

SINCE 1908
wessels
 company

SUBMITTAL

T-SERIES

THERMAL EXPANSION TANKS

Models: T-5 thru T-325V

Submittal Sheet No. B-1101A

Date: 4/16

Job Name _____	Submitted By _____	Date _____
Location _____	Approved By _____	Date _____
_____	Order No. _____	Date _____
Engineer _____	Notes _____	
Contractor _____		
Sales Rep. _____		

Description

Wessels type T-style Safety Cell® tanks are non-ASME diaphragm type pre-charged thermal expansion tanks specifically designed for the protection of potable hot water applications. They are designed to be installed between a backflow preventor and a hot water heater to accept the expanded volume of hot water keeping the system pressure below the relief valve setting. The water is contained in a fully lined Epitaxial® water reservoir with a butyl diaphragm separating the stored expanded water from the vital air cushion.

Construction

Shell: Carbon Steel
 Diaphragm: Double Clamped Butyl (FDA Approved)
 Liner: Epitaxial®
 Finish: Urethane Exterior
 System Connection: Stainless Steel

Performance Limitations

Maximum Design Temperature: 210°F
 Maximum Design Pressure: 150 PSIG



Listed Materials



Models Listed

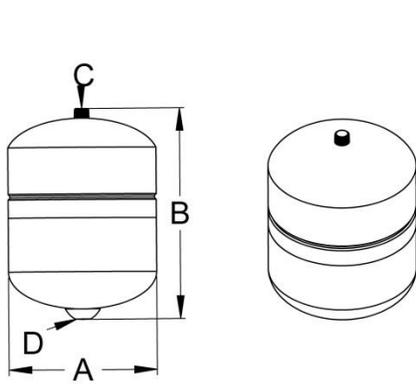
T 5 T 12
 T 25 T 30

Model Number	Part Number	Tank Volume (Gallons)	Acceptance Volume (Gallons)	Tagging Information	Quantity
T-5	32010005	2.1	1.3		
T-12	32010012	4.8	2.9		
T-25	32010025	9.3	5.5		
T-30	32010030	13.2	7.8		
T-42V	32010042	21.1	12.5		
T-60V	32010060	40	23.8		
T-80V	32010080	53	31.5		
T-180V	32010180	79	46.9		
T-260V	32010260	106	63		
T-325V	32010325	132	78.4		

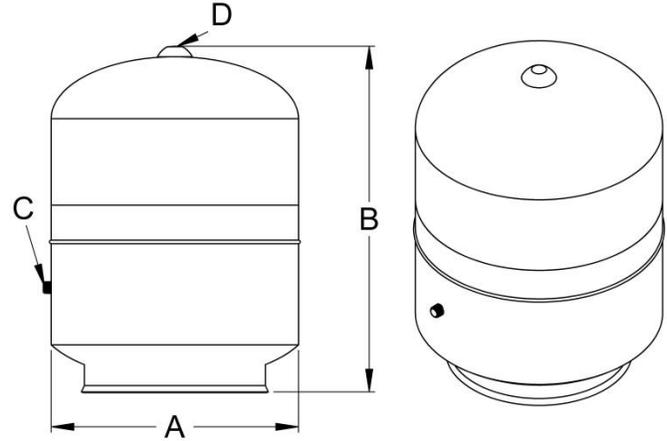
Typical Specification

Furnish and install, as shown on plans, a _____ gallon _____" diameter X _____" (high) pre-charged steel thermal expansion tank with fixed FDA approved butyl bladder. The tank shall have NPT stainless steel system connection, and a 0.302"-32 charging valve connection (standard tire valve) to facilitate the on-site charging of the tank to meet system requirements. The tank will be rated to 150 psi.

Each tank shall be Wessels model number T-_____ or approved equal.



T-5 thru T-30



T-42V thru T-325V

Dimensions & Weights

Model Number	Dimensions In Inches				Approx Shipping Weight (lbs)
	Diameter	Height	System Connection	Charging Valve	
	A	B	C	D	
T-5	7.9	10.8	3/4	0.302" -32NC	5
T-12	10.6	13.7			9
T-25	15	15.4			18
T-30	15	21.1			23
T-42V	17.7	23.6	1		33
T-60V	19.7	35.2			60
T-80V	23.6	33.9	1 1/4		81
T-180V	24.8	44.7			105
T-260V		57.1			145
T-325V		53.1			190

Notes

- Tanks are factory pre-charged at 40 psi and field adjustable.
- Models T-42V thru T-325V will be provided with a skirt.