

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

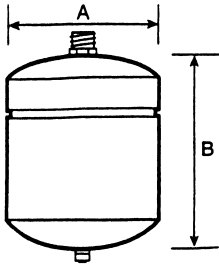
PERFORMANCE LIMITATIONS

Maximum Design Pressure: 150 PSI (1035 kPa) - PT5+PT-12, PT-25V through PT-210V - 100PSI (689 kPa)
Max. Design Temp: PT-5 through PT-210V: 200 °F (93 °C)
PT-451 through PT-457: 240 °F(116 °C)

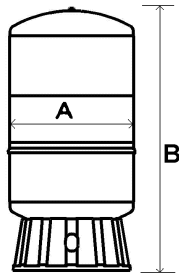
SCHEDULE

PART NUMBER	MODEL NUMBER	VOLUME GALLONS (LITERS)		TAGGING INFORMATION	QUANTITY
		TANK	ACCEPTANCE		
1BN317	PT-5	2 (7.5)	0.9 (3.4)		
1BN318	PT-12	4.4 (16.6)	3.2 (12.4)		
1BN319	PT-25V	10.3 (39)	10.3 (39)		
1BN320	PT-30V	14 (53)	11.3 (43)		
1BN321	PT-42V	20 (76)	11.4 (43)		
1BN322	PT-60V	34 (129)	34 (129)		
1BN323	PT-80V	44 (167)	33.8 (128)		
1BN324	PT-180V	62 (235)	34.1 (129)		
1BN325	PT-210V	86 (326)	46.4 (176)		
1BN010	PT-451	158 (600)	102.7 (388)		
1BN011	PT-452	211 (800)	137.2 (519)		
1BN012	PT-453	264 (1000)	171.6 (650)		
1BN013	PT-454	317 (1200)	206.1 (780)		
1BN014	PT-455	370 (1400)	240.5 (910)		
1BN015	PT-456	422 (1600)	274.3 (1038)		
1BN016	PT-457	528 (2000)	343.2 (1300)		

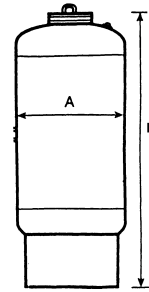
DIMENSIONS AND WEIGHTS



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 150 PSI (1035 kPa) and maximum working temperature of _____ °F (_____ °C).

Each tank shall be Bell & Gossett Model No. _____