

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

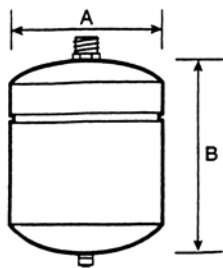
PERFORMANCE LIMITATIONS

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)

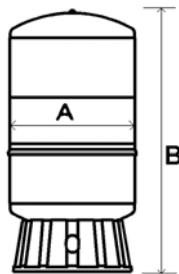
SCHEDULE

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)		

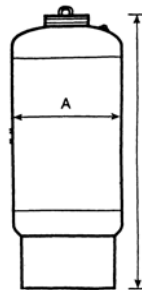
DIMENSIONS AND WEIGHTS



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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