

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.

Models DS2, DA1, DS1, DD2, DD1, DD3

Product Specification

Model No	Description	Nominal Pipe Size, in	Rated Working Pressure		Remarks
			psi	(kPa)	
DS2	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	300	(2065)	a, c
DS2	Mechanical Tee, Grooved Outlet	89 x 34, 42, 48, 60 mm	365	(2515)	a, c
DS2	-	114 x 34, 42, 48, 60, 73, 76, 89 mm 133 x 89 mm 140 x 42, 48, 60, 76, 89 mm 159 x 108, 114 mm 165 x 42, 48, 60, 76, 89, 108, 114 mm 168 x 42, 48, 60, 73, 76, 89, 114 mm	300	(2065)	a, c
DA1	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	300	(2065)	a, c
DS1	Mechanical Tee, Threaded 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	300	(2065)	a, b, c

DS1	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	300	(2065)	a, b, c
DS1	Mechanical Tee, Threaded Outlet	89 x 21, 27, 34, 42, 48, 60 mm	365	(2515)	a, b, c, d
DS1	-	114 x 21, 27, 34, 42, 48, 60, 73, 76, 89 mm 168 x 34, 42, 48, 60, 73, 76, 89, 114 mm 219 x 34, 42, 48, 60	300	(2065)	a, b, c, d
DS1	-	108 x 21, 27, 34, 42, 48, 60, 76 mm 133 x 21, 27, 34, 42, 48, 60, 76, 89 mm 140 x 21, 27, 34, 42, 48, 60, 76, 89, 114 mm 159 x 21, 27, 34, 42, 48, 60, 76, 89, 114 mm 165 x 21, 27, 34, 42, 48, 60, 76, 89, 114 mm	300	(2065)	a, c, d
DD2	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	300	(2065)	a, c
DD1	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	300	(2065)	a, b, c
DD3	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, 3 139.7 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	300	(2065)	a, b, c

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.
- d. Approved when supplied with BSP or DIN female threads.

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Company Address:	Polig. Ind. ATUSA-Agurain s/n, Salvatierra, Alava, Spain 01200
Company Website:	http://www.atusa.es
New/Updated Product Listing:	No
Listing Country:	Spain
Certification Type:	FM Approved
Class of Work:	1920-Coupling & Fitting, All Type