

## PIPES AND FITTINGS

### DESCRIPTION

Pipe and fittings used in Clean Agent System piping network must conform to the requirements as outlined in NFPA 2001, latest edition.

### PIPING MATERIALS

Piping materials must conform to the requirements as outlined in NFPA 2001, latest edition. The thickness of the piping wall shall be calculated in accordance with ASME B31.1 Power Piping Code. For Fike Clean Agent System, with 500 psig (24.8 bar) working pressure, use a minimum piping design pressure of 575 psig (39.7 bar) at 130°F (55°C). Black or galvanized steel pipe shall conform to ASTM A-53, Type E, F, or S, Grade A or B, or ASTM A-106, Type S, Grade A, B, or C. 1/2" to 6" Schedule 40 and Schedule 80 Threaded, Welded, and Cut Grooved or Rolled Grooved configurations are acceptable.

*Caution: Cast iron pipe, steel pipe conforming to ASTM A120, or nonmetallic pipe **SHALL NOT** be used.*



#### APPROVALS:

- UL Listed
- ULC Listed
- FM Approved





The following piping types and grades are acceptable for pipe configurations utilizing threaded, welded or grooved end connections:

Pipe Schedule	NPS Pipe Size	Wall Thickness	Grade / Type					
			A-106C	A-53B A-106B	A-63B	A-53A A-106A	A-53A	A-53F
			Seamless	Seamless	ERW	Seamless	ERW	Furnace
40	3/8	0.091	✓	✓	✓	✓	✓	✓
	1/2	0.109	✓	✓	✓	✓	✓	✓
	3/4	0.113	✓	✓	✓	✓	✓	✓
	1	0.133	✓	✓	✓	✓	✓	✓
	1 1/4	0.140	✓	✓	✓	✓	✓	✓
	1 1/2	0.145	✓	✓	✓	✓	✓	✓
	2	0.154	✓	✓	✓	✓	✓	✓
	2 1/2	0.203	✓	✓	✓	✓	✓	✓
	3	0.216	✓	✓	✓	✓	✓	✓
	4	0.237	✓	✓	✓	✓	✓	✓
6	0.280	✓	✓	✓	✓	✓	✓	

### FITTING MATERIALS

Fitting materials MUST conform to the requirements outlined in NFPA 2001, latest edition.

Fitting Size	Fitting Class
Up to 6" NPT	Class 300 malleable or ductile iron
All pipe sizes	Class 300 flanged

*Note: All grooved fittings must be UL Listed and conform to the pressure requirements outlined in NFPA 2001, latest edition. Cast Iron fittings are NOT acceptable*