

# CRYOGENIC ROAD TANKER 27,000 LITRE 6 BAR

Custom built cryogenic road tankers with multiple options for capacity, running gear, working pressures, valve cabinets and transfer pumps.

Cryogenic road tanker with customer specified tank, axles, running gear, valves and pipework.

Tanker configuration includes rear cabinet, vapourisers, vapouriser guards, all electrics and lighting, paintwork, customer logos and decals.

Full engineering design review and ADR/TPED approval.

Cryogenic Road Transport Tanker	
Gross Capacity	27,490 litres
Net Capacity	26,115 litres
Weight Empty	12,500 kg (nominal)
Product	Nitrogen, Refrigerated Liquid UN1977
Operating Pressure	3 Bar and 6 Bar
Service Temp	-196°C MDMT inner vessel & pipe work
Ambient Temp	-20°C to 55°C on outer vessel
Evaporation	0.5 % per day
Design Approvals	ADR, EN13530, IMDG, TPED, CGA 341

Vessel Design/ Fabrication	
Testing Code	ADR, IMDG, TPED, EN13530
Inner Vessel/Pipe Work	SA 312-316 Austenitic Stainless Steel
Outer Vessel	Carbon steel grade S 275 J2G3 or equivalent Stainless Steel front head (pipe work end)
Pipe Work	SA 312-316 Stainless Steel sch. 10 as a minimum
Baffle	Full cone welded type Austenitic Stainless Steel
Lifting Lugs	Two off-one fitted at each end of outer vessel

Running Gear	
Type	Tri axle sub frame with air suspension and dual tyre configuration designed for standard road conditions with SAF suspension, with 9000 kg axle loading, drum brakes
Braking System	Multi channel ABS/EBS to ADR requirements
Wheel & Tyres	12 x 11/R22.5 with standard European road tyres
Landing Gear	JOST E100 or equivalent & King Pin JOST or equivalent
Lights & Wings	ASPOCK 24 volt system following EU/ADR requirements With plastic mudguards & spray suppression kits
Options	Other suspension, wheel and tyre configurations on request



Wessington Cryogenics Limited  
2 Gadwall Road, Rainton Bridge South  
Houghton Le Spring, Tyne & Wear, England, DH4 5NL  
Tel: +44 (0)191 512 0677 Fax: +44 (0)191 512 0745  
Email: info@wessingtoncryogenics.com

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Vacuum Connections	
Vacuum Gauge (Opt)	1/8" NB terminates at front In A DV-6R connection
Vacuum Pump Port	NW 40 vacuum pump connection C/W blanking cap
Vacuum Relief	Blow off disc

Insulation & Cladding	
Insulation	Vacuum + Cryogenic Super Insulation

Service	Size	Description	Manufacturer
Liquid Feed	1 1/2" NB	Cryogenic Globe Valve	Herose
Liquid Decant Valve	1 1/2" NB	Cryogenic Globe Valve	Herose
Top Fill Valve	1 1/2" NB	Cryogenic Globe Valve	Herose
Vent Valve	1 1/2" NB	Cryogenic Globe Valve	Herose
Pump Feed	1 1/2" NB	Cryogenic Globe Valve	Herose
Pump Return Valve	1 1/2" NB	Cryogenic Globe Valve	Herose
Pressure Build Valve 1	1" NB	Cryogenic Globe Valve	Herose
Pressure Build Valve 2	1" NB	Cryogenic Globe Valve	Herose
Tricock - 95% Full	1/2" NB	Cryogenic Globe Valve	Herose
Tricock - 84% Full	1/2" NB	Cryogenic Globe Valve	Herose
H.P Line Gauge Panel	1/4" NB	Cryogenic Needle Valve	Swagelok
Equalising Valve to Gauge Panel	1/4" NB	Cryogenic Needle Valve	Swagelok
L.P Line Gauge Panel	1/4" NB	Cryogenic Needle Valve	Swagelok
Line Blow Down Valves	1/2" NB	Cryogenic Shut-Off Valve	Rego
Pump Feed	1 1/2" NB	Cryogenic Globe Valve	Herose
Road Relief Valve	1 1/2" NB	Cryogenic Globe Valve	Herose
Primary Relief Valves	1" x 1 1/4"	Cryogenic Relief Valve	Herose
Road Safety Relief Valve Set 1.9 Bar	1" x 1 1/4"	Cryogenic Relief Valve	Herose
Non-Return Valve - Top Fill	1 1/2" NB	Cryogenic Non Return Valve	Herose
Non-Return Valve - P.Build	1 1/2" NB	Cryogenic Non Return Valve	Herose
Pressure Gauge	4" ø	0-10 Bar Pressure Gauge	Wika
D.P Gauge	6" ø	0-120" H <sub>2</sub> O Pressure Gauge	Mid West
Liquid Decant End Coupling	NIT 150	Liquid Decant End Coupling	-
Top Fill End Coupling	NIT 150	Top Fill End Coupling	-
Pump Return / Gas End Coupling	NIT 150	Pump Return / Gas End Coupling	-
Pump Feed End Coupling	NIT 150	Pump Feed End Coupling	-
Pressure Build Vaporisers	Aluminium	Aluminium Star Fin P. Build Vap.	-



Cryogenic Pump Control Box (options)
'ACD' CP 180 gearbox driven pump with 22Kw 400v 50Hz electrical motor, with 350 - 450 litres/minute at up to 22 bar

