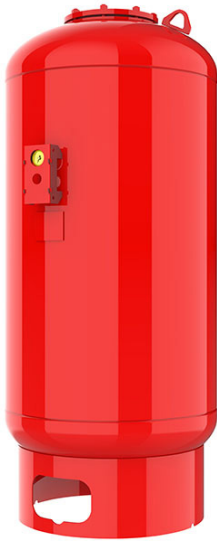




Job	Representative	
Unit tag	Order number	Date
Engineer	Submitted by	Date
Contractor	Approved by	Date



Series "B" (ASME) Pressurized Expansion Tanks

250 PSI working pressure not for potable water systems

Series "B" expansion tanks are ASME rated precharged bladder-type pressure vessels. The Series "B" tank is designed to absorb the expansion forces of heating/cooling system water while maintaining proper system pressurization under varying operating conditions. The heavy duty bladder contains system water thereby eliminating tank corrosion and waterlogging problems. All Series "B" tanks include an integral bladder integrity monitor and are available with sight glass and/or seismic restraints.

Construction materials

System connection: Forged steel

Shell: Carbon steel

Bladder: Heavy duty butyl rubber, designed and constructed per ASME Section VIII, Division 1

Maximum operating limits

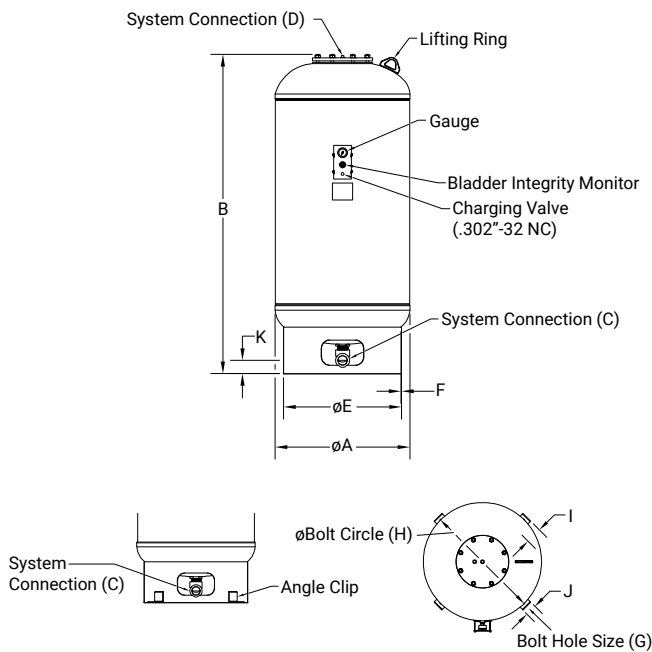
Maximum design pressure: 250 PSI (1,724 kPa)

Design temperature: 240°F (115°C)

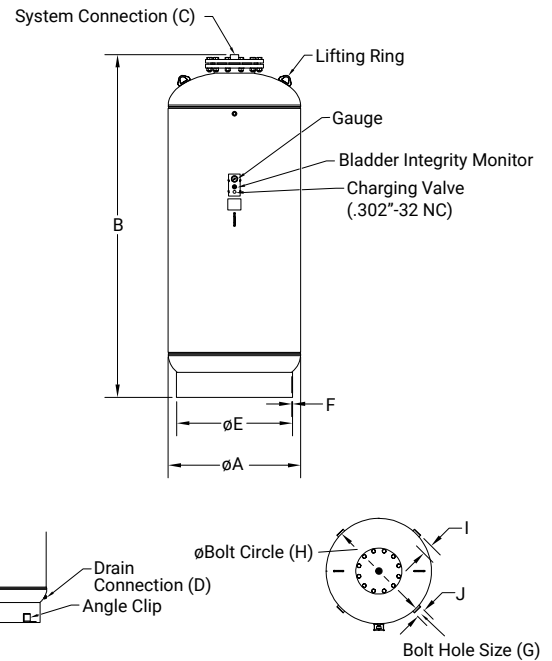
Schedule

Model	Part number				Tank and acceptance volume gal (L)	Tagging information	Quantity
	Pressurized expansion tanks	With sight glass	With seismic restraints	With sight glass & seismic restraints			
B200	116203	116222	116241	116260	53 (200)		
B300	116204	116223	116242	116261	80 (300)		
B400	116205	116224	116243	116262	106 (400)		
B500	116206	116225	116244	116263	132 (500)		
B600	116207	116226	116245	116264	158 (600)		
B800	116208	116227	116246	116265	211 (800)		
B1000	116209	116228	116247	116266	264 (1,000)		
B1200	116210	116229	116248	116267	317 (1,200)		
B1400	116211	116230	116249	116268	370 (1,400)		
B1600	116212	116231	116250	116269	422 (1,600)		
B2000	116213	116232	116251	116270	528 (2,000)		
B2500	116214	116233	116252	116271	660 (2,500)		
B3000	116215	116234	116253	116272	792 (3,000)		
B3500	116216	116235	116254	116273	925 (3,500)		
B4000	116217	116236	116255	116274	1,057 (4,000)		
B5000	116218	116237	116256	116275	1,321 (5,000)		
B7500	116219	116238	116257	116276	1,980 (7,500)		
B10000	116220	116239	116258	116277	2,640 (10,000)		
B15000	116221	116240	116259	116278	3,963 (15,000)		

Series "B" (ASME) pressurized expansion tanks (250 psi working pressure)



Models B200 thru B800



Models B1000 thru B15000

NOTES

Tanks are factory pre-charged at 40 PSI (276 kPa). Allow a minimum of 18" (457.2 mm) clearance for system piping. Sight glass and seismic restraints available. Tanks can be installed in the horizontal position with the gauge/bladder integrity monitor located above the horizontal centerline of the tank.

Dimensions and weights

Model	A in (mm)	B in (mm)	C FNPT (in)	D (in)	E in (mm)	F in (mm)	G in (mm)	H in (mm)	I in (mm)	J in (mm)	K in (mm)	Ship Wt. lbs (kg)	Flooded Wt.* lbs (kg)
B-200	24 (610)	43 (1,092)	1½	¾	20 (508)	0.14 (4)	⅞ (14)	22 (559)	2 (51)	2 (51)	5.25 (133)	220 (100)	661 (300)
B-300	24 (610)	55 (1,397)	1½	¾	20 (508)	0.14 (4)	⅞ (14)	22 (559)	2 (51)	2 (51)	5.25 (133)	282 (128)	948 (431)
B-400	30 (762)	49 (1,245)	1½	¾	24 (610)	0.14 (4)	⅞ (14)	27 (686)	3 (76)	3 (76)	5.25 (133)	410 (186)	1,293 (588)
B-500	30 (762)	57 (1,448)	2	¾	24 (610)	0.14 (4)	⅞ (14)	27 (686)	3 (76)	3 (76)	5.25 (133)	512 (233)	1,612 (733)
B-600	30 (762)	65 (1,651)	2	¾	24 (610)	0.14 (4)	⅞ (14)	27 (686)	3 (76)	3 (76)	5.25 (133)	569 (259)	1,885 (857)
B-800	32 (813)	76 (1,930)	2	¾	28 (711)	0.14 (4)	⅞ (14)	31 (787)	3 (76)	3 (76)	5.25 (133)	711 (323)	2,469 (1,122)
B-1000	36 (914)	76 (1,930)	1½	¾	30 (762)	0.14 (4)	⅞ (14)	33 (838)	3 (76)	3 (76)	N/A	830 (377)	3,029 (1,377)
B-1200	36 (914)	88 (2,235)	1½	¾	30 (762)	0.14 (4)	⅞ (14)	33 (838)	3 (76)	3 (76)	N/A	1,118 (508)	3,759 (1,709)
B-1400	36 (914)	100 (2,540)	1½	¾	30 (762)	0.14 (4)	⅞ (14)	33 (838)	3 (76)	3 (76)	N/A	1,330 (605)	4,412 (2,005)
B-1600	48 (1,219)	74 (1,880)	1½	¾	42 (1,067)	0.14 (4)	⅞ (14)	45 (1,143)	3 (76)	3 (76)	N/A	1,713 (779)	5,228 (2,376)
B-2000	48 (1,219)	86 (2,184)	1½	¾	42 (1,067)	0.20 (5)	⅞ (14)	45 (1,143)	3 (76)	3 (76)	N/A	2,026 (921)	6,424 (2,920)
B-2500	48 (1,219)	104 (2,642)	2	¾	42 (1,067)	0.20 (5)	⅞ (14)	46 (1,168)	4 (102)	4 (102)	N/A	2,352 (1,069)	7,850 (3,568)
B-3000	48 (1,219)	124 (3,150)	2	¾	42 (1,067)	0.20 (5)	⅞ (14)	46 (1,168)	4 (102)	4 (102)	N/A	2,782 (1,265)	9,379 (4,263)
B-3500	54 (1,372)	111 (2,819)	2	¾	42 (1,067)	0.31 (8)	⅞ (14)	46 (1,168)	4 (102)	4 (102)	N/A	2,965 (1,348)	10,670 (4,850)
B-4000	60 (1,524)	105 (2,667)	2	¾	54 (1,372)	0.31 (8)	⅞ (14)	58 (1,473)	4 (102)	4 (102)	N/A	3,736 (1,698)	12,541 (5,700)
B-5000	60 (1,524)	128 (3,251)	2	¾	54 (1,372)	0.31 (8)	⅞ (14)	58 (1,473)	4 (102)	4 (102)	N/A	4,485 (2,039)	15,489 (7,040)
B-7500	72 (1,829)	131 (3,327)	3	1	66 (1,676)	0.31 (8)	⅞ (14)	70 (1,778)	4 (102)	4 (102)	N/A	6,583 (2,992)	23,076 (10,489)
B-10000	72 (1,829)	162 (4,115)	3	1	66 (1,676)	0.31 (8)	⅞ (14)	70 (1,778)	4 (102)	4 (102)	N/A	8,068 (3,667)	30,059 (13,663)
B-15000	72 (1,829)	233 (5,918)	3	1	66 (1,676)	0.31 (8)	⅞ (14)	70 (1,778)	4 (102)	4 (102)	N/A	12,030 (5,468)	45,042 (20,474)

Dimensions subject to change. Not to be used for construction purposes. *Approximate weight 100% full occurs if bag fails or if air charge is lost.

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A-362C March 2025

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