

S = 16000		80:10 Flanged and Dished Heads																	© 2003 Pressure Vessel Engineering Ltd.		www.pveng.com
IKR = 10% of OD, IDR = 80% of OD, thickness as formed, skirt not included																			Phone: (519)-880-9808 Fax: (519) 880-9810		
Head Thickness		0.063	0.125	0.188	0.250	0.313	0.375	0.438	0.500	0.625	0.750	0.875	1.000	1.125	1.250	1.375	1.500	1.750	2.000	Inch	
12" 1' diameter	Max PSI at E=1.00	142.6	284.9	428.1	568.7	710.3	851.6	992.7	1133.5	1414.3	1694.2	1973.1	2251.0	2527.9	2803.9	3078.9	3352.9	3898.1	4439.5	PSI	
	Max PSI at E=0.85	121.2	242.1	363.9	483.4	603.8	723.9	843.8	963.4	1202.2	1440.1	1677.1	1913.3	2148.7	2383.3	2617.0	2850.0	3313.4	3773.6	PSI	
	Height	2.73	2.75	2.77	2.79	2.81	2.84	2.86	2.88	2.94	2.99	3.05	3.11	3.17	3.24	3.30	3.38	3.52	3.68	Inch	
	Volume	0.11	0.10	0.10	0.10	0.09	0.09	0.09	0.08	0.08	0.07	0.07	0.06	0.06	0.05	0.05	0.05	0.04	0.03	ft^3	
	Weight	1.8	3.7	5.5	7.3	9.1	11.0	12.8	14.6	18.2	21.7	25.3	28.9	32.4	35.9	39.5	43.0	50.0	57.1	Lbs cs	
18" 1' 6" diameter	Max PSI at E=1.00	95.1	190.0	285.6	379.6	474.2	568.7	663.1	757.4	945.7	1133.5	1320.8	1507.7	1694.2	1880.2	2065.8	2251.0	2620.0	2987.3	PSI	
	Max PSI at E=0.85	80.8	161.5	242.8	322.7	403.1	483.4	563.7	643.8	803.8	963.4	1122.7	1281.6	1440.1	1598.2	1756.0	1913.3	2227.0	2539.2	PSI	
	Height	4.08	4.10	4.12	4.14	4.16	4.18	4.21	4.23	4.28	4.33	4.38	4.43	4.49	4.54	4.60	4.66	4.79	4.92	Inch	
	Volume	0.36	0.35	0.35	0.34	0.33	0.32	0.32	0.31	0.30	0.28	0.27	0.26	0.25	0.23	0.22	0.21	0.19	0.18	ft^3	
	Weight	4.1	8.3	12.4	16.5	20.6	24.7	28.8	32.9	41.0	49.1	57.2	65.3	73.4	81.4	89.4	97.4	113.3	129.2	Lbs cs	
24" 2' diameter	Max PSI at E=1.00	71.3	142.6	214.3	284.9	355.9	426.9	497.9	568.7	710.3	851.6	992.7	1133.5	1274.0	1414.3	1554.4	1694.2	1973.1	2251.0	PSI	
	Max PSI at E=0.85	60.6	121.2	182.2	242.1	302.6	362.9	423.2	483.4	603.8	723.9	843.8	963.4	1082.9	1202.2	1321.2	1440.1	1677.1	1913.3	PSI	
	Height	5.43	5.45	5.47	5.49	5.51	5.53	5.56	5.58	5.62	5.67	5.72	5.77	5.82	5.87	5.93	5.98	6.10	6.22	Inch	
	Volume	0.86	0.85	0.84	0.82	0.81	0.79	0.78	0.77	0.74	0.72	0.69	0.67	0.65	0.63	0.60	0.58	0.54	0.51	ft^3	
	Weight	7.4	14.7	22.1	29.4	36.7	44.0	51.3	58.6	73.1	87.6	102.1	116.5	130.9	145.2	159.6	173.9	202.4	230.8	Lbs cs	
30" 2' 6" diameter	Max PSI at E=1.00	57.1	114.1	171.5	228.0	284.9	341.7	398.5	455.3	568.7	682.0	795.1	908.1	1020.8	1133.5	1245.9	1358.2	1582.4	1805.9	PSI	
	Max PSI at E=0.85	48.5	97.0	145.8	193.8	242.1	290.5	338.8	387.0	483.4	579.7	675.8	771.9	867.7	963.4	1059.0	1154.5	1345.0	1535.0	PSI	
	Height	6.79	6.80	6.82	6.84	6.87	6.89	6.91	6.93	6.97	7.02	7.06	7.11	7.16	7.21	7.26	7.31	7.42	7.53	Inch	
	Volume	1.69	1.67	1.65	1.63	1.61	1.58	1.56	1.54	1.50	1.46	1.42	1.38	1.34	1.31	1.27	1.24	1.17	1.11	ft^3	
	Weight	11.5	23.0	34.6	46.0	57.4	68.8	80.3	91.7	114.4	137.2	159.8	182.4	205.0	227.5	250.0	272.5	317.3	361.9	Lbs cs	
36" 3' diameter	Max PSI at E=1.00	47.6	95.1	142.9	190.0	237.5	284.9	332.3	379.6	474.2	568.7	663.1	757.4	851.6	945.7	1039.6	1133.5	1320.8	1507.7	PSI	
	Max PSI at E=0.85	40.4	80.8	121.5	161.5	201.8	242.1	282.4	322.7	403.1	483.4	563.7	643.8	723.9	803.8	883.7	963.4	1122.7	1281.6	PSI	
	Height	8.14	8.16	8.18	8.20	8.22	8.24	8.26	8.28	8.32	8.37	8.41	8.46	8.51	8.55	8.60	8.65	8.76	8.86	Inch	
	Volume	2.93	2.90	2.87	2.84	2.81	2.77	2.74	2.71	2.65	2.59	2.53	2.48	2.42	2.37	2.31	2.26	2.16	2.06	ft^3	
	Weight	16.6	33.1	49.8	66.2	82.7	99.2	115.7	132.1	165.0	197.8	230.5	263.1	295.7	328.3	360.8	393.2	457.9	522.4	Lbs cs	
42" 3' 6" diameter	Max PSI at E=1.00	40.8	81.5	122.5	162.9	203.6	244.2	284.9	325.5	406.7	487.7	568.7	649.7	730.5	811.3	891.9	972.5	1133.5	1294.1	PSI	
	Max PSI at E=0.85	34.6	69.3	104.2	138.5	173.1	207.6	242.1	276.7	345.7	414.6	483.4	552.2	620.9	689.6	758.1	826.6	963.4	1100.0	PSI	
	Height	9.49	9.51	9.53	9.55	9.57	9.59	9.61	9.63	9.67	9.72	9.76	9.81	9.85	9.90	9.95	9.99	10.09	10.20	Inch	
	Volume	4.67	4.62	4.58	4.53	4.49	4.45	4.40	4.36	4.28	4.20	4.12	4.04	3.96	3.88	3.81	3.73	3.59	3.45	ft^3	
	Weight	22.6	45.1	67.8	90.1	112.6	135.1	157.5	179.9	224.7	269.4	314.0	358.6	403.0	447.4	491.8	536.0	624.4	712.5	Lbs cs	
48" 4' diameter	Max PSI at E=1.00	35.7	71.3	107.2	142.6	178.2	213.8	249.3	284.9	355.9	426.9	497.9	568.7	639.6	710.3	781.0	851.6	992.7	1133.5	PSI	
	Max PSI at E=0.85	30.3	60.6	91.1	121.2	151.4	181.7	211.9	242.1	302.6	362.9	423.2	483.4	543.6	603.8	663.8	723.9	843.8	963.4	PSI	
	Height	10.85	10.86	10.88	10.90	10.92	10.94	10.96	10.98	11.03	11.07	11.11	11.16	11.20	11.25	11.29	11.34	11.44	11.54	Inch	
	Volume	6.97	6.92	6.86	6.80	6.74	6.69	6.63	6.57	6.46	6.36	6.25	6.14	6.04	5.94	5.84	5.74	5.55	5.36	ft^3	
	Weight	29.5	58.9	88.6	117.8	147.2	176.5	205.8	235.1	293.7	352.1	410.5	468.8	526.9	585.0	643.1	701.0	816.7	932.0	Lbs cs	
54" 4' 6" diameter	Max PSI at E=1.00	31.7	63.4	95.3	126.7	158.4	190.0	221.7	253.3	316.5	379.6	442.7	505.8	568.7	631.7	694.6	757.4	883.0	1008.3	PSI	
	Max PSI at E=0.85	26.9	53.9	81.0	107.7	134.6	161.5	188.4	215.3	269.0	322.7	376.3	429.9	483.4	536.9	590.4	643.8	750.5	857.1	PSI	
	Height	12.20	12.22	12.24	12.26	12.28	12.30	12.32	12.34	12.38	12.42	12.46	12.51	12.55	12.60	12.64	12.69	12.78	12.88	Inch	
	Volume	9.94	9.86	9.79	9.72	9.65	9.57	9.50	9.43	9.29	9.15	9.02	8.88	8.75	8.62	8.49	8.36	8.11	7.87	ft^3	
	Weight	37.3	74.6	112.2	149.1	186.3	223.5	260.6	297.7	371.9	445.9	519.8	593.7	667.4	741.1	814.6	888.1	1034.7	1181.0	Lbs cs	

For Preliminary Use Only --- Contact Pressure Vessel Engineering Ltd. for pressure vessel design and drafting --- Use at your own risk

S = 16000		80:10 Flanged and Dished Heads																© 2003 Pressure Vessel Engineering Ltd.		www.pveng.com	
IKR = 10% of OD, IDR = 80% of OD, thickness as formed, skirt not included																		Phone: (519)-880-9808 Fax: (519) 880-9810			
Head Thickness		0.063	0.125	0.188	0.250	0.313	0.375	0.438	0.500	0.625	0.750	0.875	1.000	1.125	1.250	1.375	1.500	1.750	2.000	Inch	
60" 5' diameter	Max PSI at E=1.00	28.5	57.1	85.8	114.1	142.6	171.0	199.5	228.0	284.9	341.7	398.5	455.3	512.1	568.7	625.4	682.0	795.1	908.1	PSI	
	Max PSI at E=0.85	24.3	48.5	72.9	97.0	121.2	145.4	169.6	193.8	242.1	290.5	338.8	387.0	435.2	483.4	531.6	579.7	675.8	771.9	PSI	
	Height	13.55	13.57	13.59	13.61	13.63	13.65	13.67	13.69	13.73	13.77	13.81	13.86	13.90	13.95	13.99	14.04	14.13	14.22	Inch	
	Volume	13.64	13.55	13.46	13.37	13.28	13.19	13.10	13.02	12.84	12.67	12.50	12.33	12.16	12.00	11.84	11.68	11.36	11.06	ft^3	
	Weight	46.1	92.1	138.5	184.1	230.0	275.9	321.8	367.7	459.3	550.7	642.1	733.4	824.5	915.5	1006.5	1097.3	1278.6	1459.6	Lbs cs	
66" 5' 6" diameter	Max PSI at E=1.00	25.9	51.9	78.0	103.7	129.6	155.5	181.4	207.3	259.0	310.7	362.4	414.0	465.6	517.2	568.7	620.3	723.2	825.9	PSI	
	Max PSI at E=0.85	22.0	44.1	66.3	88.2	110.2	132.2	154.2	176.2	220.2	264.1	308.0	351.9	395.8	439.6	483.4	527.2	614.7	702.0	PSI	
	Height	14.90	14.92	14.94	14.96	14.98	15.00	15.02	15.04	15.08	15.12	15.17	15.21	15.25	15.30	15.34	15.38	15.48	15.57	Inch	
	Volume	18.17	18.06	17.95	17.84	17.73	17.62	17.52	17.41	17.20	16.99	16.78	16.57	16.37	16.17	15.97	15.78	15.39	15.01	ft^3	
	Weight	55.7	111.5	167.6	222.8	278.4	333.9	389.5	445.0	555.9	666.6	777.3	887.8	998.2	1108.4	1218.6	1328.6	1548.3	1767.6	Lbs cs	
72" 6' diameter	Max PSI at E=1.00	23.8	47.6	71.5	95.1	118.8	142.6	166.3	190.0	237.5	284.9	332.3	379.6	426.9	474.2	521.5	568.7	663.1	757.4	PSI	
	Max PSI at E=0.85	20.2	40.4	60.8	80.8	101.0	121.2	141.4	161.5	201.8	242.1	282.4	322.7	362.9	403.1	443.3	483.4	563.7	643.8	PSI	
	Height	16.26	16.28	16.30	16.32	16.34	16.36	16.38	16.40	16.44	16.48	16.52	16.56	16.60	16.65	16.69	16.73	16.82	16.92	Inch	
	Volume	23.60	23.47	23.34	23.21	23.08	22.95	22.82	22.69	22.44	22.19	21.94	21.70	21.45	21.21	20.97	20.74	20.27	19.82	ft^3	
	Weight	66.3	132.6	199.4	265.1	331.3	397.5	463.6	529.7	661.7	793.6	925.4	1057.0	1188.4	1319.8	1451.0	1582.0	1843.8	2105.1	Lbs cs	
78" 6' 6" diameter	Max PSI at E=1.00	21.9	43.9	66.0	87.8	109.7	131.6	153.5	175.4	219.2	263.0	306.8	350.5	394.2	437.9	481.5	525.1	612.3	699.4	PSI	
	Max PSI at E=0.85	18.7	37.3	56.1	74.6	93.2	111.9	130.5	149.1	186.3	223.6	260.7	297.9	335.1	372.2	409.3	446.4	520.5	594.5	PSI	
	Height	17.61	17.63	17.65	17.67	17.69	17.71	17.73	17.75	17.79	17.83	17.87	17.91	17.95	18.00	18.04	18.08	18.17	18.26	Inch	
	Volume	30.02	29.87	29.71	29.56	29.41	29.25	29.10	28.95	28.65	28.36	28.07	27.78	27.49	27.20	26.92	26.64	26.09	25.55	ft^3	
	Weight	77.9	155.7	234.1	311.2	388.9	466.6	544.2	621.7	776.8	931.6	1086.3	1240.9	1395.3	1549.5	1703.7	1857.6	2165.1	2472.1	Lbs cs	
84" 7' diameter	Max PSI at E=1.00	20.4	40.8	61.3	81.5	101.9	122.2	142.6	162.9	203.6	244.2	284.9	325.5	366.1	406.7	447.2	487.7	568.7	649.7	PSI	
	Max PSI at E=0.85	17.3	34.6	52.1	69.3	86.6	103.9	121.2	138.5	173.1	207.6	242.1	276.7	311.2	345.7	380.1	414.6	483.4	552.2	PSI	
	Height	18.96	18.98	19.00	19.02	19.04	19.06	19.08	19.10	19.14	19.18	19.22	19.26	19.31	19.35	19.39	19.44	19.52	19.61	Inch	
	Volume	37.51	37.33	37.15	36.97	36.80	36.62	36.44	36.27	35.92	35.58	35.24	34.90	34.56	34.23	33.90	33.57	32.93	32.30	ft^3	
	Weight	90.3	180.6	271.5	361.0	451.1	541.2	631.2	721.2	901.0	1080.7	1260.2	1439.6	1618.7	1797.7	1976.6	2155.3	2512.2	2868.6	Lbs cs	
90" 7' 6" diameter	Max PSI at E=1.00	19.0	38.0	57.2	76.1	95.1	114.1	133.1	152.1	190.0	228.0	265.9	303.8	341.7	379.6	417.5	455.3	531.0	606.5	PSI	
	Max PSI at E=0.85	16.2	32.3	48.6	64.7	80.8	97.0	113.1	129.3	161.5	193.8	226.0	258.3	290.5	322.7	354.9	387.0	451.3	515.5	PSI	
	Height	20.32	20.34	20.36	20.38	20.40	20.41	20.43	20.45	20.49	20.53	20.58	20.62	20.66	20.70	20.74	20.79	20.87	20.96	Inch	
	Volume	46.15	45.94	45.74	45.53	45.33	45.13	44.93	44.72	44.32	43.93	43.53	43.14	42.76	42.37	41.99	41.62	40.87	40.14	ft^3	
	Weight	103.7	207.3	311.7	414.4	517.9	621.3	724.7	828.0	1034.5	1240.9	1447.0	1653.0	1858.8	2064.4	2269.8	2475.1	2885.2	3294.6	Lbs cs	
96" 8' diameter	Max PSI at E=1.00	17.8	35.7	53.6	71.3	89.1	106.9	124.8	142.6	178.2	213.8	249.3	284.9	320.4	355.9	391.4	426.9	497.9	568.7	PSI	
	Max PSI at E=0.85	15.2	30.3	45.6	60.6	75.8	90.9	106.0	121.2	151.4	181.7	211.9	242.1	272.4	302.6	332.7	362.9	423.2	483.4	PSI	
	Height	21.67	21.69	21.71	21.73	21.75	21.77	21.79	21.81	21.85	21.89	21.93	21.97	22.01	22.05	22.09	22.14	22.22	22.31	Inch	
	Volume	56.02	55.79	55.55	55.32	55.09	54.86	54.63	54.40	53.94	53.49	53.04	52.60	52.15	51.72	51.28	50.85	49.99	49.15	ft^3	
	Weight	118.0	235.9	354.6	471.5	589.3	706.9	824.6	942.2	1177.2	1412.1	1646.7	1881.1	2115.4	2349.5	2583.3	2817.0	3283.9	3750.0	Lbs cs	
102" 8' 6" diameter	Max PSI at E=1.00	16.8	33.6	50.5	67.1	83.9	100.7	117.4	134.2	167.7	201.2	234.7	268.2	301.6	335.0	368.5	401.9	468.7	535.4	PSI	
	Max PSI at E=0.85	14.3	28.5	42.9	57.1	71.3	85.6	99.8	114.1	142.5	171.0	199.5	227.9	256.4	284.8	313.2	341.6	398.4	455.1	PSI	
	Height	23.02	23.04	23.06	23.08	23.10	23.12	23.14	23.16	23.20	23.24	23.28	23.32	23.36	23.40	23.45	23.49	23.57	23.66	Inch	
	Volume	67.22	66.95	66.69	66.42	66.16	65.90	65.64	65.38	64.86	64.35	63.84	63.34	62.84	62.34	61.85	61.36	60.39	59.43	ft^3	
	Weight	133.2	266.3	400.4	532.3	665.3	798.1	931.0	1063.7	1329.1	1594.3	1859.3	2124.1	2388.6	2653.0	2917.1	3181.1	3708.4	4235.0	Lbs cs	

For Preliminary Use Only --- Contact Pressure Vessel Engineering Ltd. for pressure vessel design and drafting --- Use at your own risk

S = 16000		80:10 Flanged and Dished Heads																© 2003 Pressure Vessel Engineering Ltd.		www.pveng.com	
IKR = 10% of OD, IDR = 80% of OD, thickness as formed, skirt not included																		Phone: (519)-880-9808 Fax: (519) 880-9810			
Head Thickness		0.063	0.125	0.188	0.250	0.313	0.375	0.438	0.500	0.625	0.750	0.875	1.000	1.125	1.250	1.375	1.500	1.750	2.000	Inch	
108" 9' diameter	Max PSI at E=1.00	15.9	31.7	47.7	63.4	79.2	95.1	110.9	126.7	158.4	190.0	221.7	253.3	284.9	316.5	348.0	379.6	442.7	505.8	PSI	
	Max PSI at E=0.85	13.5	26.9	40.5	53.9	67.3	80.8	94.3	107.7	134.6	161.5	188.4	215.3	242.1	269.0	295.8	322.7	376.3	429.9	PSI	
	Height	24.38	24.40	24.42	24.44	24.45	24.47	24.49	24.51	24.55	24.59	24.63	24.67	24.72	24.76	24.80	24.84	24.93	25.01	Inch	
	Volume	79.81	79.51	79.21	78.92	78.62	78.33	78.04	77.75	77.17	76.59	76.02	75.45	74.89	74.33	73.77	73.22	72.13	71.05	ft^3	
	Weight	149.3	298.5	448.9	596.8	745.9	894.9	1043.8	1192.7	1490.3	1787.6	2084.8	2381.7	2678.4	2974.9	3271.2	3567.3	4158.8	4749.5	Lbs cs	
114" 9' 6" diameter	Max PSI at E=1.00	15.0	30.0	45.2	60.1	75.1	90.1	105.1	120.1	150.1	180.0	210.0	240.0	269.9	299.8	329.8	359.7	419.5	479.2	PSI	
	Max PSI at E=0.85	12.8	25.5	38.4	51.1	63.8	76.6	89.3	102.1	127.6	153.0	178.5	204.0	229.4	254.9	280.3	305.7	356.5	407.3	PSI	
	Height	25.73	25.75	25.77	25.79	25.81	25.83	25.85	25.87	25.91	25.95	25.99	26.03	26.07	26.11	26.15	26.19	26.28	26.36	Inch	
	Volume	93.88	93.55	93.22	92.89	92.56	92.23	91.91	91.58	90.94	90.29	89.65	89.02	88.39	87.76	87.14	86.52	85.30	84.09	ft^3	
	Weight	166.3	332.6	500.2	665.0	831.1	997.1	1163.1	1329.0	1660.6	1992.0	2323.2	2654.1	2984.8	3315.3	3645.5	3975.6	4634.9	5293.5	Lbs cs	
120" 10' diameter	Max PSI at E=1.00	14.3	28.5	42.9	57.1	71.3	85.6	99.8	114.1	142.6	171.0	199.5	228.0	256.4	284.9	313.3	341.7	398.5	455.3	PSI	
	Max PSI at E=0.85	12.1	24.3	36.5	48.5	60.6	72.7	84.8	97.0	121.2	145.4	169.6	193.8	218.0	242.1	266.3	290.5	338.8	387.0	PSI	
	Height	27.08	27.10	27.12	27.14	27.16	27.18	27.20	27.22	27.26	27.30	27.34	27.38	27.42	27.46	27.50	27.54	27.63	27.71	Inch	
	Volume	109.52	109.15	108.78	108.42	108.05	107.69	107.33	106.97	106.25	105.54	104.83	104.12	103.42	102.73	102.04	101.35	99.99	98.64	ft^3	
	Weight	184.3	368.6	554.2	736.9	920.9	1104.9	1288.8	1472.7	1840.2	2207.5	2574.5	2941.3	3307.8	3674.1	4040.2	4406.0	5136.9	5866.9	Lbs cs	
126" 10' 6" diameter	Max PSI at E=1.00	13.6	27.2	40.9	54.3	67.9	81.5	95.1	108.6	135.8	162.9	190.0	217.1	244.2	271.3	298.4	325.5	379.6	433.7	PSI	
	Max PSI at E=0.85	11.6	23.1	34.7	46.2	57.7	69.3	80.8	92.3	115.4	138.5	161.5	184.6	207.6	230.6	253.7	276.7	322.7	368.6	PSI	
	Height	28.44	28.46	28.48	28.50	28.51	28.53	28.55	28.57	28.61	28.65	28.69	28.73	28.77	28.81	28.86	28.90	28.98	29.07	Inch	
	Volume	126.80	126.39	125.99	125.59	125.19	124.79	124.39	123.99	123.20	122.41	121.63	120.85	120.07	119.30	118.54	117.78	116.27	114.78	ft^3	
	Weight	203.2	406.3	611.0	812.4	1015.3	1218.2	1421.0	1623.7	2029.0	2434.0	2838.7	3243.2	3647.4	4051.3	4455.1	4858.5	5664.7	6469.9	Lbs cs	
132" 11' diameter	Max PSI at E=1.00	13.0	25.9	39.0	51.9	64.8	77.8	90.8	103.7	129.6	155.5	181.4	207.3	233.2	259.0	284.9	310.7	362.4	414.0	PSI	
	Max PSI at E=0.85	11.0	22.0	33.2	44.1	55.1	66.1	77.1	88.2	110.2	132.2	154.2	176.2	198.2	220.2	242.1	264.1	308.0	351.9	PSI	
	Height	29.79	29.81	29.83	29.85	29.87	29.89	29.91	29.93	29.97	30.01	30.04	30.09	30.13	30.17	30.21	30.25	30.33	30.42	Inch	
	Volume	145.81	145.37	144.92	144.48	144.04	143.60	143.16	142.72	141.85	140.99	140.13	139.27	138.42	137.57	136.73	135.90	134.24	132.59	ft^3	
	Weight	223.0	446.0	670.6	891.7	1114.4	1337.1	1559.6	1782.2	2227.0	2671.5	3115.8	3559.8	4003.6	4447.0	4890.2	5333.2	6218.3	7102.3	Lbs cs	
138" 11' 6" diameter	Max PSI at E=1.00	12.4	24.8	37.3	49.6	62.0	74.4	86.8	99.2	124.0	148.8	173.5	198.3	223.0	247.8	272.5	297.2	346.7	396.1	PSI	
	Max PSI at E=0.85	10.5	21.1	31.7	42.2	52.7	63.3	73.8	84.3	105.4	126.4	147.5	168.5	189.6	210.6	231.6	252.7	294.7	336.7	PSI	
	Height	31.14	31.16	31.18	31.20	31.22	31.24	31.26	31.28	31.32	31.36	31.40	31.44	31.48	31.52	31.56	31.60	31.68	31.77	Inch	
	Volume	166.63	166.15	165.66	165.18	164.70	164.22	163.74	163.26	162.31	161.36	160.42	159.48	158.55	157.62	156.70	155.78	153.96	152.16	ft^3	
	Weight	243.8	487.4	733.0	974.6	1218.0	1461.4	1704.7	1948.0	2434.2	2920.2	3405.8	3891.2	4376.3	4861.1	5345.7	5829.9	6797.7	7764.3	Lbs cs	
144" 12' diameter	Max PSI at E=1.00	11.9	23.8	35.8	47.6	59.4	71.3	83.2	95.1	118.8	142.6	166.3	190.0	213.8	237.5	261.2	284.9	332.3	379.6	PSI	
	Max PSI at E=0.85	10.1	20.2	30.4	40.4	50.5	60.6	70.7	80.8	101.0	121.2	141.4	161.5	181.7	201.8	222.0	242.1	282.4	322.7	PSI	
	Height	32.50	32.52	32.54	32.55	32.57	32.59	32.61	32.63	32.67	32.71	32.75	32.79	32.83	32.87	32.91	32.95	33.04	33.12	Inch	
	Volume	189.35	188.82	188.29	187.77	187.24	186.72	186.19	185.67	184.63	183.60	182.57	181.55	180.54	179.52	178.52	177.52	175.53	173.56	ft^3	
	Weight	265.4	530.8	798.1	1061.2	1326.3	1591.3	1856.3	2121.1	2650.7	3179.9	3708.8	4237.4	4765.7	5293.7	5821.4	6348.8	7402.8	8455.7	Lbs cs	
150" 12' 6" diameter	Max PSI at E=1.00	11.4	22.8	34.3	45.6	57.1	68.5	79.9	91.3	114.1	136.9	159.7	182.4	205.2	228.0	250.7	273.5	319.0	364.5	PSI	
	Max PSI at E=0.85	9.7	19.4	29.2	38.8	48.5	58.2	67.9	77.6	97.0	116.3	135.7	155.1	174.4	193.8	213.1	232.5	271.1	309.8	PSI	
	Height	33.85	33.87	33.89	33.91	33.93	33.95	33.97	33.99	34.02	34.06	34.10	34.14	34.18	34.22	34.27	34.31	34.39	34.47	Inch	
	Volume	214.04	213.47	212.89	212.32	211.75	211.18	210.62	210.05	208.92	207.80	206.68	205.57	204.47	203.37	202.27	201.18	199.02	196.88	ft^3	
	Weight	288.0	575.9	866.1	1151.5	1439.2	1726.8	2014.3	2301.7	2876.3	3450.6	4024.6	4598.3	5171.6	5744.7	6317.4	6889.9	8033.9	9176.7	Lbs cs	

For Preliminary Use Only --- Contact Pressure Vessel Engineering Ltd. for pressure vessel design and drafting --- Use at your own risk

S = 16000		80:10 Flanged and Dished Heads																	© 2003 Pressure Vessel Engineering Ltd.	
IKR = 10% of OD, IDR = 80% of OD, thickness as formed, skirt not included																			www.pveng.com	
		Phone: (519)-880-9808 Fax: (519) 880-9810																		
Head Thickness		0.063	0.125	0.188	0.250	0.313	0.375	0.438	0.500	0.625	0.750	0.875	1.000	1.125	1.250	1.375	1.500	1.750	2.000	Inch
156" 13' diameter	Max PSI at E=1.00	11.0	21.9	33.0	43.9	54.9	65.8	76.8	87.8	109.7	131.6	153.5	175.4	197.3	219.2	241.1	263.0	306.8	350.5	PSI
	Max PSI at E=0.85	9.3	18.7	28.1	37.3	46.6	56.0	65.3	74.6	93.2	111.9	130.5	149.1	167.7	186.3	205.0	223.6	260.7	297.9	PSI
	Height	35.20	35.22	35.24	35.26	35.28	35.30	35.32	35.34	35.38	35.42	35.46	35.50	35.54	35.58	35.62	35.66	35.74	35.82	Inch
	Volume	240.79	240.17	239.55	238.93	238.32	237.70	237.09	236.47	235.25	234.04	232.83	231.63	230.43	229.24	228.05	226.87	224.53	222.20	ft^3
	Weight	311.5	622.9	936.7	1245.5	1556.7	1867.7	2178.7	2489.6	3111.2	3732.4	4353.3	4973.9	5594.2	6214.1	6833.7	7453.0	8690.7	9927.1	Lbs cs
162" 13' 6" diameter	Max PSI at E=1.00	10.6	21.1	31.8	42.3	52.8	63.4	74.0	84.5	105.6	126.7	147.8	168.9	190.0	211.1	232.2	253.3	295.4	337.5	PSI
	Max PSI at E=0.85	9.0	18.0	27.0	35.9	44.9	53.9	62.9	71.8	89.8	107.7	125.7	143.6	161.5	179.5	197.4	215.3	251.1	286.9	PSI
	Height	36.56	36.58	36.60	36.61	36.63	36.65	36.67	36.69	36.73	36.77	36.81	36.85	36.89	36.93	36.97	37.01	37.09	37.18	Inch
	Volume	269.68	269.01	268.34	267.68	267.01	266.35	265.69	265.03	263.71	262.40	261.09	259.79	258.50	257.21	255.93	254.65	252.12	249.61	ft^3
	Weight	335.9	671.8	1010.2	1343.2	1678.7	2014.2	2349.6	2684.9	3355.3	4025.3	4695.0	5364.3	6033.3	6701.9	7370.3	8038.3	9373.3	10707.0	Lbs cs
168" 14' diameter	Max PSI at E=1.00	10.2	20.4	30.7	40.8	50.9	61.1	71.3	81.5	101.9	122.2	142.6	162.9	183.3	203.6	223.9	244.2	284.9	325.5	PSI
	Max PSI at E=0.85	8.7	17.3	26.1	34.6	43.3	52.0	60.6	69.3	86.6	103.9	121.2	138.5	155.8	173.1	190.3	207.6	242.1	276.7	PSI
	Height	37.91	37.93	37.95	37.97	37.99	38.01	38.03	38.05	38.08	38.12	38.16	38.20	38.24	38.28	38.32	38.36	38.45	38.53	Inch
	Volume	300.80	300.08	299.35	298.64	297.93	297.21	296.50	295.79	294.37	292.96	291.55	290.15	288.76	287.37	285.99	284.62	281.89	279.18	ft^3
	Weight	361.3	722.5	1086.4	1444.5	1805.4	2166.2	2527.0	2887.6	3608.6	4329.2	5049.5	5769.4	6489.0	7208.2	7927.1	8645.7	10081.7	11516.5	Lbs cs
174" 14' 6" diameter	Max PSI at E=1.00	9.8	19.7	29.6	39.4	49.2	59.0	68.9	78.7	98.3	118.0	137.7	157.3	176.9	196.6	216.2	235.8	275.1	314.3	PSI
	Max PSI at E=0.85	8.4	16.7	25.2	33.5	41.8	50.2	58.5	66.9	83.6	100.3	117.0	133.7	150.4	167.1	183.8	200.5	233.8	267.1	PSI
	Height	39.26	39.28	39.30	39.32	39.34	39.36	39.38	39.40	39.44	39.48	39.52	39.56	39.60	39.64	39.68	39.72	39.80	39.88	Inch
	Volume	334.22	333.45	332.67	331.91	331.14	330.37	329.61	328.84	327.32	325.80	324.30	322.79	321.30	319.81	318.32	316.85	313.91	311.00	ft^3
	Weight	387.5	775.0	1165.4	1549.6	1936.7	2323.8	2710.8	3097.7	3871.1	4644.2	5417.0	6189.3	6961.3	7733.0	8504.2	9275.2	10816.0	12355.4	Lbs cs
180" 15' diameter	Max PSI at E=1.00	9.5	19.0	28.6	38.0	47.6	57.1	66.6	76.1	95.1	114.1	133.1	152.1	171.0	190.0	209.0	228.0	265.9	303.8	PSI
	Max PSI at E=0.85	8.1	16.2	24.3	32.3	40.4	48.5	56.6	64.7	80.8	97.0	113.1	129.3	145.4	161.5	177.7	193.8	226.0	258.3	PSI
	Height	40.62	40.64	40.66	40.67	40.69	40.71	40.73	40.75	40.79	40.83	40.87	40.91	40.95	40.99	41.03	41.07	41.15	41.23	Inch
	Volume	370.03	369.20	368.37	367.55	366.73	365.91	365.09	364.27	362.64	361.02	359.40	357.79	356.19	354.59	353.00	351.42	348.27	345.15	ft^3
	Weight	414.7	829.4	1247.2	1658.3	2072.7	2486.9	2901.0	3315.1	4142.9	4970.3	5797.3	6623.9	7450.2	8276.1	9101.6	9926.8	11576.0	13223.8	Lbs cs
186" 15' 6" diameter	Max PSI at E=1.00	9.2	18.4	27.7	36.8	46.0	55.2	64.4	73.6	92.0	110.4	128.8	147.2	165.5	183.9	202.3	220.6	257.4	294.1	PSI
	Max PSI at E=0.85	7.8	15.6	23.5	31.3	39.1	46.9	54.8	62.6	78.2	93.8	109.5	125.1	140.7	156.3	171.9	187.5	218.8	249.9	PSI
	Height	41.97	41.99	42.01	42.03	42.05	42.07	42.09	42.10	42.14	42.18	42.22	42.26	42.30	42.34	42.38	42.42	42.50	42.59	Inch
	Volume	408.31	407.42	406.54	405.66	404.78	403.91	403.03	402.16	400.42	398.68	396.96	395.24	393.52	391.82	390.12	388.42	385.06	381.72	ft^3
	Weight	442.8	885.6	1331.8	1770.7	2213.2	2655.5	3097.7	3539.9	4423.8	5307.4	6190.6	7073.3	7955.7	8837.7	9719.3	10600.6	12361.9	14121.7	Lbs cs
192" 16' diameter	Max PSI at E=1.00	8.9	17.8	26.8	35.7	44.6	53.5	62.4	71.3	89.1	106.9	124.8	142.6	160.4	178.2	196.0	213.8	249.3	284.9	PSI
	Max PSI at E=0.85	7.6	15.2	22.8	30.3	37.9	45.5	53.0	60.6	75.8	90.9	106.0	121.2	136.3	151.4	166.6	181.7	211.9	242.1	PSI
	Height	43.32	43.34	43.36	43.38	43.40	43.42	43.44	43.46	43.50	43.54	43.58	43.61	43.65	43.69	43.73	43.77	43.86	43.94	Inch
	Volume	449.14	448.20	447.25	446.32	445.39	444.45	443.52	442.59	440.73	438.88	437.04	435.20	433.38	431.56	429.74	427.93	424.34	420.78	ft^3
	Weight	471.9	943.6	1419.1	1886.9	2358.3	2829.7	3300.9	3772.0	4714.0	5655.6	6596.7	7537.5	8477.8	9417.7	10357.3	11296.4	13173.5	15049.1	Lbs cs
198" 16' 6" diameter	Max PSI at E=1.00	8.6	17.3	26.0	34.6	43.2	51.9	60.5	69.2	86.4	103.7	121.0	138.3	155.5	172.8	190.0	207.3	241.8	276.3	PSI
	Max PSI at E=0.85	7.4	14.7	22.1	29.4	36.7	44.1	51.4	58.8	73.5	88.2	102.8	117.5	132.2	146.9	161.5	176.2	205.5	234.8	PSI
	Height	44.68	44.70	44.71	44.73	44.75	44.77	44.79	44.81	44.85	44.89	44.93	44.97	45.01	45.05	45.09	45.13	45.21	45.29	Inch
	Volume	492.61	491.61	490.60	489.61	488.61	487.62	486.63	485.64	483.66	481.69	479.73	477.78	475.83	473.90	471.96	470.04	466.21	462.42	ft^3
	Weight	501.8	1003.5	1509.2	2006.7	2508.0	3009.3	3510.5	4011.6	5013.4	6014.8	7015.8	8016.3	9016.5	10016.2	11015.5	12014.4	14011.0	16006.0	Lbs cs

For Preliminary Use Only --- Contact Pressure Vessel Engineering Ltd. for pressure vessel design and drafting --- Use at your own risk