

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



Series "PTA" (ASME)

Residential/commercial potable water diaphragm expansion tanks for potable water systems

Series "PTA" expansion tanks are ASME rated, pre-charged diaphragm-type vessels. The Series "PTA" 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 PTA-5 through PTA-210V) or replaceable full acceptance butyl bladder (sizes PTA-447 through PTA-457) completely isolates the water from the shell. All units include an integrated bladder integrity monitor.

Products comply with NSF/ANSI Standard 61. Factory Pre-Charged Pressure: 40 PSI

Construction materials

Shell: Carbon steel

System connection: Stainless steel

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

PTA-447 through PTA-457: replaceable butyl bladder

Performance limitations

PTA-5 through PTA-210V: 240°F (115°C),
150 PSI (1035 kPa)

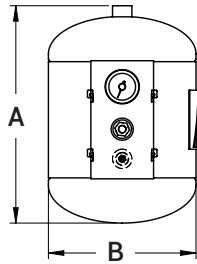
PTA-447 through PTA-457: 240°F (115°C),
150 PSI (1035 kPa)

Schedule

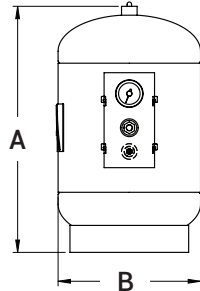
Part number	Model number	Gallons (liters)		Tagging information	Quantity
		Tank volume	Acceptance volume		
1BN346LF	PTA-5	3.5 (13)	2.3 (9)		
1BN347LF	PTA-12	5 (19)	3.3 (12)		
1BN348LF	PTA-20V	8 (30)	5.3 (20)		
1BN349LF	PTA-30V	15 (57)	10 (38)		
1BN350LF	PTA-42V	22 (83)	14 (53)		
1BN351LF	PTA-60V	26 (98)	18 (68)		
1BN352LF	PTA-80V	35 (132)	24 (91)		
1BN353LF	PTA-100V	45 (170)	30 (113)		
1BN354LF	PTA-125V	60 (227)	40 (151)		
1BN355LF	PTA-160V	70 (265)	47 (178)		
1BN356LF	PTA-180V	80 (302)	53 (200)		
1BN357LF	PTA-210V	90 (340)	60 (227)		
1BN358LF	PTA-447	53 (200)	53 (200)		
1BN359LF	PTA-448	80 (300)	80 (300)		
1BN360LF	PTA-449	106 (400)	106 (400)		
1BN361LF	PTA-450	132 (500)	132 (500)		
1BN362LF	PTA-451	158 (600)	158 (600)		
1BN363LF	PTA-452	211 (800)	211 (800)		
1BN364LF	PTA-453	264 (1,000)	264 (1,000)		
1BN365LF	PTA-454	317 (1,200)	317 (1,200)		
1BN366LF	PTA-455	370 (1,400)	370 (1,400)		
1BN367LF	PTA-456	422 (1,600)	422 (1,600)		
1BN368LF	PTA-457	528 (2,000)	528 (2,000)		

Series PTA

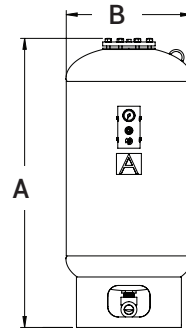
Diaphragm expansion tanks — pre-pressurized (ASME construction)



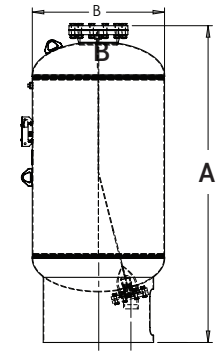
PTA-5 thru PTA-12



PTA-20V thru PTA-210V



PTA-447 thru PTA-449



PTA-450 thru PTA-457

Dimensions and weights

Model number	Dimensions - inches (mm)		System connection	Charging valve	Shipping weight lbs (kg)
	A height	B height			
PTA-5	14 (356)	10 (254)	¾" NPTF	.302"-32 NC	22 (10)
PTA-12	14 (356)	12 (305)	¾" NPTF	.302"-32 NC	28 (13)
PTA-20V	21 (508)	12 (305)	¾" NPTF	.302"-32 NC	34 (15)
PTA-30V	25 (610)	16 (406)	1" NPTF	.302"-32 NC	50 (23)
PTA-42V	31 (787)	16 (406)	1" NPTF	.302"-32 NC	57 (26)
PTA-60V	34 (864)	16 (406)	1" NPTF	.302"-32 NC	62 (28)
PTA-80V	45 (1,143)	16 (406)	1" NPTF	.302"-32 NC	80 (36)
PTA-100V	39 (991)	20 (508)	1" NPTF	.302"-32 NC	110 (50)
PTA-125V	50 (1,270)	20 (508)	1" NPTF	.302"-32 NC	134 (61)
PTA-160V	47 (1,194)	24 (610)	1½" NPTF	.302"-32 NC	177 (80)
PTA-180V	50 (1,270)	24 (610)	1½" NPTF	.302"-32 NC	184 (83)
PTA-210V	53 (1,346)	24 (610)	1½" NPTF	.302"-32 NC	193 (88)
PTA-447	43 (1,092)	24 (610)	1½" NPTF	.302"-32 NC	220 (100)
PTA-448	55 (1,397)	24 (610)	1½" NPTF	.302"-32 NC	236 (107)
PTA-449	49 (1,245)	30 (762)	1½" NPTF	.302"-32 NC	315 (143)
PTA-450	57 (1,448)	30 (762)	2" NPTF	.302"-32 NC	347 (158)
PTA-451	65 (1,651)	30 (762)	2" NPTF	.302"-32 NC	378 (172)
PTA-452	76 (1,930)	32 (813)	2" NPTF	.302"-32 NC	503 (229)
PTA-453	86.5 (2,197)	36 (914)	3" NPTF	.302"-32 NC	795 (361)
PTA-454	98.5 (2,502)	36 (914)	3" NPTF	.302"-32 NC	820 (373)
PTA-455	110.5 (2,807)	36 (914)	3" NPTF	.302"-32 NC	980 (445)
PTA-456	84 (2,134)	48 (1,219)	3" NPTF	.302"-32 NC	1,395 (634)
PTA-457	96 (2,438)	48 (1,219)	3" NPTF	.302"-32 NC	1,525 (693)

Dimensions are subject to change. Not to be used for construction purposes unless certified.

Specifications

Furnish and install as shown on plans a _____ gallon (_____ liter), _____" (_____mm) diameter x _____" (_____mm) high pre-charged vertical steel expansion tank with integral FDA approved, heavy duty butyl blend diaphragm and _____ lined dome, for domestic potable water. The tank shall have a _____" NPT system connection, and a .302"-32 charging valve connection (standard tire valve) to facilitate on-site charging of the tank to meet system requirements. The tank shall include an integrated bladder integrity monitor.

The tank must be constructed in accordance with ASME Code Section VIII Division 1. The tank must be designed for a maximum working pressure of _____ PSI (_____ kPa) and maximum working temperature of _____°F (_____°C).

Each tank shall be Xylem – Bell & Gossett Model No. _____.

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