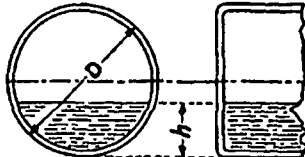


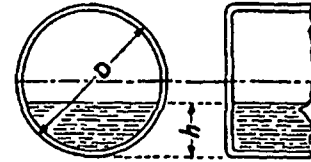
TABLE 45-D1 CAPACITIES OF HORIZONTAL CYLINDRICAL TANKS WHEN FILLED TO VARIOUS DEPTHS

Tanks with Flat Ends. Contents Given in U.S. Gallons per One Foot of Length

Diam of Tank, in	Depth of Liquid, in = h																				
	Full Tank	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60
12	5.88	1.15	2.94																		
18	13.22	1.45	5.86	6.61																	
24	23.50	1.70	4.60	8.05	11.75																
30	36.72	1.91	5.23	9.27	13.72	18.36															
36	52.88	2.12	5.79	10.34	15.43	20.85	26.44														
42	71.97	2.28	6.31	11.31	16.97	23.07	29.47	35.99													
48	94.01	2.45	6.78	12.20	18.38	25.10	32.20	39.54	47.00												
54	118.98	2.60	7.22	13.04	19.68	26.97	34.72	42.80	51.08	59.49											
60	146.89	2.75	7.64	13.82	20.91	28.72	37.06	45.82	54.87	64.11	73.44										
66	177.73	2.89	8.04	14.56	22.07	30.37	39.28	48.65	58.39	68.41	78.59	88.86									
72	211.52	3.02	8.42	15.26	23.17	31.92	41.36	51.32	61.71	72.45	83.41	94.54	105.76								
78	248.24	3.15	8.78	15.94	24.21	33.41	43.34	53.86	64.87	76.27	87.97	99.90	111.97	124.13							
84	287.90	3.26	9.12	16.57	25.24	34.85	45.24	56.29	67.87	79.91	92.30	104.98	117.85	130.87	143.95						
90	330.49	3.43	9.46	17.20	26.20	36.21	47.05	58.61	70.75	83.39	96.43	109.81	123.45	137.28	151.23	165.25					
96	376.02	3.50	9.79	17.80	27.13	37.32	48.81	60.84	73.52	86.73	100.39	114.44	128.79	143.40	158.17	173.06	188.01				
102	424.50	3.61	10.10	18.37	28.01	39.00	50.49	62.99	76.18	89.94	104.20	118.89	133.92	149.25	164.81	180.53	196.37	212.25			
108	476.10	3.71	10.39	18.94	28.90	40.03	52.14	65.09	78.74	93.04	107.87	123.17	138.87	154.89	171.19	187.71	204.37	221.14	238.05		
114	530.25	3.78	10.74	19.49	29.75	41.22	53.73	67.10	81.24	96.05	111.43	127.31	143.65	160.33	177.33	194.60	212.05	229.65	247.37	265.13	
120	587.54	3.91	10.98	20.02	30.37	42.39	55.26	69.06	83.65	98.95	114.87	131.32	148.25	165.58	183.27	201.24	219.46	237.87	256.43	275.08	293.77



To ascertain the contents of a tank over one-half full. Let h = depth of unfilled portion. Find from the table the quantity corresponding to a depth h . Subtract this quantity from the contents of a full tank.



To ascertain the contents of a tank over one-half full: Let h = depth of unfilled portion. Find from the table the quantity corresponding to a depth h . Subtract this quantity from the contents of a full tank.

SAFETY ENGINEERING TABLES

NOTE. This table may be used in conjunction with Table 45-D2 for finding total volume of liquid in double-dished head tanks. Example: A tank 8 ft long, 3 ft diam, 15 in liquid inside. Solution: 20.85×8 (this table) plus 3.82×2 for dished heads (Table 45-D2) = 174.64 gal.