

# AST SERIES | DOMESTIC HOT WATER EXPANSION TANKS | AST-5 TO AST-210 | SUBMITTAL

File No: 37-53  
Date: APRIL 05, 2022  
Supersedes: 37-53  
Date: OCTOBER 19, 2015

Job: \_\_\_\_\_ Representative: \_\_\_\_\_

\_\_\_\_\_ Order no.: \_\_\_\_\_ Date: \_\_\_\_\_

Engineer: \_\_\_\_\_ Submitted by: \_\_\_\_\_ Date: \_\_\_\_\_

Contractor: \_\_\_\_\_ Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

## DATA

Model no. ordered: \_\_\_\_\_ Qty: \_\_\_\_\_

Tag no.: \_\_\_\_\_ Charge pressure: \_\_\_\_\_ psi/kPa

Standard factory charge is 40 psi (276 kPa) unless otherwise specified.

## MAXIMUM OPERATING CONDITIONS

**Working temperature:** -20°F to 240°F (-29°C to 115.5°C)

**Working pressure:** 150 psi (1034 kPa)

## NOTES

- For Domestic potable water systems & Draw down tanks for Pressure booster systems.
- Designed and constructed per ASME, section VIII, division
- California code-sight glass is available upon request.
- Mounting clips are available on request

## MATERIALS OF CONSTRUCTION

**Shell:** Carbon steel

**Liner:** Polypropylene

**System Connection:** Stainless steel

**Fixed Diaphragm:** Butyl - FDA approved

Complies with NSF/ANSI Standard 61

## TYPICAL SPECIFICATION

Furnish and install, as shown on the plans, Armstrong Model AST-\_\_\_\_\_ ASME pre-charged diaphragm Expansion Tank, stamped 150 psi (1034 kPa) working pressure. Each tank will be supplied with a heavy duty FDA approved butyl diaphragm. Tank sizes AST-20 to AST-210 shall be supplied with a ring base, lifting rings, and NPT system connection. An air charging valve connection (standard tire valve) shall be provided to facilitate adjusting precharge pressure to meet actual system conditions.

MODEL	TANK VOLUME	ACCEPTANCE VOLUME	A	B	SYSTEM CONNECTION NPT	CHARGING VALVE	APPROX. SHIPPING WEIGHT	
					C	E		
		gal.(L)	inches (mm)					lbs.(kg)
AST-5	3.5 (13.2)	2.3 (8.7)	10.00 (254)	14.00 (356)	0.75 (19)	0.302" 32NC	22 (10.0)	
AST-12	5.0 (18.9)	3.3 (12.5)	12.00 (305)	14.00 (356)	0.75 (19)		28 (12.8)	
AST-20	8.0 (30.3)	5.3 (20.1)	12.00 (305)	20.00 (508)	0.75 (19)		34 (15.5)	
AST-30	15.0 (56.8)	10.0 (37.9)	16.00 (406)	24.00 (610)	1.00 (25)		50 (22.68)	
AST-42	22.0 (83.3)	14.5 (54.9)	16.00 (406)	31.00 (787)	1.00 (25)		57 (25.85)	
AST-60	26.0 (98.4)	17.5 (66.2)	16.00 (406)	34.00 (864)	1.00 (25)		62 (28.12)	
AST-80	35.0 (132.5)	23.5 (89.0)	16.00 (406)	45.00 (1143)	1.00 (25)		80 (36.29)	
AST-100	45.0 (170.3)	30 (113.6)	20.00 (508)	39.00 (991)	1.00 (25)		110 (49.89)	
AST-125	60.0 (227.1)	40 (151.4)	20.00 (508)	50.00 (1270)	1.00 (25)		134 (60.78)	
AST-160	70.0 (265.0)	47 (177.9)	24.00 (610)	47.00 (1194)	1.50 (38)		177 (80.28)	
AST-180	80.0 (302.8)	53 (200.6)	24.00 (610)	50.00 (1270)	1.50 (38)		184 (83.46)	
AST-210	90.0 (340.7)	60 (227.1)	24.00 (610)	53.00 (1346)	1.50 (38)		193 (87.54)	

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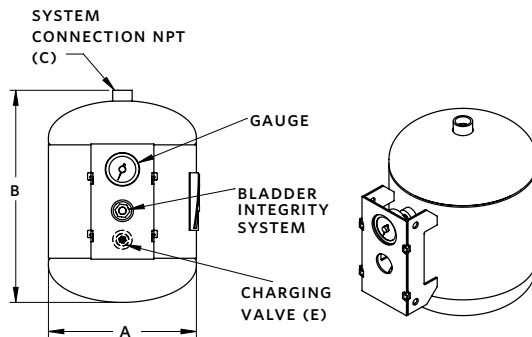
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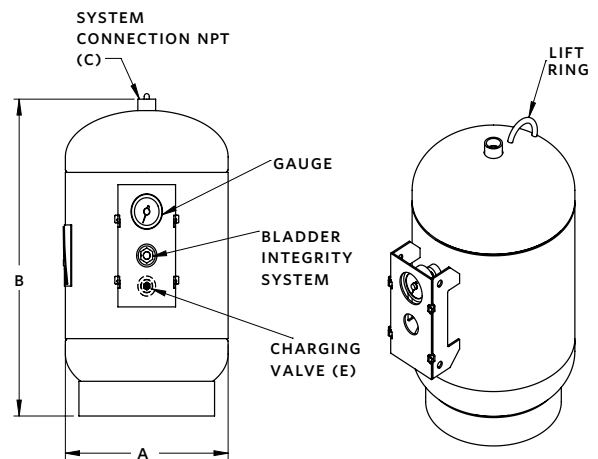
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MODELS AST-5 AND AST-12



MODELS AST-20 TO AST-210