

LNG STORAGE VESSELS

HORIZONTAL AND VERTICAL BULK TANKS

Chart's pre-engineered liquefied natural gas (LNG) storage tanks offer a range of sizes and working pressures. Our proprietary Composite Super Insulation™ system gives a competitive edge with high thermal performance, extended hold times and low lifecycle costs to reduce operational and installation costs.

Chart leads the industry in cryogenic vessels designed for performance, durability and low maintenance. Our tanks can be provided with piping and valving attached and customized for your application requirement.



PRODUCT ADVANTAGES

- When compared to site-erected storage vessels, these shop-fabricated vessels offer:
 - Superior quality by manufacturing in a production based, controlled environment
 - Shorter lead times to onsite delivery
 - Less impact during environmental and sustainability studies
 - More accurate and comprehensive testing abilities
 - Multi-vessels provide redundancy for operational efficiencies
- Less site project preparations, civil construction, and logistics
- As portability and ability to reassign asset to future projects
- Our world class engineering coupled with Chart's long history of advanced technology provides the LNG storage as just one piece of the overall LNG project

OPTIONAL EQUIPMENT

- Skidded LNG offload system
- Interconnecting vacuum insulated piping
- Skidded boost pump skids
- Start-up, commissioning support, onsite training, and ongoing maintenance services
- Vaporizers and regasification systems
- Control and emergency systems



Innovation. Experience. Performance.®

LNG STORAGE VESSELS

HORIZONTAL AND VERTICAL BULK TANKS

HORIZONTAL 50 PSI Storage Options

Model	Gross Capacity (Water)		MAWP*		Length		Diameter		Weight (Empty)	
	gal	m ³	psig	barg	in	mm	in	mm	lbs	kg
HS 30000	29900	113	50	3.45	741	18821	134	3404	77900	35335
HS 50000	49990	189	50	3.45	889	22581	150	3810	102000	46266
HS 70000	69740	264	50	3.45	1221	31013	150	3810	131400	59602
HS 90000	90100	341	50	3.45	1557	39548	150	3810	161700	73346
HS 100000	100650	381	50	3.45	1731	43967	150	3810	177800	80649
HS 500m ³	132030	500	50	3.45	2253	57226	150	3810	242300	109905

HORIZONTAL 175 PSI Storage Options

Model	Gross Capacity (Water)		MAWP*		Length		Diameter		Weight (Empty)	
	gal	m ³	psig	barg	in	mm	in	mm	lbs	kg
HS 6000	6010	23	175	12.07	360	9144	86	2184	20400	9253
HS 15000	15520	59	175	12.07	504	12802	114	2896	47700	21636
HS 20000	19870	75	175	12.07	503	12776	134	3404	68600	31116
HS 30000	30020	114	175	12.07	723	18364	134	3404	87600	39735
HS 50000	51780	196	175	12.07	931	23647	150	3810	138400	62777
HS 70000	70540	267	175	12.07	1243	31572	150	3810	176500	80059

VERTICAL 175 PSI Storage Options

Model	Gross Capacity (Water)		MAWP*		Height		Diameter		Weight (Empty)	
	gal	m ³	psig	barg	in	mm	in	mm	lbs	kg
VS 6000	6010	23	175	12.07	383	9728	86	2184	19900	9026
VS 15000	15520	59	175	12.07	525	13335	114	2896	48000	21772
VS 18000	18010	68	175	12.07	470	11938	134	3404	48700	22090
VS 20000	21200	80	175	12.07	548	13919	134	3404	53000	24040
VS 30000	29500	112	175	12.07	728	18491	134	3404	69300	31434
VS 50000	50200	190	175	12.07	1003	25476	150	3810	115700	52481

*MAWP = Maximum Allowable Working Pressure. Custom sizes available upon request.

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 Composite Super Insulation™
- Piping designed in accordance with 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 (-40°F with SA-516 GR 70N) current edition
- NBIC (National Board Inspection Code) Registered Inner Vessel
- Long-life urethane paint system

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