

# HVAC Expansion Tanks

## NLA Series

Wessels NLA series ASME  
Replaceable Bladder Tank For  
Expansion Pressure Control With  
WessView and Pressure Gauge  
Optional: WessGuard Upgrade

### APPLICATIONS

Closed-loop

Non-Potable

Hydronic Heating

Hydronic Cooling

Heat Transfer

Water

Glycol



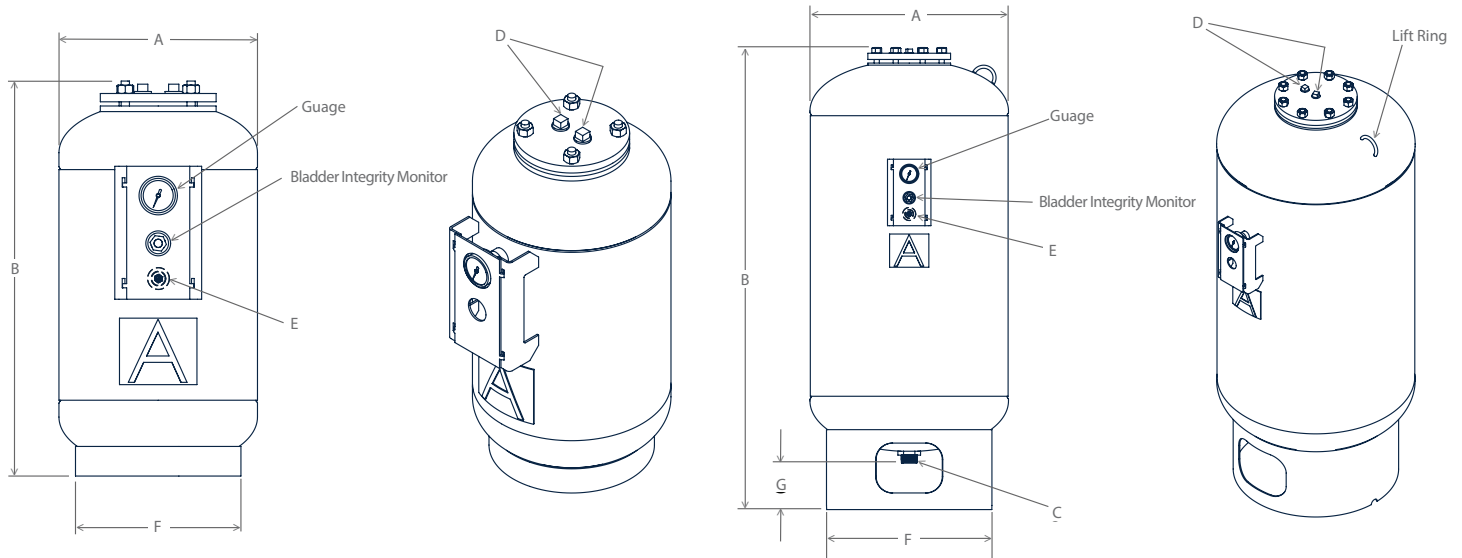
Wessels patented NLA vessels are ASME removable bladder type pre-charged, expansion tanks. They are designed to absorb the expansion volumes and control the pressure in heating/cooling systems. The system's expanded water (fully compatible with water/glycol mixtures) is contained in a full acceptance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

### NEXT LEVEL INTELLIGENCE

- Pressure gauge integrated
- WessView® bladder integrity monitor included
- WessGuard® proximity sensor port adaptable
- Easy-access air valve
- Tamper-resistant secure guard mount
- Designed and fabricated in accordance with ASME Boiler & Pressure vessel code
- Replaceable heavy-duty butyl bladder (other materials available)
- Standard design pressure is 125 psi (8.6 bar)
- Available in carbon steel, 304 or 316L stainless steel
- Factory pre-charged and field adjustable
- Separation of water and air
- Full flow design compatible
- Higher pressure ratings available
- Wessels Company Patented Design US 8,633,825 B2



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NLA-85 thru NLA-800L

MODEL	DIMENSIONS (in.)							MAX WORKING PRESSURE	SHIPPING WEIGHT (lbs)
	A	B	SYSTEM CONNECTION		CHARGING VALVE	F	G		
			C	D	E				
NLA-35	12	23 1/2	-	3/4 NPT	0.302" - 32NC	10	-	125	40
NLA-50	14	24	-	3/4 NPT	0.302" - 32NC	10	-	125	50
NLA-85	16	37	1 NPT	3/4 NPT	0.302" - 32NC	12	5 1/2	125	90
NLA-130	20	37	1 NPT	3/4 NPT	0.302" - 32NC	16	5 1/2	125	125
NLA-200	24	43	1 1/2 NPT	3/4 NPT	0.302" - 32NC	20	5 1/4	125	210
NLA-300	24	55	1 1/2 NPT	3/4 NPT	0.302" - 32NC	20	5 1/4	125	225
NLA-400	30	49	1 1/2 NPT	3/4 NPT	0.302" - 32NC	24	5 1/4	125	300
NLA-500	30	57	1 1/2 NPT	3/4 NPT	0.302" - 32NC	24	5 1/4	125	335
NLA-600	30	65	1 1/2 NPT	3/4 NPT	0.302" - 32NC	24	5 1/4	125	360
NLA-800L	32	76	1 1/2 NPT	3/4 NPT	0.302" - 32NC	28	5 1/4	125	475

**Note:**

- Tanks are factory pre-charged at 40 psi and field adjustable.
- California code-sight glass is available upon request.
- Both top and bottom connections (C and D) access the bladder.
- Available with mounting clips.

## TYPICAL SPECIFICATION

Furnish and install, as shown on plans, a \_\_\_\_\_ gallon \_\_\_\_\_" diameter X \_\_\_\_\_" (high) pre-charged steel expansion tank with heavy-duty butyl bladder. The tank shall have multiple water-side connections to offer installation options, 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 WessView® bladder integrity monitor. The tank must contain a port for WessGuard® proximity sensor monitor. The tank must be constructed in accordance with most recent addendum of Section VIII Division 1 of the ASME Boiler and Pressure Vessel Code, and rated for 125 psig.

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

## UPGRADE TO SMART WESSGUARD® TANK PROTECTION

Wessels Type NLA-WG Smart Tanks are ASME removable bladder type pre-charged, expansion tanks, with patented WessGuard® bladder monitor. They are designed to absorb the expansion forces and control the pressure in heating/cooling systems and come equipped with a uniquely designed capacitive sensor that is sensitive to any movement inside the tank.

The system's expanded water (fully compatible with water/glycol mixtures) is contained in a heavy-duty bladder preventing tank corrosion and waterlogging problems. If the bladder extends beyond the normal movement, WessGuard® monitor will activate an audible LED alarm and energy management system to notify maintenance staff of a potential system issue.

