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**GUIDELINE FOR DETERMINING THE MAXIMUM WORKING PRESSURE IN
 PSI, CALCULATIONS ARE BASED ON ASME B31.1 POWER PIPING CODE**

CONTINUOUS WELD PIPE ASTM A 53 TYPE F GRADE A, APL5L GRADE A25 PSL-1				
	SCHEDULE 40		SCHEDULE 80	
NPS	PLAIN END	THREADED	PLAIN END	THREADED
½	1750	750	2500	1400
¾	1450	650	2050	1150
1	1350	550	1900	1050
1 ¼	1100	500	1550	900
1 ½	1000	450	1400	850
2	850	400	1200	800
2 ¼	900	400	1250	750
3	800	400	1150	700
3 ¼	700	350	1050	650
4	650	350	950	650

ELECTRIC RESISTANCE WELD PIPE ASTM A-53 GRADE B & APISL GRADE B PSL-1				
	SCHEDULE 40		SCHEDULE 80	
NPS	PLAIN END	THREADED	PLAIN END	THREADED
1	2400	1000	3350	1900
1 ¼	2000	900	2800	1650
1 ½	1800	850	2500	1550
2	1500	750	2200	1400
2 ½	1650	750	2300	1350
3	1400	700	2000	1250
3 ½	1300	650	1850	1200
4	1200	650	1750	1150
5	1050	600	1550	1100
6	950	600	1500	1100
8	850	550	1350	1050

A SAFETY FACTOR SHOULD ALWAYS BE INCULDED WHEN USING THE ABOVE PRESSURES.
 WORKING PRESSURES ARE THEORETICAL; THE ACTUAL WORKING PRESSURE MAY VARY
 BASED ON DESIGN CALCULATIONS.

<u>Safety Factor</u>	<u>Multiplier</u>
5	0.80
6	0.67
7	0.57
8	0.50
9	0.44
10	0.40

A safety factor of 8 would be suitable for the majority of applications, local codes or specific applications may require a higher safety factor. A piping design engineer should be consulted for specific applications. To determine a safe working pressure using a safety factor, multiply the values found in the tables by one of the above multipliers.

Note:

- The pressures listed are based on ASME B31.1 Power Piping Code.
- No provision is made for abnormal or unusual conditions
- No allowance for the coupling design or limitations
- No allowance for the thinning of the pipe wall due to corrosion, bending etc.
- Temperature rating: -20 degrees to 400 degrees Fahrenheit.
- ERW or CW pipe may not be suitable for specific applications, consult a piping design engineer for specific applications.

LIGHT WALL SPRINKLER PIPE MAXIMUM WORKING PRESSURE

<u>Type</u>	<u>Maximum Pressure in PSI</u>
WST, Wheatland Super Tube	150
WLS, MEGA FLOW, MLT, GL, MEGA THREAD & SCH. 10	300

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