

JOB:	REPRESENTATIVE:	
UNIT TAG:	ORDER NO.:	DATE:
ENGINEER:	SUBMITTED BY:	DATE:
CONTRACTOR:	APPROVED BY:	DATE:



Series "PT"

Residential/Commercial Potable Water Diaphragm Expansion Tanks

For Potable Water Systems

DESCRIPTION

The Series "PT" tank is designed to absorb the forces of expanding water and protect the domestic water system from pressure build up. The FDA approved heavy duty butyl diaphragm and polypropylene liner (sizes PT-5 through PT-210V) or butyl bladder (sizes PT-451 through PT-457) completely isolate the water from the shell.

Models PT-5 through PT-210V are listed by NSF61.

Factory Precharge Pressure:
 PT-5 – PT-210V: 38 PSI
 PT-451 – PT-457: 55 PSI

CONSTRUCTION

Shell: Carbon Steel
 System Connection: PT-25V through PT-210V: Stainless Steel
 All others: Brass
 PT-5 through PT-210V: Butyl Diaphragm;
 Polypropylene Liner
 PT-451 through PT-457: Butyl Bladder

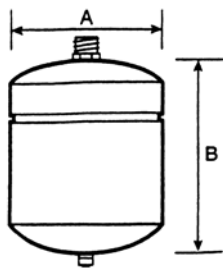
PERFORMANCE LIMITATIONS

Maximum Design Pressure: PT-5 through PT-12: 150 PSI (1035 kPa)
 PT-25V through PT-210V: 100 PSI (689 kPa)
 PT-451 through PT-457: 55 PSI (379 kPa)
 Max. Design Temp: PT-5 through PT-210V: 200 °F (93 °C)
 PT-451 through PT-457: 240 °F (116 °C)

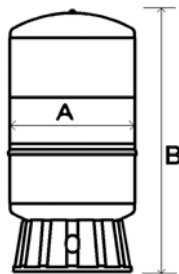
SCHEDULE

PART NUMBER	MODEL NUMBER	VOLUME GALLONS (LITERS)		TAGGING INFORMATION	QUANTITY
		TANK	ACCEPTANCE		
1BN317LF	PT-5	2 (7.5)	0.9 (3.4)		
1BN318	PT-12	4.4 (16.6)	3.2 (12.4)		
1BN319LF	PT-25V	10.3 (39)	10.3 (39)		
1BN320LF	PT-30V	14 (53)	11.3 (43)		
1BN321LF	PT-42V	20 (76)	11.4 (43)		
1BN322LF	PT-60V	34 (129)	34 (129)		
1BN323LF	PT-80V	44 (167)	33.8 (128)		
1BN324LF	PT-180V	62 (235)	34.1 (129)		
1BN325LF	PT-210V	86 (326)	46.4 (176)		
1BN010LF	PT-451	158 (600)	102.7 (388)		
1BN011LF	PT-452	211 (800)	137.2 (519)		
1BN012LF	PT-453	264 (1000)	171.6 (650)		
1BN013LF	PT-454	317 (1200)	206.1 (780)		
1BN014LF	PT-455	370 (1400)	240.5 (910)		
1BN015LF	PT-456	422 (1600)	274.3 (1038)		
1BN016LF	PT-457	528 (2000)	343.2 (1300)		

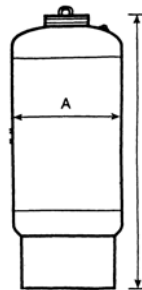
DIMENSIONS AND WEIGHTS



Models PT-5 & PT-12



Models PT-25V through PT-210V



Models PT-447 through PT-457

DIMENSIONS IN INCHES (MM)

MODEL NO.	A DIAMETER	B HEIGHT	SYSTEM CONNECTION	CHARGING VALVE	Shipping Wt Lbs. (Kg)
PT-5	8 (203)	12-5/8 (321)	3/4" NPTM	.305"-32 NC	5 (2.3)
PT-12	11 (279)	15 (381)	3/4" NPTM	.305"-32 NC	9 (4.1)
PT-25V	15-3/8 (390)	19-1/4 (489)	3/4" NPTF	.305"-32 NC	23 (10.4)
PT-30V	15-3/8 (390)	24-3/4 (629)	1" NPTF	.305"-32 NC	24 (11)
PT-42V	15-3/8 (390)	32-1/2 (825)	1" NPTF	.305"-32 NC	34 (15.5)
PT-60V	22 (559)	31.8 (808)	1-1/4" NPTF	.305"-32 NC	56 (25.5)
PT-80V	22 (559)	36-1/2 (927)	1-1/4" NPTF	.305"-32 NC	64 (29.1)
PT-180V	22 (559)	48-1/2 (1232)	1-1/4" NPTF	.305"-32 NC	89 (40.5)
PT-210V	26 (660)	46 (1168)	1-1/4" NPTF	.305"-32 NC	116 (52.8)
PT-451	30 (762)	73-1/4 (1861)	2" NPTF	.305"-32 NC	508 (230)
PT-452	30 (762)	91 (2317)	2" NPTF	.305"-32 NC	760 (345)
PT-453	36 (914)	85-5/8 (2175)	3" NPTF	.305"-32 NC	810 (368)
PT-454	36 (914)	98 (2489)	3" NPTF	.305"-32 NC	914 (415)
PT-455	36 (914)	110-3/8 (2804)	3" NPTF	.305"-32 NC	1018 (462)
PT-456	48 (1219)	81-7/8 (2080)	3" NPTF	.305"-32 NC	1655 (750)
PT-457	48 (1219)	97-1/4 (2470)	3" NPTF	.305"-32 NC	1925 (873)

TYPICAL SPECIFICATIONS

Furnish and install as shown on plans a _____ gallon (_____ liter), _____" (_____ mm) diameter x _____" (_____ mm) high pre-charged vertical steel expansion tank with integral, heavy duty butyl blend diaphragm and lined dome, FDA approved for domestic potable water. The tank shall have a _____" NPTF system connection, and a .305"-32 charging valve connection (standard tire valve) to facilitate on-site charging of the tank to meet system requirements.

The air and water connections are brazed (silver solder) to tank. The tank must be designed for a maximum working pressure of _____ PSI (_____ kPa) and maximum working temperature of _____ °F (_____ °C).

Each tank shall be Bell & Gossett Model No. _____

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**Designed for Potable
Hot Water Systems**

Non-ASME Expansion Tanks

Series "PT" Pre-charged Tanks

Series "PT" Potable Hot Water Tanks

DESCRIPTION

The Series PT expansion tank is designed to absorb the forces of expanding water and protect a potable water system from pressure build up. The FDA approved heavy duty butyl diaphragm with polypropylene liner (sizes PT-5 through PT-210V) and FDA approved heavy duty butyl bladder (sizes PT-451 through PT-457) completely isolate the water from the steel shell.

Models PT-5 through PT-210V are listed by NSF 61.

RESIDENTIAL/LIGHT COMMERCIAL NON-ASME DIAPHRAGM TANKS

Maximum Working Pressure:

PT-5 & PT-12150 PSI (1035kPa)
 PT-25V thru PT-210V100 PSI (689kPa)

Maximum Operating Temperature200°F m(93°C)

Materials: Steel Shell, Polypropylene Liner, Butyl Diaphragm
 System Connection: PT-25V thru PT-210V are stainless steel.

All others are brass.

Factory Pre-charge38 PSI (276kPa)

COMMERCIAL NON-ASME BLADDER TANKS

Maximum Working Pressure150 PSI (1035kPa)

Maximum Operating Temperature240°F m(116°C)

Materials: Steel Shell, Butyl Bladder

System ConnectionBronze

Factory Pre-charge55 PSI (379kPa)

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

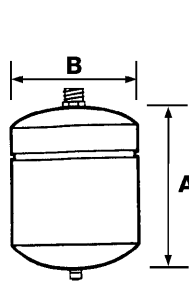
Residential/Light Commercial Non-ASME Diaphragm Tanks

MODEL NUMBER	PART NUMBER	VOLUME GALLONS (Liters)		A HEIGHT	B DIAMETER	SYSTEM CONNECTION	APPROX. SHPG. WT. LBS. (Kg)
		TANK	ACCEPTANCE				
PT-5	1BN317LF	2 (7.5)	0.9 (3.4)	12 ⁵ / ₈ (321)	8 (203)	3/4" NPTM	5 (2.3)
PT-12	1BN318LF	4.4 (16.6)	3.2 (12)	15 (381)	11 (279)		9 (4.1)
PT-25V	1BN319LF	10.3 (39)	10.3 (39)	19 ¹ / ₄ (489)	15 ³ / ₈ (391)	3/4" NPTF	23 (10.4)
PT-30V	1BN320LF	14 (53)	11.3 (43)	24 ³ / ₄ (629)	15 ³ / ₈ (391)	1" NPTF	24 (11)
PT-42V	1BN321LF	20 (76)	11.4 (43)	32 ¹ / ₂ (825)	15 ³ / ₈ (391)		34 (15.5)
PT-60V	1BN322LF	34 (129)	34 (129)	31 ³ / ₄ (808)	22 (559)	1 ¹ / ₄ " NPTF	56 (25.5)
PT-80V	1BN323LF	44 (167)	33.8 (128)	36 ¹ / ₂ (927)	22 (559)		64 (29.1)
PT-180V	1BN324LF	62 (235)	34.1 (129)	48 ¹ / ₂ (1232)	22 (559)		89 (40.5)
PT-210V	1BN325LF	86 (326)	46.4 (176)	46 (1168)	26 (660)		116 (52.8)

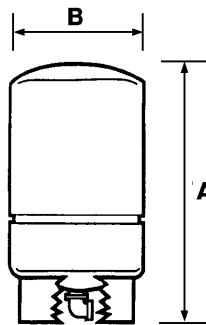
Commercial Non-ASME Bladder Tanks

MODEL NUMBER	PART NUMBER	VOLUME GALLONS (Liters)		A HEIGHT	B DIAMETER	SYSTEM CONNECTION	APPROX. SHPG. WT. LBS. (Kg)
		TANK	ACCEPTANCE				
PT-451	1BN010LF	158 (600)	102.7 (388)	73 ¹ / ₄ (1861)	30 (762)	2" NPTF	508 (230)
PT-452	1BN011LF	211 (800)	137.2 (519)	91 (2317)	30 (762)		760 (345)
PT-453	1BN012LF	264 (1000)	171.6 (650)	85 ⁵ / ₈ (2175)	36 (914)	3" NPTF	810 (368)
PT-454	1BN013LF	317 (1200)	206.1 (780)	98 (2489)	36 (914)		914 (415)
PT-455	1BN014LF	370 (1400)	240.5 (910)	110 ³ / ₈ (2804)	36 (914)		1018 (462)
PT-456	1BN015LF	422 (1600)	274.3 (1038)	81 ⁷ / ₈ (2080)	48 (1219)		1655 (750)
PT-457	1BN016LF	528 (2000)	343.2 (1300)	97 ¹ / ₄ (2470)	48 (1219)		1925 (873)

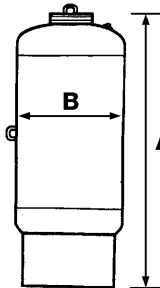
Dimensions subject to change. Not to be used for construction purposes.



PT-5 through PT-12



PT-25V through PT-210V



PT-451 through PT-457



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