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STAINLESS STEEL WELDED / SEAMLESS PIPE

DIMENSION AND WEIGHT



DIMENSIONS

unit : inch / lb

SCHEDULE	5S	10S	40S	80S	10	20	30	40	60	80	100	120	140	160	STD	XS	XXS
SIZE O.D.	Wall/In Wgt/Ft																
1/4" 0.540			0.088 0.43	0.119 0.54				0.088 0.43		0.119 0.54					0.088 0.43	0.119 0.54	
3/8" 0.675			0.091 0.57	0.126 0.76				0.091 0.57		0.126 0.76					0.091 0.57	0.126 0.76	
1/2" 0.840	0.065 0.54	0.083 0.68	0.109 0.86	0.147 1.10			0.095 0.76	0.109 0.86		0.147 1.10				0.188 1.32	0.109 0.86	0.147 1.10	0.294 1.73
3/4" 1.050	0.065 0.69	0.083 0.87	0.113 1.14	0.154 1.49			0.095 0.98	0.113 1.14		0.154 1.49				0.219 1.96	0.113 1.14	0.154 1.49	0.308 2.46
1" 1.315	0.065 0.88	0.109 1.42	0.133 1.69	0.179 2.19			0.114 1.48	0.133 1.69		0.179 2.19				0.250 2.87	0.133 1.69	0.179 2.19	0.358 3.69
1 1/4" 1.660	0.065 1.12	0.109 1.82	0.140 2.29	0.191 3.02			0.117 1.95	0.140 2.29		0.191 3.02				0.250 3.80	0.140 2.29	0.191 3.02	0.382 5.26
1 1/2" 1.900	0.065 1.29	0.109 2.10	0.145 2.74	0.200 3.67			0.125 2.39	0.145 2.74		0.200 3.67				0.281 4.90	0.145 2.74	0.200 3.67	0.400 6.47
2" 2.375	0.065 1.62	0.109 2.66	0.154 3.69	0.218 5.07			0.125 3.03	0.154 3.69		0.218 5.07				0.344 7.53	0.154 3.69	0.218 5.07	0.436 9.11
2 1/2" 2.875	0.083 2.50	0.120 3.56	0.203 5.85	0.276 7.73			0.188 5.45	0.203 5.85		0.276 7.73				0.375 10.11	0.203 5.85	0.276 7.73	0.552 13.82
3" 3.500	0.083 3.06	0.120 4.37	0.216 7.65	0.300 10.35			0.188 6.71	0.216 7.65		0.300 10.35				0.438 14.46	0.216 7.65	0.300 10.35	0.600 18.76
3 1/2" 4.000	0.083 3.50	0.120 5.02	0.226 9.19	0.318 12.62			0.188 7.73	0.226 9.19		0.318 12.62					0.226 9.19	0.318 12.62	
4" 4.500	0.083 3.95	0.120 5.67	0.237 10.89	0.337 15.12			0.188 8.74	0.237 10.89		0.337 15.12		0.438 19.18		0.531 22.72	0.237 10.89	0.337 15.12	0.674 27.8
5" 5.563	0.109 6.41	0.134 7.84	0.258 14.75	0.375 20.97				0.258 14.75		0.375 20.97		0.500 27.29		0.625 33.27	0.258 14.75	0.375 20.97	0.750 38.91
6" 6.625	0.109 7.66	0.134 9.38	0.280 19.15	0.432 28.84				0.280 19.15		0.432 28.84		0.562 36.73		0.719 45.78	0.280 19.15	0.432 28.84	0.864 53.66
8" 8.625	0.109 10.01	0.148 13.52	0.322 28.82	0.500 43.79		0.250 22.57	0.277 24.93	0.322 28.82	0.405 35.97	0.500 43.79	0.594 51.43	0.719 61.28	0.812 68.39	0.906 75.39	0.322 28.82	0.500 43.79	0.875 73.1
10" 10.750	0.134 15.34	0.165 18.83	0.365 40.86	0.500 55.25		0.250 28.3	0.307 34.56	0.365 40.86	0.500 55.25	0.594 65.03	0.719 77.75	0.844 90.13	1.000 105.11	1.125 116.73	0.365 40.86	0.500 55.25	1.000 105.11
12" 12.750	0.156 21.18	0.180 24.39	0.375 50.03	0.500 66.03		0.250 33.69	0.330 44.18	0.406 54.03	0.562 73.84	0.688 89.46	0.844 108.32	1.000 126.67	1.125 140.98	1.312 161.77	0.375 50.03	0.500 66.03	1.000 126.67
14" 14.000	0.156 23.28	0.188 27.99	*	**	0.250 37.06	0.312 46.04	0.375 55.08	0.438 64.03	0.594 85.84	0.750 107.13	0.938 132.08	1.094 152.2	1.250 171.81	1.406 190.88	0.375 55.08	0.500 72.77	
16" 16.000	0.165 28.17	0.188 32.05	*	**	0.250 42.45	0.312 52.76	0.375 63.16	0.500 83.55	0.656 108.51	0.844 137.89	1.031 166.37	1.219 194.23	1.438 225.73	1.594 247.54	0.375 63.16	0.500 83.55	
18" 18.000	0.165 31.72	0.188 36.10	*	**	0.250 47.84	0.312 59.49	0.438 82.92	0.562 105.65	0.750 139.47	0.938 172.52	1.156 209.9	1.375 246.42	1.562 276.79	1.781 311.39	0.375 71.25	0.500 94.33	
20" 20.000	0.188 40.15	0.218 46.49	*	**	0.250 53.23	0.375 79.33	0.500 105.11	0.594 124.26	0.812 167.96	1.031 210.82	1.281 258.49	1.500 299.15	1.750 344.29	1.969 382.72	0.375 79.33	0.500 105.11	
24" 24.000	0.218 55.89	0.250 64.01	*	**	0.250 64.01	0.375 95.50	0.562 142.00	0.688 172.9	0.969 240.58	1.219 299.36	1.531 370.83	1.812 433.41	2.062 487.65	2.344 547.21	0.375 95.50	0.500 126.67	
30" 30.000	0.250 80.18	0.312 99.85	*	**	0.312 98.85	0.500 159.01	0.625 197.91								0.375 119.76	0.500 159.01	
36" 36.000					0.312 120.03	0.500 191.35	0.625 238.34	0.750 285.00							0.375 144.01	0.500 191.35	

Highlighted Produced by Ta Chen Stainless Pipe Co, Ltd. *SEE STD WALL **SEE XS WALL

STAINLESS STEEL WELDED PIPE

TYPE 304L SCHEDULES 5S, 10S ALLOWABLE WORKING PRESSURE

ALLOWABLE WORKING PRESSURES FOR A-312 WELDED PIPE

TYPE 304L Schedules 5S, 10S

TEMPERATURE °F.			- 425 to 300	400	500	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	
MAX. STRESS			16700	15800	14800	14000	13700	13500	13300	13000	12800	11900	9900	7800	6300	5100	4000	3200	2600	2100	1700	1100	1000	900	
NOM. PIPE SIZE	SCH. NO.	NOM. WALL.	ALLOWABLE WORKING PRESSURES PSIG																						
			½	5S 10S	.065 .083	1809 2310	1712 2186	1603 2047	1517 1937	1484 1695	1463 1868	1441 1840	1408 1798	1387 1771	1289 1646	1073 1370	845 1079	683 872	553 706	433 553	347 443	282 360	226 291	184 235	119 152
¾	5S 10S	.065 .083	1447 1848	1389 1749	1283 1636	1213 1549	1187 1516	1170 1494	1153 1472	1127 1439	1109 1417	1031 1317	858 1096	676 863	546 697	442 564	347 443	277 354	225 288	182 232	147 188	95 122	87 111	78 100	
1	5S 10S	.065 .109	1156 1938	1093 1834	1024 1717	969 1625	948 1590	934 1567	920 1543	900 1509	886 1485	823 1381	835 1149	540 905	436 731	353 592	277 464	221 371	180 302	145 244	118 197	76 128	69 116	62 104	
1¼	5S 10S	.065 .109	915 1535	888 1452	811 1361	767 1287	751 1259	740 1241	729 1223	713 1195	702 1177	652 1094	543 910	426 717	345 579	280 469	219 368	175 294	143 239	115 193	93 156	60 101	55 92	49 83	
1½	5S 10S	.065 .109	800 1341	757 1269	709 1189	671 1124	656 1100	647 1064	637 1068	623 1044	613 1028	570 956	474 795	374 626	302 506	244 410	192 321	153 257	125 209	101 169	81 137	53 88	48 60	43 72	
2	5S 10S	.065 .109	640 1073	605 1015	587 951	538 900	525 880	517 867	510 855	498 835	490 822	456 765	379 636	299 501	241 405	195 328	153 257	123 206	100 167	80 135	65 109	42 71	38 64	34 58	
2½	5S 10S	.083 .120	675 976	639 923	598 865	566 818	554 801	546 789	538 777	525 760	517 748	481 695	400 579	315 456	255 388	206 298	162 234	129 187	105 152	85 123	69 99	44 64	40 58	36 53	
3	5S 10S	.083 .120	554 802	525 758	491 710	465 672	455 658	448 648	442 638	432 624	425 614	395 571	329 475	259 374	209 302	169 245	133 192	106 154	86 125	70 101	56 82	37 53	33 48	30 43	
3½	5S 10S	.083 .120	485 701	459 664	430 622	407 588	398 575	392 567	386 559	378 546	372 538	346 500	288 416	227 328	183 265	148 214	116 168	93 134	76 109	61 88	49 71	32 46	29 42	26 38	
4	5S 10S	.083 .120	431 623	408 590	382 553	362 523	354 511	349 504	343 497	336 485	331 478	307 444	256 370	201 291	163 235	132 190	103 149	83 119	67 97	54 78	44 63	28 41	26 37	23 34	
5	5S 10S	.109 .134	458 583	433 533	406 499	384 472	376 462	370 455	365 449	357 438	351 432	326 401	272 334	214 263	173 212	140 172	110 135	88 108	71 88	58 71	47 57	30 37	27 34	25 30	
6	5S 10S	.109 .134	385 473	364 447	341 419	322 396	316 388	311 362	306 377	299 368	295 362	274 337	228 260	180 221	145 178	117 144	92 113	74 91	60 74	48 59	39 48	25 31	23 28	21 25	
8	5S 10S	.109 .148	295 401	280 380	262 356	248 336	242 329	239 324	235 320	230 312	226 307	211 286	175 238	138 187	111 151	90 123	71 96	57 77	46 62	37 50	30 41	19 26	18 24	16 22	
10	5S 10S	.134 .165	291 359	278 340	258 318	244 301	239 294	236 290	232 286	227 279	223 275	208 256	173 213	138 168	110 135	89 110	70 86	58 69	45 56	37 45	30 37	19 24	17 21	16 19	
12	5S 10S	.156 .180	286 330	271 312	254 293	240 277	235 271	231 267	228 263	223 257	219 253	204 235	170 196	134 154	108 125	87 101	69 79	55 63	45 51	36 42	29 34	19 22	17 20	15 18	
14	5S 10S	.156 .188	261 314	246 297	231 276	218 263	214 258	211 254	207 250	203 244	200 241	186 224	154 186	122 147	98 118	80 96	62 75	50 60	41 49	33 39	27 32	17 21	16 19	14 17	
16	5S 10S	.165 .188	241 275	228 260	214 243	202 230	198 225	195 222	192 219	188 214	185 211	172 196	143 163	113 128	91 104	74 84	58 66	46 53	38 43	30 35	25 28	16 18	14 16	13 15	
18	5S 10S	.165 .188	214 244	203 231	190 216	180 205	176 200	173 197	171 194	167 190	164 187	153 174	127 145	100 114	81 92	65 75	51 58	41 47	33 38	27 31	22 25	14 16	13 15	12 13	
20	5S 10S	.188 .218	220 255	208 241	195 226	184 214	180 209	178 206	175 203	171 198	168 195	157 182	130 151	106 119	83 96	67 78	53 61	42 49	34 40	28 32	22 26	14 17	13 15	12 14	
24	5S 10S	.218 .250	212 244	201 230	188 216	178 204	174 200	172 197	169 194	165 190	163 187	151 174	126 144	99 114	80 92	65 74	51 58	41 47	33 38	27 31	22 25	14 16	13 15	11 13	

The Allowable Stress Values used are as shown in Appendix "A" of ANSI B31.3-1993 for welded pipe to ASTM A-312 having a weld joint factor of .80.
Allowable Working Pressures shown for each size reflect the minus 12½% manufacturers wall tolerance.

STAINLESS STEEL WELDED PIPE

TYPE 304 SCHEDULE 10S ALLOWABLE WORKING PRESSURE

ALLOWABLE WORKING PRESSURES FOR A-312 WELDED PIPE

TYPE 304 Schedule 10S

TEMPERATURE °F.			- 425 to 300	400	500	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
MAX. STRESS			20000	18700	17500	16400	16200	16000	15600	15200	14900	14600	14400	13800	12200	9700	7700	6000	4700	3700	2900	2300	1800	1400
NOM. PIPE SIZE	SCH. NO.	NOM. WALL.	ALLOWABLE WORKING PRESSURES PSIG																					
			½	10S	.083	2767	2587	2421	2269	2241	2213	2158	2103	2061	2020	1992	1909	1688	1342	1065	830	650	512	401
¾	10S	.083	2213	2069	1937	1815	1793	1771	1726	1682	1649	1616	1594	1527	1350	1073	852	664	520	409	321	255	199	155
1	10S	.109	2321	2170	2031	1903	1880	1857	1810	1764	1729	1694	1671	1601	1416	1126	894	696	545	429	337	267	209	162
1¼	10S	.109	1839	1719	1609	1508	1489	1471	1434	1397	1370	1342	1324	1269	1122	892	708	552	432	340	267	211	165	129
1½	10S	.109	1606	1502	1406	1317	1301	1285	1253	1221	1197	1173	1157	1108	980	779	618	482	377	297	233	185	145	112
2	10S	.109	1265	1202	1124	1054	1041	1028	102	977	957	938	925	887	784	623	495	386	302	238	166	148	116	90
2½	10S	.120	1169	1093	1023	958	947	935	912	888	871	853	841	806	713	567	450	351	275	216	169	134	105	82
3	10S	.120	960	898	840	787	778	768	749	730	715	701	691	662	586	466	370	288	226	178	139	110	86	67
3½	10S	.120	840	785	735	689	680	672	655	638	626	613	605	580	512	407	323	252	197	155	122	97	76	59
4	10S	.120	747	698	653	612	605	597	582	567	556	545	538	515	455	362	287	224	175	138	106	86	67	52
5	10S	.134	674	631	590	553	548	540	526	513	502	492	486	465	411	327	260	202	158	125	98	78	61	47
6	10S	.134	566	530	496	464	459	453	442	430	422	413	406	391	345	275	218	170	133	105	82	65	51	40
8	10S	.148	480	449	420	394	389	384	375	365	358	351	346	332	293	233	185	144	113	89	70	55	43	34
10	10S	.165	430	402	376	352	348	344	335	327	320	314	309	297	262	208	165	129	101	80	62	49	39	30
12	10S	.180	395	370	346	324	320	316	308	300	294	289	285	273	241	192	152	119	93	73	57	45	36	28
14	10S	.188	376	352	329	308	305	301	293	288	280	274	271	259	229	182	145	113	88	70	55	43	34	26
16	10S	.188	329	308	268	270	266	263	257	250	245	240	237	227	201	160	127	99	77	61	48	38	30	23
18	10S	.188	292	273	256	240	237	234	228	222	218	213	211	202	178	142	113	88	69	54	42	34	26	20
20	10S	.218	305	285	267	250	247	244	238	232	227	223	220	211	186	148	118	92	72	56	44	35	27	21
24	10S	.250	292	273	255	239	236	233	228	222	217	213	210	201	178	141	112	88	69	54	42	34	26	20

The Allowable Stress Values used are as shown in Appendix "A" of ANSI B31.3-1993 for welded pipe to ASTM A-312 having a weld joint factor of .80.

The Stress Values at all temperatures above 1000F apply only when the carbon is 0.04% or higher.



STAINLESS STEEL WELDED PIPE

TYPE 304L SCHEDULES 40S, 80S ALLOWABLE WORKING PRESSURE

ALLOWABLE WORKING PRESSURES FOR A-312 WELDED PIPE

TYPE 304L Schedules 40S, 80S

TEMPERATURE °F.			- 425 to 300	400	500	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	
MAX. STRESS			16700	15800	14800	14000	13700	13500	13300	13000	12800	11900	9900	7800	6300	5100	4000	3200	2600	2100	1700	1100	1000	900	
NOM. PIPE SIZE	SCH. NO.	NOM. WALL.	ALLOWABLE WORKING PRESSURES PSIG																						
			1/2	40S	.109	3034	2870	2689	2543	2489	2453	2146	2362	2325	2162	1799	1417	1145	927	727	581	472	382	309	200
	80S	.147	4092	3871	3626	3430	3357	3308	3259	3185	3136	2916	2426	1911	1544	1250	980	784	637	515	417	270	245	221	
3/4	40S	.113	2516	2381	2230	2109	2064	2034	2004	1959	1929	1793	1492	1175	949	768	603	482	392	316	256	166	151	136	
	80S	.154	3429	3244	3039	2875	2813	2772	2731	2669	2628	2443	2033	1602	1294	1047	821	657	534	431	349	226	205	185	
1	40S	.133	2365	2237	2096	1962	1940	1912	1863	1841	1812	1685	1402	1104	892	722	566	453	368	297	241	156	142	127	
	80S	.179	3183	3011	2820	2668	2611	2573	2535	2477	2439	2268	1887	1486	1201	972	762	610	495	400	324	210	191	172	
1 1/4	40S	.140	1972	1866	1747	1653	1618	1594	1570	1535	1511	1405	1169	921	744	602	472	376	307	248	201	130	118	106	
	80S	.191	2690	2545	2384	2255	2207	2175	2142	2094	2062	1917	1595	1256	1015	822	644	515	419	338	274	177	161	145	
1 1/2	40S	.145	1784	1688	1561	1496	1464	1442	1421	1389	1368	1271	1058	833	673	545	427	342	278	224	182	118	107	96	
	80S	.200	2461	2328	2181	2063	2019	1989	1960	1916	1886	1754	1459	1149	928	752	589	472	383	309	251	162	147	133	
2	40S	.154	1516	1434	1344	1271	1244	1226	1207	1180	1162	1080	899	708	572	463	363	290	236	191	154	100	91	82	
	80S	.218	2146	2030	1902	1799	1761	1735	1709	1671	1645	1529	1272	1002	810	655	514	411	334	270	218	141	129	116	
2 1/2	40S	.203	1651	1562	1463	1384	1354	1335	1315	1285	1265	1176	979	771	623	504	395	316	257	208	168	109	99	89	
	80S	.276	2244	2124	1989	1882	1841	1814	1788	1747	1720	1599	1331	1048	847	685	538	430	349	282	228	148	134	121	
3	40S	.216	1443	1365	1279	1210	1184	1166	1149	1123	1106	1028	855	674	544	441	348	276	225	181	147	95	86	78	
	80S	.300	2004	1896	1776	1680	1644	1620	1596	1560	1536	1428	1188	938	756	612	480	384	312	252	204	132	120	108	
3 1/2	40S	.226	1321	1250	1171	1107	1084	1068	1052	1028	1012	941	783	617	498	403	316	253	206	166	134	87	79	71	
	80S	.318	1859	1759	1647	1558	1525	1503	1460	1447	1425	1324	1102	868	701	568	445	356	289	234	169	122	111	100	
4	40S	.237	1231	1165	1091	1032	1010	995	981	959	944	877	730	575	465	376	295	236	192	155	125	81	74	66	
	80S	.337	1751	1657	1552	1468	1436	1415	1394	1363	1342	1248	1038	818	661	535	419	336	273	220	178	115	105	94	
5	40S	.258	1084	1026	961	909	890	877	864	844	831	773	643	506	409	331	260	208	169	136	110	71	65	58	
	80S	.375	1576	1491	1397	1321	1293	1274	1255	1227	1208	1123	934	738	595	481	377	302	245	198	160	104	94	85	
6	40S	.280	988	935	876	828	811	799	787	769	757	704	586	462	373	302	237	189	154	124	101	65	59	53	
	80S	.432	1525	1442	1351	1278	1251	1232	1214	1187	1169	1086	904	712	575	466	365	292	237	192	155	100	91	82	
8	40S	.322	873	826	774	732	716	706	695	679	669	622	517	408	329	267	209	167	136	110	89	57	52	47	
	80S	.500	1355	1262	1201	1136	1112	1096	1079	1055	1039	966	803	633	511	414	325	260	211	170	138	89	81	73	
10	40S	.385	794	751	704	665	651	642	632	618	608	586	471	371	299	242	190	152	124	100	81	52	48	43	
	80S	.500	1087	1029	984	912	892	879	866	847	833	775	645	508	410	332	260	208	169	137	111	72	65	59	
12	40S	.375	688	651	609	576	564	556	548	535	527	490	408	321	259	210	165	132	107	86	70	45	41	37	
	80S	.500	917	867	813	769	752	741	730	714	703	653	544	428	346	280	220	176	143	115	93	60	55	49	
14	40S	.375	626	593	555	525	514	506	499	488	480	446	371	293	236	191	150	120	98	79	64	41	38	34	
	80S	.500	835	790	740	700	685	675	665	650	640	595	495	390	315	255	200	160	130	105	85	55	50	45	
16	40S	.375	548	518	486	459	450	443	438	427	420	390	325	256	207	167	131	105	85	69	56	36	33	30	
	80S	.500	731	691	648	613	599	591	582	569	560	521	433	341	276	223	175	140	114	92	74	48	44	39	
18	40S	.375	487	461	432	408	400	394	388	379	373	347	289	228	184	149	117	93	76	61	50	32	29	26	
	80S	.500	649	614	576	544	533	525	517	506	498	463	385	303	245	198	156	124	101	82	66	43	39	35	
20	40S	.375	438	415	389	368	360	354	349	341	336	312	260	205	165	134	105	84	68	55	45	29	26	24	
	80S	.500	585	553	518	490	480	473	466	455	448	417	347	273	221	179	140	112	91	74	60	39	35	32	
24	40S	.375	365	346	324	306	300	295	291	284	280	260	217	171	138	112	88	70	57	46	37	24	22	20	
	80S	.500	487	461	432	408	400	394	388	379	373	347	289	228	184	149	117	93	76	61	50	32	29	26	

The Allowable Stress Values used are as shown in Appendix "A" of ANSI B31.3-1993 for welded pipe to ASTM A-312 having a weld joint factor of .80.
Allowable Working Pressures shown for each size reflect the minus 12½% manufacturers wall tolerance.

STAINLESS STEEL WELDED PIPE

TYPE 304 SCHEDULES 40S, 80S ALLOWABLE WORKING PRESSURE

ALLOWABLE WORKING PRESSURES FOR A-312 WELDED PIPE

TYPE 304 Schedules 40S, 80S

TEMPERATURE °F.			- 425 to 300	400	500	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	
MAX. STRESS			20000	18700	17500	16400	16200	16000	15600	15200	14900	14600	14400	13800	12200	9700	7700	6000	4700	3700	2900	2300	1800	1400	
NOM. PIPE SIZE	SCH. NO.	NOM. WALL.	ALLOWABLE WORKING PRESSURES PSIG																						
			½	40S 80S	.109 .147	3633 4900	3397 4582	3179 4288	2979 4018	2943 3969	2907 3920	2834 3822	2761 3724	2707 3651	2652 3577	2618 3528	2507 3381	2216 2989	1762 2377	1399 1887	1090 1470	854 1152	672 907	527 711	418 564
¾	40S 80S	.113 .154	3013 4107	2617 3840	2637 3593	2471 3387	2441 3326	2411 3285	2350 3203	2290 3121	2245 3059	2200 2998	2170 2957	2079 2834	1838 2505	1461 1992	1160 1581	904 1232	708 965	557 760	437 595	347 472	271 370	211 287	
1	40S 80S	.133 .179	2832 3811	2648 3584	2478 3335	2322 3125	2294 3087	2266 3049	2209 2973	2152 2897	2110 2839	2067 2782	2039 2744	1954 2630	1727 2325	1373 1849	1090 1467	850 1143	666 898	524 705	411 553	326 438	255 343	198 267	
1¼	40S 80S	.140 .191	2361 3222	2208 3012	2066 2819	1936 2642	1913 2610	1889 2577	1842 2513	1795 2448	1759 2400	1724 2352	1700 2320	1629 2223	1440 1965	1145 1563	909 1240	708 967	555 757	437 596	342 467	272 370	213 290	165 226	
1½	40S 80S	.145 .200	2137 2947	1996 2758	1870 2579	1752 2417	1731 2387	1709 2358	1667 2299	1624 2240	1592 2196	1560 2152	1539 2122	1474 2034	1303 1798	1036 1429	823 1135	641 884	502 693	395 545	310 427	246 339	192 265	150 206	
2	40S 80S	.154 .218	1816 2570	1693 2403	1589 2249	1489 2107	1471 2082	1452 2058	1416 2005	1380 1953	1353 1915	1325 1876	1307 1850	1253 1773	1108 1588	881 1247	699 989	545 771	427 604	336 475	263 373	209 296	163 231	127 180	
2½	40S 80S	.203 .276	1977 2888	1849 2513	1730 2352	1621 2204	1601 2177	1582 2150	1542 2097	1503 2043	1473 2003	1443 1962	1423 1935	1384 1855	1206 1640	959 1304	761 1035	593 806	465 632	368 497	287 390	227 309	178 242	138 188	
3	40S 80S	.216 .300	1728 2400	1616 2244	1512 2100	1417 1988	1400 1944	1362 1920	1348 1872	1313 1824	1287 1788	1261 1752	1244 1728	1192 1658	1054 1464	838 1164	665 924	518 720	406 564	320 444	251 348	199 276	158 218	121 168	
3½	40S 80S	.226 .318	1562 2226	1479 2081	1364 1948	1297 1825	1261 1803	1266 1781	1234 1738	1202 1692	1179 1658	1155 1625	1139 1603	1092 1538	965 1358	767 1080	609 857	475 666	372 523	293 412	229 323	182 256	142 200	111 156	
4	40S 80S	.237 .337	1475 2097	1379 1961	1290 1835	1209 1719	1194 1698	1180 1678	1150 1636	1121 1594	1099 1562	1077 1531	1062 1510	1018 1447	900 1279	715 1017	588 807	442 629	347 493	273 388	214 304	170 241	133 169	103 147	
5	40S 80S	.258 .375	1299 1667	1214 1765	1136 1652	1065 1548	1052 1529	1039 1510	1013 1472	987 1434	967 1406	948 1378	935 1359	896 1302	792 1151	630 915	500 727	390 566	305 444	240 349	188 274	149 217	117 170	91 132	
6	40S 80S	.280 .432	1183 1628	1106 1707	1035 1596	970 1497	959 1479	947 1461	923 1424	899 1368	882 1360	884 1333	852 1315	817 1260	722 1114	574 886	456 703	355 546	278 429	219 338	172 265	136 210	107 164	83 128	
8	40S 80S	.322 .500	1045 1623	977 1518	915 1420	857 1331	847 1315	836 1299	815 1266	794 1234	779 1209	763 1185	753 1169	721 1120	638 990	507 787	402 625	314 487	246 381	193 300	152 235	120 187	94 146	73 114	
10	40S 80S	.385 .500	951 1302	889 1218	832 1140	780 1068	770 1055	761 1042	742 1016	723 990	708 970	694 951	685 938	658 899	580 794	461 632	386 501	285 391	223 306	176 241	138 189	109 150	86 117	67 91	
12	40S 80S	.375 .500	824 1098	770 1027	721 961	675 900	667 669	659 676	642 856	626 835	61 818	601 802	593 791	568 758	502 670	399 533	317 423	247 329	194 258	152 203	119 159	95 126	74 99	58 77	
14	40S 80S	.375 .500	750 1000	701 935	656 875	615 820	608 810	600 800	585 780	570 760	559 745	548 730	540 720	518 690	458 610	364 485	289 385	225 300	178 235	139 185	109 145	86 115	68 90	53 70	
16	40S 80S	.375 .500	656 875	614 818	574 766	538 718	532 709	525 700	512 683	499 665	489 652	479 639	473 630	453 604	400 534	318 424	253 337	197 263	154 206	121 162	95 127	75 101	59 79	46 61	
18	40S 80S	.375 .500	583 778	545 727	510 681	478 638	473 630	467 622	455 607	443 591	435 579	426 568	420 560	403 537	358 474	263 377	225 299	175 233	137 183	106 144	85 113	67 89	53 70	41 54	
20	40S 80S	.375 .500	525 700	491 655	459 613	431 574	425 587	420 560	410 548	399 532	391 522	383 511	378 504	362 483	320 427	255 340	202 270	158 210	123 165	97 130	76 102	60 81	47 63	37 49	
24	40S 80S	.375 .500	438 583	409 545	383 510	359 478	354 473	350 467	341 455	333 443	328 435	319 426	315 420	302 403	267 358	212 283	168 225	131 175	103 137	81 108	63 85	50 67	39 53	31 41	

The Allowable Stress Values used are as shown in Appendix "A" of ANSI B31.3-1993 for welded pipe to ASTM A-312 having a weld joint factor of .80.
The Stress Values at all temperatures above 1000F apply only when the carbon is 0.04% or higher.

STAINLESS STEEL WELDED PIPE

TYPE 316L SCHEDULES 5S, 10S ALLOWABLE WORKING PRESSURE

ALLOWABLE WORKING PRESSURES FOR A-312 WELDED PIPE

TYPE 316L Schedules 5S, 10S

TEMPERATURE °F.			- 425 to 300	400	500	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	
MAX. STRESS			16700	15500	14400	13500	13200	12900	12600	12400	12100	11800	11500	11200	10800	10200	8800	6400	4700	3500	2500	1800	1300	1000	
NOM. PIPE SIZE	SCH. NO.	NOM. WALL.	ALLOWABLE WORKING PRESSURES PSIG																						
			½	5S 10S	.065 .083	1809 2310	1679 2144	1560 1992	1463 1888	1430 1826	1398 1785	1365 1743	1343 1715	1311 1674	1278 1632	1246 1591	1213 1549	1170 1494	1105 1411	953 1217	693 885	509 650	379 484	271 346	195 249
¾	5S 10S	.065 .083	1447 1848	1343 1715	1248 1594	1170 1494	1144 1461	1118 1428	1092 1394	1075 1372	1049 1339	1023 1306	997 1273	971 1239	936 1195	884 1129	763 974	555 708	407 520	303 387	217 277	158 199	113 144	87 111	
1	5S 10S	.065 .109	1156 1938	1073 1799	997 1671	934 1587	913 1532	893 1497	872 1462	858 1439	837 1404	817 1389	796 1335	775 1300	747 1253	706 1184	609 1021	443 743	325 545	242 406	173 290	125 209	90 151	69 116	
1¼	5S 10S	.065 .109	915 1535	850 1425	789 1324	740 1241	724 1213	707 1186	691 1158	680 1140	663 1112	647 1085	630 1057	614 1030	592 993	559 938	482 809	351 588	258 432	192 322	137 230	55 165	71 120	55 92	
1½	5S 10S	.065 .109	800 1341	742 1245	690 1157	647 1084	632 1060	618 1038	603 1012	594 996	580 972	565 948	551 924	538 900	517 887	489 819	421 707	307 514	225 377	168 281	120 201	86 145	62 104	48 80	
2	5S 10S	.065 .109	640 1073	594 996	552 925	517 867	506 848	494 829	483 810	475 797	464 777	452 758	441 739	429 720	414 694	391 655	337 565	245 411	180 302	134 225	96 161	69 116	50 84	38 64	
2½	5S 10S	.083 .120	675 976	626 906	582 841	546 789	534 771	521 754	509 736	501 725	489 707	477 690	465 672	453 654	437 631	412 596	356 514	259 374	190 275	141 205	101 146	73 105	53 76	40 58	
3	5S 10S	.083 .120	554 802	515 744	478 691	448 648	438 634	428 619	418 605	412 595	402 581	392 566	382 552	372 538	359 518	339 490	292 422	212 307	156 226	116 168	83 120	60 86	43 62	33 48	
3½	5S 10S	.083 .120	485 701	450 651	418 605	392 567	383 554	375 542	366 529	360 521	352 506	343 496	334 483	325 470	314 454	296 428	256 370	186 269	137 197	102 147	73 105	52 76	38 55	29 42	
4	5S 10S	.083 .120	431 623	400 579	372 538	349 504	341 493	333 482	325 470	320 463	312 452	305 441	297 429	289 418	279 403	263 381	227 329	165 239	121 175	90 131	65 93	46 67	34 49	26 37	
5	5S 10S	.109 .134	458 563	425 523	395 486	370 455	362 445	354 435	346 425	340 418	332 408	324 398	315 388	307 378	296 364	280 344	241 297	176 216	129 158	96 118	69 84	49 61	36 44	27 34	
6	5S 10S	.109 .134	385 473	357 439	332 408	311 362	304 374	297 365	290 357	286 351	279 343	272 334	265 326	258 317	249 306	235 289	203 249	147 181	108 133	81 99	58 71	41 51	30 37	23 28	
8	5S 10S	.109 .148	295 401	274 372	255 346	239 324	234 317	228 310	223 303	219 298	214 291	209 263	203 276	198 269	191 259	180 245	158 211	113 154	83 113	62 84	44 60	32 43	23 31	18 24	
10	5S 10S	.134 .165	291 359	270 333	251 309	236 290	230 284	225 277	220 271	216 266	211 260	206 254	201 247	195 241	188 232	178 219	154 189	112 138	82 101	61 75	44 54	31 39	23 28	17 21	
12	5S 10S	.156 .180	286 330	266 308	247 285	231 267	226 261	221 255	216 249	212 245	207 239	202 233	197 227	192 221	185 213	175 202	151 174	110 126	81 93	60 69	43 49	31 36	22 26	17 20	
14	5S 10S	.156 .188	261 314	242 291	225 271	211 254	206 248	201 243	197 237	193 233	189 227	184 222	179 216	175 211	168 203	159 192	137 165	100 120	73 88	55 66	39 47	28 34	20 24	16 19	
16	5S 10S	.165 .188	241 275	224 255	208 237	195 222	191 217	186 212	182 207	179 204	175 199	170 194	168 189	162 184	156 178	147 168	127 145	92 105	68 77	51 58	36 41	26 30	19 21	14 16	
18	5S 10S	.165 .188	214 244	199 227	185 211	173 197	169 193	166 189	162 184	159 181	155 177	151 173	148 168	144 164	139 158	131 149	113 129	85 94	60 69	45 51	32 37	23 26	17 19	13 15	
20	5S 10S	.188 .218	220 255	204 237	190 220	178 206	174 201	170 197	166 192	163 189	159 185	155 180	151 175	147 171	142 165	134 156	116 134	84 96	62 72	46 53	33 38	24 27	17 20	13 15	
24	5S 10S	.218 .250	212 244	197 226	183 210	172 197	168 193	164 188	160 184	158 181	154 176	150 172	146 168	142 163	137 158	130 149	112 128	81 93	60 69	45 51	32 36	23 26	17 19	13 15	

The Allowable Stress Values used are as shown in Appendix "A" of ANSI B31.3-1993 for welded pipe to ASTM A-312 having a weld joint factor of .80.
Allowable Working Pressures shown for each size reflect the minus 12½% manufacturers wall tolerance.

STAINLESS STEEL WELDED PIPE

TYPE 316 SCHEDULE 10S ALLOWABLE WORKING PRESSURE

ALLOWABLE WORKING PRESSURES FOR A-312 WELDED PIPE

TYPE 316 Schedule 10S

TEMPERATURE °F.			- 425 to 300	400	500	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	
MAX. STRESS			20000	19300	17900	17000	16700	16300	16100	15900	15700	15500	15400	15300	14500	12400	9600	7400	5500	4100	3100	2300	1700	1300	
NOM. PIPE SIZE	SCH. NO.	NOM. WALL.	ALLOWABLE WORKING PRESSURES PSIG																						
			½	10S	.083	2767	2670	2476	2352	2310	2255	2227	2200	2172	2144	2130	2117	2006	1715	1356	1024	761	587	429	318
¾	10S	.083	2213	2136	1981	1881	1848	1804	1782	1760	1737	1715	1704	1693	1605	1372	1085	819	609	454	343	255	188	144	
1	10S	.109	2321	2240	2077	1973	1938	1892	1888	1845	1822	1799	1787	1775	1683	1439	1137	859	638	476	360	267	197	151	
1¼	10S	.109	1839	1774	1646	1563	1535	1496	1480	1462	1443	1425	1416	1406	1333	1140	901	680	506	377	285	211	156	120	
1½	10S	.109	1608	1550	1438	1365	1341	1309	1293	1277	1261	1245	1237	1229	1165	996	787	594	442	329	249	185	137	104	
2	10S	.109	1285	1240	1150	1092	1073	1047	1034	1022	1009	996	969	983	932	797	630	475	353	263	199	148	109	84	
2½	10S	.120	1169	1128	1046	993	976	952	941	929	917	906	900	894	847	725	573	432	321	240	181	134	99	76	
3	10S	.120	960	926	859	816	802	782	773	763	754	744	739	734	696	595	470	355	264	197	149	110	82	62	
3½	10S	.120	840	811	752	714	701	685	676	668	659	651	647	643	609	521	412	311	231	172	130	97	71	55	
4	10S	.120	747	721	668	635	623	609	601	594	586	579	575	571	541	463	366	276	205	153	116	86	63	49	
5	10S	.134	674	651	604	573	563	550	543	538	529	523	519	516	489	418	330	250	185	138	105	78	57	44	
6	10S	.134	566	547	507	481	473	462	456	450	445	439	438	433	411	351	278	210	156	116	88	65	48	37	
8	10S	.148	480	464	430	408	401	392	387	382	377	372	370	368	348	298	235	178	132	96	74	55	41	31	
10	10S	.165	430	415	385	365	359	350	346	342	337	333	331	329	312	266	211	159	118	88	67	49	37	28	
12	10S	.180	395	381	354	336	330	322	318	314	310	306	304	302	287	245	194	148	109	81	61	45	34	26	
14	10S	.188	376	363	337	320	314	306	303	299	295	291	290	288	273	233	184	139	103	77	58	43	32	24	
16	10S	.188	329	317	294	260	275	268	265	262	258	255	253	252	239	204	161	122	90	67	51	38	28	21	
18	10S	.188	292	282	262	249	244	238	235	232	230	227	225	224	212	181	143	108	80	60	45	34	25	19	
20	10S	.218	305	295	273	259	255	249	246	243	240	237	235	233	221	189	150	113	84	63	47	35	26	20	
24	10S	.250	292	281	261	248	244	238	235	232	229	226	225	223	211	181	143	108	80	60	45	34	25	19	

The Allowable Stress Values used are as shown in Appendix "A" of ANSI B31.3-1993 for welded pipe to ASTM A-312 having a weld joint factor of .80.

The Stress Values at all temperatures above 1000F apply only when the carbon is 0.04% or higher.



STAINLESS STEEL WELDED PIPE

TYPE 316L SCHEDULES 40S, 80S ALLOWABLE WORKING PRESSURE

ALLOWABLE WORKING PRESSURES FOR A-312 WELDED PIPE

TYPE 316L Schedules 40S, 80S

TEMPERATURE °F.			- 425 to 300	400	500	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	
MAX. STRESS			16700	15500	14400	13500	13200	12900	12600	12400	12100	11800	11500	11200	10800	10200	8800	6400	4700	3500	2500	1800	1300	1000	
NOM. PIPE SIZE	SCH. NO.	NOM. WALL.	ALLOWABLE WORKING PRESSURES PSIG																						
			½	40S 80S	.109 .147	3034 4092	2816 3796	2616 3528	2453 3306	2398 3234	2344 3161	2289 3067	2253 3038	2198 2965	2144 2891	2089 2816	2035 2744	1962 2646	1853 2499	1599 2158	1163 1568	854 1152	636 858	454 613	327 441
¾	40S 80S	.113 .154	2516 3429	2335 3183	2170 2957	2034 2772	1989 2710	1944 2649	1898 2587	1888 2546	1823 2485	1778 2423	1733 2361	1687 2300	1627 2218	1537 2094	1326 1807	964 1314	706 965	527 719	377 513	271 370	196 267	151 205	
1	40S 80S	.133 .179	2365 3183	2195 2954	2039 2744	1912 2573	1869 2516	1827 2458	1784 2401	1756 2363	1713 2306	1671 2249	1628 2192	1586 2134	1529 2058	1444 1944	1246 1677	906 1220	666 896	496 667	354 476	255 343	184 248	142 191	
1¼	40S 80S	.140 .191	1972 2690	1830 2497	1700 2320	1594 2175	1559 2126	1523 2078	1488 2030	1464 1997	1429 1949	1393 1901	1358 1852	1322 1804	1275 1740	1204 1643	1039 1418	756 1031	555 757	413 564	295 403	213 290	153 209	118 161	
1½	40S 80S	.145 .200	1784 2461	1656 2284	1539 2122	1442 1969	1410 1945	1378 1901	1346 1857	1325 1827	1293 1763	1261 1739	1229 1695	1197 1651	1154 1592	1090 1503	940 1297	684 943	502 693	374 516	267 368	192 265	139 192	107 147	
2	40S 80S	.154 .218	1516 2146	1407 1992	1307 1850	1226 1735	1198 1696	1171 1658	1144 1619	1126 1593	1098 1555	1071 1516	1044 1478	1017 1439	980 1388	926 1311	799 1131	581 822	427 604	318 450	227 321	163 231	118 167	91 129	
2½	40S 80S	.203 .276	1651 2244	1532 2083	1423 1935	1335 1814	1305 1774	1275 1734	1246 1693	1226 1667	1196 1626	1166 1586	1137 1548	1107 1505	1068 1452	1008 1371	670 1183	633 860	465 632	346 470	247 336	178 242	129 175	99 134	
3	40S 80S	.216 .300	1443 2004	1339 1860	1244 1728	1166 1620	1140 1584	1115 1548	1069 1512	1071 1488	1045 1452	1020 1416	994 1380	968 1344	933 1296	881 1224	760 1056	553 766	406 564	302 420	216 300	156 216	112 156	86 120	
3½	40S 80S	.226 .318	1321 1859	1226 1725	1139 1603	1068 1503	1044 1469	1020 1438	997 1402	961 1380	957 1347	933 1313	910 1280	886 1247	854 1202	807 1135	696 979	506 712	372 523	277 390	198 278	142 200	103 145	79 111	
4	40S 80S	.237 .337	1231 1751	1143 1625	1062 1510	995 1415	973 1384	951 1352	929 1321	914 1300	892 1269	870 1237	848 1206	826 1174	796 1132	752 1069	649 923	472 671	347 493	258 367	184 262	133 189	96 138	74 105	
5	40S 80S	.258 .375	1084 1576	1006 1463	935 1359	877 1274	857 1248	838 1217	818 1189	805 1170	786 1142	766 1114	747 1085	727 1057	701 1019	662 963	571 830	416 604	305 444	227 330	162 236	117 170	84 123	65 94	
6	40S 80S	.280 .432	988 1525	917 1415	852 1315	799 1232	781 1205	763 1178	746 1150	734 1132	716 1105	698 1077	680 1050	663 1022	639 986	604 931	521 803	379 584	278 429	207 320	148 228	107 164	77 119	59 91	
8	40S 80S	.322 .500	873 1355	810 1258	753 1169	706 1096	690 1071	674 1047	659 1023	648 1006	632 962	617 958	601 933	585 909	564 877	533 826	460 714	335 519	246 381	183 284	131 203	94 146	68 106	52 81	
10	40S 80S	.385 .500	794 1087	737 1009	685 938	642 879	627 860	613 840	599 820	589 807	575 788	561 768	547 749	532 729	513 703	485 664	418 573	304 417	223 306	166 228	119 163	86 117	62 85	48 65	
12	40S 80S	.375 .500	688 917	638 851	593 791	556 741	544 725	531 708	519 692	511 681	498 664	486 648	474 631	461 615	445 593	420 560	362 483	264 351	194 258	144 192	103 137	74 99	54 71	41 55	
14	40S 80S	.375 .500	626 835	581 775	540 720	506 675	495 660	484 645	473 630	465 620	454 605	443 590	431 575	420 560	405 540	383 510	330 440	240 320	176 235	131 175	94 125	68 90	49 65	38 50	
16	40S 80S	.375 .500	548 731	509 678	473 630	443 591	433 576	423 564	413 551	407 543	397 529	387 516	377 503	368 490	354 473	335 446	289 385	210 260	154 206	115 153	82 109	59 79	43 57	33 44	
18	40S 80S	.375 .500	487 649	452 603	420 560	394 525	385 513	376 502	388 490	362 482	353 471	344 459	335 447	327 436	315 420	298 397	257 342	187 249	137 183	102 136	73 97	53 70	38 51	29 39	
20	40S 80S	.375 .500	438 585	407 543	378 504	354 473	347 462	339 452	331 441	326 434	318 424	310 413	302 403	294 392	284 378	268 357	231 306	168 224	123 165	92 123	66 88	47 63	34 46	26 35	
24	40S 80S	.375 .500	365 487	339 452	315 420	295 394	289 385	282 376	276 368	271 362	265 353	258 344	252 335	245 327	236 315	223 298	193 257	140 187	103 137	77 102	55 73	39 53	28 38	22 29	

The Allowable Stress Values used are as shown in Appendix "A" of ANSI B31.3-1993 for welded pipe to ASTM A-312 having a weld joint factor of .80.
Allowable Working Pressures shown for each size reflect the minus 12½% manufacturers wall tolerance.

STAINLESS STEEL WELDED PIPE

TYPE 316 SCHEDULES 40S, 80S ALLOWABLE WORKING PRESSURE

ALLOWABLE WORKING PRESSURES FOR A-312 WELDED PIPE

TYPE 316 Schedules 40S, 80S

TEMPERATURE °F.			- 425 to 300	400	500	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	
MAX. STRESS			20000	19300	17900	17000	16700	16300	16100	15900	15700	15500	15400	15300	14500	12400	9800	7400	5500	4100	3100	2300	1700	1300	
NOM. PIPE SIZE	SCH. NO.	NOM. WALL.	ALLOWABLE WORKING PRESSURES PSIG																						
			½	40S 80S	.109 .147	3633 4900	3506 4729	3252 4386	3088 4165	3034 4092	2961 3994	2925 3945	2889 3896	2652 3847	2816 3798	2798 3773	2780 3749	2634 3553	2253 3038	1780 2401	1344 1813	999 1348	745 1005	563 760	418 564
¾	40S 80S	.113 .154	3013 4107	2908 3963	2697 3675	2561 3491	2516 3429	2456 3347	2426 3308	2396 3265	2365 3224	2335 3183	2320 3162	2305 3142	2185 2977	1868 2546	1477 2012	1115 1519	829 1129	618 842	467 637	347 472	256 349	196 267	
1	40S 80S	.133 .179	2832 3811	2733 3678	2535 3411	2407 3240	2365 3183	2308 3106	2280 3068	2251 3030	2223 2992	2195 2954	2161 2935	2166 2916	2053 2763	1756 2383	1368 1888	1048 1410	779 1048	581 781	439 591	326 438	241 324	184 248	
1¼	40S 80S	.140 .191	2361 3222	2279 3109	2113 2883	2007 2738	1972 2690	1925 2628	1901 2593	1877 2561	1854 2529	1830 2497	1818 2481	1807 2465	1712 2336	1464 1997	1157 1579	874 1192	649 886	484 660	366 499	272 370	201 274	153 209	
1½	40S 80S	.145 .200	2137 2947	2062 2844	1912 2638	1816 2505	1784 2461	1742 2402	1720 2373	1699 2343	1677 2314	1656 2284	1645 2269	1635 2255	1549 2137	1325 1827	1047 1444	791 1091	588 811	438 604	331 457	246 339	182 251	139 192	
2	40S 80S	.154 .218	1816 2570	1752 2480	1625 2300	1543 2185	1516 2146	1480 2095	1462 2069	1443 2043	1425 2018	1407 1992	1398 1979	1389 1966	1316 1863	1126 1593	890 1259	672 951	499 707	372 527	281 398	209 296	154 218	118 167	
2½	40S 80S	.203 .276	1977 2688	1908 2594	1769 2406	1680 2285	1651 2244	1611 2191	1592 2164	1572 2137	1552 2110	1532 2083	1522 2070	1512 2056	1433 1949	1226 1667	969 1317	732 995	544 739	405 551	306 417	227 309	168 228	129 175	
3	40S 80S	.216 .300	1728 2400	1688 2316	1547 2148	1469 2040	1443 2004	1408 1956	1391 1932	1374 1908	1356 1884	1339 1860	1331 1848	1322 1836	1253 1740	1071 1488	847 1176	639 888	475 660	354 492	266 372	199 276	147 204	112 156	
3½	40S 80S	.226 .318	1582 2226	1527 2146	1416 1992	1345 1892	1321 1859	1289 1814	1274 1792	1258 1770	1242 1747	1226 1725	1218 1714	1210 1703	1147 1614	981 1360	775 1091	585 824	435 612	324 456	245 345	182 256	134 189	103 145	
4	40S 80S	.237 .337	1475 2097	1423 2023	1320 1877	1253 1782	1231 1751	1202 1709	1187 1688	1172 1667	1158 1646	1143 1625	1135 1615	1128 1604	1069 1520	914 1300	723 1027	546 776	406 577	302 430	229 325	170 241	125 178	96 136	
5	40S 80S	.258 .375	1299 1887	1253 1821	1162 1689	1104 1604	1084 1576	1058 1538	1045 1519	1032 1501	1019 1482	1006 1463	1000 1453	993 1444	941 1368	805 1170	636 925	480 698	357 519	266 387	201 293	149 217	110 160	84 123	
6	40S 80S	.280 .432	1183 1826	1142 1762	1059 1634	1006 1552	988 1525	964 1488	953 1470	941 1452	929 1433	917 1415	911 1406	905 1397	858 1324	734 1132	580 895	438 676	325 502	243 374	183 283	138 210	101 155	77 119	
8	40S 80S	.322 .500	1045 1623	1009 1566	936 1453	889 1380	873 1355	852 1323	841 1307	831 1290	821 1274	810 1258	805 1250	800 1242	758 1177	648 1006	512 795	387 601	287 446	214 333	162 252	120 187	89 138	68 106	
10	40S 80S	.365 .500	951 1302	917 1257	851 1166	808 1107	794 1087	775 1061	765 1048	758 1035	746 1022	737 1009	732 1003	727 996	689 944	589 807	466 638	352 482	261 358	195 287	147 202	109 150	81 111	62 85	
12	40S 80S	.375 .500	824 1098	795 1060	737 983	700 933	688 917	671 895	663 884	655 873	646 862	638 851	634 845	630 840	597 796	511 681	404 538	305 406	226 302	169 225	128 170	95 126	70 93	54 71	
14	40S 80S	.375 .500	750 1000	724 965	671 895	638 850	626 835	611 815	604 805	596 795	589 785	581 775	578 770	574 765	544 725	465 620	366 490	278 370	206 275	154 205	116 155	86 115	64 85	49 65	
16	40S 80S	.375 .500	656 875	633 844	587 783	558 744	548 731	535 713	528 704	522 696	515 687	509 678	505 674	502 669	476 634	407 543	322 429	243 324	180 241	135 179	102 136	75 101	56 74	43 57	
18	40S 80S	.375 .500	583 778	563 751	522 696	496 661	487 649	475 634	470 626	464 618	458 611	452 603	449 599	446 595	423 584	362 482	266 381	216 288	160 214	120 159	90 121	67 89	50 68	38 51	
20	40S 80S	.375 .500	525 700	507 676	470 627	446 595	438 585	428 571	423 564	417 557	412 550	407 543	404 539	402 536	381 508	326 434	257 343	194 259	144 193	108 144	81 109	60 81	45 60	34 46	
24	40S 80S	.375 .500	438 583	422 563	392 522	372 496	365 487	357 475	352 470	348 464	343 458	339 452	337 449	335 446	317 423	271 362	214 286	162 216	120 160	90 120	68 90	50 67	37 50	28 38	

The Allowable Stress Values used are as shown in Appendix "A" of ANSI B31.3-1993 for welded pipe to ASTM A-312 having a weld joint factor of .80.

The Stress Values at all temperatures above 1000F apply only when the carbon is 0.04% or higher.