

Plastic Pipe and Fittings

Plastic pipe and fittings are FM Approved for aboveground wet pipe fire protection systems for Light Hazard Occupancy sprinkler systems only. 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.

Spears FlameGuard CPVC SDR 13.5 Pipe and Schedule 40 and 80 fittings

Spears® FlameGuard™ CPVC SDR 13.5 Pipe and Schedule 40 and 80 fittings joined to by the solvent cement method using either of the following one-step solvent cements: Victaulic Model #899, Spears FS-5, IPEX BM-5, Central Sprinkler CSC-500, and Tyco TFP-500 CPVC. For joints using threaded fittings (plastic to plastic, plastic to metal), Spears Blue 75™ Thread Sealant is recommended. The pressure rating is 175 psi (1205 kPa) at 150°F (66°C).

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

1. Occupancy must be covered in Data Sheet 3-26, Fire Protection Water Demands for Nonstorage Sprinklered Properties, Table 2, Section L, Miscellaneous Non-manufacturing.
2. Sprinklers must have quick response thermal sensing elements.
3. Sprinkler systems must be wet pipe type.

<i>Designation</i>	<i>Product Description</i>	<i>Nominal Pipe Size, in.</i>
N/A	SDR 13.5 pipe	3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3
4201-007 4201-010 4201-012 4201-015 4201-020 4201-025 4201-030	Equal Tee (Soc x Soc x Soc)	3/4 1 1 1/4 1 1/2 2 2 1/2 3
4201-102 4201-125 4201-126 4201-131 4201-157 4201-158 4201-159 4201-167 4201-168 4201-169 4201-201 4201-202 4201-210 4201-211 4201-212 4201-213	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

<p>4201-248 4201-249 4201-251 4201-289 4201-290 4201-291 4201-338 4201-339</p>		<p>1/2 x 1 1 1/2 x 1 1/2 x 1 1/4 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 3 x 3 x 2 3 x 3 x 2 1/2</p>
<p>4202-101 4202-124 4202-130 4202-010 4202-156 4202-166 4202-199 4202-209 4202-237 4202-247</p>	<p>Sprinkler Head Tee (Soc x Soc x Brass FIPT)</p>	<p>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 1/4 x 1 x 1/2 1 1/4 x 1 1/4 x 1/2 1 1/2 x 1 1/4 x 1/2 1 1/2 x 1 1/2 x 1/2 2 x 1 1/2 x 1/2 2 x 2 x 1/2</p>
<p>4202-101SR 4202-124SR 4202-130SR 4202-010SR 4202-156SR 4202-166SR 4202-199SR 4202-209SR 4202-211SR 4202-237SR 4202-247SR</p>	<p>Sprinkler Head Tee (Soc x Brass FIPT x Soc)</p>	<p>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 1/4 x 1 x 1/2 1 1/4 x 1 1/4 x 1/2 1 1/2 x 1 1/4 x 1/2 1 1/2 x 1 1/2 x 1/2 1 1/2 x 1 1/2 x 1 2 x 1 1/2 x 1/2 2 x 2 x 1/2</p>
<p>4303-122</p>	<p>Sprinkler Head Tee (Soc x Brass FIPT x Soc)</p>	<p>1 x 1/2 x 1</p>

4203-122SR	Sprinkler Head Tee (Soc x SR FIPT x Soc)	1 x 1/2 x 1
4220-007 4220-010 4220-012 4220-015 4220-020 4220-025 4220-030	Equal Cross (All Socket)	3/4 1 1 1/4 1 1/2 2 2 1/2 3
4220-131	Reducing Cross (All Socket)	1 x 1 x 3/4 x 3/4
4206-007 4206-010 4206-012 4206-015 4206-020 4206-025 4206-030	90° Elbow (All Socket)	3/4 1 1 1/4 1 1/2 2 2 1/2 3
4206-131	Reducing 90° Elbow (All Socket)	1 x 3/4
4207-101 4207-130 4207-131 4207-166	Sprinkler Head 90° Elbow (Socket x Brass FIPT)	3/4 x 1/2 1 x 1/2 1 x 3/4 1 1/4 x 1/2
4207-101SR 4207-130SR 4207-131SR 4207-166SR	Sprinkler Head 90° Elbow (Socket x SR FIPT)	3/4 x 1/2 1 x 1/2 1 x 3/4 1 1/4 x 1/2
4217-007 4217-010 4217-012 4217-015 4217-020 4217-025 4217-030	45° Elbow (All Socket)	3/4 1 1 1/4 1 1/2 2 2 1/2 3
4229-007 4229-010 4229-012 4229-015 4229-020 4229-025 4229-030	Coupling (Soc x Soc)	3/4 1 1 1/4 1 1/2 2 2 1/2 3
4229-131 4229-167 4229-168 4229-210 4229-211 4229-212 4229-248 4229-249 4229-250 4229-251	Reducer Coupling (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

4229-291 4229-292		2 1/2 x 1 1/2 2 1/2 x 2
4237-131 4237-167 4237-168 4237-210 4237-211 4237-212 4237-248 4237-249 4237-250 4237-251 4237-290 4237-291 4237-292 4237-338 4237-339	Reducer Bushing (Spig 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
4233-012 4233-015 4233-020	Grooved Coupling Adapter (Grv x Soc)	1 1/4 1 1/2 2
4235-007 4235-010 4235-012 4235-015 4235-020	Female Adapters (Soc x brass FIPT)	3/4 1 1 1/4 1 1/2 2
4235-007SR 4235-010SR 4235-012SR	Female Adapters (Soc x SR FIPT)	3/4 1 1 1/4
4278-007 4278-010	Female Adapters (Spig x brass FIPT)	3/4 1
4278-007SR 4278-010SR	Female Adapters (Spig x SR FIPT)	3/4 1
4236-007 4236-010 4236-012 4236-015 4236-020	Male Adapter (Soc x Brass MIPT)	3/4 1 1 1/4 1 1/2 2
4247-007 4247-010 4247-012 4247-015 4247-020 4247-025 4247-030	Cap (Soc)	3/4 1 1 1/4 1 1/2 2 2 1/2 3

4235-130GS	Gasket Sealed Sprinkler Head Adapter (Socxbrass FIPT)	1 x 1/2
42001 42011	Adjustable Sprinkler Head Adapters (Soc x brass FIPT)	3/4 x 1/2 1 x 1/2
42001SR 42011SR	Adjustable Sprinkler Head Adapters (Soc x SR FIPT)	3/4 x 1/2 1 x 1/2
42004 42014	Adjustable Sprinkler Head Adapters (Spig x brass FIPT)	3/4 x 1/2 1 x 1/2
42004SR 42014SR	Adjustable Sprinkler Head Adapters (Spig x SR FIPT)	3/4 x 1/2 1 x 1/2
4251-007 4251-010 4251-012 4251-015 4251-020 4251-025 4254-030	4 Bolt Flange, ANSI 150 (Soc)	3/4 1 1 1/4 1 1/2 2 2 1/2 3
4256-007 4256-010 4256-012 4256-015 4256-020 4256-025 4256-030	4 Bolt Flange, ANSI 150 (Spig, Van Stone)	3/4 1 1 1/4 1 1/2 2 2 1/2 3
4253-007 4253-010 4253-012 4253-015 4253-020 4253-025 4253-030	4 Bolt Blind Flange, ANSI 150	3/4 1 1 1/4 1 1/2 2 2 1/2 3
4257-007 4257-010 4257-012 4257-015 4257-020	Union (Soc x Soc)	3/4 1 1 1/4 1 1/2 2

4259-007BR 4259-010BR 4259-012BR 4259-015BR 4259-020BR	Union (Soc x Brass FIPT)	3/4 1 1 1/4 1 1/2 2
L4235-130	Adapter, Sprinkler Head, Long Body (Soc x Brass FIPT)	1 x 1/2
R4235-101	Adapter, Sprinkler Head with Positioning Ring (Soc x Brass FIPT)	3/4 x 1/2
4235-101 4235-130 4235-131	Adapter, Sprinkler Head (Soc x Brass FIPT)	3/4 x 1/2 1 x 1/2 1 x 3/4
4235-101SR 4235-130SR Z4235-101SR Z4235-130SR 4235-131SR	Adapter, Sprinkler Head (Soc x SR FIPT)	3/4 x 1/2 1 x 1/2 3/4 x 1/2 1 x 1/2 1 x 3/4
4238-101SR 4238-130SR	Adapter, Sprinkler Head (Spig x SR FIPT)	3/4 x 1/2 1 x 1/2
4238-101 4238-130	Adapter, Sprinkler Head (Spig x Brass FIPT)	3/4 x 1/2 1 x 1/2
4243-074SR 4243-075SR	Tee, Reducing, Sidewall (SR FIPT x SR FIPT x Soc)	1/2 x 1/2 x 3/4 1/2 x 1/2 x 1
4221-101SR 4221-130SR 4221-131SR	Sprinkler Head Cross (Soc x SR FIPT)	3/4 x 1/2 1 x 1/2 1 x 3/4
4244-007 4244-010 4244-012 4244-015 4244-020	Street Tee (Spig x Soc x Soc)	3/4 1 1 1/4 1 1/2 2

4209-007		3/4
4209-010	90° Street	1
4209-012	Elbow	1 1/4
4209-015	(Spig x Soc)	1 1/2
4209-020		2

*Schedule 40 fittings. All other fittings are Schedule 80.

Slip = IPS Solvent Weld Socket

Spig = Spigot End

Fipt = Female Iron Pipe Thread

Mipt = Male Iron Pipe Thread

Company Name:	Spears Mfg Co
Company Address:	15853 Olden St, Sylmar, California 91342, USA
Company Website:	http://www.spearsmfg.com
Listing Country:	United States of America
Certification Type:	FM Approved