

S = 2000		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		322	463					546	666	666		982	982						PSI	
Max PSI at E=0.85		274	393					464	566	566		835	835						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		339	460					523	644	644		912	912						PSI	
Max PSI at E=0.85		288	391					444	547	547		775	775						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		268	361					410	521	521		752	752						PSI	
Max PSI at E=0.85		228	307					348	443	443		639	639						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		286	372					430	500	500		698	698				929	1623	PSI	
Max PSI at E=0.85		243	316					365	425	425		593	593				790	1379	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		226	293					338	407	407		572	572				855	1292	PSI	
Max PSI at E=0.85		193	249					287	346	346		486	486				727	1098	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		179	308					323	381	381		527	527				768	1177	PSI	
Max PSI at E=0.85		152	262					275	324	324		448	448				652	1001	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		141	241					259	314	314		438	438				589	960	PSI	
Max PSI at E=0.85		120	205					221	267	267		372	372				501	816	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		123	209					241	282	282		398	398				577	864	PSI	
Max PSI at E=0.85		104	178					205	240	240		338	338				491	735	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	98	125	166	191	217	267	293			238	238		343	343				564	737	PSI
	Max PSI at E=0.85	83	107	141	163	184	227	249			202	202		292	292				480	627	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	103	136	157	178	197	219	240			260	260		360	360				502	776	PSI
	Max PSI at E=0.85	88	116	133	151	168	186	204			221	221		306	306				427	660	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	84	111	128	145	161	178	195			226	226		319	319				480	682	PSI
	Max PSI at E=0.85	72	95	109	123	137	151	166			192	192		271	271				408	580	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	74	97	112	126	140	155	170			206	206		295	295					626	PSI
	Max PSI at E=0.85	63	83	95	108	119	132	145			175	175		250	250					532	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	65	86	99	112	124	137	151			191	191	229	277	277		366		450	586	PSI
	Max PSI at E=0.85	56	73	84	95	106	117	128			163	163	194	235	235		311		383	498	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	53	80	100	121	142	183	204			168	168		248	248		336		427	521	PSI
	Max PSI at E=0.85	45	68	85	103	120	156	174			143	143		210	210		285		363	443	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	44	58	67	76	84	93	101			152	152		239	239		316		411	502	PSI
	Max PSI at E=0.85	38	50	57	64	71	79	86			130	130		203	203		268		349	427	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	51	64	77	84	90	130	144	104	115	134	134	170	211	211	253	310	353	397	382	PSI
	Max PSI at E=0.85	44	54	66	71	77	110	122	88	98	114	114	145	180	180	215	263	300	337	325	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

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	51	62	67	72	93	115	147	83	102	122	122	168	201	168	246	291	348	395	348	PSI
	Max PSI at E=0.85	44	53	57	61	79	97	125	70	87	103	103	143	171	143	209	247	296	336	296	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	48	52	56	61	78	87	96	70	92	114	105	159	196	141	243	290	329	388	290	PSI
	Max PSI at E=0.85	41	44	48	52	67	74	82	59	78	97	89	135	167	120	207	247	280	330	247	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	47	51	53	55	63	71	88	79	96	112	96	153	195	128	246	289	333	378		PSI
	Max PSI at E=0.85	40	44	45	47	54	61	74	67	81	95	81	130	166	109	209	246	283	321		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	41	45	48	62	76	90	98	69	83	112	83	148	192	112	236	282	336	375		PSI
	Max PSI at E=0.85	35	38	41	53	65	77	83	59	71	95	71	126	163	95	201	239	285	319		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	37	40	43	49	55	80	93	61	87	112	74	150	189	99	235	282	323	372		PSI
	Max PSI at E=0.85	31	34	37	42	47	68	79	52	74	95	63	128	161	84	200	240	275	316		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	33	36	39	44	50	55	61	66	89	106	66	146	187	89	235	277	326	370		PSI
	Max PSI at E=0.85	28	30	33	38	42	47	52	57	76	90	57	124	159	76	199	235	277	315		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	28	30	32	37	41	46	51	55	83	102	55	145	184	74	234	279	320	367		PSI
	Max PSI at E=0.85	23	25	27	31	35	39	43	47	71	87	47	124	157	63	199	237	272	312		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	29	33	37	40	48	52	55	59	74		44			59						PSI
	Max PSI at E=0.85	25	28	31	34	41	44	47	50	63		38			50						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