

# LNG STORAGE VESSELS

## VERTICAL LNG VS-SERIES

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Chart's vertical LNG storage vessels offer a range of sizes for storage applications requiring Maximum Allowable Working Pressures of 50 psig (3.45 barg) or more.

Our proprietary composite insulation system gives a competitive edge with high thermal performance, extended hold times, low life-cycle costs and lightweight construction to reduce operational and installation costs. Chart leads the industry in cryogenic vessels designed for performance, durability and low maintenance.



### PRODUCT ADVANTAGES

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- When compared to site-erected storage vessels, these shop-fabricated vessels offer:
  - Manufacturing in a controlled environment
  - Quicker turnaround time for production and deliveries to job site
  - More accurate and comprehensive testing abilities
- Vacuum insulation technology achieves a higher level of thermal performance
- World class engineering coupled with Chart's long history of advanced technology and real-world expertise help make reliable, efficient and smart storage solutions a reality

### OPTIONAL EQUIPMENT

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- LNG Offload System
- Vacuum Insulated Piping
- LNG Transport Trailers and Regasification Systems
- Start-up & Commissioning Support and Training Services

NFPA 59A Chapter 13 Compliant



*Innovation. Experience. Performance.®*

# LNG STORAGE VESSELS

## VERTICAL LNG VS-SERIES

SPECIFICATIONS													
Model	Water Capacity		Net Capacity		MAWP*		Height		Diameter		Weight** (Empty)		NER%/day
	Gal	Liters	Gal	Liters	psig	bar	in	mm	in	mm	lbs	kg	LNG
<b>VS 6000</b>	6010	22750	5770	21842	50	3.45	383	9728	86	2184	21000	9525	0.15
<b>VS 9000</b>	9360	35431	8990	34031	50	3.45	348	8840	114	2896	31400	14243	0.10
<b>VS 11000</b>	11410	43192	10960	41488	50	3.45	407	10338	114	2896	34600	15694	0.10
<b>VS 15000</b>	15580	58750	15110	57008	50	3.45	525	13335	114	2896	47300	21455	0.10
<b>VS 18000</b>	18000	68137	16030	60680	175	12.1	473	12014	134	3404	47380	21491	0.15
<b>VS 30000</b>	29840	112957	28350	107316	50	3.45	782	19863	134	3404	85000	38555	0.10
<b>VS 40000</b>	41770	157117	39680	150205	50	3.45	782	19863	150	3810	82700	37512	0.08
<b>VS 60000</b>	61130	231402	58070	219819	50	3.45	882	22403	175	4445	105800	47990	0.07
<b>VS 80000</b>	83760	317066	79580	301243	50	3.45	682	17323	228	5801	146400	66406	0.05

\*MAWP = Maximum Allowable Working Pressure. \*\*Weights are for ASME design. NER = Nominal Evaporation Rate

### SPECIFICATION DETAILS

- Outer Jacket Material: A36 per CGA341, Optional: SA-516 GR 70N
- Inner Vessel Material: SA-240 T304/L
- Seismic design per ACSE 7-05 w/ Supplement No. 2, IBC 2006/2009, CBC 2007/2010
- Evacuated multi-layer Super Insulation
- Piping per ASME B31.3
- Inner Vessel Design Temperature: -320°F to +120°F
- Outer Jacket Design Temperature: -20°F to +300°F
- ASME Section VIII, Division 1 Pressure Vessel (Type C) current edition
- NBIC (National Board Inspection Code) Registered Inner Vessel
- Painted with 2-coat (Epoxy, Polyurethane) Hentzen Coating System

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