

Job	Representative	
Unit tag	Order number	Date
Engineer	Submitted by	Date
Contractor	Approved by	Date

Series "PT"

Residential/commercial potable water
Diaphragm expansion tanks
For potable water systems



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 completely isolate the water from the shell.

Models PT-5 through PT-210V are listed by NSF61.
Factory Pre-Charged Pressure: PT-5 – PT-210V: 38 PSI

Construction materials

Shell: Carbon steel

System connection:

PT-25V through PT-210V: Stainless steel

All others: Brass

PT-5 through PT-210V: Butyl diaphragm;
polypropylene liner

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: 150 PSI
(1035 kPa)

Maximum design temperature:

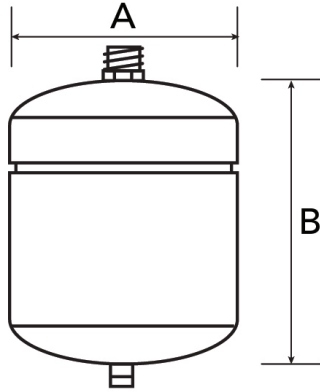
PT-5 through PT-210V: 200 °F (93 °C)

PT-451 through PT-457: 240 °F (116 °C)

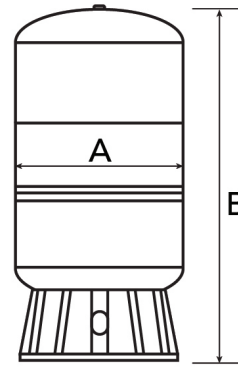
Schedule

Part number	Model number	Volume gallons (liters)		Tagging information	Quantity
		Tank	Acceptance		
1BN317LF	PT-5	2 (7.5)	0.9 (3.4)		
1BN318LF	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)		

Diaphragm expansion tanks – pre-pressurized



Models PT-5 & PT-12



Models PT-25V through PT-210V

Dimensions and weights

Model number	Dimensions - inches (mm)		System connection	Charging valve	Shipping weight lbs (kg)
	A diameter	B height			
PT-5	8 (203)	12 ⁵ / ₈ (321)	¾" NPTM	.305" - 32 NC	5 (2.3)
PT-12	11 (279)	15 (381)	¾" NPTM	.305" - 32 NC	9 (4.1)
PT-25V	15 ³ / ₈ (390)	19¼ (489)	1" NPTF	.305" - 32 NC	23 (10.4)
PT-30V	15 ³ / ₈ (390)	24¾ (629)	1" NPTF	.305" - 32 NC	24 (11)
PT-42V	15 ³ / ₈ (390)	32½ (825)	1" NPTF	.305" - 32 NC	34 (15.5)
PT-60V	22 (559)	31.8 (808)	1¼" NPTF	.305" - 32 NC	56 (25.5)
PT-80V	22 (559)	36½ (927)	1¼" NPTF	.305" - 32 NC	64 (29.1)
PT-180V	22 (559)	48½ (1232)	1¼" NPTF	.305" - 32 NC	89 (40.5)
PT-210V	26 (660)	46 (1168)	1¼" NPTF	.305" - 32 NC	116 (52.8)

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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