

## Pipe Fittings

These fittings are suitable for interconnecting piping, valves and other components in both wet and dry automatic sprinkler systems. Installation should be according to applicable sprinkler system fabrication rules. These rules limit the minimum size of sprinkler piping to 1 in., nominal. FM Approved pipe fittings of smaller sizes are intended for use as valve trim, gauge connections, and for other peripheral service. The water flow path of the sprinkler system cannot be designed using smaller sizes than 1 in., nominal. Unless otherwise noted in the listing, these fittings have 175 psi (1205 kPa) rated working pressure.

Threaded connections on fittings can be made to FM Approved threadable thinwall pipe or to Schedule 40 pipe. Refer to the "Steel Pipe" listings for a summary of the various types of FM Approved steel pipe suitable for threading or grooving."

The fittings manufacturer's installation instructions must be observed in all cases. When connections are made to FM Approved pipe, the pipe manufacturer's installation instructions must also be followed.

Unless otherwise stated below, the maximum ambient temperature to which these fittings should be subjected is 225°F (107°C).

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### Product Specification

Model No	Description	End Connection	Nominal Pipe Size, in	Rated Working Pressure		Remarks
				psi	(kPa)	
1#	90° Bend	Male BSP X Female BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	c
1#	90° Bend	Male BSP X Female BSP	6	300	(2065)	c
1#	90° Bend	Male BSP X Female BSP	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	e
1#	90° Bend	Male BSP X Female BSP	6	450	(3100)	e
1A	90° Bend Short	Male BSP X Female BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 4	500	(3445)	c
1A	90° Bend Short	Male BSP X Female BSP	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	e
2#	90° Bend	Female BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	c
2#	90° Bend	Female BSP	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	e
2A	90° Bend Short	Female BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	500	(3445)	c
2A	90° Bend Short	Female BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	e
2AF	90° Bend Short	Female BSP	1/4, 1/2, 3/4, 1, 1 1/4, 1 1/2	500	(3445)	e
3#	90° Bend	Male BSP	1/2, 3/4, 1, 1 1/3, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	c

3#	90° Bend	Male BSP	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	e
40	45° Bend	Male BSP X Female BSP	1/2, 3/4, 1, 1 1/3, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	c
40	45° Bend	Male BSP X Female BSP	6	300	(2065)	c
40	45° Bend	Male BSP X Female BSP	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	e
40	45° Bend	Male BSP X Female BSP	6	450	(3100)	e
41	45° Bend	Female BSP	1/2, 3/4, 1, 1 1/3, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	c
41	45° Bend	Female BSP	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	e
85	Crossover	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	500	(3445)	c
85	Crossover	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	500	(3445)	e
90	90° Elbow	Grooved	1 1/4, 1 1/2, 2, 2 1/2, 3, 4, 5, 6, 8, 10, 12	500	(3445)	b
90	90° Elbow	Grooved	76, 139.7, 165 mm	500	(3445)	b
90	90° Elbow	Grooved	1 76, 133 mm	500	(3445)	b
90	90° Elbow	Grooved	267.4, 318.5 mm	300	(2065)	b
90	90° Elbow	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	a
90	90° Elbow	NPT	5, 6	300	(2065)	a
90	90° Elbow	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	c
90	90° Elbow	BSP	5, 6	300	(2065)	c
90	90° Elbow	BSP	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4, 5	500	(3445)	e
90	90° Elbow	BSP	6	450	(3100)	e
90	90° Elbow	BSP	15, 20, 25, 32, 40, 50, 65, 80 mm	500	(3445)	h
90SD	90° Elbow	NPT	65mm	500	(3445)	h
90X	90° Elbow	Grooved	3, 4, 6, 10, 12 108, 133, 140, 159, 165 mm	300	(2065)	b
90C	90° Reducing Elbow	Grooved	114.3 x 88.9 x 33.7 mm 165.1 x 88.9 x 33.7 mm	300	(2065)	b
90R	90° Reducing Elbow	NPT	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.	500	(3445)	a

			2 1/2, 3			
90R	90° Reducing Elbow	BSP	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	500	(3445)	c
90R	90° Reducing Elbow	BSP	6 x 4	300	(2065)	c
90R	90° Reducing Elbow	BSP	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	500	(3445)	e
90R	90° Reducing Elbow	BSP	25 x 15, 20 mm 32 x 15, 20, 25 mm 40 x 15, 25, 32 mm 50 x 25 mm	500	(3445)	h
90R	90° Reducing Elbow	Grooved	6 x 4 88.9 x 76.1 mm 114.3 x 76.1, 88.9 mm 165.1 x 114.3 mm	500	(3445)	b
90S	90° Short Radius Elbow	Grooved	2, 2 1/2, 3, 4, 5, 6, 8 76, 139.1, 165mm	300	(2065)	b
90S	90° Short Radius Elbow	Grooved	108, 159, 216.3 mm	300	(2065)	b
90S	90° Short Radius Elbow	Grooved	114, 165 mm	365	(2515)	b
90U	Return Bend	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	500	(3445)	e
91R	90° Reducing Elbow	Grooved x NPT	42.4 x 21.3, 26.7, 33.7 mm 48.3 x 21.3, 26.7, 33.7 mm 60.3 x 21.3, 26.7, 33.7 mm 73 x 21.3, 26.7, 33.7 mm 88.9 x 26.7, 33.7 mm	500	(3445)	b
91R	90° Reducing Elbow	Grooved x BSP	42.4 x 21.3, 26.7, 33.7 mm 48.3 x 21.3, 26.7, 33.7 mm 60.3 x 21.3, 26.7, 33.7 mm 73 x 21.3, 26.7, 33.7 mm 88.9 x 26.7, 33.7 mm	500	(3445)	b
92	90° Street Elbow	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2 2 1/2, 3, 4	500	(3445)	a
92	90° Street Elbow	NPT	6	300	(2065)	a
92	90° Street Elbow	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2 2 1/2, 3, 4	500	(3445)	c
92	90° Street Elbow	BSP	6	300	(2065)	c
92	90° Street Elbow	BSP	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	e
92	90° Street Elbow	BSP	15, 20, 25, 32, 40, 50 mm	500	(3445)	h

92R	90° Reducing Street Elbow	BSP	3/4 x 1/2 1 x 3/4	500	(3445)	c
92R	90° Reducing Street Elbow	BSP	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	500	(3445)	e
94	90° Elbow	Male BSP	3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2	500	(3445)	e
95	Union Elbow, Flat Seat without gasket	Female BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	500	(3445)	c
95	Union Elbow, Flat Seat without gasket	Female BSP	3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	500	(3445)	e
95D	Union Elbow, Flat Seat with gasket	Female BSP	3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	500	(3445)	e
96	Union Elbow, Conical Joint Iron to Iron	Female BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	500	(3445)	c
96	Union Elbow, Conical Joint Iron to Iron	Female BSP	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	500	(3445)	e
97	Union Elbow, Flat Seat without gasket	Male BSP X Female BSP	1 1/2	500	(3445)	c
97	Union Elbow, Flat Seat without gasket	Male BSP X Female BSP	3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	500	(3445)	e
98	Union Elbow, Conical Joint Iron to Iron	Male BSP X Female BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	500	(3445)	c
98	Union Elbow, Conical Joint Iron to Iron	Male BSP X Female BSP	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	500	(3445)	e
105	11.25° Elbow	Grooved	1 1/4, 1 1/2, 2, 2 1/2, 3, 4, 6 76.1, 108, 139.7, 159, 165.1 mm	500	(3445)	b
105	11.25° Elbow	Grooved	8	300	(2065)	b
110	22.5° Elbow	Grooved	1 1/4, 1 1/2, 2, 3, 4, 6 73, 76.1, 108, 139.7, 159, 165.1 mm	500	(3445)	b
110	22.5° Elbow	Grooved	8	300	(2065)	b
110X	22.5° Elbow	Grooved	4 159, 165 mm	300	(2065)	b
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	(3445)	b
120	45° Elbow	Grooved	1 108, 133, 139.7, 159 mm	500	(3445)	b
120	45° Elbow	Grooved	216.3, 267.4, 318.5 mm	300	(2065)	b
120	45° Elbow	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2 2 1/2, 3, 4	500	(3445)	a
120	45° Elbow	NPT	5, 6	300	(2065)	a
120	45° Elbow	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2 2 1/2, 3, 4	500	(3445)	c
120	45° Elbow	BSP	5, 6	300	(2065)	c

120	45° Elbow	BSP	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	e
120	45° Elbow	BSP	6	450	(3100)	e
120	45° Elbow	BSP	15, 20, 25, 32, 40, 50, 65 mm	500	(3445)	h
120X	45° Elbow	Grooved	3, 4, 6, 8, 10 108, 140, 159, 165 mm	300	(2065)	b
121	45° Street Elbow	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2 2 1/2, 3, 4	500	(3445)	a
121	45° Street Elbow	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2 2 1/2, 3, 4	500	(3445)	c
121	45° Street Elbow	BSP	3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	500	(3445)	e
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	(3445)	b
130	Equal Tee	Grooved	1 76, 133, 139.7 mm	500	(3445)	b
130	Equal Tee	Grooved	267.4 mm	300	(2065)	b
130	Equal Tee	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2 2 1/2, 3, 4	500	(3445)	a
130	Equal Tee	NPT	5, 6	300	(2065)	a
130	Equal Tee	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2 2 1/2, 3, 4	500	(3445)	c
130	Equal Tee	BSP	5, 6	300	(2065)	c
130	Equal Tee	BSP	15, 20, 25, 32, 40, 50, 65 mm	500	(3445)	h
130X	Equal Tee	Grooved	3, 4, 6, 8, 10, 12 108, 133, 140, 159, 165 mm	300	(2065)	b
130C	Reducing Tee	Grooved	114.3 x 88.9 x 33.7 mm 165.1 x 88.9 x 33.7 mm	300	(2065)	b
130D	Reducing Tee	Grooved	114.3 x 88.9 x 33.7 mm 165.1 x 88.9 x 33.7 mm	300	(2065)	b
130R	Reducing Tee	Grooved	2 x 1 1/2 3 x 1, 1 1/2, 2, 2 1/2 4 x 1, 2, 2 1/2, 3 5 x 1 1/2, 2, 2 1/2, 3, 4 6 x 2, 2 1/2, 3, 4, 5 8 x 2, 3, 4, 5, 6	500	(3445)	b
130R	Reducing Tee	Grooved	2 x 1 2 1/2 x 1 1/2, 2 3 x 1 1/4 4 x 1 1/2 60 x 48 mm 76.1 x 42.4, 48.3, 60.3 mm 88.9 x 48, 60, 73, 76.1 mm 108 x 60.3, 73, 88.9 mm 114.3 x 34, 60, 73, 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 141 x 114.3 mm 159 x 60.3, 76.1, 88.9, 114.3, 133 mm 168 x 60, 73, 89, 114, 141 mm	500	(3445)	b

130R	Reducing Tee	Grooved	<p>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 114.3, 165.1 mm                  219.1 x 60, 73, 76.1, 89, 108,                  114.3, 133, 139.7,                  141.3, 159, 165.1, 168 mm                  273 x 165.1 mm                  323.9 x 165.1, 168.3 mm</p>	300	(2065)	b
130R	Reducing Tee	NPT	<p>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</p>	500	(3445)	a
			<p>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 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 3/4, 1/2, 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                  1/2 x 1/2 x 3/4, 1                  3/4 x 3/4 x 1, 1 1/4                  1 x 1 x 1 1/4 x 1 1/2, 2, 2 1/2                  1 1/4 x 1 1/4 x 1 1/2, 2                  1 1/2 x 1 1/2 x 2, 2 1/2                  2 x 2 x 2 1/2</p>			

130R	Reducing Tee	BSP	<p>2 1/2 x 2 1/2 x 3, 4                      3/4, 1 x 1/2 x 1/2                      1 1/4, 1 1/2 x 3/4 x 3/4                      1 1/4 x 1/2 x 1/2                      1 1/4, 1 1/2, 2 x 1 x 1                      1 1/2, 2 x 1 1/4 x 1 1/4                      2 x 1 1/2 x 1 1/2                      2 1/2, 3 x 2 x 2                      3/4 x 1/2 x 3/4                      1 x 1/2 x 1, 1 x 3/4 x 1, 1 x 1/4 x 1                      1 1/4 x 1/2 x 1 1/4, 1 1/4, 1 1/4 x 3/4 x 1 1/4, 1 1/4 x 1 x 1 1/4                      1 1/2 x 1/2 x 1 1/2, 1 1/2 x 3/4 x 1 1/2, 1 1/2 x 1 x 1 1/2, 1 1/2 x 1 1/2 x 1 1/2                      2 x 1/2 x 2, 2 x 3/4 x 2, 2 x 1 x 2, 2 x 1 1/4 x 2, 2 x 1 1/2 x 2                      2 1/2 x 1 1/2 x 2 1/2, 2 1/2 x 2 x 2 1/2                      3/4 x 1/2 x 1, 1 x 1/2 x 3/4, 1 x 3/4 x 1/2                      1 1/4 x 1/2 x 3/4, 1                      1 1/4 x 3/4 x 1/2, 1                      1 1/4 x 1 x 1/2, 3/4                      1 1/2 x 3/4 x 1, 1 1/4                      1 1/2 x 1 x 1/2, 1 1/4                      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 1/2 x 1 1/2 x 3/4, 1, 1 1/4                      2 1/2 x 2 x 1/2, 1, 1 1/4</p>	500	(3445)	c
130R	Reducing Tee	BSP	6 x 2, 3, 4	300	(2065)	c
130R	Reducing Tee	BSP	<p>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                      1/4, 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</p>	500	(3445)	e

			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			
130R	Reducing Tee	BSP	6 x 6 x 4	450	(3100)	e
130R	Reducing Tee	BSP	20 x 15 x 15, 20 mm 20 x 20 x 15 mm 25 x 15 x 25 mm 25 x 20 x 15, 20, 25 mm 25 x 25 x 15, 20 mm 32 x 15 x 32 mm 32 x 20 x 32 mm 32 x 25 x 15, 20, 25, 32, 40 mm 32 x 32 x 15, 20, 25 mm 40 x 25 x 15, 25, 32, 40 mm 40 x 32 x 15, 25, 32, 40, 50 mm 40 x 40 x 15, 20, 25, 32 mm 50 x 25 x 40, 50 mm 50 x 32 x 15, 25, 32, 40, 50 mm 50 x 40 x 15, 25, 32, 40, 50 mm 50 x 50 x 15, 20, 25, 32, 40 mm 65 x 65 x 25 mm	500	(3445)	h
130R	Bullhead Tee	NPT	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	500	(3445)	a
130R	Bullhead Tee	BSP	25 x 25 x 32, 40 mm 40 x 40 x 50 mm	500	(3445)	h
130RX	Reducing Tee	Grooved	3 x 2 1/2 3 x 76 mm 4 x 2, 2 1/2, 3 5 x 4 6 x 2, 2 1/2, 3, 4, 5 6 x 76, 140 mm 8 x 3, 4, 6 8 x 76, 140, 159, 165 mm 10 x 6, 8 10 x 159, 165 mm 12 x 4, 8, 10 12 x 159 165 mm 140 mm x 4 159 mm x 3, 4 159 mm x 108, 133 mm 165 mm x 2, 3, 4 165 mm x 76, 140 mm	300	(2065)	b
130S	Short Radius Tee	Grooved	2, 2 1/2, 3, 4, 5, 6, 8 76, 139.7, 165 mm	300	(2065)	b
130S	Short Radius Tee	Grooved	108, 159, 216.3 mm	300	(2065)	b
130S	Short Radius Tee	Grooved	114, 165 mm	365	(2515)	b
131	Equal Tee	Grooved	3, 4, 6	300	(2065)	b
131	Equal Tee	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	500	(3445)	c
131	Equal Tee	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	500	(3445)	e



131R	Reducing Tee	Grooved	<p>2 x 1, 1 1/4, 1 1/2  2 1/2 x 1, 1 1/4, 1 1/2, 2  3 x 1, 1 1/4, 1 1/2, 2  4 x 1, 1 1/4, 1 1/2, 2, 3  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</p>	300	(2065)	b
131RX	Reducing Tee	NPT	<p>2 x 1, 1 1/2  2 1/2 x 1 1/2, 2  3 x 1, 1 1/2, 2  4 x 2, 3  4 x 76 mm  6 x 2, 3, 4  6 x 76 mm  8 x 4  8 x 76 mm  76 mm x 1 1/2, 2  108 mm x 76  165 mm x 2, 3, 4  165 mm x 76 mm</p>	300	(2065)	b
131RX	Reducing Tee	BSP	<p>2 x 1, 1 1/2  2 1/2 x 1 1/2, 2  3 x 1, 1 1/2, 2  4 x 2, 3  4 x 76 mm  6 x 2, 3, 4  6 x 76 mm  8 x 4  8 x 76 mm  76 mm x 1 1/2, 2  108 mm x 76  165 mm x 2, 3, 4  165 mm x 76 mm</p>	300	(2065)	b
132	Twin Elbow	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	500	(3445)	e
133	Equal Tee	Female BSP X Female BSP X Male BSP	3/8, 1/2, 3/4, 1	500	(3445)	e
134	Service Tee	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	500	(3445)	a
134	Service Tee	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	500	(3445)	c
134	Service Tee	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	500	(3445)	e
134R	Service Tee Reducing	BSP	<p>2 x 1 1/2  2 1/2 x 2  3 x 2 1/2</p>	500	(3445)	c
135	Equal Tee	Male BSP	1/2, 3/4, 1	500	(3445)	e
165	Lateral Y Branch	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	a

165	Lateral Y Branch	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	c
165	Lateral Y Branch	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	500	(3445)	e
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	(3445)	b
180	Equal Cross	Grooved	60, 73, 76, 89, 108, 114, 139.7, 141, 159, 165, 168 mm	500	(3445)	b
180	Equal Cross	Grooved	219 mm	300	(2065)	b
180	Equal Cross	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	a
180	Equal Cross	NPT	5, 6	300	(2065)	a
180	Equal Cross	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	c
180	Equal Cross	BSP	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	e
180	Equal Cross	BSP	15, 20, 25, 32, 40, 50 mm	500	(3445)	h
180X	Equal Cross	Grooved	6, 8 159, 165mm	300	(2065)	b
180R	Reducing Cross	Grooved	3 x 2 4 x 2, 3 8 x 2, 4 76.1 x 60.3 mm 139.7 x 114.3 mm 159 x 114.3 mm 165.1 x 60.3, 76.1, 88.9, 114.3 mm	500	(3445)	b
180R	Reducing Cross	Grooved	219.1, 139.7, 159, 165.1 mm	300	(2065)	b
180R	Reducing Cross	NPT	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	500	(3445)	a
180R	Reducing Cross	BSP	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	500	(3445)	c
180R	Reducing Cross	BSP	3/4 x 1/2, 1 x 1/2	500	(3445)	e
180R	Reducing Cross	BSP	32 x 25 mm 40 x 25 mm 50 x 25 mm	500	(3445)	h
180RX	Reducing Cross	Grooved	6 x 4 8 x 6 165 mm x 114 mm 219 mm x 165 mm	300	(2065)	b

181	Reducing Cross	Grooved	3 x 1 1/2, 2 4 x 1, 1 1/4, 1 1/2, 2, 3 4 x 76.1 mm 76.1 x 60.3 mm 165.1 x 48.3, 60.3 mm	300	(2065)	b
181RX	Reducing Cross	NPT	165 mm x 89 mm	300	(2065)	b
181RX	Reducing Cross	BSP	165 mm x 89 mm	300	(2065)	b
220	Coupling	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	a
220	Coupling	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	c
220	Coupling	BSP	5, 6	300	(2065)	c
220	Coupling	BSP	15, 20, 25, 32, 40, 50, 65 mm	500	(3445)	h
230	Eccentric Reducer	Grooved	4 x 2, 3 6 x 3, 4 8 x 4, 6 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 168.3 x 139.7, 141.3 mm 219.1 x 159, 165.1 mm	300	(2065)	b
230	Eccentric Reducer	Grooved	219 x 168 mm 273 x 219 mm	365	(2515)	b
230N	Eccentric Reducer	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	(2065)	b
240	Reducing Socket	NPT	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	500	(3445)	a
240	Reducing Socket	BSP	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	500	(3445)	c
240	Reducing Socket	BSP	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 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. 1 1/4. 1 1/2	500	(3445)	e

			4 x 1 1/2, 2, 2 1/2, 3			
240	Reducing Socket	BSP	20 x 15 mm 25 x 15, 20 mm 32 x 15, 20, 25 mm 40 x 15, 20, 25, 32 mm 50 x 20, 25, 40, 32 mm 65 x 40 mm	500	(3445)	h
240	Concentric Reducer	Grooved	2 x 3/4, 1, 1 1/4, 1 1/2 2 1/2 x 1, 1 1/4, 1 1/2, 2 3 x 3/4, 1, 1 1/2, 2, 2 1/2 4 x 1, 1 1/2, 2, 2 1/2, 3 5 x 3, 4 6 x 1, 2, 2 1/2, 3, 4, 5 8 x 2 1/2, 3, 4, 5, 6	500	(3445)	b
240	Concentric Reducer	Grooved	1 1/4 x 1 1 1/2 x 1, 1 1/2 4 x 1 1/4 5 x 2 1/2 76 x 34, 42, 48, 60 mm 89 x 42, 76 mm 108 x 60.3, 73, 76, 89 mm 114.3 x 76.1 mm 133 x 108, 114.3 mm 139.7 x 60.3, 76.1, 88.9, 114.3 mm 141 x 76, 89, 114 mm 159 x 60.3, 76.1, 88.9, 108, 114.3, 133 mm 165.1 x 60.3, 76.1, 88.9, 108, 114.3, 139.7 mm 168.3 x 76.1, 139.7 mm	500	(3445)	b
240	Concentric Reducer	Grooved	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	(2065)	b
240X	Concentric Reducer	Grooved	4 x 3 6 x 4 8 x 4 10 x 4, 8 12 x 4 114 mm x 76 mm 140 mm x 114 mm 159 mm x 108, 114 mm 165 mm x 89, 114, 140 mm 168 mm x 140 mm 219 mm x 133, 165 mm 324 mm x 159, 165 mm	300	(2065)	b
240N	Reducing Socket	NPT	1 x 3/4	300	(2065)	c
240N	Concentric Reducer	Grooved x Female NPT	1 x 1/2 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 3/4, 1, 1 1/2, 1 1/4, 2, 2 1/2 4 x 1, 1 1/2, 1 1/4, 2, 2 1/2, 3 5 x 3, 4 6 x 2, 2 1/2, 3, 4, 5 8 x 2 1/2, 3, 4, 5, 6	500	(3445)	b

240N	Concentric Reducer	Grooved x Female NPT	4 x 1/2, 3/4, 1 1/2 8 x 1 1/2, 2 76 x 21, 27, 34, 42, 48, 60 mm 89 x 21, 76 mm 108 x 34, 42, 48, 60, 76, 89 mm 114 x 76 mm 133 x 48, 60, 76, 89 mm 139.7 x 27, 34, 42, 48, 60, 76, 89, 114 mm 141.3 x 89, 114 mm 159 x 27, 34, 42, 48, 60, 76, 89, 114 mm 165 x 21, 27, 34, 42, 48, 60, 76, 89, 114 mm 219 x 76 mm	500	(3445)	b
240NX	Concentric Reducer	NPT	3 x 2 4 x 1 1/2, 2, 3 4 x 76 mm 8 x 1 76 mm x 60 mm 89 mm x 76 mm 108 mm x 76, 89 mm 159 mm x 89, 114 mm 165 mm x 60, 76, 89, 114 mm	300	(2065)	b
240NX	Concentric Reducer	BSP	3 x 2 4 x 1 1/2, 2, 3 4 x 76 mm 8 x 1 76 mm x 60 mm 89 mm x 76 mm 108 mm x 76, 89 mm 159 mm x 89, 114 mm 165 mm x 60, 76, 89, 114 mm	300	(2065)	b
240W	Concentric Reducer	Grooved x NPT	2 x 3/4, 1, 1 1/4, 1 1/2 2 1/2 x 1, 1 1/4, 1 1/2, 2 3 x 3/4, 1, 1 1/2, 2, 2 1/2 4 x 1, 1 1/2, 2, 2 1/2, 3 5 x 3, 4 6 x 2, 2 1/2, 3, 4, 5 8 x 2 1/2, 3, 4, 5, 6	500	(3445)	b
240W	Concentric Reducer	Grooved x NPT	76 x 60 mm 89 x 76	500	(3445)	b
241	Bushing	NPT	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	500	(3445)	a
241	Bushing	NPT	5 x 2, 3, 4 6 x 2, 2 1/2, 3, 3 1/2, 4, 5	300	(2065)	a

241	Bushing	BSP	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	500	(3445)	c
241	Bushing	BSP	5 x 3, 4 6 x 2, 2 1/2, 5	300	(2065)	c
241	Bushing	BSP	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	500	(3445)	e
241	Bushing	BSP	6 x 5	450	(3100)	e
241	Bushing	BSP	15 x 8 mm 20 x 15 mm 25 x 15, 20 mm 32 x 15, 20, 25 mm 40 x 15, 20, 25, 32 mm 50 x 25, 32, 40 mm	500	(3445)	h
241D	Bushing	BSP	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	500	(3445)	c
241D	Bushing	BSP	6 x 3, 4	300	(2065)	c
241D	Bushing	BSP	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	500	(3445)	e
241D	Bushing	BSP	6 x 3, 4	450	(3100)	e
241D	Bushing	BSP	50 x 20 mm	500	(3445)	h
241N	Bushing	BSP	50 x 15 mm	500	(3445)	h
245	Hex Nipple Reducing	BSP	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	500	(3445)	c

245	Hex Nipple Reducing	BSP	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	500	(3445)	e
246	Extension Reducing	Male BSP X Female BSP	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	500	(3445)	c
246	Extension Reducing	Male BSP X Female BSP	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	500	(3445)	e
270	Socket	BSP Parallel Threads	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	c
270	Socket	BSP Parallel Threads	6	300	(2065)	c
271	Socket	BSP Right and Left Threads	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	500	(3445)	c
271	Socket	BSP Right and Left Threads	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	500	(3445)	e
280	Hex Nipple	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2	500	(3445)	a
280	Hex Nipple	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	c
280	Hex Nipple	BSP	5, 6	300	(2065)	c
280	Hex Nipple	BSP	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4, 5	500	(3445)	e
280	Hex Nipple	BSP	6	450	(3100)	e
280	Hex Nipple	BSP	15, 20, 25, 32, 40, 50, 65, 80 mm	500	(3445)	h
281	Hex Nipple	BSP Right and Left Threads	3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2	500	(3445)	e
290	Plug, Sq. Hd., Beaded	BSP	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	e
291	Plug, Sq. Hd.	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	a
291	Plug, Sq. Hd.	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	c
291	Plug, Sq. Hd.	BSP	6	300	(2065)	c

291	Plug, Sq. Hd.	BSP	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	e
291	Plug, Sq. Hd.	BSP	6	450	(3100)	e
291	Plug, Sq. Hd.	BSP	15, 20, 25, 32, 50, 40 mm	500	(3445)	h
291-4	Plug, Cross Slotted	NPT	4	500	(3445)	a
291-4	Plug, Cross Slotted	NPT	5, 6	300	(2065)	a
291N	Plug, Sq. Socket	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	a
291N	Plug, Sq. Socket	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	c
291S	Plug, Solid Sq.	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	a
291S	Plug, Solid Sq.	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	c
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	(3445)	a
300	End Cap	Grooved	1 1/4, 1 1/2, 2, 2 1/2, 3, 4, 5, 6, 8, 10, 12 76.1, 89, 114, 140, 165 mm	500	(3445)	b
300	End Cap	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	a
300	End Cap	NPT	5, 6	300	(2065)	a
300	End Cap	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	c
300	End Cap	BSP	5, 6	300	(2065)	c
300	End Cap	BSP	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	e
300	End Cap	BSP	15, 20, 25, 32, 40, 50, 65 mm	500	(3445)	h
300	End Cap with BSP threaded outlet	Grooved x BSP	168 x 21, 60 mm 219 x 34 mm	500	(3445)	b
300PX	End Cap with BSP threaded outlet	Grooved x BSP	73 x 34 mm 76 x 34 mm 89 x 48, 60 mm 114 x 34, 48, 60 mm 140 x 48, 60 mm 165 x 48 mm 168 x 48, 60 mm	500	(3445)	b
300PX	End Cap with BSP threaded outlet	Grooved x BSP	219 x 48, 60 mm	300	(2065)	b
301	Round Cap	BSP	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	e
310	Locknut	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	c
312	Backnut	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 4	500	(3445)	c
321	Flange Adapter	Flanged x NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	500	(3445)	a
321-4	Flange Adapter	Flanged x BSP	1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	a
321-4	Flange Adapter	Flanged x BSP	6	300	(2065)	a
321-6	Flange Adapter	Flanged x BSP	1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	a
321-6	Flange Adapter	Flanged x BSP	6	300	(2065)	a



321G	Flange Adapter	Flanged x Grooved	2, 2 1/2, 3, 4, 5, 6, 8 76.1, 165 mm	500	(3445)	b
321G	Flange Adapter	Flanged x Grooved	1, 1 1/4, 1 1/2, 10, 12 108, 133, 139.7, 159, 219, 273 mm	300	(2065)	b
321G	Flange Adapter	Flanged x Grooved	60, 73, 76.1, 89, 114 mm	365	(2515)	b
321G	Flange Adapter	Flanged x Grooved	139.7, 141.3, 165, 168, 324 mm	225	(1550)	b
321GA	Flange Adapter	Flanged x Grooved	2, 4, 8, 10	300	(2065)	b
321GH	Flange Adapter	Flanged x Grooved	4, 8 108, 159, 165 mm	365	(2515)	b
321H	Flange Adapter	Flanged x BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	a
321N	Flange Adapter	Flanged x BSP	2	500	(3445)	a
321P	Flange Adapter	Flanged x BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	a
321P	Flange Adapter	Flanged x BSP	5, 6	300	(2065)	a
321PW	Flange Adapter	Flanged x BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	a
321PW	Flange Adapter	Flanged x BSP	5, 6	300	(2065)	a
321TD	Flange Adapter	Flanged x BSP	1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	a
321TD	Flange Adapter	Flanged x BSP	6	300	(2065)	a
321W	Flange Adapter	Flanged x BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	a
330	Union Flat Seat without gasket	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	c
330	Union Flat Seat without gasket	BSP	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	e
330D	Union Flat Seat with gasket, hex	BSP	3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	e
330D	Union Flat Seat with gasket, hex	BSP	15, 20, 25, 32, 40, 50 mm	500	(3445)	h
331	Union Flat Seat without gasket	Male BSP X Female BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	c
331	Union Flat Seat without gasket	Male BSP X Female BSP	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	e
331D	Union Flat Seat with gasket, hex	Male BSP X Female BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	e
340	Union Conical Joint Iron to Iron	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	c
340	Union Conical Joint Iron to Iron	BSP	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	e
340F	Union Nut	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	c
341	Union Conical Joint Iron to Iron	Male BSP X Female BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	c

341	Union Conical Joint Iron to Iron	Male BSP X Female BSP	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	e
342	Union Conical Joint Brass to Iron	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	a
342	Union Conical Joint Brass to Iron	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	c
342	Union Conical Joint Brass to Iron	BSP	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	e
344	Union Taper Seat	Male BSP	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2	500	(3445)	e
345	Union Flat Seat	Male BSP X Female BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	500	(3445)	e
346	Union Flat Seat	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	500	(3445)	e
471	Flanged Base Elbow	BSP	3/8, 1/2, 3/4, 1	500	(3445)	e
526	Extension	BSP	1/2	500	(3445)	c
526	Extension	BSP	3/8 x 30, 40, 100 1/2 x 30, 40 3/4 x 40	500	(3445)	e
529	Extension	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	a
529A	Extension Long	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	500	(3445)	c
529A	Extension Long	BSP	3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2	500	(3445)	e
529X	Extension Short	BSP	1/2	500	(3445)	c
531	Coupling	BSP	3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	e
596	Plug, Sq. Socket	BSP	3/4, 1, 1 1/4, 1 1/2	500	(3445)	e
1090	90° Elbow Plain	BSP	1/2, 3/4, 1, 1 1/4, 2	500	(3445)	c
1130	Equal Tee Plain	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	500	(3445)	c
1220	Socket Plain	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	500	(3445)	c
1221	Side Outlet Elbow	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	500	(3445)	a
1221	Side Outlet Elbow	BSP	1/2, 3/4, 1, 1 1/4, 2	500	(3445)	c
1221	Side Outlet Elbow	BSP	3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2	500	(3445)	e
1223	Side Outlet Tee	BSP	1/2, 3/4, 1	500	(3445)	c
1223	Side Outlet Tee	BSP	1/2, 3/4, 1, 1 1/4	500	(3445)	e
2220	Wye	BSP	3/8, 1/2, 3/4, 1	500	(3445)	e
9015	Blk. Drinking Nipple	BSP	1/2	500	(3445)	e
9030	Blk. Drinking Nipple	BSP	1/2, 3/4, 3/4 x 1/2	500	(3445)	e
9045	Blk. Drinking Nipple	BSP	1/2, 3/4	500	(3445)	e
T330	Union Flat Seat	BSP	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3	500	(3445)	e
35C	Cap	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2	500	(3445)	b
35CP	Straight Coupling	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2	500	(3445)	b
35E	90° Elbow	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	b

35F	45° Elbow	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2	500	(3445)	b
35HB	Bushings	NPT	1 x 1/2, 3/4 1 1/4 x 3/4, 1 1 1/2 x 1, 1 1/4 2 x 1, 1 1/4, 1 1/2	500	(3445)	b
35RC	Concentric Reducer	NPT	1 x 1/2, 3/4 1 1/4 x 3/4, 1 1 1/2 x 1, 1 1/4 2 x 1, 1 1/4, 1 1/2	500	(3445)	b
35RE	90° Reducing Elbow	NPT	3/4 x 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 1/2, 2 3 x 3/4	500	(3445)	b
35RT	Reducing Tee	NPT	3/4 x 3/4 x 1/2, 1 3/4 x 1/2 x 3/4, 1/2 1 x 1 x 1/2, 3/4, 1 1/4, 1 1/2 1 x 3/4 x 3/4, 1 1 x 1/2 x 1 1 1/4 x 1 1/4 x 1/2, 3/4, 1, 1 1/2, 2 1 1/4 x 1 x 1/2, 3/4, 1, 1 1/4, 1 1/2 1 1/4 x 3/4 x 1 1/4 1 1/4 x 1/2 x 1 1/4 1 x 1/2 x 1 1/2 x 1/2, 3/4, 1, 1 1/3, 1 1/2, 2 1 1/2 x 1 x 1/2, 3/4, 1, 1 1/4, 1 1/2 1 1/2 x 3/4 x 1 1/4, 1 1/2 1 1/2 x 1/2 x 1 1/4, 1 1/2 2 x 2 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2 1/2 2 x 1 1/2 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2 2 x 1 1/4 x 2 2 x 1 x 2 2 1/2 x 2 1/2 x 3/4, 1, 1 1/4, 1 1/2 2, 3	500	(3445)	b
35RX	Reducing Cross	NPT	1 1/4 x 1 1 1/2 x 1 2 x 1	500	(3445)	b
35SP	Square Head Pipe Plug	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	500	(3445)	b
35T	Equal Tee	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	500	(3445)	b
35U	Union	NPT	1, 1 1/4, 1 1/2, 2	500	(3445)	b
35X	Cross	NPT	1, 1 1/4, 1 1/2, 2	500	(3445)	b
37E	90° Elbow	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	300	(2065)	g
37F	45° Elbow	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	300	(2065)	g
37RC	Concentric Reducer	NPT	1 x 1/2, 3/4 1 1/4 x 1 2 x 3/4, 1	300	(2065)	g

37RE	90° Reducing Elbow	NPT	3/4 x 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 3/4, 1, 1 1/4, 1 1/2, 2 3 x 2	300	(2065)	g
37RT	Reducing Tee	NPT	3/4 x 3/4 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 1/2, 3/4, 1 1/4, 1 1/2 1 x 1 1/4 x 1 1 1/4 x 1 1/4 x 1/2, 3/4, 1, 1 1/2, 2 1 1/4 x 1 x 1/2, 3/4, 1, 1 1/4, 1 1/2 1 1/4 x 3/4 x 1 1/4 1 1/4 x 1/2 x 1 1/4 1 1/2 x 1 1/2 x 1/2, 3/4, 1, 1, 1 1/4, 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 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2 1 1/2 x 3/4 x 1 1/4, 1 1/2 1 1/2 x 1/2 x 1 1/4, 1 1/2 2 x 2 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2 2 x 1 1/2 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2 2 x 1 1/4 x 1/2, 1, 1 1/4, 1 1/2, 2 2 x 1 x 3/4, 1, 1 1/4, 1 1/2, 2 2 x 1/2 x 2 2 x 2 x 2 1/2 2 1/2 x 2 1/2 x 1/2, 3/4, 1, 1 1/4, 1 1/2, 2 2 x 1 1/4 x 2 1/2 2 x 1 x 2 1/2 2 x 3/4 x 2 1/2 2 1/2 x 1/2 x 2, 2 1/2 3 x 3 x 1 1/4, 1 1/2, 2	300	(2065)	g
37T	Equal Tee	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4	300	(2065)	g
37X	Equal Cross	NPT	1, 1 1/4, 1 1/2, 2	300	(2065)	g
37RX	Reducing Cross	NPT	1 1/4 x 1 1 1/2 x 1 2 x 1	300	(2065)	g
37SP	Plug, Solid Sq.	NPT	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	300	(2065)	g

**Remarks:**

a. Malleable Iron Fittings, ASME B16.3

b. Ductile Iron Fittings

c. Malleable Iron Fittings, BS EN 10242

d. Steel Fittings

e. Malleable Iron Fittings, DIN EN 10242, threads per ISO 7-1, available in black and galvanized per ISO 1460

f. Malleable Iron Fittings

g. Cast Iron Fittings

h. Ductile Iron Fittings, ASME B16.3

<b>Company Name:</b>	Jinan Meide Casting Co Ltd
<b>Company Address:</b>	Meide Science and Technology Park, Pingyin Industrial Park, Jinan, 250400 China
<b>Company Website:</b>	<a href="http://meide-casting.com">http://meide-casting.com</a>

<b>New/Updated Product Listing:</b>	Yes
<b>Listing Country:</b>	China
<b>Certification Type:</b>	FM Approved
<b>Class of Work:</b>	1920-Coupling & Fitting, All Type