



CE-VRA / VLA/ VSA CNG Storage Vessels

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Cobey Energy, located in Buffalo, NY is a premier equipment packager specializing in gas compression. Each CNG vessel is designed with maintainability and reliability at the forefront. Cobey Energy's CNG ASME vessels are built to the highest standards and are designed to meet or exceed NFPA 52 & 30A, and ASME Section VIII.

Cobey Energy CNG ASME Vessels standard offerings include:



CE-VRA Single Vessel



CE-VLA & CE-VSA Cascades

Single Vessel			
	CE-VR	CE-VL	CE-VS
Vessel Capacity @ 4,500 psig (scf)	11,368	11,571	5,413
Equivalent GGE capacity (gal.)	91	93	43
Water Volume (ft ³)	33.6	34.2	16
Vessel Size (in)	48" I.D. x 67.125 H	20" O.D. x 23' L	20" O.D. x 11'6" L
Working Pressure (psig)	5,000		
Design Pressure (PSIG)	5,500		
Weight (lbs)	8,601	7,256	3,960
3 Vessel Cascade			
	CE-VRA	CE-VLA	CE-VSA
Cascade Capacity @ 4,500 psig (scf)	34,104	34,713	16,240
Equivalent GGE capacity (gal.)	273	278	130
Water Volume (ft ³)	100.8	102.6	48
Cascade Envelope Size (in)	14' 8" x 4'7" x 5'7.12"	23'6.5" x 26.88" x 7'4"	12'.5" x 26.88" x 7'4"
Working Pressure (psig)	5,000		
Design Pressure (psig)	5,500		
Weight (lbs)	25,803	21,770	11,882

CE-VR/VRA – CNG Sphere Storage Vessels & Cascades

- ❖ Designed, manufactured and National Board registered according to ASME Code Section VIII, Div. 2 specifications
- ❖ 48" ID
- ❖ Storage Capacity: 34,104 SCF @ 4,500 psi, equivalent to 273 GGE
- ❖ Design Pressure: 5500 psig
- ❖ Est. three vessel assembly weight: 25,803 lbs.
- ❖ Each vessel will be furnished with:
 - One (1) ¾" NPT, ¾" relief valve with isolation valve
 - One (1) ¾" NPT, ¾" Inlet/Outlet with isolation valve
 - One (1) 1" NPT, 1" Inlet/Outlet, plugged
 - One (1) ½" NPT, ½" drain with needle valve
- ❖ Each sphere is mounted on a skirt with a base plate. Base plate includes mounting holes for field installation
- ❖ Sandblasted, with white epoxy paint system applied
- ❖ Marked "FOR CNG ONLY"
- ❖ Available in pre-tubed, skid mounted configuration (CE-PSO)
- ❖ Available in single vessel and 3 vessel cascade configurations

CE-VL/VLA – CNG Long Tube Storage Vessels & Cascade Assembly**CE-VS/VSA – CNG Short Tube Storage Vessels & Cascade Assembly**

- ❖ 3-vessel assembly (1 wide x 3 high)
- ❖ Seamless pressure vessel to ASME Code Section VIII, Div. 1, for dry gas, non-corrosive service.
- ❖ Vessels are horizontally mounted in I-beam frames to minimize rust and maintenance.
- ❖ Each vessel in the assembly will be furnished with:
 - ½" full port stainless steel ball valve on the front
 - spring loaded safety relief valve on the rear with a full port ¾" stainless steel ball valve between the vessel and the safety relief valve
 - ¾" dome outlet drain valve
- ❖ Entire system sandblasted, with two coat white paint system applied
- ❖ Available in single vessel quantities
- ❖ Vessel CRN's, safety relief valve vent pipes and seismic bracing are not included.

Cobey Energy supplies and manufactures a full complement of CNG filling station components, including:

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| ❖ Natural Gas desiccant dryers | ❖ CNG compressor modules |
| • Non-regenerative single vessel | • 20-3000+ scfm |
| • Manual regenerative, single & dual vessel | ❖ CNG fuel dispensers |
| • Auto regenerative, single & dual vessel | • Fast fill |
| | • Time fill posts |