

S = 16000		Pipe										© 2003 Pressure Vessel Engineering Ltd. www.pveng.com												
12.5% undertolerance removed, no corrosion allowance, ASME VIII-1 UG-27(c)												Phone: (519)-880-9808 Fax: (519) 880-9810												
Schedule												20	30	40	STD	60	80	XS	100	120	140	160	XXS	
0.405 OD	wall	0.035	0.049									0.057	0.068	0.068		0.095	0.095						Inch	
Max PSI at E=1.00		2576	3701									4371	5327	5327		7858	7858						PSI	
Max PSI at E=0.85		2189	3146									3716	4528	4528		6679	6679						PSI	
1/8"	Volume	0.001	0.001									0.000	0.000	0.000		0.000	0.000						ft ³ /ft	
	Weight	0.138	0.187									0.212	0.245	0.245		0.315	0.315						Lb/ft cs	
0.540 OD	wall	0.049	0.065									0.073	0.088	0.088		0.119	0.119						Inch	
Max PSI at E=1.00		2713	3680									4181	5151	5151		7296	7296						PSI	
Max PSI at E=0.85		2306	3128									3554	4378	4378		6201	6201						PSI	
1/4"	Volume	0.001	0.001									0.001	0.001	0.001		0.000	0.000						ft ³ /ft	
	Weight	0.257	0.330									0.364	0.425	0.425		0.536	0.536						Lb/ft cs	
0.675 OD	wall	0.049	0.065									0.073	0.091	0.091		0.126	0.126						Inch	
Max PSI at E=1.00		2141	2891									3276	4168	4168		6012	6012						PSI	
Max PSI at E=0.85		1820	2458									2785	3543	3543		5110	5110						PSI	
3/8"	Volume	0.002	0.002									0.002	0.001	0.001		0.001	0.001						ft ³ /ft	
	Weight	0.328	0.424									0.470	0.568	0.568		0.740	0.740						Lb/ft cs	
0.840 OD	wall	0.065	0.083									0.095	0.109	0.109		0.147	0.147					0.188	0.294	Inch
Max PSI at E=1.00		2291	2972									3439	3996	3996		5584	5584					7431	12980	PSI
Max PSI at E=0.85		1947	2526									2923	3397	3397		4746	4746					6316	11033	PSI
1/2"	Volume	0.003	0.002									0.002	0.002	0.002		0.002	0.002					0.001	0.000	ft ³ /ft
	Weight	0.539	0.672									0.757	0.852	0.852		1.089	1.089					1.311	1.716	Lb/ft cs
1.050 OD	wall	0.065	0.083									0.095	0.113	0.113		0.154	0.154					0.219	0.308	Inch
Max PSI at E=1.00		1812	2343									2705	3259	3259		4577	4577					6838	10336	PSI
Max PSI at E=0.85		1540	1992									2299	2770	2770		3890	3890					5813	8785	PSI
3/4"	Volume	0.005	0.004									0.004	0.004	0.004		0.003	0.003					0.002	0.001	ft ³ /ft
	Weight	0.685	0.858									0.970	1.132	1.132		1.475	1.475					1.946	2.443	Lb/ft cs
1.315 OD	wall	0.065	0.109									0.114	0.133	0.133		0.179	0.179					0.250	0.358	Inch
Max PSI at E=1.00		1434	2464									2584	3048	3048		4213	4213					6140	9418	PSI
Max PSI at E=0.85		1219	2094									2197	2591	2591		3581	3581					5219	8005	PSI
1"	Volume	0.008	0.007									0.006	0.006	0.006		0.005	0.005					0.004	0.002	ft ³ /ft
	Weight	0.869	1.405									1.464	1.681	1.681		2.174	2.174					2.847	3.663	Lb/ft cs
1.660 OD	wall	0.065	0.109									0.117	0.140	0.140		0.191	0.191					0.250	0.382	Inch
Max PSI at E=1.00		1127	1927									2076	2510	2510		3504	3504					4714	7681	PSI
Max PSI at E=0.85		958	1638									1765	2133	2133		2978	2978					4007	6529	PSI
1 1/4"	Volume	0.013	0.011									0.011	0.010	0.010		0.009	0.009					0.007	0.004	ft ³ /ft
	Weight	1.108	1.808									1.930	2.275	2.275		3.000	3.000					3.769	5.220	Lb/ft cs
1.900 OD	wall	0.065	0.109									0.125	0.145	0.145		0.200	0.200					0.281	0.400	Inch
Max PSI at E=1.00		981	1674									1931	2257	2257		3182	3182					4619	6914	PSI
Max PSI at E=0.85		834	1422									1641	1919	1919		2705	2705					3926	5877	PSI
1 1/2"	Volume	0.017	0.015									0.015	0.014	0.014		0.012	0.012					0.010	0.007	ft ³ /ft
	Weight	1.275	2.087									2.372	2.721	2.721		3.635	3.635					4.864	6.415	Lb/ft cs

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Schedule									20	30	40	STD	60	80	XS	100	120	140	160	XXS		
2.375 OD	wall	0.065	0.083	0.109	0.125	0.141	0.172	0.188			0.154	0.154		0.218	0.218				0.344	0.436	Inch	
	Max PSI at E=1.00	781	1003	1328	1530	1734	2136	2346			1902	1902		2747	2747				4513	5898	PSI	
	Max PSI at E=0.85	664	853	1129	1301	1474	1816	1994			1617	1617		2335	2335				3836	5013	PSI	
2"	Volume	0.027	0.027	0.025	0.025	0.024	0.022	0.022			0.023	0.023		0.021	0.021				0.016	0.012	ft^3/ft	
	Weight	1.61	2.03	2.64	3.01	3.37	4.05	4.40			3.66	3.66		5.03	5.03				7.47	9.04	Lb/ft cs	
2.875 OD	wall	0.083	0.109	0.125	0.141	0.156	0.172	0.188			0.203	0.203		0.276	0.276				0.375	0.552	Inch	
	Max PSI at E=1.00	825	1091	1256	1422	1579	1748	1919			2080	2080		2882	2882				4019	6211	PSI	
	Max PSI at E=0.85	701	927	1067	1209	1342	1486	1631			1768	1768		2449	2449				3416	5279	PSI	
2 1/2"	Volume	0.040	0.039	0.038	0.037	0.036	0.035	0.034			0.033	0.033		0.029	0.029				0.025	0.017	ft^3/ft	
	Weight	2.48	3.22	3.68	4.12	4.54	4.97	5.40			5.80	5.80		7.67	7.67				10.02	13.71	Lb/ft cs	
3.500 OD	wall	0.083	0.109	0.125	0.141	0.156	0.172	0.188			0.216	0.216		0.300	0.300				0.438	0.600	Inch	
	Max PSI at E=1.00	675	891	1026	1161	1288	1425	1563			1806	1806		2553	2553				3840	5455	PSI	
	Max PSI at E=0.85	574	758	872	987	1095	1211	1328			1535	1535		2170	2170				3264	4636	PSI	
3"	Volume	0.061	0.059	0.058	0.056	0.055	0.054	0.053			0.051	0.051		0.046	0.046				0.038	0.029	ft^3/ft	
	Weight	3.03	3.95	4.51	5.06	5.58	6.12	6.66			7.58	7.58		10.26	10.26				14.34	18.60	Lb/ft cs	
4.000 OD	wall	0.083	0.109	0.125	0.141	0.156	0.172	0.188			0.226	0.226		0.318	0.318						0.636	Inch
	Max PSI at E=1.00	590	778	895	1012	1123	1241	1361			1647	1647		2357	2357						5010	PSI
	Max PSI at E=0.85	501	661	760	860	954	1055	1157			1400	1400		2004	2004						4258	PSI
3 1/2"	Volume	0.080	0.078	0.077	0.075	0.074	0.073	0.072			0.069	0.069		0.062	0.062						0.041	ft^3/ft
	Weight	3.48	4.53	5.18	5.82	6.41	7.04	7.66			9.12	9.12		12.52	12.52						22.88	Lb/ft cs
4.500 OD	wall	0.083	0.109	0.125	0.141	0.156	0.172	0.188			0.237	0.237	0.281	0.337	0.337		0.438		0.531	0.674	Inch	
	Max PSI at E=1.00	523	690	793	897	995	1100	1205			1531	1531	1828	2213	2213		2925		3601	4685	PSI	
	Max PSI at E=0.85	445	586	674	762	846	935	1024			1301	1301	1554	1881	1881		2486		3061	3982	PSI	
4"	Volume	0.102	0.100	0.099	0.097	0.096	0.094	0.093			0.088	0.088	0.085	0.080	0.080		0.072		0.064	0.054	ft^3/ft	
	Weight	3.92	5.12	5.85	6.57	7.25	7.96	8.67			10.80	10.80	12.68	15.00	15.00		19.02		22.53	27.57	Lb/ft cs	
5.563 OD	wall	0.083	0.125	0.156	0.188	0.219	0.281	0.312			0.258	0.258		0.375	0.375		0.500		0.625	0.750	Inch	
	Max PSI at E=1.00	422	639	801	969	1134	1466	1635			1342	1342		1981	1981		2686		3414	4168	PSI	
	Max PSI at E=0.85	359	543	681	824	963	1246	1389			1141	1141		1684	1684		2283		2902	3543	PSI	
5"	Volume	0.159	0.154	0.150	0.147	0.143	0.136	0.133			0.139	0.139		0.126	0.126		0.114		0.101	0.090	ft^3/ft	
	Weight	4.86	7.27	9.02	10.80	12.51	15.87	17.52			14.63	14.63		20.80	20.80		27.07		33.00	38.59	Lb/ft cs	
6.625 OD	wall	0.083	0.109	0.125	0.141	0.156	0.172	0.188			0.280	0.280		0.432	0.432		0.562		0.719	0.864	Inch	
	Max PSI at E=1.00	354	466	535	605	670	740	811			1219	1219		1913	1913		2525		3289	4018	PSI	
	Max PSI at E=0.85	301	396	455	514	570	629	689			1037	1037		1626	1626		2146		2795	3416	PSI	
6"	Volume	0.228	0.224	0.222	0.219	0.217	0.215	0.213			0.201	0.201		0.181	0.181		0.165		0.147	0.131	ft^3/ft	
	Weight	5.81	7.59	8.69	9.77	10.79	11.87	12.94			19.00	19.00		28.60	28.60		36.43		45.40	53.22	Lb/ft cs	
8.625 OD	wall	0.125	0.156	0.188	0.203	0.219	0.312	0.344	0.250	0.277	0.322	0.322	0.406	0.500	0.500	0.594	0.719	0.812	0.906	0.875	Inch	
	Max PSI at E=1.00	410	513	620	670	724	1039	1149	828	920	1073	1073	1363	1692	1692	2026	2479	2822	3175	3058	PSI	
	Max PSI at E=0.85	348	436	527	570	615	883	977	704	782	912	912	1158	1438	1438	1722	2107	2399	2698	2599	PSI	
8"	Volume	0.383	0.377	0.371	0.368	0.366	0.349	0.344	0.360	0.355	0.347	0.347	0.333	0.317	0.317	0.302	0.282	0.267	0.253	0.258	ft^3/ft	
	Weight	11.36	14.13	16.96	18.28	19.68	27.73	30.46	22.39	24.72	28.59	28.59	35.68	43.44	43.44	51.00	60.78	67.83	74.77	72.50	Lb/ft cs	

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Schedule									20	30	40	STD	60	80	XS	100	120	140	160	XXS	
10.750 OD	wall	0.156	0.188	0.203	0.219	0.279	0.344	0.438	0.250	0.307	0.365	0.365	0.500	0.594	0.500	0.719	0.844	1.000	1.125	1.000	Inch
	Max PSI at E=1.00	410	496	536	579	740	917	1174	662	816	974	974	1346	1609	1346	1965	2326	2786	3162	2786	PSI
	Max PSI at E=0.85	349	421	455	492	629	779	998	563	694	828	828	1144	1368	1144	1670	1977	2368	2688	2368	PSI
10"	Volume	0.594	0.587	0.584	0.580	0.567	0.552	0.532	0.573	0.560	0.548	0.548	0.518	0.499	0.518	0.473	0.448	0.418	0.394	0.418	ft ³ /ft
	Weight	17.7	21.2	22.9	24.7	31.2	38.3	48.3	28.1	34.3	40.5	40.5	54.8	64.5	54.8	77.1	89.4	104.2	115.8	104.2	Lb/ft cs
12.750 OD	wall	0.172	0.188	0.203	0.219	0.281	0.312	0.344	0.250	0.330	0.406	0.375	0.562	0.688	0.500	0.844	1.000	1.125	1.312	1.000	Inch
	Max PSI at E=1.00	381	417	451	487	627	697	770	557	738	912	841	1273	1570	1129	1944	2324	2633	3105	2324	PSI
	Max PSI at E=0.85	324	355	383	414	533	593	654	473	627	775	715	1082	1335	960	1652	1975	2238	2639	1975	PSI
12"	Volume	0.839	0.835	0.831	0.827	0.810	0.802	0.794	0.818	0.797	0.777	0.785	0.737	0.706	0.753	0.667	0.630	0.601	0.559	0.630	ft ³ /ft
	Weight	23.1	25.3	27.2	29.3	37.5	41.5	45.6	33.4	43.8	53.6	49.6	73.2	88.7	65.5	107.4	125.6	139.8	160.4	125.6	Lb/ft cs
14.000 OD	wall	0.188	0.203	0.210	0.219	0.250	0.281	0.344	0.312	0.375	0.438	0.375	0.594	0.750	0.500	0.938	1.094	1.250	1.406		Inch
	Max PSI at E=1.00	380	410	424	443	506	570	700	634	764	896	764	1224	1558	1026	1968	2315	2667	3025		PSI
	Max PSI at E=0.85	323	349	361	376	430	485	595	539	650	761	650	1041	1325	872	1673	1967	2267	2571		PSI
14"	Volume	1.012	1.008	1.006	1.003	0.994	0.985	0.967	0.976	0.958	0.939	0.958	0.895	0.852	0.922	0.802	0.761	0.721	0.683		ft ³ /ft
	Weight	27.8	29.9	31.0	32.3	36.8	41.2	50.2	45.7	54.6	63.5	54.6	85.1	106.2	72.2	131.0	151.0	170.4	189.3		Lb/ft cs
16.000 OD	wall	0.188	0.203	0.219	0.281	0.344	0.406	0.438	0.312	0.375	0.500	0.375	0.656	0.844	0.500	1.031	1.219	1.438	1.594		Inch
	Max PSI at E=1.00	332	358	387	498	611	723	781	554	667	895	667	1182	1534	895	1889	2253	2685	2999		PSI
	Max PSI at E=0.85	282	305	329	423	520	615	664	471	567	760	567	1005	1304	760	1606	1915	2283	2549		PSI
16"	Volume	1.331	1.326	1.321	1.300	1.279	1.258	1.248	1.289	1.268	1.227	1.268	1.177	1.117	1.227	1.060	1.003	0.939	0.895		ft ³ /ft
	Weight	31.8	34.3	37.0	47.2	57.6	67.7	72.9	52.3	62.6	82.9	62.6	107.6	136.8	82.9	165.0	192.6	223.9	245.5		Lb/ft cs
18.000 OD	wall	0.188	0.203	0.219	0.250	0.281	0.406	0.469	0.312	0.438	0.562	0.375	0.750	0.938	0.500	1.156	1.375	1.562	1.781		Inch
	Max PSI at E=1.00	295	318	344	393	442	642	743	491	693	894	592	1202	1514	793	1883	2260	2587	2977		PSI
	Max PSI at E=0.85	250	271	292	334	376	545	632	418	589	760	503	1021	1287	674	1600	1921	2199	2530		PSI
18"	Volume	1.694	1.688	1.682	1.670	1.659	1.611	1.588	1.647	1.599	1.553	1.623	1.485	1.418	1.576	1.342	1.268	1.207	1.137		ft ³ /ft
	Weight	35.8	38.6	41.6	47.4	53.2	76.4	87.9	59.0	82.2	104.8	70.7	138.3	171.1	93.6	208.2	244.4	274.5	308.8		Lb/ft cs
20.000 OD	wall	0.188	0.203	0.219	0.250	0.281	0.312	0.344	0.375	0.500	0.594	0.375	0.812	1.031	0.500	1.281	1.500	1.750	1.969		Inch
	Max PSI at E=1.00	265	286	309	353	397	442	487	532	712	849	532	1170	1497	712	1878	2216	2610	2961		PSI
	Max PSI at E=0.85	225	243	263	300	338	375	414	452	606	722	452	995	1273	606	1596	1884	2218	2517		PSI
20"	Volume	2.100	2.094	2.087	2.074	2.061	2.048	2.034	2.021	1.969	1.930	2.021	1.842	1.755	1.969	1.659	1.576	1.485	1.407		ft ³ /ft
	Weight	39.8	43.0	46.3	52.8	59.2	65.7	72.3	78.7	104.2	123.2	78.7	166.6	209.1	104.2	256.4	296.7	341.5	379.6		Lb/ft cs
24.000 OD	wall	0.188	0.203	0.219	0.250	0.281	0.312	0.344	0.375	0.562	0.688	0.375	0.969	1.219	0.500	1.531	1.812	2.062	2.344		Inch
	Max PSI at E=1.00	221	238	257	294	331	367	405	442	667	819	442	1163	1475	592	1870	2232	2560	2935		PSI
	Max PSI at E=0.85	187	203	219	250	281	312	345	376	567	696	376	989	1253	503	1589	1897	2176	2495		PSI
24"	Volume	3.044	3.036	3.028	3.012	2.996	2.980	2.964	2.948	2.854	2.792	2.948	2.655	2.536	2.885	2.391	2.264	2.155	2.034		ft ³ /ft
	Weight	47.9	51.6	55.7	63.5	71.3	79.0	87.0	94.7	140.8	171.5	94.7	238.6	296.9	125.6	367.8	429.9	483.7	542.7		Lb/ft cs
30.000 OD	wall	0.250	0.281	0.312	0.344	0.406	0.438	0.469	0.500	0.625		0.375			0.500						Inch
	Max PSI at E=1.00	235	264	293	324	383	413	443	472	592		353			472						PSI
	Max PSI at E=0.85	199	224	249	275	325	351	376	401	503		300			401						PSI
30"	Volume	4.746	4.727	4.707	4.686	4.647	4.626	4.607	4.587	4.508		4.666			4.587						ft ³ /ft
	Weight	79.5	89.3	99.0	109.1	128.5	138.4	148.1	157.7	196.3		118.8			157.7						Lb/ft cs