

## 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).

## Fittings, Side Outlet, Rigid

These fittings allow installation of a perpendicular branch line of reduced size, while joining inline pipes of equal diameters. These fittings bolt over a hole in the run pipe, and allow installation of a perpendicular branch line of reduced size. The maximum branch line size is one pipe size reduced from the run pipe size.

## SHURJOINT Models 7721, 7722, 723 Saddle-Let, SS-723 Stainless Steel Mechanical Tee, M21, M22, C-7 Outlet Coupling

Product Designation	Nominal Pipe Size, in.	Fitting Description	Remarks	Max Rated Pressure, psi (kPa)
7721	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 3 x 1, 1-1/4, 1-1/2, 2 4 x 1, 1-1/4, 1-1/2, 2, 2-1/2, 3 5 x 2, 2-1/2 6 x 1-1/4, 1-1/2, 2, 2-1/2, 3, 4 8 x 2, 2-1/2, 3, 4	Mechanical Tee Branch Outlet Female NPT/BSPT	a	300 (2070)
7722	3 x 1-1/2, 2 4 x 1-1/2, 2, 2-1/2, 3 5 x 2, 2-1/2 6 x 1-1/2, 2, 2-1/2, 3, 4 8 x 2, 2-1/2, 3, 4	Mechanical Tee Grooved Outlet	a	300 (2070)
723 Saddle-Let	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	Mechanical Branch Outlet Female NPT/BSPT	a, b	300 (2070)
SS-723 Stainless Steel Mechanical Tee	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	Mechanical Branch Outlet Female NPT	a	300 (2070)
	3 x 1-1/2	Mechanical Branch Outlet Female NPT or BSPT	m, n, o	300 (2070)
M21	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 3 x 1/2, 3/4, 1, 1-1/4, 1-1/2, 2 4 x 1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2 5 x 2, 2-1/2 165.1 mm x 1-1/4, 1-1/2, 2, 2-1/2 6 x 1-1/4, 1-1/2, 2, 2-1/2	Mechanical Branch Outlet Female NPT  Female BSPT (when used with BS EN 10255 pipe)	a, d, e, f, g, h, k, m	300 (2070)

M22	2 x 1, 1-1/4, 1-1/2 2-1/2 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, 76.1 mm 5 x 2, 2-1/2, 76.1 mm 165.1 mm x 1-1/4, 1-1/2, 2, 76.1 mm 6 x 1-1/4, 1-1/2, 2, 2-1/2	Mechanical Tee Grooved Outlet	a, d, e, f, g, h, k, m	300 (2070)
M21	4 x 3 165.1 mm x 3, 4 6 x 3, 4	Mechanical Branch Outlet Female NPT  Female BSPT (when used with BS EN 10255 pipe)	a, d, e, f, g, h, k, m	175 (1205)
M22	4 x 3 165.1 mm x 3, 4 6 x 3, 4	Mechanical Tee Grooved Outlet	a, d, e, f, g, h, k, m	175 (1205)

**Remarks:**

- a. For use on Schedule 10 or heavier pipe. Clamps over pre-drilled hole in pipe wall.
- b. Bull Moose "EDDY-Lite", Wheatland "WLS", 1-1/4 to 2 in.
- d. Wheatland "Mega-Flow", 1 to 4 in.
- e. Wheatland "Mega-Thread", 1 to 2 in.
- f. Youngstown "EZ-Thread", 1 to 2 in.
- g. Youngstown "Fire-Flo", 1-1/2 to 4 in.
- h. Bull Moose "EDDY-Flow", 1-1/4 to 4 in.
- k. BS EN 10255, 1 to 6 in.
- m. EPDM gasket.
- n. For Use with ANSI B36.19 Schedule 10S Equivalent ASTM A312 Stainless Steel Pipe
- o. For Use with ANSI B36.19 Schedule 20S Equivalent ASTM A312 Stainless Steel Pipe

Product Designation	Fitting Description	Nominal Pipe Size, in. / Type of Outlet*	Remarks	Max Working Pressure, psi (kPa)
C-7	Outlet Coupling	2 1/2 x 1/2/F 2 1/2 x 3/4/F 2 1/2 x 1/F 2 1/2 x 1 1/4/M, G 2 1/2 x 1 1/2/M, G 3 x 3/4, 3 x 1/F 3 x 1, 3 x 1 1/2/M, G 4 x 3/4, 4 x 1/F 4 x 1 1/2, 4 x 2/M, G 6 x 1, 6 x 1 1/2/F 6 x 1 1/2, 6 x 2/M, G	a, b, c, d, e, g, j, k, l, m, n, p, q, r, t, u	300 (2070)
C-7	Outlet Coupling	1 1/2 x 1/2/F 1 1/2 x 3/4/F 1 1/2 x 1, 2 x 1/2/F 2 x 3/4, 2 x 1/F 2 x 1/M, G	f, h, s	300 (2070)

- \*F = Female Threaded.
- \*M = Male Threaded.
- \*G = Grooved.

**Remarks:**

- a. Min schedule cut groove pipe: 6 in. or smaller - Schedule 40.
- b. Min schedule rolled groove pipe: 6 in. or smaller - Schedule 10.
- c. With EPDM gasket (green stripe) Grade E or (purple stripe) Grade A.
- d. Allied Tube & Conduit Corp Thinwall Pipe, "BLT" and "Dyna-Thread (1-2)". "XL", "XL-II", "Super-XL" and "Super-40" (1-3").

- e. Allied Tube & Conduit Corp Lightwall Pipe, "Dyna-Flow" and "Super-Flo" (1- 6").
- f. Allied Tube & Conduit Corp Schedule 5 Pipe, Dyna-Light (1- 2").
- g. Bull Moose Thinwall Pipe, "EDDY-Lite" and "EDDY-Thread", (1-2").
- h. Bull Moose Schedule 5 Pipe, "Ultra-EDDY", 1-2 in. sizes.
- j. Bull Moose Lightwall Pipe, "EDDY-Flo" (1 ¼ - 4").
- k. BS 1387 pipe, medium and heavy wall and ISO 4200 pipe.
- l. Welded Tube-Berkeley LLC Lightwall Pipe, Steady-Flow (1 ¼ - 4").
- m. Welded Tube-Berkeley LLC Thinwall Pipe, Steady-Thread (1 ¼ - 2").
- n. Western International Forest Products Thinwall Pipe, Rapid-Thread and Rapid Thread Light (1-2").
- p. Western International Forest Products Lightwall Pipe, Fire-Flow (1-4").
- q. Wheatland Tube Co. Lightwall pipe, "Mega-Flow" (1-6").
- r. Wheatland Tube Co. Thinwall pipe, "WLS", "Mega-Thread", "MLT" "GL" and EZ Thread (1 ¼ - 2") "SL".
- s. Wheatland Tube Co Schedule 5 Pipe, pipe . "WST" (1- 2").
- t. Youngstown Tube Lightwall Pipe, Fire-Flo (1 ½ - 4").
- u. Youngstown Tube Thinwall Pipe, EZ-Thread (1 - 2").

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<b>New/Updated Product Listing:</b>	No
<b>Listing Country:</b>	Taiwan
<b>Certification Type:</b>	FM Approved
<b>Class of Work:</b>	1920-Coupling & Fitting, All Type