

Designed for Closed Hydronic
Heating and Cooling Systems

ASME Expansion Tanks Series “B” Full Acceptance Pre-Charged Bladder Tanks

- Increases System Performance
- Reduces Oxygen Corrosion
- Prevents Waterlogging
- Replaceable Bladder
- Meets ASME Section VIII, Division 1 Standards
- 125 PSI Working Pressure Standard
- High Maximum Operating Temperature 240°F
- Seismic Restraints Available
- “California” Sight Glass Available
- Higher Working Pressure of 175 PSI & 250 PSI Available

Bell & Gossett®



ITT Industries
Engineered for life

Series "B" Full Acceptance Tanks

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.

Dimensions: Gallons (Ltrs.), Inches (mm), Weights: LBS. (KG)

OPERATING DATA

Maximum working pressure 125 PSI (862kPa)

Maximum operating temperature 240°F (115°C)

MATERIALS OF CONSTRUCTION

System Connection: Forged Steel

Shell: Carbon Steel

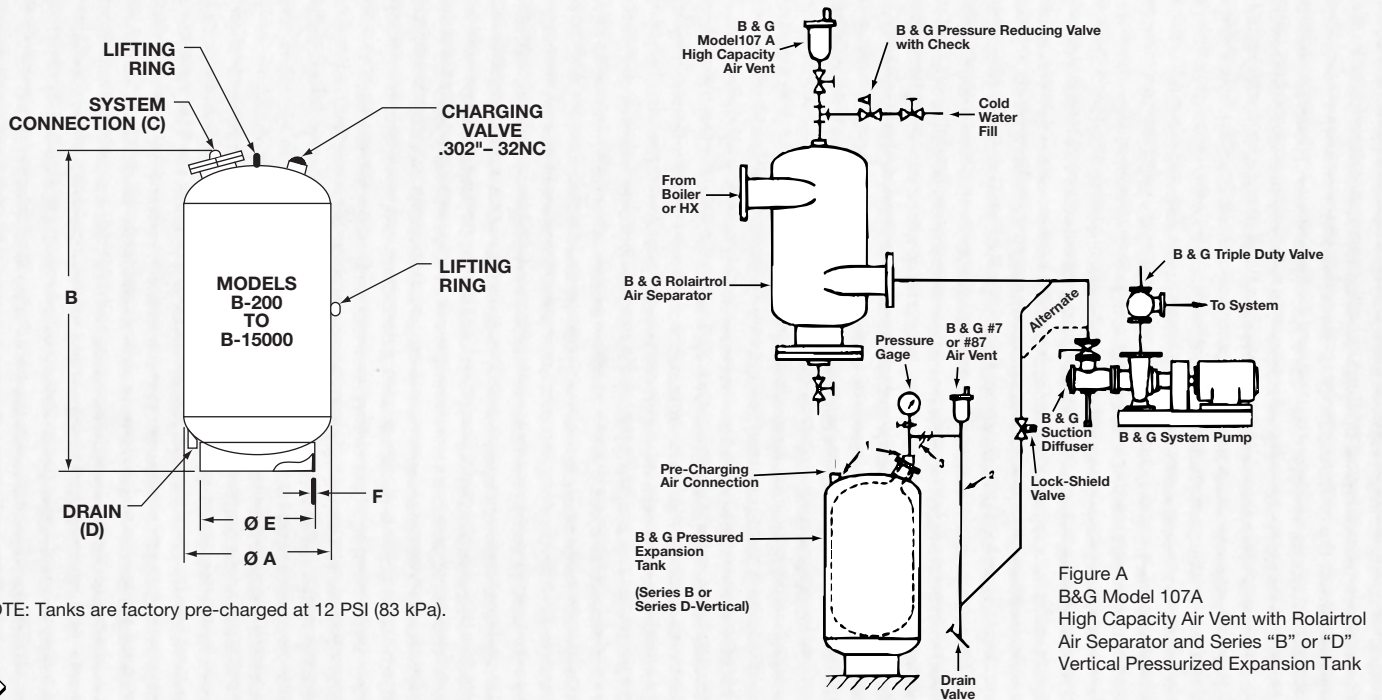
Bladder: Heavy Duty Butyl Rubber

Designed and Constructed per ASME Section VIII, Division 1

| PART NUMBER | MODEL NUMBER | TANK VOLUME | ACCEPTANCE VOLUME | A | B | C (NPTF) | D | E | F | APPROX. SHPG. WT. | APPROX. WT. 100% FULL* |
|-------------|--------------|--------------|-------------------|--------------|--|----------|-------|--------------|-------------|-------------------|------------------------|
| 116550 | B-200 | 53 (200) | 53 (200) | 24 (610) | 36 ⁷ / ₈ (936) | 1 | 3/4 | 19 (483) | 3/16 (5) | 192 (87) | 629 (285) |
| 116551 | B-300 | 80 (300) | 80 (300) | | 50 ⁷ / ₈ (1292) | | | | | 268 (122) | 928 (421) |
| 116552 | B-400 | 106 (400) | 106 (400) | | 64 ³ / ₄ (1644) | | | | | 309 (140) | 1184 (537) |
| 116553 | B-500 | 132 (500) | 132 (500) | 30 (762) | 78 (1981) | 1 1/2 | 1 | 24 (610) | 328 (149) | 1417 (643) | |
| 116554 | B-600 | 158 (600) | 158 (600) | | 63 ³ / ₄ (1619) | | | | 510 (232) | 1814 (823) | |
| 116555 | B-800 | 211 (800) | 211 (800) | | 81 ³ / ₄ (2076) | | | | 656 (297) | 2306 (1046) | |
| 116556 | B-1000 | 264 (1000) | 264 (1000) | 36 (914) | 73 (1854) | 2 | 1 1/4 | 30 (762) | 691 (313) | 2869 (1301) | |
| 116557 | B-1200 | 317 (1200) | 317 (1200) | | 85 ³ / ₈ (2169) | | | | 779 (353) | 3394 (1539) | |
| 116558 | B-1400 | 370 (1400) | 370 (1400) | | 97 ³ / ₄ (2483) | | | | 905 (410) | 3958 (1795) | |
| 116559 | B-1600 | 422 (1600) | 422 (1600) | 48 (1219) | 69 ¹ / ₈ (1756) | 3 | 1 1/2 | 42 (1067) | 1183 (537) | 4665 (2116) | |
| 116560 | B-2000 | 528 (2000) | 528 (2000) | | 84 (2145) | | | | 1264 (573) | 5620 (2549) | |
| 116793 | B-2500 | 660 (2500) | 660 (2500) | | 100 ⁷ / ₈ (2562) | | | | 1445 (655) | 6890 (3125) | |
| 116794 | B-3000 | 792 (3000) | 792 (3000) | 54 (1372) | 118 ¹ / ₈ (3000) | 2 | 1 1/2 | 42 (1067) | 1630 (739) | 8164 (3703) | |
| 116795 | B-3500 | 925 (3500) | 925 (3500) | | 111 (2820) | | | | 2110 (957) | 9741 (4418) | |
| 116796 | B-4000 | 1057 (4000) | 1057 (4000) | | 124 ¹ / ₂ (3163) | | | | 2230 (1011) | 10950 (4967) | |
| 116819 | B-5000 | 1321 (5000) | 1321 (5000) | 60 (1524) | 128 (3251) | 3 | 1 1/2 | 54 (1372) | 2450 (1111) | 13403 (6079) | |
| 116841 | B-7500 | 1980 (7500) | 1980 (7500) | | 127 (3326) | | | | 4000 (1814) | 20500 (9299) | |
| 116842 | B-10000 | 2640 (10000) | 2640 (10000) | | 159 (4039) | | | | 4900 (2223) | 26890 (12197) | |
| 116843 | B-15000 | 3963 (15000) | 3963 (15000) | 72 (1829) | 233 (5918) | 3 | 1 1/2 | 54 (1372) | 6000 (2721) | 39010 (17695) | |

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.

TYPICAL HYDRONIC HEATING/COOLING APPLICATION



NOTE: Tanks are factory pre-charged at 12 PSI (83 kPa).



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