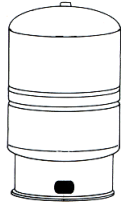


<b>JOB:</b>	<b>REPRESENTATIVE:</b>	
<b>UNIT TAG:</b>	<b>ORDER NO.</b>	<b>DATE:</b>
<b>ENGINEER:</b>	<b>SUBMITTED BY:</b>	<b>DATE:</b>
<b>CONTRACTOR:</b>	<b>APPROVED BY:</b>	<b>DATE:</b>



## Series "PTA" (ASME)

### Residential/Commercial Potable Water Diaphragm Expansion Tanks

For Potable Water Systems

#### DESCRIPTION

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 isolate the water from the shell.

Models PTA-5 through PTA-210V are listed by NSF 61

FACTORY PRE-CHARGED PRESSURE: 55 PSI

#### CONSTRUCTION

Shell: Carbon Steel  
 System Connection: PTA-5 through PTA-210V: Stainless Steel  
                                   PTA-447 through PTA-457: Bronze  
 PTA-5 through PTA-210V: Butyl Diaphragm;  
                                   Polypropylene Liner  
 PTA-447 through PTA-457: Replaceable Butyl Bladder

#### PERFORMANCE LIMITATIONS

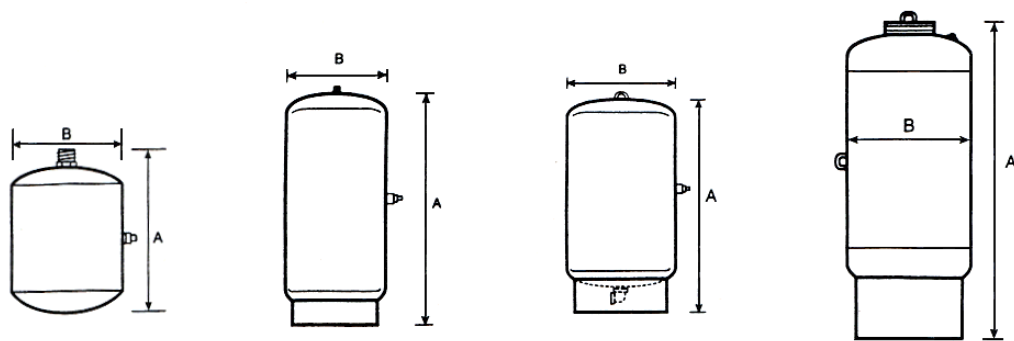
PTA-5 through PTA-210V  
 200°F (93°C), 150 PSI (1035 kPa)  
 PTA-447 through PTA-457  
 240°F (115°C) 125 PSI (862 kPa)

#### SCHEDULE

PART NUMBER	MODEL NUMBER	GALLONS (LITERS)			TAGGING INFORMATION	QUANTITY
		TANK VOLUME	Max. Recommended Acceptance Volume	0 PSIG Acceptance Volume		
1BN051LF	PTA-5	2.1 (8)	0.9 (3)	0.9 (3)		
1BN052LF	PTA-12	6.4 (24)	3.2 (12)	3.2 (12)		
1BN053LF	PTA-20V	8 (30)	3.2 (12)	3.2 (12)		
1BN054LF	PTA-30V	14 (53)	9 (34)	9 (34)		
1BN055LF	PTA-42V	17.5 (66)	11.4 (43)	11.4 (43)		
1BN056LF	PTA-60V	25 (95)	11.3 (43)	11.3 (43)		
1BN057LF	PTA-80V	53 (200)	34.5 (130)	34.5 (130)		
1BN058LF	PTA-180V	77 (292)	33.9 (128)	33.9 (128)		
1BN059LF	PTA-210V	90 (341)	34.3 (129)	34.3 (129)		
1BN067LF	PTA-447	53 (200)	34(129)	53(200)		
1BN068LF	PTA-448	80 (300)	52 (197)	80 (300)		
1BN069LF	PTA-449	106 (400)	69 (261)	106 (400)		
1BN070LF	PTA-450	132 (500)	85 (332)	132 (500)		
1BN060LF	PTA-451	158 (600)	102.7 (389)	158 (600)		
1BN061LF	PTA-452	211 (800)	137.2 (519)	211 (800)		
1BN062LF	PTA-453	264 (1000)	171.6 (650)	264 (1000)		
1BN063LF	PTA-454	317 (1200)	206.1 (780)	317 (1200)		
1BN064LF	PTA-455	370 (1400)	240.5 (910)	370 (1400)		
1BN065LF	PTA-456	422 (1600)	274.3 (1038)	422 (1600)		
1BN066LF	PTA-457	528 (2000)	343.2 (1300)	528 (2000)		

**DIAPHRAGM EXPANSION TANKS - PRE-PRESSURIZED  
(ASME CONSTRUCTION)  
DIMENSIONS AND WEIGHTS**

**A-318D**



PTA-5 & PTA-12

PTA-20V through PTA-42V

PTA-60V through PTA-210V

PTA-447 through PTA-457

**DIMENSIONS IN INCHES (MM)**

MODEL NUMBER	A HEIGHT	B DIAMETER	SYSTEM CONNECTION	CHARGING VALVE	Shipping Wt Lbs. (Kg)
PTA-5	10-3/8 (264)	10 (254)	3/4" NPTM	.302"-32 NC	21 (9.5)
PTA-12	15-5/8 (397)	12 (305)	3/4" NPTM	.302"-32 NC	26 (12)
PTA-20V	19-1/2 (495)	12 (305)	3/4" NPTF	.302"-32 NC	41 (19)
PTA-30V	19-1/8 (486)	16-1/4 (413)	3/4" NPTF	.302"-32 NC	84 (38)
PTA-42V	24-1/4 (616)	16-1/4 (413)	3/4" NPTF	.302"-32 NC	90 (41)
PTA-60V	34 (864)	16-1/4 (413)	3/4" NPTF	.302"-32 NC	96 (44)
PTA-80V	40-1/2 (1029)	24 (610)	1-1/4" NPTF	.302"-32 NC	229 (104)
PTA-180V	52-5/8 (1337)	24 (610)	1-1/4" NPTF	.302"-32 NC	288 (131)
PTA-210V	60 (1524)	24 (610)	1-1/4" NPTF	.302"-32 NC	318 (144)
PTA-447	45-1/4 (1150)	24 (610)	2" NPTF	.302"-32 NC	263 (120)
PTA-448	59-1/8 (1502)	24 (610)	2" NPTF	.302"-32 NC	308 (140)
PTA-449	73-1/8 (1857)	24 (610)	2" NPTF	.302"-32 NC	353 (161)
PTA-450	86-5/8 (2200)	24 (610)	2" NPTF	.302"-32 NC	391 (178)
PTA-451	73-1/4 (1861)	30 (762)	2" NPTF	.302"-32 NC	508 (230)
PTA-452	91 (2317)	30 (762)	2" NPTF	.302"-32 NC	760 (345)
PTA-453	85-5/8 (2175)	36 (914)	3" NPTF	.302"-32 NC	810 (368)
PTA-454	98 (2489)	36 (914)	3" NPTF	.302"-32 NC	914 (415)
PTA-455	110-3/8 (2804)	36 (914)	3" NPTF	.302"-32 NC	1018 (462)
PTA-456	81-7/8 (2080)	48 (1220)	3" NPTF	.302"-32 NC	1655 (750)
PTA-457	97-1/4 (2470)	48 (1220)	3" NPTF	.302"-32 NC	1925 (873)

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

**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 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 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. \_\_\_\_\_

Xylem Inc.  
8200 N. Austin Avenue  
Morton Grove, IL 60053  
Phone: (847)966-3700  
Fax: (847)965-8379  
www.bellgossett.com

**xylem**  
Let's Solve Water