



PAC STAINLESS LTD.

NATIONAL TEXAS LOUISIANA GEORGIA
WEB SITE

Phone (206) 824-7780 Toll Free 1-800-426-4258 Fax (206) 878-2475 Email sales@pacstainless.com
 Phone (713) 466-6160 Toll Free 1-800-535-0386 Fax (713) 466-6334 Email houston@pacstainless.com
 Phone (225) 751-8400 Toll Free 1-800-495-3272 Fax (225) 751-8401 Email batonrouge@pacstainless.com
 Phone (706) 654-4649 Toll Free 1-888-977-4722 Fax (706) 654-4651 Email atlanta@pacstainless.com
 www.pacstainless.com

STAINLESS STEEL PIPE

Theoretical Bursting Pressures and Weights

Upper Figures – Pressures in Pounds
 Lower Figures – Wall Thickness/Wt/Ft

Pipe Schedules

Size Pipe	O.D. in inches	5	10	40	STD.	80.	E.H.	160	DBLE. E.H.
1/8	.405	12,963	48,000	25,185	25,185	35,185	35,186		
		.035/.1383	.049/.1863	.068/.2447	.068/.2447	.095/.3145	.095/.3145		
1/4	.540	13,611	18,056	24,444	24,444	33,056	33,056		
		.049/.3270	.065/.3297	.086/.4248	.088/.4248	.119/.5351	.119/.5351		
3/8	.675	10,889	14,444	20,222	20,222	28,000	28,000		
		.049/.3276	.065/.4235	.091/.5676	.091/.5676	.126/.7388	.126/.7388		
1/2	.840	11,607	14,821	19,464	19,464	26,250	26,250	33,383	52,500
		.065/.5380	.083/.6710	.109/.8510	.109/.8510	.147/1.088	.147/1.088	.187/1.304	.294/1.714
3/4	1.050	9,286	11,857	16,143	16,143	22,000	22,000	31,143	44,000
		.065/.6838	.083/.8572	.113/1.131	.113/1.131	.154/1.474	.154/1.474	.218/1.937	.308/2.441
1	1.315	7,414	12,433	15,171	15,171	20,418	20,418	28,517	40,837
		.065/.8678	.109/1.404	.133/1.679	.133/1.679	.179/2.172	.179/2.172	.250/2.844	.358/3.659
1 1/4	1.660	5,873	9,849	12,651	12,651	17,259	17,259	22,590	34,518
		.065/1.107	.109/1.806	.140/2.273	.140/2.273	.191/2.997	.191/2.997	.250/3.765	.382/5.214
1 1/2	1.900	5,132	8,505	11,447	11,447	15,789	15,789	22,184	31,579
		.065/1.274	.109/2.085	.145/2.718	.145/2.718	.200/3.631	.200/3.631	.281/4.859	.400/6.408
2	2.375	4,105	6,884	9,726	9,726	13,768	13,768	21,663	27,537
		.065/1.604	.109/2.638	.154/3.653	.154/3.653	.218/5.022	.218/5.022	.343/7.444	.436/9.029
2 1/2	2.875	4,330	6,261	10,591	10,591	14,400	14,400	19,565	28,800
		.083/2.475	.120/3.531	.203/5.793	.203/5.793	.276/7.661	.276/7.661	.375/10.01	.552/13.69
3	3.5	3,557	5,143	9,257	9,257	12,857	12,857	18,771	25,714
		.083/3.029	.120/4.332	.216/7.576	.216/7.576	.300/10.25	.300/10.25	.438/14.32	.600/18.58
3 1/2	4.0	3,112	4,500	8,475	8,475	11,925	11,925		23,850
		.083/3.472	.120/4.973	.226/9.109	.226/9.109	.318/12.50	.318/12.50		.636/22.85
4	4.5	2,767	4,000	7,900	7,900	11,233	11,233	17,700	22,467
		.083/3.915	.120/5.613	.237/10.79	.237/10.79	.337/14.98	.337/14.98	.531/22.51	.674/27.54
5	5.563	2,939	3,613	6,957	6,957	10,111	10,111	16,852	20,223
		.109/6.349	.134/7.770	.258/14.62	.258/14.62	.375/20.78	.375/20.78	.625/32.96	.75/38.55
6	6.625	2,468	3,034	6,340	6,340	9,781	9,781	16,257	19,562
		.109/7.585	.134/9.289	.280/18.97	.280/18.97	.432/28.57	.432/28.57	.718/45.30	.864/53.16
8	8.625	1,896	2,574	5,600	5,600	8,696	8,696	15,756	15,217
		.1099.914	.148/13.40	.322/28.55	.322/28.55	.500/43.39	.500/43.39	.906/74.69	.875/72.42
10	10.75	1,870	2,302	5,093	5,093	8,274	6,977		
		.134/15.19	.165/18.70	.365/40.48	.365/40.48	.593/64.33	.500/54.74		
12	12.75	1,941	2,118	4,776	4,412	8,082	5,882		
		.156/20.93	.180/24.16	.406/53.52	.375/49.56	.687/88.51	.500/65.42		
14	14.0		2,679	4,693	4,018	8,036	5,357		
			.250/36.71	.438/63.37	.375/54.57	.750/106.1	.500/72.09		
16	16.0		2,344	4,688	3,516	7,903	4,688		
			.250/42.05	.500/82.77	.375/62.58	.843/136.5	.500/82.77		
18	18.0		2,083	4,683	3,125	7,808	4,167		
			.250/47.39	.562/104.8	.375/70.59	.937/170.8	500/93.45		
20	20.0		1,875	4,448	2,812	7,733	3,750		
			.250/52.73	.593/122.9	.375/78.60	1.031/208.9	500/104.1		
24	24.0		1,563	4,294	2,344	7,613	3,125		
			.250/63.41	.687/171.2	.375/94.62	1.218/296.4	500/125.5		

Working pressures for T304/L and T316/L A312 pipe between -20°F and 100°F.

The A.S.M.E. code suggests a safety factor of four. E.G. 1" SCH40 = 3793 P.S.I.

For higher temperatures multiply working pressure by:

	300°F	500°F	1000°F
T304/L	.828	.744	.665
T316/L	.900	.853	.746