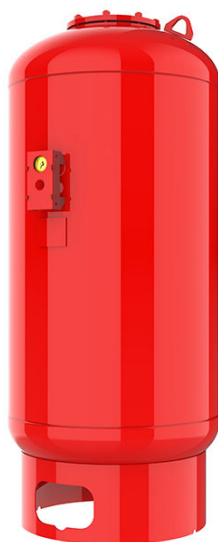


Job	Representative	
Unit tag	Order number	Date
Engineer	Submitted by	Date
Contractor	Approved by	Date



Series "B" (ASME) Pressurized Expansion Tanks

175 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

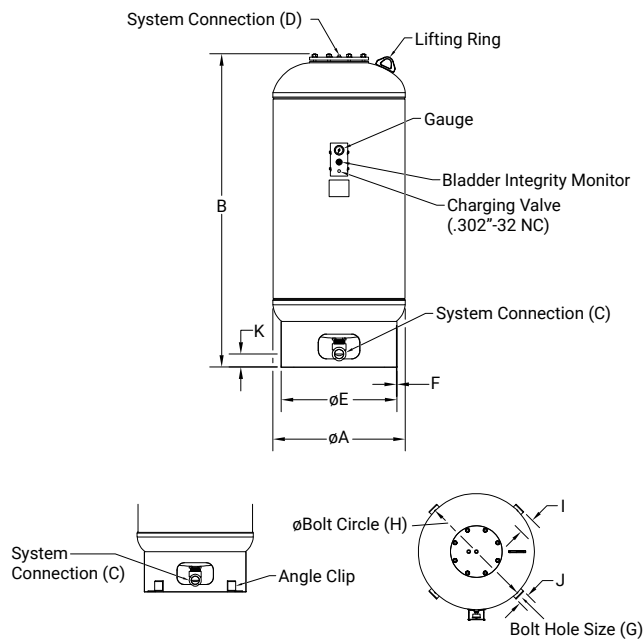
Maximum design pressure: 175 PSI (1,207 kPa)

Design temperature: 240°F (115°C)

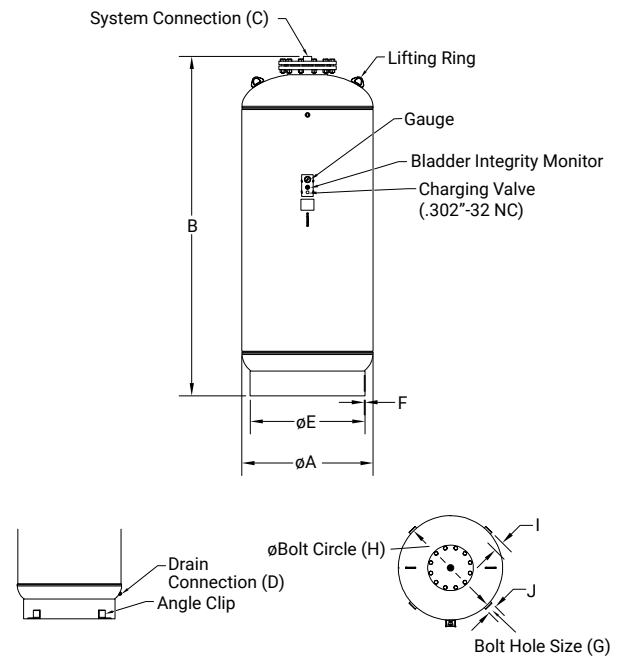
Schedule

Model number	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	116127	116146	116165	116184	53 (200)		
B300	116128	116147	116166	116185	80 (300)		
B400	116129	116148	116167	116186	106 (400)		
B500	116130	116149	116168	116187	132 (500)		
B600	116131	116150	116169	116188	158 (600)		
B800	116132	116151	116170	116189	211 (800)		
B1000	116133	116152	116171	116190	264 (1,000)		
B1200	116134	116153	116172	116191	317 (1,200)		
B1400	116135	116154	116173	116192	370 (1,400)		
B1600	116136	116155	116174	116193	422 (1,600)		
B2000	116137	116156	116175	116194	528 (2,000)		
B2500	116138	116157	116176	116195	660 (2,500)		
B3000	116139	116158	116177	116196	792 (3,000)		
B3500	116140	116159	116178	116197	925 (3,500)		
B4000	116141	116160	116179	116198	1,057 (4,000)		
B5000	116142	116161	116180	116199	1,321 (5,000)		
B7500	116143	116162	116181	116200	1,980 (7,500)		
B10000	116144	116163	116182	116201	2,640 (10,000)		
B15000	116145	116164	116183	116202	3,963 (15,000)		

Series "B" (ASME) pressurized expansion tanks (175 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)	215 (98)	656 (298)
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)	254 (115)	920 (525)
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)	355 (161)	1,238 (698)
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)	424 (193)	1,524 (846)
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)	465 (211)	1,781 (988)
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)	593 (270)	2,351 (1,317)
B-1000	36 (914)	76 (1,930)	1½	¾	30 (762)	0.14 (4)	⅞ (14)	33 (838)	3 (76)	3 (76)	N/A	691 (314)	2,890 (1,622)
B-1200	36 (914)	88 (2,235)	1½	¾	30 (762)	0.14 (4)	⅞ (14)	33 (838)	3 (76)	3 (76)	N/A	899 (409)	3,540 (1,958)
B-1400	36 (914)	100 (2,540)	1½	¾	30 (762)	0.14 (4)	⅞ (14)	33 (838)	3 (76)	3 (76)	N/A	1,009 (459)	4,091 (2,223)
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	1,380 (627)	4,895 (2,688)
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	1,588 (722)	5,986 (3,271)
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	1,898 (863)	7,396 (4,092)
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	2,220 (1,009)	8,817 (4,867)
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	2,417 (1,099)	10,122 (5,643)
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	2,987 (1,358)	11,792 (6,510)
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	3,551 (1,614)	14,555 (8,030)
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	5,176 (2,353)	21,669 (11,946)
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	6,348 (2,885)	28,339 (15,694)
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	8,978 (4,081)	41,990 (22,957)

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-343F March 2025

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