

ASME Expansion Tanks

SERIES B FULL ACCEPTANCE
PRE-CHARGED BLADDER TANKS

**Designed for Closed Hydronic
Heating and Cooling Systems**

DESCRIPTION

Series B expansion tanks are ASME rated pre-charged 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.

- Increases system performance
- Reduces oxygen corrosion
- Prevents waterlogging
- Replaceable bladder
- Integrated bladder integrity monitor on all models
- Designed and built according to ASME Section VIII, Division 1 standards
- 125 PSI working pressure standard
- High maximum operating temperatures
- Seismic restraints available
- Sight glass available

OPERATING DATA

Maximum working pressure: 125 PSI (862 kPa)

Maximum operating temperature: 240°F (115°C)

Tanks are factory pre-charged at 40 PSI (276 kPa)

MATERIALS OF CONSTRUCTION

System connection: forged steel

Shell: carbon steel

Bladder: heavy duty butyl rubber

Designed and constructed per ASME Section VIII, Division 1

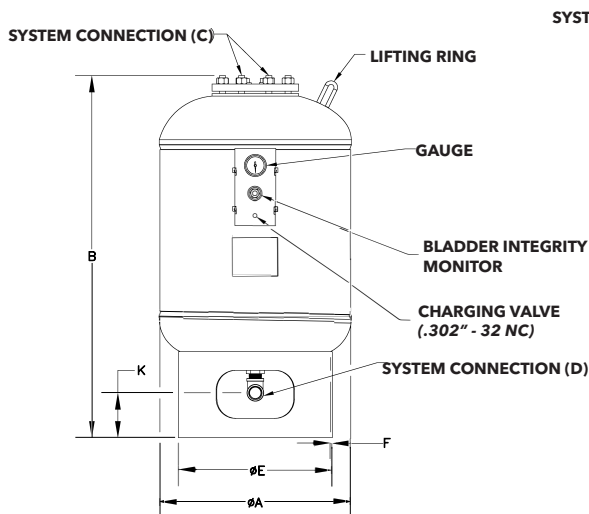


Series B Full Acceptance Tanks

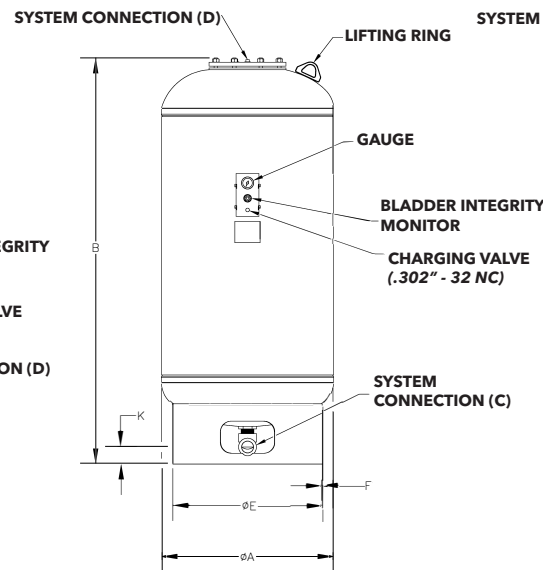
Dimensions

Model	TANK AND ACCEPTANCE	A	B	C FNPT	D FNPT	E	F	K	Shipping Wt.	Flooded Wt.*
	Gallons (Liters)	Inches (mm)							LBS (KG)	
B35	10 (38)	12 (305)	23.5 (597)	3/4	N/A	10 (254)	0.14 (4)	N/A	40 (18)	123 (56)
B50	13 (49)	14 (356)	24 (610)	3/4	N/A	10 (254)	0.14 (4)	N/A	50 (23)	158 (72)
B85	23 (85)	16 (406)	37 (940)	3/4	1	12 (305)	0.14 (4)	5.5 (140)	90 (41)	273 (124)
B100	26 (100)	20 (508)	31 (787)	3/4	1	16 (406)	0.14 (4)	5.5 (140)	103 (47)	320 (145)
B130	34.4 (130)	20 (508)	37 (940)	3/4	1	16 (406)	0.14 (4)	5.5 (140)	125 (57)	408 (185)
B165	44 (165)	24 (610)	34 (864)	3/4	1-1/2	20 (508)	0.14 (4)	5.5 (140)	150 (68)	517 (235)
B-200	53 (200)	24 (610)	43 (1,092)	1-1/2	3/4	20 (508)	0.14 (4)	5.25 (133)	210 (95)	651 (295)
B-300	80 (300)	24 (610)	55 (1,397)	1-1/2	3/4	20 (508)	0.14 (4)	5.25 (133)	225 (102)	891 (404)
B-400	106 (400)	30 (762)	49 (1,245)	1-1/2	3/4	24 (610)	0.14 (4)	5.25 (133)	300 (136)	1,183 (537)
B-500	132 (500)	30 (762)	57 (1,448)	2	3/4	24 (610)	0.14 (4)	5.25 (133)	335 (152)	1,435 (651)
B-600	158 (600)	30 (762)	65 (1,651)	2	3/4	24 (610)	0.14 (4)	5.25 (133)	360 (163)	1,676 (760)
B-800	211 (800)	32 (813)	76 (1,930)	2	3/4	28 (711)	0.14 (4)	5.25 (133)	475 (215)	2,233 (1,013)
B-1000	264 (1,000)	36 (914)	76 (1,930)	1-1/2	3/4	30 (762)	0.14 (4)	N/A	552 (250)	2,751 (1,248)
B-1200	317 (1,200)	36 (914)	88 (2,235)	1-1/2	3/4	30 (762)	0.14 (4)	N/A	679 (308)	3,320 (1,506)
B-1400	370 (1,400)	36 (914)	100 (2,540)	1-1/2	3/4	30 (762)	0.14 (4)	N/A	688 (312)	3,770 (1,710)
B-1600	422 (1,600)	48 (1,219)	74 (1,880)	1-1/2	3/4	42 (1,067)	0.14 (4)	N/A	1,046 (474)	4,561 (2,068)
B-2000	528 (2,000)	48 (1,219)	86 (2,184)	1-1/2	3/4	42 (1,067)	0.20 (5)	N/A	1,150 (522)	5,548 (2,516)
B-2500	660 (2,500)	48 (1,219)	104 (2,642)	2	3/4	42 (1,067)	0.20 (5)	N/A	1,444 (655)	6,942 (3,148)
B-3000	792 (3,000)	48 (1,219)	124 (3,150)	2	3/4	42 (1,067)	0.20 (5)	N/A	1,658 (752)	8,255 (3,744)
B-3500	925 (3,500)	54 (1,372)	83 (2,108)	2	3/4	42 (1,067)	0.31 (8)	N/A	1,868 (847)	9,573 (4,341)
B-4000	1,057 (4,000)	60 (1,524)	105 (2,667)	2	3/4	54 (1,372)	0.31 (8)	N/A	2,238 (1,015)	11,043 (5,008)
B-5000	1,321 (5,000)	60 (1,524)	128 (3,251)	2	3/4	54 (1,372)	0.31 (8)	N/A	2,617 (1,187)	13,621 (6,177)
B-7500	1,980 (7,500)	72 (1,829)	131 (3,327)	3	1	66 (1,676)	0.31 (8)	N/A	3,768 (1,709)	20,261 (9,189)
B-10000	2,640 (10,000)	72 (1,829)	162 (4,115)	3	1	66 (1,676)	0.31 (8)	N/A	4,628 (2,099)	26,619 (12,072)
B-15000	3,963 (15,000)	72 (1,829)	233 (5,918)	3	1	66 (1,676)	0.31 (8)	N/A	5,925 (2,687)	38,937 (17,659)

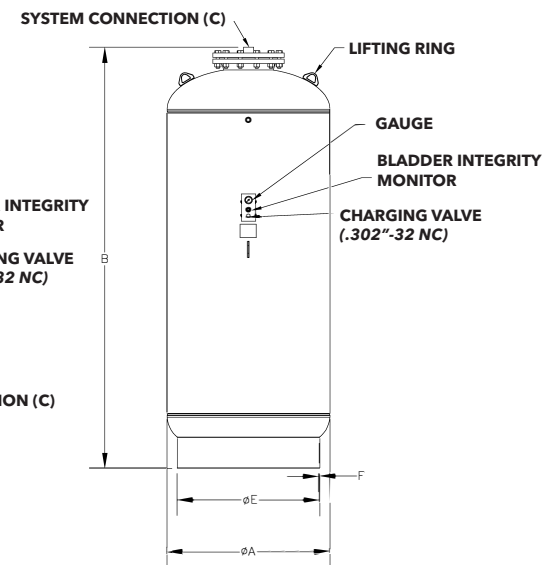
Dimensions subject to change. Not to be used for construction purposes. *Approximate weight 100% full occurs if bag fails or if air charge is lost. Refer to submittals for optional seismic restraints.



Models B35 thru B165



Models B200 thru B800



Models B1000 thru B15000



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