

Plastic Pipe and Fittings

Plastic pipe and fittings are FM Approved for only aboveground wet pipe fire protection systems protecting a HC-1 hazard category (see Table 1 of FM Global Data Sheet 3-26, Fire Protection Water Demand for Non-storage Sprinklered Properties, for a listing of occupancies defined as HC-1). Except where noted otherwise, all pipe and fittings must be completely separated by nonremovable, fire resistant barriers from any area protected by the system. A nonremovable barrier cannot be removed without substantial cosmetic damage. A fire-resistant barrier has a minimum finish fire rating of 15 minutes when tested per ASTM E 119. Except for minimal exposure at a sprinkler connection, the intent is that the sprinkler system will not be exposed to a fire environment. Rated working pressure is 175 psi (1205 kPa) at 120°F (49°C). Manufacturer's installation instructions must be strictly followed to ensure proper performance. The use of these pipes and fittings is prohibited in areas where seismic protection is required. When used in hybrid sprinkler systems composed of steel and plastic piping please refer to steel pipe listings for acceptability.

BLAZEMASTER CPVC

BLAZEMASTER CPVC Schedule 40 and 80 fittings, joined by solvent cement using BM-5, TFP-500, FS-5 and FP-1000 One Step CPVC solvent cement. For joints using threaded fittings (plastic to plastic, metal to plastic) Teflon tape is recommended. Pressure rating is 175 psi (1205 kPa) at 150°F (66°C).

Approved for exposed use when all of the following criteria are met:

- Occupancy must be covered in Data Sheet 3-26, Fire Protection Water Demand for Non-storage Sprinklered Properties, Table 1, Hazard Category HC-1.
- Sprinklers must have quick response thermal sensing elements.
- Sprinkler systems must be wet pipe type.

Designation	Product Description	Nominal Pipe Size, in.
5011	Equal Tee (Soc x Soc x Soc)	3/4
	"	1
	"	1 1/4
	"	1 1/2
	"	2
	"	2 1/2
5011-R	Reducing Tee (Soc x Soc x Soc)	3/4 x 3/4 x 1
	"	1 x 3/4 x 3/4
	"	1 x 3/4 x 1
	"	1 x 1 x 3/4
	"	1 1/4 x 1 x 3/4
	"	1 1/4 x 1 x 1
	"	1 1/4 x 1 x 1 1/4
	"	1 1/4 x 1 1/4 x 3/4
	"	1 1/4 x 1 1/4 x 1
	"	1 1/4 x 1 1/4 x 1 1/2
	"	1 1/2 x 1 1/4 x 3/4
	"	1 1/2 x 1 1/4 x 1
	"	1 1/2 x 1 1/2 x 3/4
	"	1 1/2 x 1 1/2 x 1
	"	1 1/2 x 1 1/2 x 1 1/2

	"	1 1/2 x 1 1/2 x 2
	"	2 x 2 x 3/4
	"	2 x 2 x 1
	"	2 x 2 x 1 1/2
	"	2 1/2 x 2 1/2 x 1
	"	2 1/2 x 2 1/2 x 1 1/4
	"	2 1/2 x 2 1/2 x 1 1/2
	"	2 1/2 x 2 1/2 x 2
	"	3 x 3 x 1 1/2
	"	3 x 3 x 2 1/2
	"	3 x 3 x 2
5007	90° Elbow (Soc x Soc)	3/4
	"	1
	"	1 1/4
	"	1 1/2
	"	2
	"	2 1/2
	"	3
	"	1 x 3/4
5006	45° Elbow (Soc x Soc)	3/4
	"	1
	"	1 1/4
	"	1 1/2
	"	2
	"	2 1/2
	"	3
5001	Coupling (Soc x Soc)	3/4
	"	1
	"	1 1/4
	"	1 1/2
	"	2
	"	2 1/2
	"	3

5001-G	Grooved Adapter Coupling (Soc x Grv)	1-1/4
	"	1-1/2
	"	2
	"	2-1/2
	"	3
	"	2 x 1-1/12
5001-G-M	Grooved Adapter Coupling (Soc x Grv)	2-1/2 x 65 mm
5001-R	Reducing Coupling (Soc x Soc)	1 x 3/4
	"	1 1/4 x 1 1 1/2 x 3/4
	"	1 1/2 x 1
	"	1 1/2 x 1 1/4
	"	2 x 1
	"	2 x 1 1/2
5017	Cap (Soc)	3/4
	"	1
	"	1 1/4
	"	1 1/2
	"	2
	"	2 1/2
	"	3
5018	Reducing Bushing (Soc x Soc)	1 x 3/4
	"	1 1/4 x 3/4
	"	1 1/4 x 1
	"	1 1/2 x 3/4
	"	1 1/2 x 1
	"	1 1/2 x 1 1/4
	"	2 x 3/4
	"	2 x 1
	"	2 x 1 1/4
	"	2 x 1 1/2
	"	2 1/2 x 1 1/4
	"	2 1/2 x 1 1/2

	"	2 1/2 x 2
	"	3 x 2
	"	3 x 2 1/2
5018	Reducing Bushing (Spig x Soc)	2-1/2 x 1
	"	3 x 1-1/2
5018-S-BI	Reducing Bushing (Spig x Fipt)	1 x 1/2
5035	Cross (Soc x Soc x Soc x Soc)	3/4
	"	1
	"	1 1/4
	"	1-1/2
	"	2
	"	2-1/2
	"	3
	"	1 x 3/4 x 1 x 3/4
5051-H	Flange (Soc)	3/4
	"	1
	"	1 1/4
	"	1 1/2
	"	2
	"	2 1/2
	"	3
5019-H	Blind Flange (Soc)	3/4
	"	1
	"	1 1/4
	"	1 1/2
	"	2
	"	2 1/2
	"	3
5051-A	Van Stone Flange (Soc)	3
5051-2-A	Van Stone Flange (Spig)	3

5003-BI	Female Adapter with brass thread insert (Soc x Fipt)	3/4 1 1 1/4 1 1/2 2
5003-2-BI	Female Adapter with brass thread insert (Spig x Fipt)	3/4 1
5004-BI	Male Adapter with brass thread insert (Soc x Mipt)	3/4 1 1 1/4 1 1/2 2
5004-2-S-BI	Female Sprinkler Head Adapter with brass thread insert (Spig x Fipt)	3/4 x 1/2 1 x 1/2
5012-S-BI	Sprinkler Head Tee with brass thread insert (Soc x Soc x Fipt)	3/4 x 3/4 x 1/2 1 x 3/4 x 1/2 1 x 1 x 1/2
	"	1 x 1 x 1
	"	1 x 1/2 x 1
	"	1 1/4 x 1 1/4 x 1/2 1 1/2 x 1 1/2 x 1/2 "
	"	2 x 2 x 1/2
5012R-S-BI	Female Sprinkler Head Reducing Tee with brass thread insert (Soc x Soc x Fipt)	1 1/4 x 1 x 1/2 1 1/2 x 1 1/4 x 1/2 2 x 1 1/2 x 1/2
5007-3-S-BI	90° Sprinkler Head Elbow with brass thread insert (Soc x Fipt)	3/4 x 1/2 1 x 1/2 1 x 3/4 1 1/4 x 1/2
5003-S3BT	Female Adapter with brass thread insert	3/4 x 1/2 1 x 1/2
5003-S-BTT	Female Adapter with brass thread insert	3/4 x 1/2 1 x 1/2
5003-BI-BSP	Female Adapter with brass British thread insert	1 1-1/4 1-1/2 2
5033-E	CPVC Union (Soc x Soc)	3/4
	"	1
5033-E-3	CPVC Union (Soc x Fipt)	3/4
	"	1

Soc = Solvent Weld Socket
Spig = Spigot End
Fipt = Female Iron Pipe Thread
Mipt = Male Iron Pipe Thread
Grv = Grooved

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