

S = 14000		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		2254	3238					3825	4661	4661		6876	6876							PSI
Max PSI at E=0.85		1916	2753					3251	3962	3962		5845	5845							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		2374	3220					3658	4507	4507		6384	6384							PSI
Max PSI at E=0.85		2018	2737					3109	3831	3831		5426	5426							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		1874	2530					2867	3647	3647		5261	5261							PSI
Max PSI at E=0.85		1593	2150					2437	3100	3100		4472	4472							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		2004	2601					3009	3497	3497		4886	4886				6502	11358		PSI
Max PSI at E=0.85		1704	2211					2558	2972	2972		4153	4153				5527	9654		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		1585	2050					2367	2851	2851		4004	4004				5984	9044		PSI
Max PSI at E=0.85		1348	1743					2012	2424	2424		3404	3404				5086	7687		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		1254	2156					2261	2667	2667		3686	3686				5373	8240		PSI
Max PSI at E=0.85		1066	1833					1922	2267	2267		3133	3133				4567	7004		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		986	1686					1816	2196	2196		3066	3066				4125	6721		PSI
Max PSI at E=0.85		838	1433					1544	1867	1867		2606	2606				3506	5712		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		859	1464					1690	1975	1975		2784	2784				4042	6049		PSI
Max PSI at E=0.85		730	1245					1436	1679	1679		2366	2366				3436	5142		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	684	878	1162	1339	1518	1869	2053			1664	1664		2403	2403				3949	5161	PSI	
	Max PSI at E=0.85	581	746	987	1138	1290	1589	1745			1415	1415		2043	2043				3357	4387	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	722	954	1099	1244	1382	1530	1679			1820	1820		2521	2521				3517	5434	PSI	
	Max PSI at E=0.85	614	811	934	1058	1175	1300	1427			1547	1547		2143	2143				2989	4619	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	591	780	897	1016	1127	1247	1367			1580	1580		2234	2234				3360	4773	PSI	
	Max PSI at E=0.85	502	663	763	863	958	1060	1162			1343	1343		1899	1899				2856	4057	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	516	681	783	885	982	1086	1191			1441	1441		2063	2063						4383	PSI
	Max PSI at E=0.85	438	579	665	753	835	923	1012			1225	1225		1753	1753						3726	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	458	604	694	785	870	962	1054			1340	1340	1600	1936	1936		2559		3151	4099	PSI	
	Max PSI at E=0.85	389	513	590	667	740	818	896			1139	1139	1360	1646	1646		2175		2679	3484	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	369	559	701	848	992	1283	1430			1174	1174		1733	1733		2350		2988	3647	PSI	
	Max PSI at E=0.85	314	475	596	721	843	1090	1216			998	998		1473	1473		1997		2539	3100	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	310	408	468	529	587	648	709			1067	1067		1674	1674		2210		2878	3516	PSI	
	Max PSI at E=0.85	263	347	398	450	499	551	603			907	907		1423	1423		1878		2446	2989	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	359	449	542	586	633	909	1005	725	805	939	939	1193	1480	1480	1773	2169	2469	2778	2676	PSI	
	Max PSI at E=0.85	305	381	461	498	538	773	854	616	684	798	798	1014	1258	1258	1507	1844	2099	2361	2274	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	359	434	469	506	648	802	1028	579	714	852	852	1178	1408	1178	1719	2035	2438	2767	2438	PSI
	Max PSI at E=0.85	305	369	399	430	550	682	873	492	607	724	724	1001	1197	1001	1461	1730	2072	2352	2072	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	334	365	394	426	548	610	674	487	646	798	736	1114	1374	988	1701	2033	2304	2717	2033	PSI
	Max PSI at E=0.85	284	310	335	362	466	518	573	414	549	678	625	947	1168	840	1446	1728	1958	2309	1728	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	332	359	371	387	443	499	613	555	669	784	669	1071	1364	897	1722	2025	2333	2647		PSI
	Max PSI at E=0.85	282	305	316	329	377	424	521	471	568	666	568	911	1159	763	1464	1721	1983	2250		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	290	314	339	436	535	633	684	484	584	783	584	1034	1342	783	1653	1972	2350	2624		PSI
	Max PSI at E=0.85	247	267	288	370	455	538	581	412	496	665	496	879	1141	665	1405	1676	1997	2230		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	258	279	301	344	387	561	650	430	606	782	518	1052	1325	694	1648	1977	2264	2605		PSI
	Max PSI at E=0.85	219	237	256	292	329	477	553	365	516	665	440	894	1126	590	1400	1681	1924	2214		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	232	250	270	309	348	386	427	465	623	743	465	1024	1310	623	1643	1939	2284	2591		PSI
	Max PSI at E=0.85	197	213	230	263	295	328	363	396	530	632	396	870	1114	530	1396	1648	1941	2202		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	193	208	225	257	289	321	355	387	583	717	387	1018	1290	518	1636	1953	2240	2568		PSI
	Max PSI at E=0.85	164	177	191	219	246	273	302	329	496	609	329	865	1097	440	1391	1660	1904	2183		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	205	231	257	283	335	361	387	413	518		309			413						PSI
	Max PSI at E=0.85	175	196	218	241	285	307	329	351	440		263			351						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