

- Commercial Applications
- ASME Construction
- Controls System Pressure
- Protects Plumbing Fixtures
- Eliminates Relief Valve Blow-Off
- FDA Approved Materials
- High Maximum Operating Temperatures
- High Working Pressures of 175 PSI and 250 PSI Available



**Designed for Potable  
Hot Water Systems**

# ASME Expansion Tanks

SERIES PTA PRE-CHARGED TANKS



# PTA Potable Hot Water Tanks (ASME Construction)

## DESCRIPTION

The Series PTA expansion tank is an ASME constructed vessel designed to absorb the forces of expanding water and protect the domestic water system from pressure build up. PTA-5 through PT-210 are diaphragm tanks that have a FDA approved polypropylene liner and butyl diaphragm that isolate the water from the steel shell. The PTA-447 through PTA-457 are bladder tanks that utilize a FDA approved replaceable butyl bladder to isolate the system water from the steel shell.

## PTA-5 THROUGH PTA-210V DIAPHRAGM TANKS

Maximum Working Pressure . . . . . 150 PSI (1035kPa)  
 Maximum Operating Temperature . . . . . 200°F (93°C)  
 Materials: Polypropylene Liner, Butyl Diaphragm, Steel Shell, Stainless Steel System Connection  
 Factory Precharge . . . . . 55 PSI (379kPa)

## PTA-447 THROUGH PTA-457 BLADDER TANKS

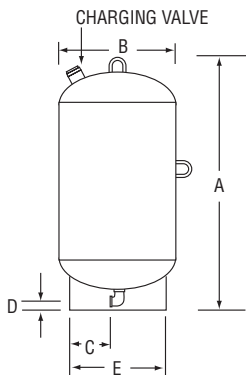
Maximum Working Pressure . . . . . 125 PSI (862kPa)  
 Maximum Operating Temperature . . . . . 240°F (115°C)  
 Materials: Butyl Bladder, Steel Shell, Bronze Connection  
 Factory Precharge . . . . . 55 PSI (379kPa)

All tanks designed and constructed per ASME Section VIII Division 1.

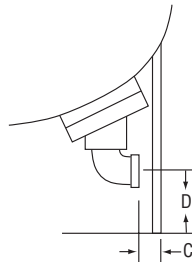
## Dimensions: Gallons (Ltrs.), Inches (mm), Weights: LBS (KG)

MODEL NUMBER	PART NUMBER	TANK VOLUME	MAX. RECOMMENDED ACCEPTANCE VOLUME	0 PSIG. ACCEPTANCE VOLUME	A HEIGHT	B DIAMETER	SYSTEM CONNECTION	APPROX. SHPG. WT.
PTA-5	1BN051LF	2.1 (8)	0.9 (3)	0.9 (3)	10 <sup>3</sup> / <sub>8</sub> (264)	10 (254)	3/4 NPTM	21 (9.5)
PTA-12	1BN052LF	6.4 (24)	3.2 (12)	3.2 (12)	15 <sup>5</sup> / <sub>8</sub> (397)	12 (305)	3/4 NPTM	26 (12)
PTA-20V	1BN053LF	8.0 (30)	3.2 (12)	3.2 (12)	19 <sup>1</sup> / <sub>2</sub> (495)	12 (305)	3/4 NPTF	41 (19)
PTA-30V	1BN054LF	14 (53)	9 (34)	9 (34)	19 <sup>1</sup> / <sub>8</sub> (486)	16 <sup>1</sup> / <sub>4</sub> (413)	3/4 NPTF	84 (38)
PTA-42V	1BN055LF	17.5 (66)	11.4 (43)	11.4 (43)	24 <sup>1</sup> / <sub>4</sub> (616)	16 <sup>1</sup> / <sub>4</sub> (413)	3/4 NPTF	90 (41)
PTA-60V	1BN056LF	25 (95)	11.3 (43)	11.3 (43)	34 (864)	16 <sup>1</sup> / <sub>4</sub> (413)	3/4 NPTF	96 (44)
PTA-80V	1BN057LF	53 (200)	34.5 (130)	34.5 (130)	40 <sup>1</sup> / <sub>2</sub> (1029)	24 (610)	1 <sup>1</sup> / <sub>4</sub> NPTF	229 (104)
PTA-180V	1BN058LF	77 (292)	33.9 (128)	33.9 (128)	52 <sup>5</sup> / <sub>8</sub> (1337)	24 (610)	1 <sup>1</sup> / <sub>4</sub> NPTF	288 (131)
PTA-210V	1BN059LF	90 (341)	34.3 (129)	34.3 (129)	60 (1524)	24 (610)	1 <sup>1</sup> / <sub>4</sub> NPTF	318 (144)
PTA-447	1BN067LF	53 (200)	34 (129)	53 (200)	45 <sup>1</sup> / <sub>4</sub> (1150)	24 (610)	2 NPTF	263 (120)
PTA-448	1BN068LF	80 (300)	52 (197)	80 (300)	59 <sup>1</sup> / <sub>8</sub> (1502)	24 (610)	2 NPTF	308 (140)
PTA-449	1BN069LF	106 (400)	69 (261)	106 (400)	73 <sup>1</sup> / <sub>8</sub> (1857)	24 (610)	2 NPTF	353 (161)
PTA-450	1BN070LF	132 (500)	85 (332)	132 (500)	86 <sup>5</sup> / <sub>8</sub> (2200)	24 (610)	2 NPTF	391 (178)
PTA-451	1BN060LF	158 (600)	102.7 (389)	158 (600)	73 <sup>1</sup> / <sub>4</sub> (1861)	30 (762)	2 NPTF	508 (230)
PTA-452	1BN061LF	211 (800)	137.2 (519)	211 (800)	91 (2317)	30 (762)	2 NPTF	760 (345)
PTA-453	1BN062LF	264 (1000)	171.6 (650)	264 (1000)	85 <sup>5</sup> / <sub>8</sub> (2175)	36 (914)	3 NPTF	810 (368)
PTA-454	1BN063LF	317 (1200)	206.1 (780)	317 (1200)	98 (2489)	36 (914)	3 NPTF	914 (415)
PTA-455	1BN064LF	370 (1400)	240.5 (910)	370 (1400)	110 <sup>3</sup> / <sub>8</sub> (2804)	36 (914)	3 NPTF	1018 (462)
PTA-456	1BN065LF	422 (1600)	274.3 (1038)	422 (1600)	87 <sup>7</sup> / <sub>8</sub> (2080)	48 (1220)	3 NPTF	1655 (750)
PTA-457	1BN066LF	528 (2000)	343.2 (1300)	528 (2000)	97 <sup>1</sup> / <sub>4</sub> (2470)	48 (1220)	3 NPTF	1925 (873)

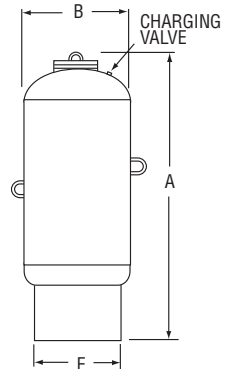
Dimensions subject to change. Not to be used for construction purposes.



PTA-5, PTA-12



PTA-20V through PTA-210V



PTA-447 through PTA-457



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