

One Council Ave Wheatland, PA 16161 Ph: (800) 257-8182 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 1⁄2	1050	500	1450	850	
3	900	450	1300	800	
3 1/2	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	
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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 F	IPE MAXIMUM	WORKING PRESSURE
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Туре	Maximum Pressure in PSI
WLS, MEGA-FLOW, MLT, GL, MEGA-THREAD	→ 300
Schedule 10 & Schedule 40→	Can be used with any UL Listed rubber gasketed
	<mark>fittings rated higher than 300 psi.</mark>
	More information is available upon request.
All information contained bounds in a constant that	in a stand lighting M/b a stlend Tub a Osman surveys a

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