

The table below indicates maximum working pressure of carbon steel pipes manufactured according [ASME/ANSI B 36.10](#) and ASTM A53 B:

Carbon Steel Pipes - Working Pressure							
Nominal Size (inches)	Pipe Outside Diameter OD (inches)	Schedule Number or weight	Wall Thickness - t - (inches)	Inside Diameter - d - (inches)	Working Pressure ASTM A53 B to 400°F		
					Manu-facturing Process	Joint Type	psig
1/4	0.540	40ST	0.088	0.364	CW ¹⁾	T	188
		80XS	0.119	0.302	CW	T	871
3/8	0.675	40ST	0.091	0.493	CW	T	203
		80XS	0.126	0.423	CW	T	820
1/2	0.840	40ST	0.109	0.622	CW	T	214
		80XS	0.147	0.546	CW	T	753
3/4	1.050	40ST	0.113	0.824	CW	T	217
		80XS	0.154	0.742	CW	T	681
1	1.315	40ST	0.133	1.049	CW	T	226
		80XS	0.179	0.957	CW	T	642
1 1/4	1.660	40ST	0.140	1.380	CW	T	229
		80XS	0.191	1.278	CW	T	594
1 1/2	1.900	40ST	0.145	1.610	CW	T	231
		80XS	0.200	1.500	CW	T	576

2	2.375	40ST	0.154	2.067	CW	T	230
		80XS	0.218	1.939	CW	T	551
2 1/2	2.875	40ST	0.203	2.469	CW	W	533
		80XS	0.276	2.323	CW	W	835
3	3.500	40ST	0.216	3.068	CW	W	482
		80XS	0.300	2.900	CW	W	767
4	4.500	40ST	0.237	4.026	CW	W	430
		80XS	0.337	3.826	CW	W	695
6	6.625	40ST	0.280	6.065	ERW ²⁾	W	696
		80XS	0.432	5.761	ERW	W	1209
8	8.625	30	0.277	8.071	ERW	W	526
		40ST	0.322	7.981	ERW	W	643
		80XS	0.500	7.625	ERW	W	1106
10	10.75	30	0.307	10.136	ERW	W	485
		40ST	0.365	10.020	ERW	W	606
		XS	0.500	9.750	ERW	W	887
		80	0.593	9.564	ERW	W	1081
12	12.75	30	0.330	12.090	ERW	W	449
		ST	0.375	12.000	ERW	W	528

		40	0.406	11.938	ERW	W	583
		XS	0.500	11.750	ERW	W	748
		80	0.687	11.376	ERW	W	1076
14	14.00	30ST	0.375	13.250	ERW	W	481
		40	0.437	13.126	ERW	W	580
		XS	0.500	13.000	ERW	W	681
		80	0.750	12.500	ERW	W	1081
16	16.00	30ST	0.375	15.250	ERW	W	421
		40XS	0.500	15.000	ERW	W	596
18	18.00	ST	0.375	17.250	ERW	W	374
		30	0.437	17.126	ERW	W	451
		XS	0.500	17.000	ERW	W	530
		40	0.562	16.876	ERW	W	607
20	20.00	20ST	0.375	19.250	ERW	W	337
		30XS	0.500	19.000	ERW	W	477
		40	0.593	18.814	ERW	W	581

¹⁾ CW - continuous weld - a method of producing small diameter pipe (1/2-4")

²⁾ ERW - electric resistance weld - most common form of manufacture for pipe in sizes from 2 3/8-22" OD

- 1 in (inch) = 25.4 mm
- 1 psi (lb/in²) = 6,894.8 Pa (N/m²) = 6.895x10⁻² bar