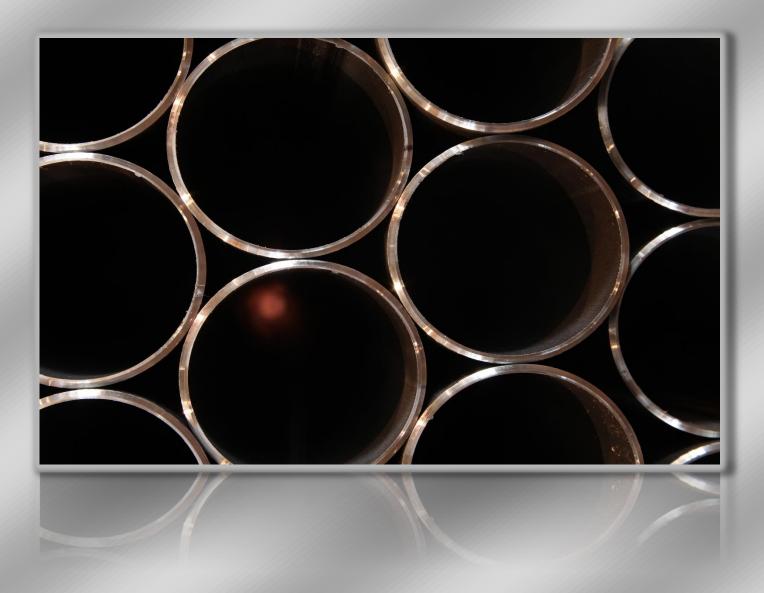


Quality Product of WEC (LEEDS) Co.

STAINLESS STEEL WELDED PIPES





W.E.C (Leeds) Ltd, established in the UK in 1997, is today a leading name in the Manufacture and Distribution of specialised hoses for the Oil and Petrochemical industry.

Recognising the opportunity in the piping industry W.E.C (Leeds) ramped up manufacturing to become a major PFV (Pipes, Fittings & Valves), branded as Rhinofitt. Today Rhinofitt is the preferred vendor across UK and Europe for enterprise level projects.

Upping the ante in the international market, based on our success in Europe, we are now one of the leading brands worldwide. Rhinofitt is known for offering a good quality product at competitive prices whilst maintaining a high standard of service and technical knowhow, supported by our wide network of distributors.

W.E.C (Leeds) recognises the need to offer the highest standards of customer service and this has always been a fundamental rule in our business model as well as our success both for existing and potential new clients.

Within the Rhinofitt range we provide all types of Stainless Steel Pipes manufactured to cater various industries complying the ever growing demand in quality and service.

Product Range

Size: 1/2" to 24"

Wall Thickness: SCH 5S -80S

Length: 6 meters

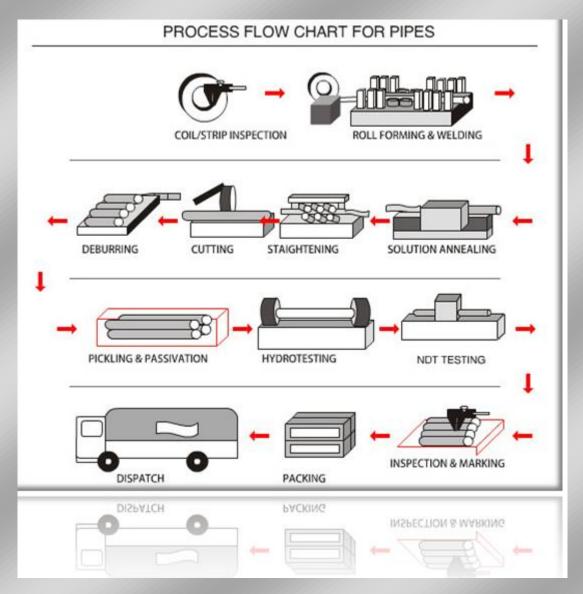
Specification: ASTM A312

Material Grade: 304/304L, 316/316L



Electric Fusion Weld

The processing of Electric Fusion Welded (EFW) pipe begins as a coiled plate of steel with appropriate thickness and specific width to form a pipe that conforms to its relevant specification. EFW pipe is cold formed. The ribbon is pulled through a series of rollers that gradually form it into a cylindrical tube. As the edges of the now cylindrical plate come together, an electric charge is applied at the proper points to heat the edges so they can be welded together. Electric Fusion Welded pipe is a high speed production product that can be made in continuous lengths up to 115'. It produces uniform wall thicknesses and outside dimensions and is made in a wide range of specifications. It does, however, require minimum tonnage to set up on a specific size.



Quality is Passion

Customer satisfaction drives Rhinofitt in every aspect from production to delivery thus committed to high quality starting from selection of raw material and continues in every stage of manufacturing process. To ensure product reliability through the process, Rhinofitt has fully equipped metallurgical laboratory with all tools for comprehensive product quality testing which includes but not limited to Hydro test and Destructive testing. The constant emphasis on high quality guarantees a long, trouble-free service life to our pipes without breakdowns or degradation.



SCHEDULE	58	105	40S	805	10	20	30	40	60	80	100	120	140	160	STD	xs	xxs
SIZE	Wall/In	103	403	003	10	20	30	40	00	00	100	120	,40	100	310	73	^^3
O.D.	Wgt/Ft																
1/4"			0.088	0.119				0.088		0.119					0.088	0.119	
0.540			0.43	0.54				0.43		0.54					0.43	0.54	
0.675			0.57	0.76				0.57		0.76					0.57	0.76	
1/2"	0.065	0.083	0.109	0.147			0.095	0.109		0.147				0.188	0.109	0.147	0.294
0.840	0.54	0.68	0.86	0.154			0.76	0.86		0.154		-		0.219	0.86	0.154	1.73
1.050	0.69	0.87	1.14	1.49			0.98	1.14		1.49				1.96	1.14	1.49	2.46
1"	0.065	0.109	0.133	0.179			0.114	0.133		0.179				0.250	0.133	0.179	0.358
1.315	0.88	1.42	1.69	2.19			1.48	1,69		2.19				2.87	1.69	2.19	3.69
1.1/4"	0.065	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"	0.065	0.109	0.145	0.200			0.125	0.145		0.200				0.281	0.145	0.200	0.400
1.900	1.29	2.10	2.74	3.67			2.39	2.74		3.67				4.90	2.74	3.67	6.47
2"	0.065	0.109 2.66	0.154 3.69	0.218 5.07			0.125 3.03	0.154 3.69		0.218 5.07				7.53	0.154 3.69	0.218 5.07	9.11
2 1/2"	0.083	0.120	0.203	0.276			0.188	0.203		0.276				0.375	0.203	0.276	0.552
2.875	2.50	3.56	5.85	7.73			5.45	5.85		7.73				10,11	5.85	7.73	13.82
3"	0.083	0.120 4.37	0.216 7.65	0.300			0.188 6.71	0.216 7.65		0.300				0.438	0.216 7.65	0.300	0.600 18.76
3 1/2"	0.083	0.120	0.226	0.318			0.188	0.226		0.318				14.40	0.226	0.318	10.70
4.000	3.50	5.02	9.19	12.62			7.73	9.19		12.62					9.19	12.62	
4.500	0.083	0.120 5.67	0.237	0.337			0.188 8.74	0.237		0.337 15.12		0.438		0.531	0.237	0.337	0.674 27.8
5°	0.109	0.134	0.258	0.375			0.74	0.258		0.375		0.500		0.625	0.258	0.375	0.750
5.563	6.41	7.84	14.75	20.97				14.75	2 3	20.97		27.29		33.27	14.75	20.97	38.91
6"	0.109	0.134	0.280	0.432				0.280		0.432		0.562		0.719	0.280	0.432	0.864
6.625	7.66	9.38	19.15	28.84	_	0.250	0.277	19.15	0.405	0.500	0.594	36.73	0.812	45.78 0.906	19.15	28.84	53.66 0.875
8.625	10.01	13.52	28.82	43.79		22.57	24.93	28.82	35.97	43.79	51.43	61.28	68.39	75.39	28.82	43.79	73.1
10"	0.134	0.165	0.365	0.500		0.250	0.307	0.365	0.500	0.594	0.719	0.844	1.000	1.125	0.365	0.500	1.000
10.750	15.34	18.83	40.86 0.375	55.25 0.500	- 8	28.3 0.250	34.56 0.330	40.86 0.406	55.25 0.562	0.688	77.75 0.844	90.13	105.11	116.73	40.86 0.375	55.25 0.500	1.000
12.750	21.18	24.39	50.03	66.03	25	33.69	44.18	54.03	73.84	89.46	108.32	126.67	140.98	161.77	50.03	66.03	126.67
14"	0.156	0.188	3.0		0.250	0.312	0.375	0.438	0.594	0.750	0.938	1.094	1.250	1.406	0.375	0.500	
14.000	23.28 0.165	27.99 0.188			37.06 0.250	46.04 0.312	55.08 0.375	0.500	85.84 0.656	0.844	132.08	152.2	171.81	190.88	55.08 0.375	72.77	-
16.000	28.17	32.05			42.45	52.76	63.16	83.55	108.51	137.89	166.37	194.23	225.73	247.54	63.16	83.55	
18"	0.165	0.188			0.250	0.312	0.438	0.562	0.750	0.938	1.156	1.375	1.562	1.781	0.375	0.500	
18,000	31.72	36.10			47.84	59.49	82.92	105.65	139.47	172.52	209.9	246.42	276.79	311.39	71.25	94.33	
20"	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"	0.218	0.250			0.250	0.375	0.562	0.688	0.969	1.219	1.531	1.812	2.062	2.344	0.375	0.500	
24.000	55.89	64.01			64.01	95.50	142.00	172.9	240.58	299.36	370.83	433.41	487.65	547.21	95.50	126.67	
30"	0.250 80.18	0.312 99.85			0.312 98.85	0.500 159.01	0.625								0.375	0.500 159.01	
36"		22,00			0.312	0.500	0.625	0.750							0.375	0.500	
36.000					120.03	191.35	238.34	285.00							144.01	191.35	

Tolerance

Standard	Outside Diameter	Thickness	Length
ASTM A312	O.D. ≤ 48.26mm + 0.40mm · -0.80mm 48.26mm < O.D. ≤ 114.3mm ± 0.80mm 114.3mm < O.D. ≤ 21 .08mm + 1.60mm · -0.80mm 219.08mm < O.D. ≤ 457.2mm + 2.40mm · -0.80mm 457.2mm < O.D. ≤ 609.6mm + 3.20mm · -0.80mm	(Nominal Thickness) + 15% - 12.5%	+ 6.0mm - 0mm
ASTM A358	(Based on circumferential measurement) ±0.5% (Difference between major and minor outside diameters)1%	-0.3mm	L ≦ 7.3m + 6.0mm - 0mm

Chemical Composition

Standar	d & Grade	С	Si	Mn	P	S	Ni	Cr	Mo
TARREST STATE	TP304	≦ 0.080	≦ 1.00	≦ 2.00	≦ 0.045	≦ 0.030	8.0~11.0	18.0~20.0	1,580
ASTM	TP304L	≦ 0.035	≦ 1.00	≦ 2.00	≦ 0.045	≦ 0.030	8.0~13.0^	18.0~20.0	
A312 A358	TP316	≦ 0.080	≦ 1.00	≤ 2.00	≦ 0.045	≦ 0.030	10.0~14.0	16.0~18.0	2.0~3.0
A330	TP316L	≦ 0.035	≦ 1.00	≦ 2.00	≦ 0.045	≦ 0.030	10.0~14.0	16.0~18.0	2.0~3.0



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

ALLOWABLE WORKING PRESSURES

TYPE 316L

FOR	A-31	12 WE	LDE	PIP	E																Sche	dule	s 5S,	105
	ERATI	S. Colle	- 425 to 300	400	500	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
NOM. PIPE SIZE	SCH. NO.	NOM. WALL.	16700	15500	14400	13500	13200	12900	12600	12400	12100 ALLOV	11800 VABLE	WORKIN	11200 IG PRE	SSURE:	10200 S PSIG	8800	6400	4700	3500	2500	1800	1300	1000
1/2	5S 10S	.065	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	141 180	108 138
%	5S 10S	.065	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	1156 1938	1073 1799	997 1671	934 1587	913 1532	893 1497	672 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
1%	5S 10S	.065	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
11/2	5S 10S	.065	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	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	134 225	96 161	69 116	50 84	38 64
21/2	5S 10S	.083	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	73 105	53 76	40 58
3	5S 10S	.083	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	156 226	116 168	83 120	60 86	43 62	33 48
31/2	5S 10S	.083	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	102	73 105	52 76	38 55	29 42
4	5S 10S	.083	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	90	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	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	108 133	81 99	58 71	41 51	30 37	23 28
8	5S 10S	.109	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	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	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	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	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	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.



TYPE 316 SCHEDULES 10S ALLOWABLE WORKING PRESSURE

ALLOWABLE WORKING PRESSURES

TYPE 316

FOR	A-31	2 WE	LDED	PIPE																		Sche	dule	105
2001000	PERATU	93302131	- 425 to 300	400	500	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
NOM. PIPE SIZE	SCH.	NOM. WALL.	20000	19300	17900	17000	16700	16300	16100	15900	ALLOV	15500 VABLE	WORKIN	15300 NG PRE	14500 SSURES	12400 S PSIG	9600	7400	5500	4100	3100	2300	1700	1300
1/2	108	.083	2767	2670	2476	2352	2310	2255	2227	2200	2172	2144	2130	2117	2006	1715	1356	1024	761	587	429	318	235	180
3/4	108	.083	2213	2136	1981	1881	1848	1804	1782	1760	1737	1715	1704	1693	1605	1372	1085	819	609	454	343	255	188	144
1	108	.109	2321	2240	2077	1973	1938	1892	1888	1845	1822	1799	1787	1775	1683	1439	1137	859	638	476	360	267	197	151
1%	108	.109	1839	1774	1646	1563	1535	1496	1480	1462	1443	1425	1416	1406	1333	1140	901	680	506	377	285	211	156	120
11/2	108	.109	1608	1550	1438	1365	1341	1309	1293	1277	1261	1245	1237	1229	1165	996	787	594	442	329	249	185	137	104
2	108	.109	1285	1240	1150	1092	1073	1047	1034	1022	1009	996	969	983	932	797	630	475	353	263	199	148	109	84
21/2	108	.120	1169	1128	1046	993	976	952	941	929	917	906	900	894	847	725	573	432	321	240	181	134	99	76
3	108	.120	960	926	859	816	802	782	773	763	754	744	739	734	696	595	470	355	264	197	149	110	82	62
31/2	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	108	.120	747	721	668	635	623	609	601	594	586	579	575	571	541	463	366	276	205	153	116	86	63	49
5	108	.134	674	651	604	573	563	550	543	538	529	523	519	516	489	418	330	250	185	138	105	78	57	44
6	108	.134	566	547	507	481	473	462	456	450	445	439	438	433	411	351	278	210	156	116	88	65	48	37
8	108	.148	480	464	430	408	401	392	387	382	377	372	370	368	348	298	235	178	132	96	74	55	41	31
10	108	.165	430	415	385	365	359	350	346	342	337	333	331	329	312	266	211	159	118	88	67	49	37	28
12	108	.180	395	381	354	336	330	322	318	314	310	306	304	302	287	245	194	148	109	81	61	45	34	26
14	108	.188	376	363	337	320	314	306	303	299	295	291	290	288	273	233	184	139	103	77	58	43	32	24
16	108	.188	329	317	294	260	275	268	265	262	258	255	253	252	239	204	161	122	90	67	51	38	28	21
18	108	.188	292	282	262	249	244	238	235	232	230	227	225	224	212	181	143	108	80	60	45	34	25	19
20	108	.218	305	295	273	259	255	249	246	243	240	237	235	233	221	189	150	113	84	63	47	35	26	20
24	108	.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.



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

ALLOWABLE WORKING PRESSURES

TYPE 316L

TEMP	ERATU	DE OE	- 425	400	500	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	150
1,000	X. STR		to 300	15500	14400	13500	13200	12900	12600	12400	12100	11800	11500	11200	10800	10200	8800	6400	4700	3500	2500	1800	1300	100
NOM. PIPE SIZE	SCH. NO.	NOM. WALL.	10100	10000	14400	10000	10200	12300	12000	12400		VABLE					0000	0.00	41.00	3000	2500	1000	1300	100
1/2	40S 80S	.109	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	236 319	18 24
3/4	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	15 20
1	40S 80S	.133	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	1:
1%	40S 80S	.140	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	1
11/2	40S 80S	.145	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	1 1
2	40S 80S	.154	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	1.
21/2	40S 80S	.203	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	1
3	40S 80S	.216	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	1
31/2	40S 80S	.226	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	1
4	40S 80S	.237	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	1
5	40S 80S	.258	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	-
6	40S 80S	.280	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	
8	40S 80S	.322	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	94 146	68 106	5 8
10	40S 80S	.385	794 1087	737 1009	885 938	842 879	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	4
12	40S 80S	.375	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	103	74 99	54 71	4 5
14	40S 80S	.375	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	49 65	
16	40S 80S	.375	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	
18	40S 80S	.375	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	
20	40S	.375	438	407	378	354	347	339	331	326	318	310	302	294	284	268	231	168	123	92	66	47	34	
24	80S 40S	.500	585 365	543 339	315	473 295	462 289	452	276	434 271	424 265	413 258	403	392 245	378 236	357 223	306 193	140	165	123	55 55	63 39	46 28	300

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 121/2% manufacturers wall tolerance.



TYPE 316 SCHEDULES 40S, 80S ALLOWABLE WORKING PRESSURE

ALLOWABLE WORKING PRESSURES

TYPE 316

TEMP	PERATU	JRE °F.	- 425 to 300	400	500	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	150
MA	AX. STR	ESS	20000	19300	17900	17000	16700	16300	16100	15900	15700	15500	15400	15300	14500	12400	9800	7400	5500	4100	3100	2300	1700	130
NOM. PIPE SIZE	SCH. NO.	NOM. WALL.									ALLOV	VABLE	WORKIN	IG PRE	SSURES	PSIG								
1/2	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	309 417	238 319
%	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
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	18- 24
11/4	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
11/2	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	130
2	40S 80S	.154	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	111
21/2	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	125
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	11.
31/2	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	10 14
4	40S 80S	.237	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 13
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	12
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
8	40S 80S	.322	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
10	40S 80S	.365	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
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	5 7
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	4 6
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	4:
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	3 5
20	40S 80S	.375	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	3 4

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.

317 271

50 37

50 38



.375

.500



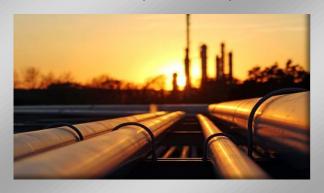
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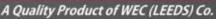


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