

## 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).

## Pipe Fittings

### Modgal Metal (99), Pipe Fittings

Product Designation	Fitting Description	Nominal Pipe Size, in.	Max Working Pressure, psi (kPa)	Remarks
02	End Cap (Blind) Grooved	1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 6, 8	500 (3445)	—
02	End Cap (Blind) Grooved	10	175 (1205)	—
02D	End Cap (3/4 in. NPT Tapped Vent Hole) Grooved	3, 4, 5, 6, 8	500 (3445)	—
02	End Cap (Blind) Grooved	76, 108, 133, 140, 159, 165 mm	290 (2000)	—
02D	End Cap (Tapped 1-1/2 in. BSP) Grooved	76, 108, 133, 159, 165 mm	290 (2000)	—
Style 02M	End Cap Grooved	2-1/2, 5	500 (3450)	—
04 "QUIKBEND"	45° Elbow Grooved	1-1/2, 2, 2-1/2, 3, 4, 6, 8	500 (3445)	—
05	Tee Grooved	1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 6, 8	500 (3445)	—
05	Tee Grooved	76, 108, 159 mm	290 (2000)	—
05	Tee Grooved	10	200 (1380)	—
Style 05M	Tee Grooved	5	500 (3450)	—
06 "QUIKBEND"	90° Elbow Grooved	1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 6, 8	500 (3445)	—
06 "QUIKBEND"	90° Elbow Grooved	76, 108, 159 mm	290 (2000)	—
06 "QUIKBEND"	90° Elbow Grooved	10	200 (1380)	—
06D	90° Drain Elbow Grooved	3, 4, 6, 8	500 (3445)	—

Style 06M	90° Elbow Grooved	5	500 (3450)	—
15	Concentric Reducer Grooved	1-1/2 x 1-1/4 2 x 1-1/2 3 x 2, 2-1/2 4 x 2, 3 6 x 2, 3, 4 8 x 4, 6	500 (3445)	—
15	Concentric Reducer Grooved	10 x 8	175 (1205)	—
15	Concentric Reducer Grooved	76 x 60 mm 114 x 76 mm 140 x 89, 114 mm 165 x 60, 89, 114, 140 mm 168 x 140 mm	500 (3445)	—
15	Concentric Reducer Grooved	219 x 140 mm	175 (1205)	—
15	Concentric Reducer Grooved	139 x 89, 114 mm 168 x 60, 89, 114, 139 mm 219 x 89, 114, 139, 168 mm	500 (3450)	—
Style 15M	Concentric Reducer Grooved	3 x 2-1/2	500 (3450)	—
24	Reducing Adapter Groove x Female BSP Thread	1-1/2 x 1	250 (1725)	—
25	Sprinkler Adapter, Groove x Female NPT Thread	1-1/2 x 1	175 (1205)	—
26	Elbow Groove x Female BSP Thread	2 x 1-1/2	300 (2070)	—
28	Nipple Grooved x Male BSP Thread	1-1/2 x 1-1/2	250 (1725)	—
45	Equal Cross, Grooved	60, 76, 89, 114, 139, 165, 168, 219, 273, 324 mm	500 (3450)	—
55	Cast Straight Reducing Tee Grooved	2-1/2 x 2 3 x 2 4 x 2 4 x 2-1/2, 3 6 x 1-1/2, 2, 2-1/2, 3, 4	500 (3445)	—
55	Cast Straight Reducing Tee Grooved	114 x 76 mm	500 (3445)	—
55	Reducing Tee Grooved	139 x 60, 89, 114 mm 168 x 60, 89, 114, 139 mm 219 x 60, 89, 114, 139, 168 mm	500 (3450)	—

64	45° Elbow Grooved	42, 48, 60, 76, 89, 114, 139, 165, 168, 219, 273, 324 mm	500 (3450)	—
Style 64M	45° Elbow Grooved	2-1/2, 5	500 (3450)	—
65	Short Radius Tees Grooved	60, 76, 89, 114, 139, 165, 168, 219 mm	300 (2070)	—
Style 65	Short Radius Equal Tee Grooved	48, 60, 76, 89, 114, 140, 165, 168 mm	300 (2070)	—
Style 65M	Short Radius Tee Grooved	1-1/4, 2-1/2	300 (2070)	—
Style 66	Short Radius 90° Elbow Grooved	48, 60, 76, 89, 114, 140, 165, 168 mm	300 (2070)	—
Style 66M	Short Radius 90° Elbow Grooved	1-1/4, 2-1/2	300 (2070)	—
66	Short 90° Elbow Grooved	60, 76, 89, 114, 139, 165, 168, 219 mm	300 (2070)	—
91	Flange x Grooved Adapter	60, 76, 89, 114, 139, 165,	500 (3450)	—
		168, 219, 273, 324 mm	300 (2070)	—
91	Flange Adapter	3, 4	500 (3445)	g
91	Flange Adapter	6, 8, 10	175 (1205)	g
91	Flange Adapter	165 mm	175 (1205)	g
Elbow 22-1/2°	Segmentally Welded	1-1/2, 2, 3, 4, 6, 8	300 (2070)	—
Elbow 22-1/2°	Segmentally Welded	76, 140 mm	300 (2070)	—
Elbow 11-1/4°	Segmentally Welded	1-1/2, 2, 3, 4, 6, 8	300 (2070)	—
Elbow 11-1/4°	Segmentally Welded	76, 140 mm	300 (2070)	—
280	Coupling Plain End	1, 1-1/4, 1-1/2, 2	232 (1600)	a, b, c, d, e
281	Single Coupling Plain x Threaded	1, 1-1/4, 1-1/2, 2	232 (1600)	a, b, c, d, e, f
282	End Cap	1, 1-1/4, 1-1/2, 2	232 (1600)	—
285	Equal Tee Plain End	1, 1-1/4, 1-1/2	232 (1600)	a, b, c, d, e
286	Elbow, 90° Plain End	1, 1-1/4, 1-1/2	232 (1600)	a, b, c, d, e

288	Quik-T Plain End Outlet	3 x 1, 1-1/4, 1-1/2 4 x 1, 1-1/4, 1-1/2, 2	232 (1600)	a, b, c, d, e
289	Reducing Tee Plain End x Threaded Branch	1 x 1/2, 3/4, 1 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	232 (1600)	a, b, c, d, e, f

**Remarks:**

- a. Approved for use with Schedule 10 steel sprinkler pipe in sizes: 1, 1-1/4, 1-1/2, and 2 in. NPS.  
b. Approved for use with Schedule 40 steel sprinkler pipe in sizes: 1, 1-1/4, 1-1/2, and 2 in. NPS.  
c. Approved for use with DIN 2458 steel sprinkler pipe.  
d. Approved for use with ISO 65 steel pipe in sizes: 1, 1-1/4, 1-1/2, and 2 in. NPS.  
e. Approved when supplied with EPDM gasket.  
f. Approved when supplied with ISO 7/1 threaded connections.  
g. Adapters are used for connecting traditional PN16 flanges to grooved piping systems.

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<b>New/Updated Product Listing:</b>	No
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