

AST SERIES | PRE-CHARGED (ASME) FOR POTABLE WATER | SUBMITTAL

File No: 37.53

Date: OCTOBER 19, 2015

Supersedes: 37.53

Date: MARCH 19, 2015

Job:	Representative:			
	Order no.: Date:	Date:		
Engineer: S	Submitted by: Date:	_ Date:		
Contractor:	Approved by: Date:	:		
	·			
DATA	MATERIALS OF CONSTRUCTION			
Model no. ordered: Qty:	Shell: Carbon steel			
Tag no.: psi/k	Liner: Polypropylene			
rag IIO psi/ k	System Connection: Stainless steel			
ASME certification required: \square Yes \square No	Fixed Diaphragm: Butyl – FDA approved	Fixed Diaphragm: Butyl - FDA approved		
Standard factory charge is 40 psi (276 kPa) unless otherwise specific	ed.			

MAXIMUM OPERATING CONDITIONS

Working temperature: 240°F (115°C)
Working pressure: 150 psi (1034 kPa)

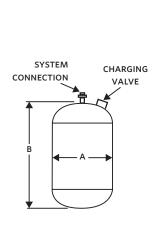
NOTES

- For Domestic potable water systems & Draw down tanks for Pressure booster systems.
- Designed and constructed per ASME, section VIII, division.

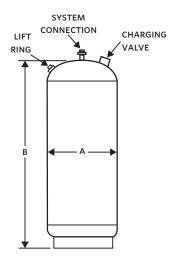
TYPICAL SPECIFICATION

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	В	SYSTEM CONNECTION NPT	SHIPPING WEIGHT
	gal.(L)		inches (mm)		inches (mm)	lbs.(kg)
AST-5	3.5 (13.2)	2.3 (8.7)	10 (254)	14 (356)	0.75 (19)	22 (10.0)
AST-12	5.0 (18.9)	3.3 (12.5)	12 (305)	14 (356)	0.75 (19)	28 (12.8)
AST-20	8.0 (30.3)	5.3 (20.1)	12 (305)	20 (508)	0.75 (19)	34 (15.5)
AST-30	15.0 (56.8)	10.0 (37.9)	16 (406)	23 (584)	1.00 (25)	64 (29.0)
AST-42	22.0 (83.3)	14.5 (54.9)	16 (406)	32 (813)	1.00 (25)	88 (40.0)
asт-60	26.0 (98.4)	17.5 (66.2)	16 (406)	34 (864)	1.00 (25)	93 (42.2)
AST-80	35.0 (132.5)	23.5 (89.0)	16 (406)	45 (1143)	1.00 (25)	109 (49.4)
AST-100	45.0 (170.3)	30 (113.6)	20 (508)	38 (965)	1.00 (25)	148 (67.1)
AST-125	60.0 (227.1)	40 (151.4)	20 (508)	49 (1245)	1.00 (25)	175 (79.4)
AST-160	70.0 (265.0)	47 (177.9)	24 (610)	46 (1168)	1.5 (38)	259 (117.5)
AST-180	80.0 (302.8)	53 (200.6)	24 (610)	49 (1245)	1.50 (38)	268 (121.6)
AST-210	90.0 (340.7)	60 (227.1)	24 (610)	52 (1321)	1.50 (38)	283 (128.4)







AST-20 to AST-210

TORONTO

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