

BOLTED



Factory Coated Bolted Tanks Leak Free, Long Life-Cycle.

BH Tank has built hundreds of Bolted Steel Tanks in the Western United States. Bolted tanks are often considered as value engineered alternatives to field erected welded tanks. Bolted tanks have continued to gain wide-spread acceptance, not only for their economic advantages, but also for superior coating performance and ease of installation.

Typical Bolted Tank Liquid Storage Applications:

- FIRE PROTECTION RESERVE
- RURAL WATER DISTRICTS
- WASTE WATER SYSTEMS
- DE-MINERALIZED WATER STORAGE
- INDUSTRIAL PROCESSES
- RAW AND POTABLE WATER STORAGE
- HOUSING SUBDIVISIONS
- IRRIGATION AND AGRICULTURE
- MUNICIPALITY RESERVOIRS
- DESALINATION AND RAINWATER

BH Tank's services include site consultation, tank and foundation engineering and installation, piping, valves, controls, hydro-testing, coating inspection, and tank disinfecting. From concept to completion, BH Tanks are built to last.



SPECIFICATIONS / STANDARDS / SIZES

Materials	Coating
<p>Steel Specifications:</p> <ul style="list-style-type: none"> -Plates and sheets shall comply with AWWA D-103-97 -Carbon steel design per ASTM A570 or ASTM A36 -High strength steel design per ASTM A1011 Grade 40, 50, 55 or 60 -Rolled structural shapes per ASTM A36, AISI 1010 <p>Hardware and Sealant Specifications:</p> <ul style="list-style-type: none"> -Bolt Fasteners per ASTM A307 or ASTM A325 (min.) -Bolt head encapsulation of NSF certified high impact polypropylene co-polymer -Sealant per ANSI/NSF 61 one component polyurethane compound -Gaskets per MIL-G-1086D, White EDPM Nitrile 	<p>Surface Preparation:</p> <ul style="list-style-type: none"> -Prior to blasting, caustic wash, hot rinse and dry. -Steel grit blasting to SSPC-SP10 2 mil profile with visual inspection <p>Powder Coating Materials</p> <ul style="list-style-type: none"> -Powder coat in accordance with AWWA D-103 Section 10.6 -Interior-Epoxy & Exterior Primer of Akzo Nobel Resicoat HK002Q Yellow -Exterior color coat of Valthane 730 Urethane Topcoat available in white, tan, light blue, and forrest green (other colors available) <p>Uncoated Alternatives</p> <ul style="list-style-type: none"> -Plain Hot-dipped Galvanized or Stainless Steel <p>Quality Assurance</p> <ul style="list-style-type: none"> -Factory mil thickness (Mikrotest) and holiday inspection -Package coated materials to prevent abrasion and shipping damage -Submerged surface Holiday inspection upon completion of erection -Factory Certified erectors, MSHA and OSHA compliant
Standards	
-Current editions of API 12B, AWWA D-103, NSF 61, NFPA 22, FM, UBC, UPC, UMC, CBC, OSHA, ASTM, AWS, ANSI, SSPC, NACE	

BOLTED TANK CAPACITIES

Unanchored Optional Zone 4	
Factory Mutual Approved Zone 70 (Z-4)	
Less Cost Effective/Uncommon	

Other pre-approved FM Zones are available

I.D. DEC. FT.	STANDARD HEIGHTS (INCREMENTAL HEIGHTS AVAILABLE)								GAL./FT.
	8.06	10.00	16.12	20.00	24.18	32.24	40.21	48.25	
9.231	4,100	5,100	8,100	10,100	12,200	16,200	20,200	24,200	501
12.308	7,200	9,000	14,400	17,900	21,600	28,700	35,800	43,000	890
15.385	11,300	14,000	22,500	27,900	33,700	44,900	56,000	67,100	1,391
18.462	16,200	20,100	32,300	40,100	48,500	64,600	80,600	96,700	2,003
21.539	22,000	27,300	44,000	54,600	66,000	87,900	109,600	131,600	2,726
24.616	28,700	35,700	57,400	71,300	86,100	114,800	143,200	171,800	3,560
26.154	32,400	40,200	64,800	80,400	97,200	129,600	161,600	194,000	4,019
29.709	41,800	51,900	83,600	103,800	125,400	167,200	208,600	250,300	5,186
32.680	50,600	62,800	101,200	125,500	151,800	202,300	252,400	302,800	6,275
34.380	56,000	69,500	112,000	138,900	168,000	223,900	279,300	335,100	6,944
38.662	70,800	87,900	141,600	175,700	212,400	283,200	353,200		8,782
41.592	82,000	101,700	163,900	203,300	245,800	327,700	408,700		10,163
47.534	107,000	132,800	214,000	265,500	321,000	428,000	533,800		13,275
54.962	143,100	177,500	286,100	355,000	429,200	572,200	713,700		17,748
59.418	167,200	207,500	334,400	414,900	501,600	668,800	834,100		20,742
65.360	202,300	251,000	404,600	502,000	606,900	809,200	1,009,300		25,098
72.787	250,900	311,300	501,800	622,600	752,700	1,003,600			31,126
74.272	261,300	324,100	522,500	648,200	783,700	1,044,900			32,409
80.214	304,700	378,100	609,400	756,100	914,100	1,218,800			37,803
89.127	376,200	466,800	752,400	933,500	1,128,500	1,504,700			46,670
92.098	401,700	498,400	803,400	996,700	1,205,000	1,606,700			49,834
95.068	428,000	531,000	856,000	1,062,000	1,284,000	1,712,000			53,099
99.525	469,100	582,000	938,200	1,164,000	1,407,200	1,876,300			58,195
101.010	483,200	599,500	966,400	1,198,900	1,449,500	1,932,700			59,945
103.981	512,000	635,300	1,024,000	1,270,500	1,536,000	2,048,000			63,523
109.922	572,200	709,900	1,144,400	1,419,800	1,716,600	2,288,700			70,989
120.321	685,600	850,600	1,371,200	1,701,200	2,056,700				85,056
148.544	1,044,900	1,296,400	2,089,800	2,592,800	3,134,700				129,638
ADD 0.375' TO TANK INSIDE DIAMETER (I.D.) FOR OUTSIDE DIAMETER DIMENSION									

NOMINAL CAPACITY IN U.S. GALLONS
 CAPACITIES SHOWN ARE TANK VOLUME FULL. ALLOW MIN. 6" HT. REDUCTION FOR FREEBOARD ALLOWANCE
 CAPACITIES SHOWN ARE FOR FLAT STEEL BOTTOM TANKS. OTHER HEIGHT CONFIGURATIONS AVAILABLE.
 ALUMINUM GEODESIC DOMES IN LIEU OF STEEL ROOFS ARE MORE COST EFFECTIVE ON DIAMETERS OVER 65'

