

The ISO VAC 40 LNG tank has been designed as a standard 40ft ISO container for the safe storage and transport of liquefied natural gases. A frame arrangement with Blair corner castings and lockable valve protection cabinets containing the valves, gauges, vacuum check gauge connection and a separate document holder.

The ISO VAC 40 LNG tank can be produced with working pressures ranging from 7 to 10 Bar and can be used for the transport of LNG, Ethylene and Ethane. Other tank options include LIN, LOX, LAR and CO<sub>2</sub>.


This tank has approvals for road, rail and sea transport. It can also be configured to accept cryogenic transfer pumps.

The ISO VAC 40 also features high vacuum super-insulation, stacking capability 9 units high to ISO 1496-3 (192,000kg max), full set of decals (including logos where supplied by customer), integral pressure building system, document holder and various pipe work and valve options to offer maximum versatility to end user and operator.

MATERIALS	SPECIFICATION
Inner Shell	Stainless steel
Outer Jacket	Carbon steel (optional - stainless steel)
Skid	Carbon steel (optional - stainless steel)
Pipework	Tp. 316 stainless steel sch.10
Paint Specification	Shot blast SA 316, zinc rich primer 50 microns, epoxy high build 125 microns, polyurethane top coat 50 microns. Standard colour: white. Custom paint specification on request.
Design Approvals (s)*	EN 13530, ADR / RID, IMDG, CSC, TIR, ISO 1496, option - ASME 'U' / CFR
Temperature	Inner shell -196°C to +50°C, outer jacket -20°C to +50°C (option -40°C to +50°C) material
NER	0.4% per day
Corner Castings	ISO standard 1161 blair BLRC20100 / 20000
Couplings	Blind flanges as standard. Custom specification on request.

\* Design approvals may vary depending on options and country of operation.  
 For details, please contact Technical Department

## ISOVAC 40 FEATURES

 Custom paint specification/two-tone colour scheme available on request

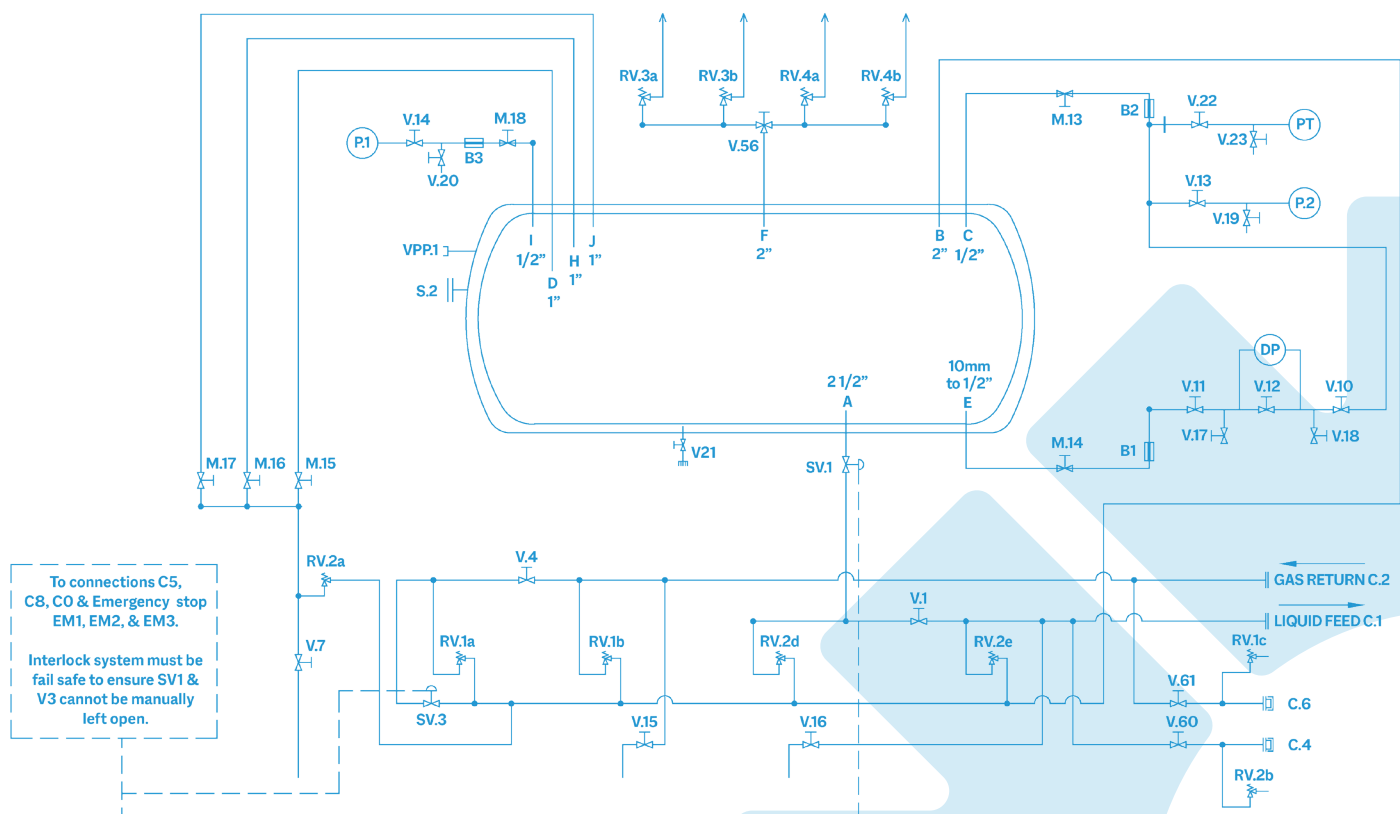
 Optional Hasting vacuum check valve

 Dual trycock valves

SPECIFICATION	ISO VAC 40 LNG 10 Bar	ISO VAC 40 LNG 100psi (ASME)
Product Code	9951-3601	9951-3610
Gross Capacity	43,500 ltr	43,500 ltr
Net Capacity	41,325 @ 95%	41,325 @ 95%
Pressure	10 Bar.g	100 psi.g
Tare Weight (kg)	12,670	12,670
Stacking (kg)	192,000	192,000



## VALVES/PIPEWORK



### VALVES/ PIPEWORK

V1	Bottom fill/decant valve	V19	Pressure gauge vent valve	RV1a, b, c	Gas inline relief valve set @ 10 bar	M16	Trycock line maintenance valve - 95% fill
V4	Gas return shut off valve	V20	Front pressure gauge vent valve	RV2a, b, d, e	Trycock inline relief valve set @ 10 bar	M17	Trycock line maintenance valve - 98% fill
V7	Trycock valve	V21	Vacuum test valve	RV3a, b	Main safety relief valve set @ 8.62 bar	M18	Front pressure gauge maintenance valve
V10	Liquid level gauge gas isolator valve	V22	Pressure transmitter isolation valve	RV4a, b	Main safety relief valve set @ 8.62 bar	C4, 6	Nitrogen purge fitting
V11	Liquid level gauge liquid isolator valve	V23	Pressure transmitter vent valve	RV4b	Main safety relief valve set @ 8.62 bar	C1	Liquid fill connection/end cap
V12	Liquid level equalising valve	V56	Diverter valve (main safety R.V's)	P1,2	Cabinet pressure gauge (0-10 bar)	C2	Vapour return connection/end cap
V13	Pressure gauge isolator valve	V60, V61	N2 coupling isolation valve	PT	Wireless pressure transmitter	C5	Nitrogen supply to SSOV's
V14	Front pressure gauge isolator valve	S2	Jacket relief device	DP	Differential pressure gauge	C8	Connection - air supply from trailer
V15	Gas hose vent valve	VPP1	Vacuum pumping port (C7)	M13	Low pressure maintenance valve	C9	Anti-tow connector
V16	Liquid hose vent valve	SV1	Fill/decant auto shut valve	M14	High pressure maintenance valve	EM1, 2, 3	Emergency stop button
V17	Liquid level gauge liquid vent valve	SV3	Gas line auto shut valve	M15	Trycock line maintenance valve - 84% fill	B1, 2, 3	Flow reducing block 1/8th orifice
V18	Liquid level gauge gas vent valve						