

# LNG STORAGE VESSELS

## HORIZONTAL LNG HS-SERIES

---

Chart's horizontal 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

---

- 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

---

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

NFPA 59A Compliant



*Innovation. Experience. Performance.™*

# LNG STORAGE VESSELS

## HORIZONTAL LNG HS-SERIES

SPECIFICATIONS													
Model	Water Capacity		Net Capacity		MAWP*		Length		Diameter		Weight** (Empty)		NER%/day
	Gal	Liters	Gal	Liters	psig	barg	in	mm	in	mm	lbs	kg	LNG
<b>HS 18000</b>	18007	68163	16030	60680	175	12.1	469	11913	134	3404	47700	21636	0.15
<b>HS 30000</b>	30000	136380	26610	120969	50	3.45	580	14732	150	3810	74200	33657	0.13
<b>HS 50000</b>	50000	227300	44730	203343	50	3.45	916	23266	150	3810	102500	46493	0.12
<b>HS 70000</b>	70000	318220	62200	282761	50	3.45	1240	31496	150	3810	129800	58877	0.11
<b>HS 90000</b>	90000	409140	80320	365135	50	3.45	1576	40030	150	3810	158100	71713	0.10
<b>HS 100000</b>	100000	454600	88730	403367	50	3.45	1732	43993	150	3810	171300	77701	0.10
<b>HS 132000</b>	132000	600072	115480	524972	50	3.45	1800	45720	175	4445	222700	101015	0.07
<b>HS 1000m<sup>3</sup>***</b>	265765	1208168	239075	1086835	50	3.45	2026	51460	228.4	5800.7	610000	276692	0.05

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

\*\*\* Design and Manufacturing by Chart Ferox.

### 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

Chart Inc.  
U.S.: 1-800-838-0856  
Worldwide: 1-952-758-4484



© 2016 Chart Inc.  
P/N 20758418  
www.ChartLNG.com  
LNG@chartindustries.com