Wheatland Tube
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GUIDELINE FOR DETERMINING THE MAXIMUM WORKING PRESSURE IN PSI, CALCULATIONS ARE BASED ON 2020 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
1/4	2600	1150	3700	2100
3/8	2100	950	3000	1800
1/2	2000	850	2850	1600
3/4	1650	750	2350	1350
1	1550	650	2150	1200
1 ¼	1300	600	1750	1050
1 ½	1150	550	1600	1000
2	950	500	1400	900
2 ½	1050	500	1450	850
3	900	450	1300	800
3 ½	850	400	1200	800
4	750	400	1100	750
ELECTRIC RESISTANCE WELD PIPE ASTM A 53 GRADE B & API 5L GRADE B PSL 1				
	SCHEDULE 40		SCHEDULE 80	
NPS	PLAIN END	THREADED	PLAIN END	THREADED
2	1700	850	2500	1600
2 1/2	1900	850	2600	1550
3	1650	800	2300	1450
3 1/2	1500	750	2100	1400
4	1400	750	2000	1350
5	1200	700	1800	1300
6	1100	650	1750	1300
8	1000	650	1550	1200

A safety factor should always be included when using the above pressures. Working pressures are theoretical; The actual pressure may vary based on design calculations.

Safety Factor	Multiplier
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:

1. The pressures listed are based on the 2020 ASME B31.1 Power Piping Code.
2. No provision is made for abnormal or unusual conditions
3. No allowance for the coupling design or limitations
4. No allowance for the thinning of the pipe wall due to corrosion, bending etc.
5. Temperature rating: -20 degrees to 400 degrees Fahrenheit.
6. ERW or CW pipe may not be suitable for specific applications, consult a piping design engineer for specific applications.

SPRINKLER PIPE MAXIMUM WORKING PRESSURE

Type	Maximum Pressure in PSI
WLS, MEGA-FLOW, MLT, GL, MEGA-THREAD ----------→	300
Schedule 10 & Schedule 40 ----------→	Can be used with any UL Listed and/or FM approved rubber gasketed fittings rated higher than 300 psi. More information is available upon request.