

VERTICAL CRYOGENIC TANKS FOR LIQUID NATURAL GAS



CAPACITY					DIMENSIONS					
MODEL	GROSS CAPACITY		NET CAPACITY		OUTSIDE DIAMETER		OVERALL HEIGHT		EMPTY WEIGHT	
	GALLONS	LITERS	GALLONS	LITERS	INCHES	MM	INCHES	MM	POUNDS	KG
1500	1,612	6,101	1,531	5,796	74.5	1,892	194	4,928	7,597	3,446
3000	3,200	12,112	3,040	11,506	96	2,438	206	5,232	11,852	5,376
6000	6,015	22,767	5,774	21,856	96	2,438	331	8,407	18,349	8,323
9000	9,385	35,522	9,010	34,101	124	3,150	326	8,280	25,113	11,391
11000	11,391	43,115	10,935	41,390	124	3,150	380	9,652	28,784	13,056
13000	13,499	51,094	13,094	49,561	124	3,150	436	11,074	32,699	14,832
15000	15,601	59,050	15,133	57,278	124	3,150	494	12,548	39,011	17,695

MAWP = 250 PSI 17.58 Kg/cm² AS STANDARD*
MDMT = -320°F -195.6°C

TECHNICAL DATA

DESIGN CODE

Inner Vessel designed according ASME Code Sección VIII, Div. 1 latest Edition, and Appendix 44 "Cold stretching", "U" Stamp

Outer jacket designed according CGA-341 Pamphlet, latest edition [outer jacket non stamped]

MATERIALS

Inner Vessel: Stainless steel, SA-240-T304.

Inner Pipe: Stainless steel, SA-312-304.

Outer Jacket: Carbón Steel, SA-36 / SA-285 C.

Supports: Carbon Steel, SA-36.

Lifting Lug: Carbon Steel, SA-36.

External Piping: Stainless Steel, SA-312-304.

Valves: Stainless steel.

Pressure Regulator: Bronze.

Pressure Build-Up: Vaporizer, aluminium Finned pipe / inside stainless steel.

INSULATION SYSTEM

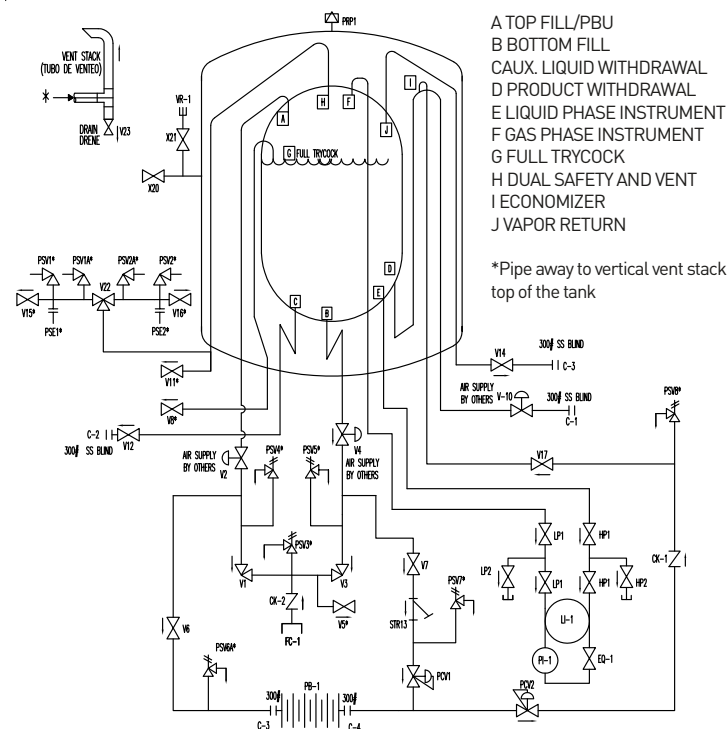
Multi-layer Insulation, and full vacuum.

ANTICORROSIVE PROTECTION EXTERIOR

Surface preparation according to SSPC-SP10/NACE 2

1 coat of primer zinc inorganic or epoxy high solids

1 coat of polysiloxane finish or aliphatic polyurethane



ITEM	DESCRIPTION	QTY	SERVICE
C-1	LIQUID WITHDRAWAL CONNECTION 300 FLANGE	01	BLIND FLANGED, LIQUID WITHDRAWAL
C-2	AUXILIAR LIQUID WITHDRAWAL CONNECTION 300 FLANGE	01	BLIND FLANGED, AUX LIQUID WITHDRAWAL
C-3	VAPOR RETURN CONNECTION, 300 FLANGE	01	BLIND FLANGED VAPOR RETURN CONNECTION
CK-1	CHECK VALVE	01	ECONOMIZER LINE CHECK VALVE
CK-2	CHECK VALVE	01	FILL CONNECTION
EQ-1	NEEDLE VALVE	01	CONTENT GAUGE ISOLATION VALVE
FC-1	3-1/4" ACME THREAD, MALE, FLL CONN BRASS, W/TEFLON GASKET	01	FILL CONNECTION
HP-1/2	NEEDLE VALVE	03	LIQUID CONTENT GAUGE ISOLATION VALVE
LP-1/2	NEEDLE VALVE	03	VAPOR CONTENT GAUGE ISOLATION VALVE
LP-1/2	NEEDLE VALVE	03	VAPOR CONTENT GAUGE ISOLATION VALVE
U-1	DIFFERENTIAL PRESSURE LEVEL INDICATOR	01	LEVEL INDICATOR 8" DIAM. FACE
PI-1	PRESSURE INDICATOR 2" FACE, 1/4" NPT	01	PRESSURE INDICATOR
PB-1	ATMOSPHERIC PRESSURE BUILDING VAPORIZER, SS TUBING-LINED	01	PRESSURE BUILD UP
PSE1	RUPTURE DISK, SET 375 PSI AT 68°F	01	INNER VESSEL RUPTURE DISK
PSE2	RUPTURE DISK, SET 375 PSI AT 68°F	01	INNER VESSEL RUPTURE DISK
PSV1/2	PRESSURE RELIEF VALVE,	02	INNER VESSEL PRESSURE RELIEF, PRIMARY
PSV1A/2A	PRESSURE RELIEF VALVE,	02	INNER VESSEL PRESSURE RELIEF, SECONDARY
PCV1	PRESSURE REGULATOR, ACME TYPE B	01	PB LINE, PRESSURE REGULATOR
PCV2	BACK PRESSURE REGULATOR, ACME TYPE FR	01	ECONOMIZER LINE BACK PRESSURE REGULATOR
PCV3	THERMAL EXPANSION RELIEF VALVE	01	FILL THERMAL RELIEF VALVE
PCV4	THERMAL EXPANSION RELIEF VALVE	01	TOP FILL THERMAL RELIEF VALVE
PCV5	THERMAL EXPANSION RELIEF VALVE	01	BOTTOM FILL THERMAL RELIEF VALVE
PCV6A	THERMAL EXPANSION RELIEF VALVE	01	PB THERMAL RELIEF VALVE
PCV7	THERMAL EXPANSION RELIEF VALVE	01	PB REGULATOR THERMAL RELIEF VALVE
PCV8	THERMAL EXPANSION RELIEF VALVE	01	ECONOMIZER THERMAL RELIEF VALVE
STR13	STRAINER TYPE "Y"	01	PRESSURE BUILDING STRAINER
V1	GLOBE VALVE ANGLE TYPE	01	TOP FILL VALVE
V2	BALL VALVE, W/ PNEUMATIC ACTUATOR, NC	01	TOP FILL EMERGENCY SHUT-OFF VALVE
V3	GLOBE VALVE ANGLE TYPE	01	BOTTOM FILL VALVE
V4	BALL VALVE, W/ PNEUMATIC ACTUATOR, NC	01	BOTTOM FILL EMERGENCY SHUT-OFF VALVE
V5	GLOBE VALVE	01	FILL LINE PURGE VALVE
V6	GLOBE VALVE	01	PRESSURE BUILD OUT ISOLATION VALVE
V7	GLOBE VALVE	01	PRESSURE BUILD IN ISOLATION VALVE
V8	GLOBE VALVE	01	FULL TRYCOCK
V10	BALL VALVE, W/ PNEUMATIC ACTUATOR, NC	01	VAPOR RECOVERY EMERGENCY SHUT-OFF
V11	GLOBE VALVE	01	TANK BLOWDOWN VALVE
V12	GLOBE VALVE	01	AUXILIAR LIQUID VALVE
V14	GLOBE VALVE	01	PUMP VAPOR RETURN VALVE
V15	NEEDLE VALVE	01	RELIEF LINE PURGE VALVE
V16	NEEDLE VALVE	01	RELIEF LINE PURGE VALVE
V17	GLOBE VALVE	01	ECONOMIZER ISOLATION VALVE
V22	DIVERTER VALVE	01	DUAL SAFETY
V23	LOW-POINT CONDENSATION DRAIN VALVE	01	DRAIN CONDENSATION, FNPT
X20	DIAPHRAGM VALVE, 1 1/2"NPS, ITT DIA-FLO, 2402-M-903-VAC	01	VACUUM PUMP OUT VALVE
X21	BELLOWS GLOBE VALVE, 1/8"NPS, HOKE, MOD. 4551 F2B	01	VACUUM PROBE ISOLATION VALVE
VR-1	VACUUM PROBE, TELEDYNE, MOD. DV-6R	01	VACUUM PROBE
PRP1	RELIEF DEVICE	01	VACUUM JACKET RELIEF DEVICE