/4, 1-1/2 6 x 1, 1-1/4, 1-1/2	a, c	300 (2070)
3J	Mechanical Tee, Grooved Outlet	2 x 1/2, 3/4 2-1/2 x 1/2, 3/4 3 x 1/2, 3/4 76 x 1/2, 3/4 4 x 1/2, 3/4 108 x 1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 76 133 x 1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 76, 3 139 x 1/2, 3/4, 4 159 x 1/2, 3/4, 1, 1-1/4, 1-1/2, 2 219 x 1, 1-1/4, 1-1/2, 2, 2-1/2, 76, 3, 4 10 x 1-1/2, 2, 76, 3, 4	a, c	300 (2070)



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<i>Product Designation</i>	<i>Fitting Description</i>	<i>Nominal Pipe Size, in.</i>	<i>Remarks</i>	<i>Max Rated Pressure, psi (kPa)</i>
3J	Mechanical Tee, Threaded Outlet	2 x 1, 1-1/4, 1-1/2 2-1/2 x 1, 1-1/4, 1-1/2 76 x 1, 1-1/4, 1-1/2 3 x 1, 1-1/4, 1-1/2, 2 4 x 1, 1-1/4, 1-1/2, 2, 2-1/2, 3 139.7 x 1, 1-1/4, 1-1/2, 2 5 x 1-1/4, 1-1/2, 2, 2-1/2, 3 165 x 1, 1-1/4, 1-1/2, 2, 2-1/2, 3 6 x 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	a, b, c	300 (2070)
4G	Mechanical Cross, Grooved Outlet	2 x 1-1/4, 1-1/2 2-1/2 x 1-1/4, 1-1/2 76 x 1-1/4, 1-1/2 3 x 1-1/4, 1-1/2, 2 4 x 1-1/4, 1-1/2, 2, 2-1/2, 3 139.7 x 2, 2-1/2, 3 5 x 1-1/4, 1-1/2, 2, 2-1/2, 3 165 x 2, 2-1/2, 3 6 x 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	a, c	300 (2070)
4J	Mechanical Cross, Threaded Outlet	2 x 1, 1-1/4, 1-1/2 2-1/2 x 1, 1-1/4, 1-1/2 76 x 1, 1-1/4, 1-1/2 3 x 1, 1-1/4, 1-1/2, 2 4 x 1, 1-1/4, 1-1/2, 2, 2-1/2, 3 139.7 x 1, 1-1/4, 1-1/2, 2, 2-1/2, 3 5 x 1-1/4, 1-1/2, 2, 2-1/2, 3 165 x 1, 1-1/4, 1-1/2, 2, 2-1/2, 3 6 x 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	a, b, c	300 (2070)
4JG	Mechanical Cross, Grooved x Threaded Outlet	2 x 1, 1-1/4, 1-1/2 2-1/2 x 1, 1-1/4, 1-1/2 76 x 1, 1-1/4, 1-1/2 3 x 1-1/4, 1-1/2, 2 4 x 1-1/4, 1-1/2, 2, 2-1/2, 3	a, b, c	300 (2070)



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<i>Product Designation</i>	<i>Fitting Description</i>	<i>Nominal Pipe Size, in.</i>	<i>Remarks</i>	<i>Max Rated Pressure, psi (kPa)</i>
4JG	Mechanical Cross, Grooved x Threaded Outlet	139.7 x 2, 2-1/2, 3 5 x 1-1/4, 1-1/2, 2, 2-1/2, 3 165 x 2, 2-1/2, 3 6 x 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	a, b, c	300 (2070)

Remarks:

- a. For use on Schedule 10 and heavier steel sprinkler pipe.
- b. Approved when supplied with NPT female threads.
- c. Approved when supplied with EPDM gasket.

<i>Product Designation</i>	<i>Fitting Description</i>	<i>Nominal Pipe Size, in.</i>	<i>Remarks</i>	<i>Max Rated Pressure, psi (kPa)</i>
321	Split Flange	1 1/2, 2, 2 1/2, 3, 4, 5, 6, 8, 10, 12 76.1, 108, 133, 139, 159, 165 mm	a, b, c, d, e	300 (2070)
321G	Adapter Flange	1 1/2, 1 1/4, 1 1/2, 4, 8, 10 108, 133, 139, 159, 165 mm		300 (2070)

Remarks:

- a. Minimum schedule cut groove pipe to be joined: 6 in. NPS and smaller - Schedule 40; 8 in. NPS and larger - Schedule 30.
- b. Minimum schedule rolled groove pipe to be joined: 6 in. NPS and smaller - Schedule 10S; 8 in. NPS and larger 0.188 in. (5 mm) wall.
- c. Approved when supplied with EPDM gasket.
- d. Approved when supplied with an ISO PN10 bolt pattern.
- e. Approved when used with GB/T3092 regular and extra heavy pipe, ISO 4200, and BS 1387 Medium and Heavy pipe.



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<i>Product Designation</i>	<i>Fitting Description</i>	<i>Nominal Pipe Size, in.</i>	<i>Max Working Pressure, psi (kPa)</i>	<i>Remarks</i>
90	90° Elbow Grooved	1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8, 10, 12	500 (3450)	a
	90° Elbow Grooved	76, 139.7, 165 mm	500 (3445)	a
90S	90° Short Radius Elbow Grooved	2, 2-1/2, 3, 4, 6, 8 76, 139.7, 165 mm	300 (2070)	a
120	45° Elbow Grooved	1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8, 10, 12 76.1, 165 mm	500 (3450)	a
130	Equal Tee Grooved	1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8, 10, 12 76.1, 165 mm	500 (3450)	a
130S	Short Radius Tees Grooved Ends	2, 2-1/2, 3, 4, 6, 8 76, 139.7, 165 mm	300 (2070)	a
130R	Reducing Tee Grooved	2×1-1/2 3×1, 1-1/2, 2, 2-1/2 4×1, 2, 2-1/2, 3 5×2, 3, 4 6×2, 2-1/2, 3, 4, 5 8×2, 3, 4, 5, 6	500 (3450)	a
180	Equal Cross Grooved	1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8, 10, 12 76.1, 165 mm	500 (3450)	a
240	Concentric Reducer Grooved	2×3/4, 1, 1-1/4, 1-1/2 2-1/2×1, 1-1/4, 1-1/2, 2 3×3/4, 1, 1-1/2, 2, 2-1/2 4×1, 1-1/2, 2, 2-1/2, 3 5×3, 4 6×1, 2, 2-1/2, 3, 4, 5 8×2-1/2, 3, 4, 5, 6	500 (3450)	a



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<i>Product Designation</i>	<i>Fitting Description</i>	<i>Nominal Pipe Size, in.</i>	<i>Max Working Pressure, psi (kPa)</i>	<i>Remarks</i>
240N	Concentric Reducer Grooved × Female NPT	2×3/4, 1, 1-1/4, 1-1/2 2-1/2×1, 1-1/4, 1-1/2, 2 3×3/4, 1, 1-1/2, 2, 2-1/2 4×1, 1-1/2, 2, 2-1/2, 3 5×3, 4 6×2, 2-1/2, 3, 4, 5 8×2-1/2, 3, 4, 5, 6	500 (3450)	a
240W	Concentric Reducer Grooved × Male NPT	2×3/4, 1, 1-1/4, 1-1/2 2-1/2×1, 1-1/4, 1-1/2, 2 3×3/4, 1, 1-1/2, 2, 2-1/2 4×1, 1-1/2, 2, 2-1/2, 3 5×3, 4 6×2, 2-1/2, 3, 4, 5 8×2-1/2, 3, 4, 5, 6	500 (3450)	a
300	End Cap Grooved	1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8, 10, 12 76.1, 165 mm	500 (3450)	a
321G	Adapter Flanged × Grooved	2, 2-1/2, 3, 4, 5, 6, 8 76.1, 165 mm	500 (3450)	a
	Adapter Flanged × Grooved	10, 12, 139.7 mm	300 (2070)	a
35C	Cap Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2	500 (3450)	b
35CP	Straight Coupling Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2	500 (3450)	b
35E	90° Elbow Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3450)	b
35F	45° Elbow Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2	500 (3450)	b



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35HB	Bushings Threaded	1×1/2, 3/4 1-1/4×3/4, 1 1-1/2×1, 1-1/4 2×1, 1-1/4, 1-1/2	500 (3450)	b
35RC	Concentric Reducer Threaded	1×1/2, 3/4 1-1/4×3/4, 1 1-1/2×1, 1-1/4 2×1, 1-1/4, 1-1/2	500 (3450)	b
35RE	90° Reducing Elbow Threaded	3/4×1/2 1×1/2, 3/4 1-1/4×1/2, 3/4, 1 1-1/2×1/2, 3/4, 1, 1-1/4 2×1/2, 3/4, 1, 1-1/4, 1-1/2 2-1/2×1-1/2, 2 3×3/4	500 (3450)	b
35RT	Reducing Tee Threaded	3/4×3/4×1/2, 1 3/4×1/2×3/4, 1/2 1×1×1/2, 3/4, 1-1/4, 1-1/2 1×3/4×3/4, 1 1×1/2×1 1-1/4×1-1/4×1/2, 3/4, 1, 1-1/2, 2 1-1/4×1×1/2, 3/4, 1, 1-1/4, 1-1/2 1-1/4×3/4×1-1/4 1-1/4×1/2×1-1/4 1-1/2×1-1/2×1/2, 3/4, 1, 1, 1-1/4, 2 1-1/2×1-1/4×1/2, 3/4, 1, 1-1/4, 1-1/2, 2 1-1/2×1×1/2, 3/4, 1, 1-1/4, 1-1/2 1-1/2×3/4×1-1/4, 1-1/2 1-1/2×1/2×1-1/4, 1-1/2 2×2×1/2, 3/4, 1, 1-1/4, 1-1/2, 2-1/2 2×1-1/2×1/2, 3/4, 1, 1-1/4, 1-1/2, 2 2×1-1/4×2 2×1×2	500 (3450)	b



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<i>Product Designation</i>	<i>Fitting Description</i>	<i>Nominal Pipe Size, in.</i>	<i>Max Working Pressure, psi (kPa)</i>	<i>Remarks</i>
35RT	Reducing Tee Threaded	2-1/2×2-1/2×3/4, 1, 1-1/4, 1-1/2, 2, 3	500 (3450)	b
35RX	Reducing Cross Threaded	1-1/4×1 1-1/2×1 2×1	500 (3450)	b
35SP	Square Head Pipe Plug Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	500 (3450)	b
35T	Equal Tee Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3450)	b
35U	Union Threaded	1, 1-1/4, 1-1/2, 2	500 (3450)	b
35X	Cross Threaded	1, 1-1/4, 1-1/2, 2	500 (3450)	b
37E	90° Elbow Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	300 (2070)	c
37F	45° Elbow Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	300 (2070)	c
37RC	Concentric Reducer Threaded	1×1/2, 3/4 1-1/4×1 2×3/4, 1	300 (2070)	c
37RE	90° Reducing Elbow Threaded	3/4×1/2 1×1/2, 3/4 1-1/4×1/2, 3/4, 1 1-1/2×1/2, 3/4, 1, 1-1/4 2×1/2, 3/4, 1, 1-1/4, 1-1/2 2-1/2×3/4, 1, 1-1/4, 1-1/2, 2 3×2	300 (2070)	c
37RT	Reducing Tee Threaded	3/4×3/4×1 1×1/2×1/2, 3/4, 1 1×3/4×1/2, 3/4, 1	300 (2070)	C



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37RT	Reducing Tee Threaded	1×1×1/2, 3/4, 1-1/4, 1-1/2 1×1-1/4×1 1-1/4×1-1/4×1/2, 3/4, 1, 1-1/2, 2 1-1/4×1×1/2, 3/4, 1, 1-1/4, 1-1/2, 1-1/4×3/4×1-1/4 1-1/4×1/2×1-1/4 1-1/2×1-1/2×1/2, 3/4, 1, 1, 1-1/4, 2 1-1/2×1-1/4×1/2, 3/4, 1, 1-1/4, 1-1/2, 2 1-1/2×1×1/2, 3/4, 1, 1-1/4, 1-1/2, 2 1-1/2×3/4×1-1/4, 1-1/2 1-1/2×1/2×1-1/4, 1-1/2 2×2×1/2, 3/4, 1, 1-1/4, 1-1/2, 2-1/2 2×1-1/2×1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2 2×1-1/4×1/2, 1, 1-1/4, 1-1/2, 2 2×1×3/4, 1, 1-1/4, 1-1/2, 2 2×1/2×2 2×2×2-1/2 2-1/2×2-1/2×1/2, 3/4, 1, 1-1/4, 1-1/2, 2 2×1-1/4×2-1/2 2×1×2-1/2 2×3/4×2-1/2 2-1/2×1/2×2, 2-1/2 3×3×1-1/4, 1-1/2, 2	300 (2070)	c
37T	Equal Tee Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	300 (2070)	c

- Remarks:
 a. Malleable Iron Fittings
 b. Ductile Iron Fittings
 c. Cast Iron Fittings



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<i>Product Designation</i>	<i>Fitting Description</i>	<i>Nominal Pipe Size, in.</i>	<i>Max Working Pressure, psi (kPa)</i>	<i>Remarks</i>
90	90° Elbows Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
	90° Elbows Threaded	5, 6	300 (2070)	a
90R	90° Reducing Elbow Threaded	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 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	500 (3445)	a
92	90° Street Elbow Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
	90° Street Elbow Threaded	6	300 (2070)	a
120	45° Elbow Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
	45° Elbow Threaded	5, 6	300 (2070)	a
121	45° Street Elbow Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
1221	Side Outlet Elbow Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	500 (3445)	a
130	Tee Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
	Tee Threaded	5, 6	300 (2070)	a



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Product Designation	Fitting Description	Nominal Pipe Size, in.	Max Working Pressure, psi (kPa)	Remarks
130R	Reducing Tee Threaded	1/2×1/2×1/4, 3/8 1/2×1/4×1/2 1/2×3/8×1/2 3/4×3/4×1/4, 3/8, 1/2 3/4×1/2×1/2, 3/4 1×1×1/4, 3/8, 1/2, 3/4 1×1/2×1/2, 3/4, 1 1×3/4×1/2, 3/4, 1 1-1/4×1/2×1/2, 3/4, 1, 1-1/4 1-1/4×3/4×3/4, 1, 1-1/4 1-1/4×1×1/2, 3/4, 1, 1-1/4, 1-1/2 1-1/4×1-1/4×3/8, 1/2, 3/4, 1 1-1/2×1/2×3/4, 1-1/2 1-1/2×3/4×1/2, 3/4, 1, 1-1/4, 1-1/2 1-1/2×1×1/2, 3/4, 1, 1-1/4, 1-1/2 1-1/2×1-1/4×1/2, 3/4, 1, 1-1/4, 1-1/2, 2 1-1/2×1-1/2×1/2, 3/4, 1, 1-1/4 2×1/2×2 2×3/4×2 2×1×1, 1-1/2, 2 2×1-1/4×1, 1-1/4, 1-1/2, 2 2×1-1/2×1/2, 3/4, 1, 1-1/4, 1-1/2, 2 2×2×1/2, 3/4, 1, 1-1/4, 1-1/2 2-1/2×1-1/2×2, 2-1/2 2-1/2×2×2, 2-1/2 2-1/2×2-1/2×1/2, 3/4, 1, 1-1/4, 1-1/2, 2 3×2×2, 3 3×3×1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2 4×4×1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3	500 (3445)	a
130R	Bullhead Tee Threaded	3/8×3/8×1/2 1/2×1/2×3/4, 1 3/4×3/4×1 1×1×1-1/4, 1-1/2, 2 1-1/4×1-1/4×1-1/2, 2	500 (3445)	a



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Product Designation	Fitting Description	Nominal Pipe Size, in.	Max Working Pressure, psi (kPa)	Remarks
		1-1/2×1-1/2×2 2×2×2-1/2		
134	Service Tee Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	500 (3445)	a
165	Lateral Y Branch Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
180	Cross Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
	Cross Threaded	5, 6	300 (2070)	a
180R	Reducing Cross Threaded	3/4×1/2 1×3/4 1-1/4×3/4, 1 1-1/2×3/4, 1/1-1/4 2×3/4, 1/1-1/4, 1-1/2 2-1/2×1, 1-1/4, 1-1/2, 2 3×1, 1-1/4, 1-1/2, 2, 2-1/2 4×2-1/2, 3	500 (3445)	a
220	Coupling Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
240	Reducing Coupling Threaded	1/2×3/8 3/4×3/8, 1/2 1×3/8, 1/2, 3/4 1-1/4×1/2, 3/4, 1 1-1/2×1/2, 3/4, 1, 1-1/4 2×1/2, 3/4, 1, 1-1/4, 1-1/2 2-1/2×1-1/2, 2 3×1-1/2, 2, 2-1/2 4×2, 3	500 (3445)	a
241	Bushing Threaded	1/2×1/4, 3/8 3/4×3/8, 1/2 1×1/2, 3/4	500 (3445)	a



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<i>Product Designation</i>	<i>Fitting Description</i>	<i>Nominal Pipe Size, in.</i>	<i>Max Working Pressure, psi (kPa)</i>	<i>Remarks</i>
241	Bushing Threaded	1-1/4×1/2, 3/4, 1 1-1/2×3/8, 1/2, 3/4, 1, 1-1/4 2×3/8, 1/2, 3/4, 1, 1-1/4, 1-1/2 2-1/2×1/2, 3/4, 1, 1-1/4, 1-1/2, 2 3×1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2 3-1/2×2-1/2, 3 4×3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 3-1/2	500 (3445)	a
		5×2, 3, 4 6×2, 2-1/2, 3, 3-1/2, 4, 5	300 (2070)	a
280	Hex Nipple Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2	500 (3445)	a
291	Plug, Sq. Hd. Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
291-4	Plug, Cross slotted Threaded	4	500 (3445)	a
	Plug, Cross slotted Threaded	5, 6	300 (2070)	a
291N	Plug, Sq. Socket Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
291S	Plug, Solid Sq. Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
300	Cap Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
	Cap Threaded	5, 6	300 (2070)	a
321	Flange	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	500 (3445)	a
342	Unions Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a



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<i>Product Designation</i>	<i>Fitting Description</i>	<i>Nominal Pipe Size, in.</i>	<i>Max Working Pressure, psi (kPa)</i>	<i>Remarks</i>
529	Extension Piece Threaded	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a

Remarks:

a. Malleable Iron Fittings

<i>Product Designation</i>	<i>Fitting Description</i>	<i>Nominal Pipe Size, in.</i>	<i>Max Working Pressure, psi (kPa)</i>	<i>Remarks</i>
90	Std. 90° Elbow Grooved	1 133 mm	500 (3445)	b
	Std. 90° Elbow Grooved	267.4, 318.5 mm	300 (2070)	b
90S	90° Short Radius Elbow Grooved	108, 159, 216.3 mm	300 (2070)	b
90R	90° Reducing Elbow Grooved	6 x 4 88.9 x 76.1 mm 114.3 x 76.1 mm 165.1 x 114.3 mm	500 (3445)	b
120	45° Elbow Grooved	1 108, 139.7, 159 mm	500 (3445)	b
	45° Elbow Grooved	216.3, 267.4, 318.5 mm	300 (2070)	b
110	22.5° Elbow Grooved	1-1/4, 1-1/2, 2, 3, 4, 6 76.1, 108, 139.7, 159, 165.1 mm	500 (3445)	b
	22.5° Elbow Grooved	8	300 (2070)	b
105	11.25° Elbow Grooved	1-1/4, 1-1/2, 2, 3, 4, 6 76.1, 108, 139.7, 159, 165.1 mm	500 (3445)	b
	11.25° Elbow Grooved	8	300 (2070)	b



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<i>Product Designation</i>	<i>Fitting Description</i>	<i>Nominal Pipe Size, in.</i>	<i>Max Working Pressure, psi (kPa)</i>	<i>Remarks</i>
130	Equal Tee Grooved	1 133, 139.7 mm	500 (3445)	b
		267.4 mm	300 (2070)	b
130S	Short Radius Tees Grooved Ends	108, 159, 216.3 mm	300(2070)	b
130R	Reducing Te Grooved	2 x 1 2-1/2 x 1-1/2, 2 3 x 1-1/4 4 x 1-1/2 76.1 x 42.4, 48.3, 60.3 mm 88.9 x 76.1 mm 108 x 60.3, 73, 88.9 mm 114.3 x 76.1, 88.9 mm 133 x 60.3, 76.1, 108, 114.3 mm 139.7 x 48.3, 60.3, 76.1, 88.9, 114.3 mm 159 x 60.3, 76.1, 88.9, 108, 114.3, 133 mm	500 (3445)	b
	Reducing Te Grooved	10 x 6, 8 12 x 8, 10 165.1 x 60.3, 76.1, 88.9, 114.3, 133, 139.7, 159 mm 168.3 x 76.1, 139.7 mm 216.3 x 165.1 mm 219.1 x 76.1, 108, 133, 139.7, 159, 165.1 mm 273 x 165.1 mm 323.9 x 165.1 mm	300 (2070)	b
131	Equal Te Grooved	3, 4, 6	300 (2070)	b
131R	Reducing Tee Grooved	2 x 1, 1-1/2 2-1/2 x 1, 1-1/4, 3 x 1, 1-1/4, 1-1/2, 2 4 x 1, 1-1/4, 1-1/2, 2, 3	300 (2070)	b



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<i>Product Designation</i>	<i>Fitting Description</i>	<i>Nominal Pipe Size, in.</i>	<i>Max Working Pressure, psi (kPa)</i>	<i>Remarks</i>
131R	Reducing Tee Grooved	6 x 2, 3 8 x 2, 3, 4 76.1 x 33.7, 42.4, 48.3, 60.3 mm 88.9 x 76.1 mm 108 x 60.3, 76.1, 88.9 mm 114.3 x 76.1 mm 133 x 60.3, 76.1, 88.9 mm 139.7 x 33.7, 42.4, 48.3, 60.3, 76.1, 88.9 mm 159 x 60.3, 76.1, 88.9 mm 165.1 x 33.7, 42.4, 48.3, 60.3, 76.1, 88.9, 114.3 mm 168.3 x 76.1 mm 219.1 x 76.1 mm	300 (2070)	b
180	Equal Cross Grooved	108, 139.7, 159 mm	500 (3450)	b
180R	Reducing Cross Grooved	3 x 2 4 x 2, 3 8 x 2, 4 139.7 x 114.3 mm 159 x 108 mm 165.1 x 60.3, 76.1, 88.9, 114.3 mm	500 (3450)	b
	Reducing Cross Grooved	219.1 x 139.7, 159, 165.1 mm	300 (2070)	b
181R	Reducing Cross Grooved	4 x 1, 1-1/4, 1-1/2, 2 165.1 x 60.3 mm	300 (2070)	b
240	Concentric Reducer Grooved	1-1/4 x 1 1-1/2 x 1, 1-1/4 4 x 1-1/4 5 x 2-1/2 76 x 42, 48, 60 mm 89 x 76 mm 108 x 60.3, 73, 76 mm 114.3 x 76.1 mm	500 (3450)	b



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<i>Product Designation</i>	<i>Fitting Description</i>	<i>Nominal Pipe Size, in.</i>	<i>Max Working Pressure, psi (kPa)</i>	<i>Remarks</i>
240	Concentric Reducer Grooved	133 x 108, 114.3 mm 139.7 x 60.3, 76.1, 88.9, 114.3 mm 159 x 60.3, 76.1, 88.9, 108, 114.3, 133 mm 165.1 x 60.3, 76.1, 88.9, 114.3, 139.7 mm 168.3 x 76.1, 139.7 mm	500 (3450)	b
		216.3 x 114.3, 165.1 mm 219.1 x 108, 139.7, 159, 165.1 mm 273 x 159, 165.1, 168.3, 219.1 mm 322.9 x 219.1, 273 mm	300 (2070)	b
240N	Concentric Reducer Grooved x Female NPT	4 x 1/2, 3/4, 1-1/4 8 x 1-1/2, 2 76 x 21, 27, 34, 42, 48, 60 mm 89 x 76 mm 108 x 34, 42, 48, 60, 76, 89 mm 114 x 76 mm 133 x 48, 76 mm 140 x 27, 34, 42, 48, 60, 76, 89, 114 mm 159 x 27, 34, 42, 48, 60, 89, 114 mm 165 x 21, 27, 34, 42, 48, 60, 76, 89, 114 mm 219 x 76 mm	500 (3450)	b
240W	Concentric Reducer Grooved x Male NPT	76 x 60 mm	500 (3450)	b
230	Reducing Coupling, Eccentric Grooved	4 x 2, 3 6 x 3, 4 8 x 4 88.9 x 60.3 mm 108 x 76.1, 88.9 mm 114.3 x 76.1 mm 139.7 x 114.3 mm 159 x 108, 114.3 mm 165.1 x 88.9, 114.3, 139.7 mm	300 (2070)	b



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<i>Product Designation</i>	<i>Fitting Description</i>	<i>Nominal Pipe Size, in.</i>	<i>Max Working Pressure, psi (kPa)</i>	<i>Remarks</i>
230	Reducing Coupling, Eccentric Grooved	168.3 x 139.7 mm	300 (2070)	b
230N	Reducing Coupling, Eccentric Grooved x Female NPT	108 x 76.1 mm 114.3 x 76.1 mm 139.7 x 88.9 mm 165.1 x 88.9 mm	300 (2070)	b
300	Cap Grooved	1 3 x 1/2, 1, 1-1/2 4 x 1/2, 1, 1-1/2 6 x 1-1/2 76.1 x 48.3 mm 108, 133, 139.7, 159, 216.3 mm 165.1 x 21.3, 33.7 mm	500 (3450)	b

Remarks:

b. Ductile Iron Fittings



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Certificate of Compliance

Manufactured by:

Jinan Meide Casting Co. Ltd.
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Pingyin, Jinan, Shangdong Province 250400
China

FM Approvals Class: 1920, dated November 2007

Approval Identification: 3034638

Approval Granted: December 18, 2009

Said Approval is subject to satisfactory field performance, continuing follow-up Facilities and Procedures Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

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A handwritten signature in cursive script, appearing to read 'Richard B. Dunne', written over a horizontal line.

Richard B. Dunne, Manager
Hydraulics Group
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062

December 28, 2009
Date



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