



**Tarsco** Bolted Tank®  
a TF Warren Company



**Full Service Provider of Liquid and  
Dry Bolted Storage Tank Systems**

**LIQUID & DRY BOLTED TANK**

# **CAPACITY CHARTS**



# Liquid Bolted Tank Capacity Chart

▶ 116" Sheets No Starter

Height and Volume (Feet and U.S. Gallons)  
All capacities are with a 1' 0" freeboard

Sheets Per Ring	Diameter Feet	1 Ring 5' - 2 5/8"	2 Ring 10' - 5/8"	3 Ring 14' - 10 5/8"	4 Ring 19' - 8 5/8"	5 Ring 24' - 6 5/8"	6 Ring 29' - 4 5/8"	7 Ring 34' - 2 5/8"	8 Ring 39' - 5/8"	9 Ring 43' - 10 5/8"	10 Ring 48' - 8 5/8"	11 Ring 53' - 6 5/8"	12 Ring 58' - 4 5/8"
3	9' - 2 3/4"	2,112	4,532	6,952	9,372	11,792	14,212	16,632	19,051	21,471	23,891	26,311	28,731
4	12' - 3 3/4"	3,755	8,057	12,359	16,661	20,963	25,265	29,567	33,869	38,171	42,473	46,775	51,077
5	15' - 4 5/8"	5,867	12,589	19,311	26,033	32,755	39,477	46,199	52,921	59,643	66,364	73,086	79,808
6	18' - 5 1/2"	8,449	18,128	27,808	37,487	47,167	56,847	66,526	76,206	85,885	95,565	105,244	114,924
7	21' - 6 1/2"	11,500	24,675	37,850	51,025	64,200	77,374	90,549	103,724	116,899	130,074	143,249	156,424
8	24' - 7 3/8"	15,020	32,228	49,436	66,644	83,852	101,061	118,269	135,477	152,685	169,893	187,101	204,309
8.5	26' - 1 7/8"	16,956	36,383	55,809	75,235	94,662	114,088	133,514	152,941	172,367	191,793	211,220	230,646
9	27' - 8 3/8"	19,010	40,789	62,568	84,347	106,126	127,905	149,684	171,463	193,242	215,021	236,800	258,579
10	30' - 9 1/4"	23,469	50,356	77,244	104,132	131,019	157,907	184,795	211,682	238,570	265,458	292,345	319,233
11	33' - 10 1/8"	28,397	60,931	93,465	125,999	158,533	191,068	223,602	256,136	288,670	321,204	353,738	386,272
12	36' - 11 1/8"	33,795	72,513	111,231	149,950	188,668	227,386	266,104	304,823	343,541	382,259	420,977	459,696
13	40'	39,662	85,102	130,542	175,983	221,423	266,863	312,303	357,743	403,183	448,624	494,064	539,504
14	43' - 7/8"	45,999	98,699	151,398	204,098	256,798	309,498	362,198	414,897	467,597	520,297	572,997	625,697
15	46' - 1 7/8"	52,805	113,302	173,799	234,296	294,794	355,291	415,788	476,285	536,783	597,280	657,777	718,274
16	49' - 2 3/4"	60,080	128,912	197,745	266,577	335,410	404,242	473,075	541,907	610,739	679,572	748,404	817,237
17	52' - 3 3/4"	67,825	145,530	223,235	300,941	378,646	456,351	534,057	611,762	689,467	767,173	844,878	922,583
18	55' - 4 5/8"	76,039	163,155	250,271	337,387	424,503	511,619	598,735	685,851	772,967	860,083	947,199	1,034,315
19	58' - 5 1/2"	84,722	181,787	278,851	375,916	472,980	570,045	667,109	764,173	861,238	958,302	1,055,367	1,152,431
20	61' - 6 1/2"	93,875	201,426	308,976	416,527	524,078	631,628	739,179	846,730	954,280	1,061,831	1,169,382	1,276,932
21	64' - 7 3/8"	103,497	222,072	340,646	459,221	577,796	696,370	814,945	933,519	1,052,094	1,170,669	1,289,243	1,407,818
22	67' - 8 3/8"	113,589	243,725	373,861	503,998	634,134	764,270	894,406	1,024,543	1,154,679	1,284,815	1,414,952	1,545,088
23	70' - 9 1/4"	124,150	266,385	408,621	550,857	693,093	835,328	977,564	1,119,800	1,262,036	1,404,271	1,546,507	1,688,743
24	73' - 10 1/8"	135,180	290,053	444,926	599,799	754,672	909,545	1,064,418	1,219,291	1,374,164	1,529,036	1,683,909	1,838,782
25	76' - 11 1/8"	146,680	314,728	482,776	650,823	818,871	986,919	1,154,967	1,323,015	1,491,063	1,659,111	1,827,159	1,995,207
26	80'	158,649	340,409	522,170	703,931	885,691	1,067,452	1,249,212	1,430,973	1,612,734	1,794,494	1,976,255	
27	83' - 1"	171,087	367,098	563,109	759,120	955,131	1,151,143	1,347,154	1,543,165	1,739,176	1,935,187	2,131,198	
28	86' - 1 7/8"	183,995	394,794	605,594	816,393	1,027,192	1,237,991	1,448,791	1,659,590	1,870,389	2,081,188		
29	89' - 2 3/4"	197,372	423,497	649,623	875,748	1,101,873	1,327,998	1,554,124	1,780,249	2,006,374	2,232,499		
30	92' - 3 3/4"	211,219	453,208	695,197	937,186	1,179,175	1,421,164	1,663,153	1,905,142	2,147,130	2,389,119		
31	95' - 4 5/8"	225,535	483,925	742,316	1,000,706	1,259,096	1,517,487	1,775,877	2,034,268	2,292,658			
32	98' - 5 5/8"	240,320	515,650	790,979	1,066,309	1,341,639	1,616,968	1,892,298	2,167,628	2,442,957			
33	101' - 6 1/2"	255,575	548,381	841,188	1,133,995	1,426,801	1,719,608	2,012,415	2,305,221	2,598,028			
34	104' - 7 3/8"	271,299	582,120	892,942	1,203,763	1,514,584	1,825,406	2,136,227	2,447,048	2,757,870			
35	107' - 8 3/8"	287,492	616,866	946,240	1,275,614	1,604,988	1,934,362	2,263,735	2,593,109				
36	110' - 9 1/4"	304,155	652,619	1,001,083	1,349,547	1,698,011	2,046,476	2,394,940	2,743,404				
37	113' - 10 1/8"	321,287	689,379	1,057,471	1,425,564	1,793,656	2,161,748	2,529,840	2,897,932				
38	116' - 11 1/8"	338,889	727,147	1,115,405	1,503,662	1,891,920	2,280,178	2,668,436	3,056,694				
39	120'	356,960	765,921	1,174,882	1,583,844	1,992,805	2,401,767	2,810,728	3,219,689				
40	123' - 1"	375,500	805,703	1,235,905	1,666,108	2,096,310	2,526,513	2,956,716					
41	126' - 1 7/8"	394,510	846,491	1,298,473	1,750,455	2,202,436	2,654,418	3,106,399					
42	129' - 2 3/4"	413,989	888,287	1,362,586	1,836,884	2,311,182	2,785,481	3,259,779					
43	132' - 3 3/4"	433,937	931,090	1,428,243	1,925,396	2,422,549	2,919,702	3,416,855					
44	135' - 4 5/8"	454,355	974,900	1,495,445	2,015,991	2,536,536	3,057,081	3,577,626					
45	138' - 5 5/8"	475,242	1,019,717	1,564,193	2,108,668	2,653,143	3,197,618	3,742,093					
46	141' - 6 1/2"	496,599	1,065,542	1,634,485	2,203,428	2,772,371	3,341,314						
47	144' - 7 3/8"	518,425	1,112,373	1,706,322	2,300,270	2,894,219	3,488,167						
48	147' - 8 3/8"	540,720	1,160,212	1,779,704	2,399,195	3,018,687	3,638,179						
49	150' - 9 1/4"	563,485	1,209,058	1,854,630	2,500,203	3,145,776	3,791,349						
50	153' - 10 1/4"	586,719	1,258,910	1,931,102	2,603,294	3,275,485	3,947,677						



13 Ring 63' - 2 5/8"	14 Ring 68' - 5/8"	15 Ring 72' - 10 5/8"	16 Ring 77' - 8 5/8"	17 Ring 82' - 6 5/8"	18 Ring 87' - 4 5/8"	19 Ring 92' - 2 5/8"	20 Ring 97' - 5/8"	21 Ring 101' - 10 5/8"	22 Ring 106' - 8 5/8"	23 Ring 111' - 6 5/8"	24 Ring 116' - 4 5/8"	25 Ring 121' - 2 5/8"	26 Ring 126' - 5/8"
31,151	33,571												
55,379	59,681												
86,530	93,252	99,974	106,696	113,418	120,140	126,862	133,584	140,306	147,027	153,749	160,471	167,193	173,915
124,603	134,283	143,963	153,642	163,322	173,001	182,681	192,360	202,040	211,719	221,399	231,079	240,758	250,438
169,599	182,774	195,949	209,124	222,299	235,474	248,649	261,824	274,999	288,174	301,349	314,524	327,699	340,874
221,517	238,725	255,933	273,142	290,350	307,558	324,766	341,974	359,182	376,390	393,598	410,806	428,014	445,223
250,072	269,499	288,925	308,351	327,778	347,204	366,630	386,057	405,483	424,909	444,336	463,762	483,188	502,615
280,358	302,137	323,916	345,695	367,474	389,253	411,032	432,811	454,590	476,369	498,148	519,927	541,706	563,485
346,121	373,008	399,896	426,784	453,671	480,559	507,447	534,334	561,222	588,110	614,997	641,885	668,773	695,660
418,806	451,340	483,874	516,408	548,942	581,476	614,010	646,545	679,079	711,613	744,147	776,681	809,215	841,749
498,414	537,132	575,850	614,569	653,287	692,005	730,723	769,441	808,160	846,878	885,596	924,314		
584,944	630,384	675,824	721,264	766,705	812,145	857,585	903,025	948,465	993,905				
678,397	731,096	783,796	836,496	889,196	941,896	994,595	1,047,295	1,099,995					
778,772	839,269	899,766	960,263	1,020,761	1,081,258	1,141,755							
886,069	954,901	1,023,734	1,092,566	1,161,399	1,230,231								
1,000,289	1,077,994	1,155,700	1,233,405	1,311,110									
1,121,431	1,208,547	1,295,663	1,382,779										
1,249,496	1,346,560	1,443,625											
1,384,483	1,492,033												
1,526,392	1,644,967												
1,675,224													
1,830,979													



# Dry Bolted Tank Capacity Chart

Outlet Diameter = 1 ft.  
 Hopper Outlet Clearance to Bottom of Tank = 2.5 ft.  
 Capacity - Level Full (Cubic Feet)

Contact Tarsco Bolted Tank for larger diameter flat bottom tanks.

Dia (feet)	Eave Height (feet)	Flat Bottom	45° Hopper (ft³)	60° Hopper (ft³)
9.23	25.71	1,721	1,381	1,254
	30.54	2,044	1,704	1,578
	35.38	2,367	2,028	1,901
	40.21	2,691	2,351	2,225
	45.04	3,014	2,674	2,548
	49.88	3,338	2,998	2,872
	54.71	3,661	3,321	3,195
	59.54	3,985	3,645	3,519
	64.38	4,308	3,968	3,842
	69.21	4,632	4,292	4,165
	74.04	4,955	4,615	4,489
	78.88	5,279	4,939	4,812
	83.71	5,602	5,262	5,136
	88.54	5,926	5,586	5,459
	93.38	6,249	5,909	5,783
	98.21	6,573	6,233	6,106
12.31	25.71	3,059	2,332	2,019
	30.54	3,634	2,908	2,594
	35.38	4,209	3,483	3,169
	40.21	4,784	4,058	3,744
	45.04	5,359	4,633	4,319
	49.88	5,934	5,208	4,894
	54.71	6,509	5,783	5,469
	59.54	7,084	6,358	6,044
	64.38	7,659	6,933	6,619
	69.21	8,234	7,508	7,194
	74.04	8,809	8,083	7,769
	78.88	9,384	8,658	8,344
	83.71	9,959	9,233	8,919
	88.54	10,534	9,808	9,494
	93.38	11,109	10,383	10,069
	98.21	11,685	10,958	10,644
15.38	25.71	4,779	3,454	2,824
	30.54	5,678	4,352	3,722
	35.38	6,576	5,251	4,621
	40.21	7,475	6,150	5,520
	45.04	8,373	7,048	6,418
	49.88	9,272	7,947	7,317
	54.71	10,170	8,845	8,215
	59.54	11,069	9,744	9,114
	64.38	11,967	10,642	10,012
	69.21	12,866	11,541	10,911
	74.04	13,764	12,439	11,809
	78.88	14,663	13,338	12,708
	83.71	15,562	14,236	13,606
	88.54	16,460	15,135	14,505
	93.38	17,359	16,033	15,403
	98.21	18,257	16,932	16,302
18.46	25.71	6,882	4,699	3,591
	30.54	8,176	5,993	4,885
	35.38	9,470	7,287	6,179
	40.21	10,764	8,581	7,473
	45.04	12,058	9,875	8,767
	49.88	13,351	11,169	10,060
	54.71	14,645	12,462	11,354
	59.54	15,939	13,756	12,648
	64.38	17,233	15,050	13,942
	69.21	18,527	16,344	15,236
	74.04	19,821	17,638	16,530
	78.88	21,115	18,932	17,824
	83.71	22,409	20,226	19,118
	88.54	23,702	21,520	20,411
	93.38	24,996	22,813	21,705
	98.21	26,290	24,107	22,999

Dia (feet)	Eave Height (feet)	Flat Bottom	45° Hopper (ft³)	60° Hopper (ft³)
21.54	25.71	9,367	6,022	4,241
	30.54	11,128	7,783	6,002
	35.38	12,890	9,545	7,763
	40.21	14,651	11,306	9,524
	45.04	16,412	13,067	11,285
	49.88	18,173	14,828	13,046
	54.71	19,934	16,589	14,807
	59.54	21,695	18,350	16,568
	64.38	23,456	20,111	18,329
	69.21	25,217	21,872	20,091
	74.04	26,978	23,633	21,852
	78.88	28,739	25,395	23,613
	83.71	30,501	27,156	25,374
	88.54	32,262	28,917	27,135
	93.38	34,023	30,678	28,896
	98.21	35,784	32,439	30,657
24.62	25.71	12,235	7,378	
	30.54	14,535	9,678	6,994
	35.38	16,835	11,978	9,294
	40.21	19,135	14,279	11,594
	45.04	21,436	16,579	13,894
	49.88	23,736	18,879	16,194
	54.71	26,036	21,179	18,495
	59.54	28,336	23,479	20,795
	64.38	30,637	25,780	23,095
	69.21	32,937	28,080	25,395
	74.04	35,237	30,380	27,696
	78.88	37,537	32,680	29,996
	83.71	39,838	34,981	32,296
	88.54	42,138	37,281	34,596
	93.38	44,438	39,581	36,896
	98.21	46,738	41,881	39,197
27.69	25.71	15,485	8,720	
	30.54	18,396	11,631	7,781
	35.38	21,307	14,542	10,692
	40.21	24,218	17,454	13,604
	45.04	27,130	20,365	16,515
	49.88	30,041	23,276	19,426
	54.71	32,952	26,187	22,337
	59.54	35,863	29,098	25,249
	64.38	38,774	32,010	28,160
	69.21	41,686	34,921	31,071
	74.04	44,597	37,832	33,982
	78.88	47,508	40,743	36,893
	83.71	50,419	43,655	39,805
	88.54	53,331	46,566	42,716
	93.38	56,242	49,477	45,627
	98.21	59,153	52,388	48,538
30.77	25.71	19,117	10,003	
	30.54	22,711	13,597	
	35.38	26,305	17,191	11,880
	40.21	29,899	20,785	15,474
	45.04	33,493	24,379	19,068
	49.88	37,087	27,973	22,662
	54.71	40,682	31,567	26,256
	59.54	44,276	35,161	29,850
	64.38	47,870	38,755	33,444
	69.21	51,464	42,350	37,038
	74.04	55,058	45,944	40,632
	78.88	58,652	49,538	44,227
	83.71	62,246	53,132	47,821
	88.54	65,840	56,726	51,415
	93.38	69,434	60,320	55,009
	98.21	73,028	63,914	58,603

Dia (feet)	Eave Height (feet)	Flat Bottom	45° Hopper (ft³)	60° Hopper (ft³)
33.85	25.71	23,131	11,180	
	30.54	27,480	15,529	
	35.38	31,829	19,878	
	40.21	36,178	24,227	17,125
	45.04	40,527	28,576	21,474
	49.88	4,876	32,925	25,823
	54.71	49,225	37,274	30,171
	59.54	53,573	41,622	34,520
	64.38	57,922	45,971	38,869
	69.21	62,271	50,320	43,218
	74.04	66,620	54,669	47,567
	78.88	70,969	59,018	51,916
	83.71	75,318	63,367	56,265
	88.54	79,667	67,716	60,613
	93.38	84,016	72,064	64,962
	98.21	88,364	76,413	69,311
36.92	25.71	27,528	12,207	
	30.54	32,704	17,383	
	35.38	37,879	22,558	
	40.21	43,055	27,734	18,478
	45.04	48,230	32,909	23,653
	49.88	53,406	38,085	28,829
	54.71	58,581	43,260	34,004
	59.54	63,757	48,436	39,180
	64.38	68,932	53,611	44,355
	69.21	74,108	58,787	49,531
	74.04	79,283	63,962	54,706
	78.88	84,459	69,138	59,882
	83.71	89,634	74,313	65,057
	88.54	94,810	79,489	70,233
	93.38	99,985	84,664	75,408
	98.21	105,161	89,840	80,584
40.00	30.54	38,382	19,112	
	35.38	44,456	25,186	
	40.21	50,530	31,260	
	45.04	56,604	37,334	25,527
	49.88	62,678	43,408	31,601
	54.71	68,752	49,482	37,675
	59.54	74,826	55,556	43,749
	64.38	80,900	61,630	49,823
	69.21	86,974	67,704	55,897
	74.04	93,048	73,778	61,971
	78.88	99,122	79,852	68,045
	83.71	105,196	85,926	74,119
	88.54	111,270	92,000	80,194
	93.38	117,344	98,074	86,268
	98.21	123,418	104,148	92,342
	43.08	30.54	44,514	20,670
35.38		51,558	27,715	
40.21		58,602	34,759	
45.04		65,647	41,804	27,016
49.88		72,691	48,848	34,061
54.71		79,736	55,892	41,105
59.54		86,780	62,937	48,150
64.38		93,825	69,981	55,194
69.21		100,869	77,026	62,239
74.04		107,914	84,070	69,283
78.88		114,958	91,115	76,327
83.71		122,002	98,159	83,372
88.54		129,047	105,204	90,416
93.38		136,091	112,248	97,461
98.21		139,152	120,020	105,766

Tarsco Bolted Tank  
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