

SINCE 1908  
**wessels**  
 company

SUBMITTAL

**NLA-HP-SERIES**  
 HVAC EXPANSION TANKS

Models: NLA-1000-HP to NLA-15000-HP  
 Submittal Sheet No. A-1009B Rev. 3 7/19/2019

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

**Description:**

Wessels patented NLA-HP (High Pressure) Tanks are ASME removable bladder type pre-charged HVAC expansion tanks. They are designed to absorb the expansion forces and control the pressure in heating/cooling systems. The system's expanded water (fully compatible with water/glycol mixtures) is contained in a full acceptance heavy-duty butyl bladder that prevents tank corrosion and waterlogging problems. All NLA expansion tanks can be installed vertically or horizontally.

**Construction:**

Shell: Carbon Steel  
 Heads: Carbon Steel  
 Exterior: Carbocoat 140 - Harvester Red  
 Interior: Heavy Duty Butyl Bladder

**Design Parameters:**

Maximum Design Pressure: \_\_\_\_\_\*  
 Temperature Range: -20°F to 240°F

Model Number	Part Number 150 PSI	Part Number 200 PSI	Part Number 250 PSI	Part Number 300 PSI	Tank Volume (Gallons)	Tagging Information	Quantity
NLA-1000-HP	22021000	22041000	22051000	22061000	264		
NLA-1200-HP	22021200	22041200	22051200	22061200	317		
NLA-1400-HP	22021400	22041400	22051400	22061400	370		
NLA-1600-HP	22021600	22041600	22051600	22061600	422		
NLA-2000-HP	22022000	22042000	22052000	22062000	528		
NLA-2500-HP	22022500	22042500	22052500	22062500	660		
NLA-3000L-HP	22023000	22043000	22053000	22063000	792		
NLA-3000S-HP	22023001	22043001	22053001	22073001	792		
NLA-4000-HP	22024000	22044000	22054000	22064000	1056		
NLA-5000-HP	22025000	22045000	22055000	22065000	1320		
NLA-7500-HP	22027500	22047500	22057500	22067500	1980		
NLA-10000-HP	22029999	22049999	22059999	22069999	2640		
NLA-15000-HP	22029998	22049998	22059998	22069998	3963		

**Typical Specification**

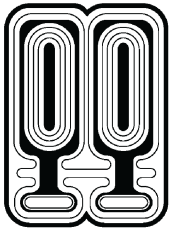
Furnish and install, as shown on plans, a \_\_\_\_\_ gallon \_\_\_\_\_" diameter X \_\_\_\_\_" (high) pre-charged steel HVAC expansion tank with heavy-duty butyl bladder. The tank shall have an NPT water side system connection, a 0.302"-32 charging valve connection (standard tire valve) to facilitate the on-site charging of the tank to meet system requirements, a pressure gauge, and bladder integrity monitor. The tank must be constructed in accordance with the most recent addendum of Section VIII Division 1 of the ASME Boiler and Pressure Vessel Code and rated for \_\_\_\_\_ psig.

Each tank shall be Wessels model number NLA-\_\_\_\_\_-HP or approved equal.



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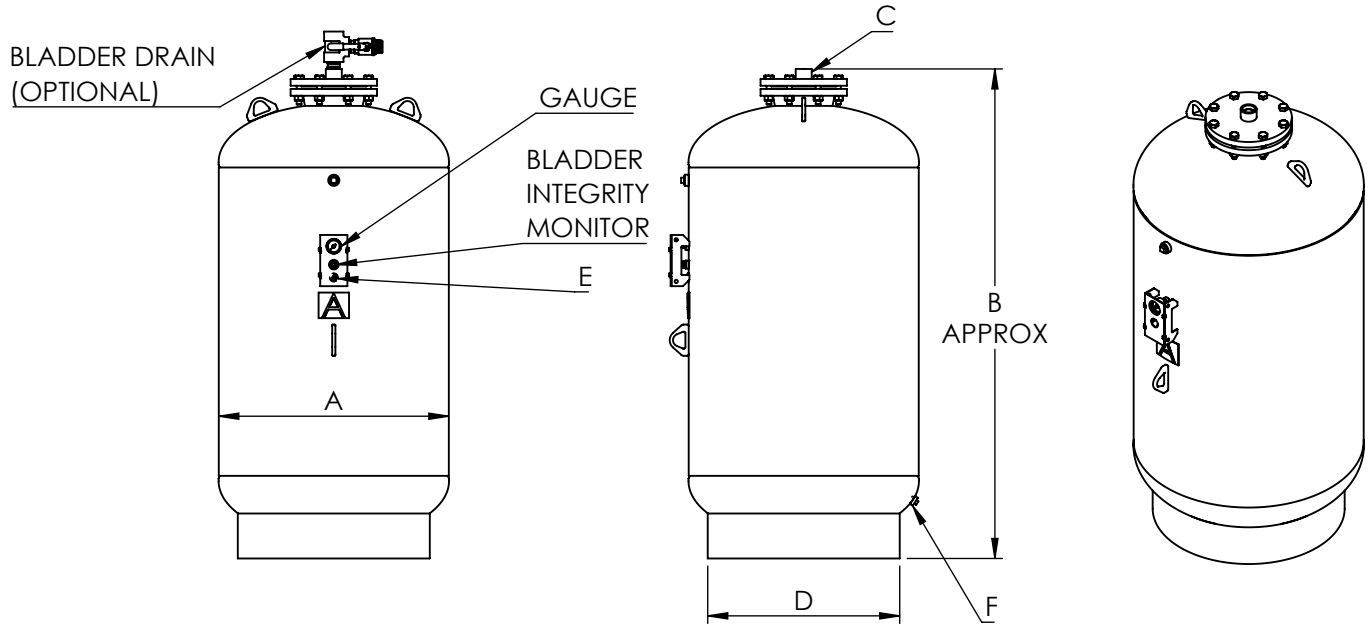


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**Dimensions & Weights:**

Model Number	Dimensions in Inches						Approx. Shipping Weight (lbs)			
	A	B	System Connection	D	Charging Valve	Plug	150 PSI	200 PSI	250 PSI	300 PSI
			C		E	F				
NLA-1000-HP	36	76	1 1/2 NPT	30	0.302"-32NC	3/4 NPT	596	698	830	978
NLA-1200-HP		88					676	905	1118	1408
NLA-1400-HP		100					756	1107	1330	1670
NLA-1600-HP	48	74	42	54	3/4 NPT	1222	1413	1713	2105	
NLA-2000-HP		86				1399	1643	2026	2352	
NLA-2500-HP		104				1548	1935	2352	2906	
NLA-3000L-HP	60	124	2 NPT	66	3/4 NPT	1890	2198	2782	3444	
NLA-3000S-HP		83				2371	2694	2965	3487	
NLA-4000-HP		105				2586	3291	3736	4386	
NLA-5000-HP	72	128	3 NPT	66	1 NPT	3041	3858	4485	5305	
NLA-7500-HP		131				4392	5491	6583	7614	
NLA-10000-HP		162				5437	6796	8068	9397	
NLA-15000-HP		233				7851	9814	12030	13564	

**Notes:**

- Tanks are factory pre-charged at 40 psig and field adjustable.
- California code-sight glass is available upon request.
- Mounting clips are available upon request.
- Bladder drain is available upon request.
- Tanks installed horizontally must have the system connection below the horizontal centerline of the tank.
- Plug (F) is on the air side of the tank. Do not remove.
- U.S. Patent No. 8,633,825 B2.



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