

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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<i>Product Designation</i>	<i>Fitting Description</i>	<i>End Connection</i>	<i>Nominal Pipe Size, in.</i>	<i>Max Working Pressure, psi (kPa)</i>	<i>Remarks</i>
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)	a
			6	300 (2070)	a
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)	a
2#	90° Bend	Female BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
2A	90° Bend Short	Female BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	500 (3445)	a
3#	90° Bend	Male BSP	1/2, 3/4, 1, 1-1/3, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
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)	a
		BSP X Female BSP	6	300 (2070)	a
41	45° Bend	Female BSP	1/2, 3/4, 1, 1-1/3, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
85	Crossover	BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	500 (3445)	a
90	90° Flhow	Grooved	1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8, 10, 12	500 (3450)	a
			76, 139.7, 165 mm	500 (3445)	a
			1 76, 133 mm	500 (3445)	b
			267.4, 318.5 mm	300 (2070)	b

		NPT	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
			5, 6	300 (2070)	a
		BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
			5, 6	300 (2070)	a
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, 2-1/2, 3	500 (3445)	a
			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)
		6 x 4		300 (2070)	a
		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
90S	90° Short Radius Elbow	Grooved	2, 2-1/2, 3, 4, 6, 8 76, 139.1, 165mm	300 (2070)	a
			108, 159, 216.3 mm	300 (2070)	b
			114, 165 mm	365 (2510)	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
			6	300 (2070)	a
		BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2 2-1/2, 3, 4	500 (3445)	a
			6	300 (2070)	a
92R	90° Reducing Street Elbow	BSP	3/4 x 1/2 1 x 3/4	500 (3445)	a
95	Union Elbow, Flat Seat without gasket	Female BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	500 (3445)	a

96	Union Elbow, Conical Joint Iron to Iron	Female BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	500 (3445)	a
97	Union Elbow, Flat Seat without gasket	Male BSP X Female BSP	1-1/2	500 (3445)	a
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)	a
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
		Grooved	8	300 (2070)	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
		Grooved	8	300 (2070)	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 (3450)	a
			1 108, 139.7, 159 mm	500 (3445)	b
			216.3, 267.4, 318.5 mm	300 (2070)	b
		NPT	1/2, 3/4, 1, 1-1/4, 1-1/2, 2 2-1/2, 3, 4	500 (3445)	a
			5, 6	300 (2070)	a
		BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2 2-1/2, 3, 4	500 (3445)	a
5, 6	300 (2070)		a		
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
		BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2 2-1/2, 3, 4	500 (3445)	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
			1 76, 133, 139.7 mm	500 (3445)	b
			267.4 mm	300 (2070)	b
		NPT	1/2, 3/4, 1, 1-1/4, 1-1/2, 2 2-1/2, 3, 4	500 (3445)	a
			5, 6	300 (2070)	a
		BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2 2-1/2, 3, 4	500 (3445)	a

			5, 6	300 (2070)	a
			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 2, 3, 4 6 x 2, 2-1/2, 3, 4, 5 8 x 2, 3, 4, 5, 6	500 (3450)	a
		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, 114.3 141 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
			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 60, 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 mm	300 (2070)	b
130R	Reducing Tee	NPT	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	500 (3445)	a

		BSP	<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 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 1-1/4 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, 1-1/22 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)	a
			6 x 2, 3, 4	300 (2070)	a
	Bullhead Tee	NPT	<p>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</p>	500 (3445)	a
130S	Short Radius Tee	Grooved	2, 2-1/2, 3, 4, 6, 8 76, 139.7, 165 mm	300 (2070)	a
			108, 159, 216.3 mm	300 (2070)	b
			114, 165 mm	365 (2510)	b
131	Equal Tee	Grooved	3, 4, 6	300 (2070)	b

		BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	500 (3445)	a
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 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
134	Service Tee	NPT	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	500 (3445)	a
		BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	500 (3445)	a
134R	Service Tee Reducing	BSP	2 x 1-1/2 2-1/2 x 2 3 x 2-1/2	500 (3445)	a
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
		BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	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 (3445)	a
			60, 73, 76, 89, 108, 114, 139.7, 141, 159, 165, 168 mm	500 (3445)	b
			219 mm	300 (2070)	b
		NPT	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
			5, 6	300 (2070)	a
		BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
		Grooved	3 x 2 4 x 2, 3 8 x 2, 4 139.7 x 114.3 mm 159 x 114.3 mm 165.1 x 60.3, 76.1, 88.9, 114.3 mm	500 (3445)	b
			219.1, 139.7, 159, 165.1 mm	300 (2070)	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
		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)	a
181R	Reducing Cross	Grooved	4 x 1, 1-1/4, 1-1/2, 2 165.1 x 60.3 mm	300 (2070)	b
220	Coupling	NPT	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
		BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
			5, 6	300 (2070)	a
230	Eccentric Reducer	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 168.3 x 139.7 mm	300 (2070)	b
			219 x 168 mm 273 x 219 mm	365 (2510)	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 (2070)	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, -1/2 2-1/2 x 1-1/2, 2 3 x 1-1/2, 2, 2-1/2 4 x 2, 3	500 (3445)	a
		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)	a

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, 2-1/1 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 (3450)	a
	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 42, 48, 60 mm 89 x 42, 76 mm 108 x 60.3, 73, 76 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 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, 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	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 (3450)	a
			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, 76 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, 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 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 (3450)	a
			76 x 60 mm	500 (3450)	b
		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	500 (3445)	a

241	Bushing		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		
			5 x 2, 3, 4 6 x 2, 2-1/2, 3, 3-1/2, 4, 5	300 (2070)	a
		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)	a
		5 x 3, 4 6 x 2, 2-1/2, 5	300 (2070)	a	
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)	a
			6 x 3, 4	300 (2070)	a
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)	a
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)	a
270	Socket	BSP Parallel Threads	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
			6	300 (2070)	a
271	Socket	BSP Right and Left Threads	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	500 (3445)	a
280	Hex Nipple	NPT	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2	500 (3445)	a
		BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
			5, 6	300 (2070)	a
		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)	a
			6	300 (2070)	a
291-4	Plug, Cross Slotted	NPT	4	500 (3445)	a
			5, 6	300 (2070)	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
		BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3	500 (3445)	a
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
		BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	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, 165 mm	500 (3450)	a
			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 (3450)	b
		NPT	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
			5, 6	300 (2070)	a
		BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
			5, 6	300 (2070)	a
300PX	End Cap with BSP threaded outlet	Grooved x BSP	89 x 48, 60 mm 114 x 48, 60 mm 140 x 48, 60 mm 165 x 48 mm 168 x 48, 60 mm	500 (3445)	b
			219 x 48, 60 mm	300 (2070)	b
310	Locknut	BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
312	Backnut	BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 4	500 (3445)	a
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
			6	300 (2070)	a
321-6	Flange Adapter	Flanged x BSP	1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a

	Flange Adapter	Flanged x BSP	6	300 (2070)	a
321G	Flange Adapter	Flanged x Grooved	2, 2-1/2, 3, 4, 5, 6, 8 76.1, 165 mm	500 (3450)	a
			1, 1-1/4, 1-1/2, 10, 12 108, 133, 139.7, 159 mm	300 (2070)	a
			60, 73, 76.1, 89, 114 mm	365 (2510)	b
			139.7, 141.3, 165, 168, 219, 273, 324 mm	225 (1550)	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 (3450)	a
321N	Flange Adapter	Flanged x BSP	2	500 (3450)	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 (3450)	a
			5, 6	300 (2070)	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 (3450)	a
			5, 6	300 (2070)	a
321TD	Flange Adapter	Flanged x BSP	1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3450)	a
			6	300 (2070)	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 (3450)	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)	a
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)	a
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)	a
340F	Union Nut	BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
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)	a
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
		BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	a
526	Extension	BSP	1/2	500 (3445)	a

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)	a
529X	Extension Short	BSP	1/2	500 (3445)	a
1090	90° Elbow Plain	BSP	1/2, 3/4, 1, 1-1/4, 2	500 (3445)	a
1130	Equal Tee Plain	BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	500 (3445)	a
1220	Socket Plain	BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3	500 (3445)	a
1221	Side Outlet Elbow	NPT	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	500 (3445)	a
		BSP	1/2, 3/4, 1, 1-1/4, 2	500 (3445)	a
1223	Side Outlet Tee	BSP	1/2, 3/4, 1	500 (3445)	a
Steel Merchant Socket	Socket	BSP	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3	500 (3445)	d
			4, 5, 6	300 (2070)	d
		NPT	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3	500 (3445)	d
			4, 5, 6	300 (2070)	d

Remarks:

- a. Malleable Iron Fittings
- b. Ductile Iron Fittings
- c. Cast Iron Fittings
- d. Steel Fittings

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

37RT	Reducing Tee	NPT	<p>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</p>	300 (2070)	c
37T	Equal Tee	NPT	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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New/Updated Product Listing:	No
Listing Country:	China
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