



Jarco
 12810 County Rd 17
 Holdingford, Mn. 56340

**EQUIPMENT
 SPECIFICATION**

To: **Reference:** 11600 (250 PSI)
Issued: March, 3 2025
Expires:
Contact:
Phone:
FAX:
Email:
Website:
Quantity: 2
Tank SN:

Trailer Description

MODEL	MC 331, 11,600 gallon, LPG Transport Trailer.
Code	MC 331, in full compliance with ASME and NFPA 58.
Capacity	11,600 U.S. water gallons.
Compartments	One.
Shape	Straight, Round, Hemispherical Heads. 84" O.D.
Shell Material	SA 517 Gr. B, Steel, 5 section barrel with close up seams near top of vessel.
Head Material	SA 517 Gr. B, 1/4" Steel, Segmented Hemispherical.
Frame Material	CNC cut High Strength Stainless Steel framing.
Operating Pressure	250 PSI.
Design Temperature	-20 thru 125 deg. F.
Overall Length	44' 1"
Overall Width	102"
Product	LPG (non corrosive service).

Final Manufacturer	JARCO
Weld finish	Shot blasted prior to powder coat.
Exterior coating	Shot Blasted, Zinc Primer & Powder coat barrel, frame, & bracketing with Super Wet White top coat; rock guarded suspensions.
Interior coating	None (shot blasted finish).
GVWR	66,000 lbs.



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Construction

Manhole	(1) 16" SA 517 Gr. B, Steel, Bolted Blind Flange Manway, top 45 degrees of rear head.
<i>Gasket</i>	(1) Class CG semi-metallic spiral wound gasket (ASME B16.20).
Pressure Relief Well	(2) 3" ASME flanged recessed wells, front and rear top centerline.
Float Gauge Well	(1) 8" recessed at center curbside centerline of vessel.
Pressure/ Fixed Fill Gauge Well	(1) 8" recessed near center curbside below centerline of vessel.
<i>Thermometer</i>	(1) 1/2" NPT x 7" long Therm-O-Well.
<i>Pressure Gauge Fitting</i>	(1) 1/4" NPT coupling with # 54 drill for pressure gauge.
<i>Fixed Liquid Level</i>	(4) 1/4" NPT couplings with # 54 drill for fixed liquid level gauge with settings: 83%, 85%, 87%, and 90%.
Pump Inlet/Outlet	(1) 4" studded flange (ASME Bolting), bottom centerline behind landing gear.
Vapor/Spray-Fill 1	(1) 3" studded flange (ASME Bolting), bottom centerline rearward of Pump Inlet/Outlet.
Liquid Inlet/Outlet	(1) 3" studded flange (ASME Bolting) rearward of Front Vapor Inlet/Outlet.
Vapor/Spray-Fill 2	(1) 3" studded flange (ASME Bolting) rearward of Liquid Inlet/Outlet.
Baffles	(2) Alum. heavy duty bolt-in X-style baffles. (removable through manway).

Lights and Wiring

Lights	12-volt, Truck-Lite L.E.D. grommet mount lights per DOT regulations.
Wiring	Overmoulded Plug-in style harness system near bottom centerline of vessel.
Rear Lights	Enclosed in stainless steel light boxes. Stop, Tail, and Turn in 2 light configuration.
<i>Rear I.D.</i>	Mounted as high as possible on manhole cover.
<i>Rear Work Light</i>	(2) L.E.D. Clear face Work Lamps enclosed in light boxes (1) roadside & (1) curbside operated by switch mounted on the front roadside fender.
Nose box	Standard 7 way, SAE J560 receptacle without circuit breakers. Mounted accessible from ground at roadside front.
Add'l Work lights	(2) Betts L.E.D. "J" work lights (1) Roadside and (1) curbside mounted forward of pump platform adjustable facing rearward.
Wide Turn Signal	(1) Roadside and (1) curbside mounted forward of pump platform facing rearward.
Rear Center Stop Light	(1) center mounted oval stop light mounted in rear sub frame close-out.



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Undercarriage

Upper 5th Wheel	5/16" Inserted plate, setting placement based on weight scale. Adjustable in 2" increments across 20" range. (16,500# - 18,500# tractor)
<i>Paint</i>	Fifth wheel plate painted with zinc primer and white powder top coat except friction face is left as acrylic enamel, black.
<i>Frame</i>	High Strength Stainless Steel.
Landing Gear	Powder coated Jost A400 telescopic load bearing, 2-speed with sand shoe.
<i>Frame</i>	High Strength Stainless Steel.
<i>Bracing</i>	High Strength Stainless Steel.
<i>Crank location</i>	Roadside.
Pump Frame	High Strength Stainless Steel reinforced channel construction rearward of landing gear frame.
<i>Safety gate</i>	Aluminum construction full length of frame with single point operation, Stainless hardware. (1) roadside, (1) curbside.
<i>brake interlock</i>	Shielded mounting at rear of pump frame (1) roadside (1) curbside. Activates brakes when safety gate is unlatched/open.
Suspension	Bolt-on 17" Ride height Hendrickson Intraax AAT23K, 23,000 lb., tandem axle with standard 49" axle spacing. 5 3/4" diameter Hendrickson integrated axles. Finished with Rock Guard.
<i>Dump valve</i>	Push button manual dump with auto-reset.
<i>Sub frame</i>	3/16" High Strength Stainless Steel, with stainless steel fender supports.
<i>Bumper</i>	D.O.T. code, stainless steel.
<i>Under-ride Protection</i>	Not Required.
Axles	
<i>Beam</i>	(2) Straight.
<i>Lubrication</i>	Chevron Delo synthetic grease, SF. (Semifluid)
<i>Track</i>	77-1/2" track.
<i>Spindle</i>	HP spindles (Parallel).
<i>Wheel seals</i>	Stemco Guardian.
<i>Hub & drums</i>	hub-piloted ductile Iron hub, 415 x 43mm Disc brake rotor. Includes Hendrickson Long-life System "HXL5". 5 year / 500,000 mile warranty. ***
<i>Miscellaneous</i>	This package comes with Synthetic semi-fluid grease, long-life seals, and wheel-end ventilation system.



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Brakes	MAXX22T Disc Brakes, Extended Service.	***
<i>Anti-lock / Roll stability</i>	Meritor 4S/2M with "RSS-Plus", tandem axle roll stability support system for air-ride suspension.	
<i>Brake chambers</i>	Wabco 18/24.	***
<i>Brake lining</i>	Wabco 233.	***
<i>Slack adjusters</i>	Hendrickson standard, included with "HLS" Hendrickson Long-Life System.	
<i>Valves</i>	Sealco.	
<i>Glad-hands</i>	Tramec.	
<i>Air system</i>	To D.O.T. specifications, single aluminum tank system, 2800 cu. in.	
Wheels	(8) Dual Alcoa Level One non-polished Aluminum 22.5x8.25 hub piloted wheels.	***
Tires	(8) 11R22.5".	***
Tire pressure system	Axle equipped for future install.	
Mud flaps	Black anti-sail plastic with black mudflap, no logo, mounted front and rear.	
Tire Carrier	None. Pads exist for future install forward of sub frame.	
Fenders		
<i>Front</i>	Aluminum contour.	
<i>Rear</i>	Aluminum contour.	

Valving and Piping

Pressure Relief Well	(2) Marshall Excelsior 3" full internal pressure relief valves with nitrile seats.	
Float Gauge Well	(1) Marshall Excelsior Accu-Max float gauge, Glow Black 4" Dial.	
Pressure/ Fixed Fill Gauge Well	Located curbside near center below centerline of vessel.	
<i>Thermometer</i>	(1) 1/2" NPT x 6" stem. (-40 -160 degree F.)	
<i>Pressure Gauge Fitting</i>	(1) Glycol filled pressure gauge, 1/4 NPT x 2-1/2" dial. (0 to 400 p.s.i.)	
<i>Fixed Liquid Level</i>	(4) Stainless steel outage valves, 1/4" NPT.	
Pump Inlet/Outlet	Located rearward of Landing Gear Frame protected within pump platform.	
<i>Internal Valve</i>	(1) 4" S.S. Marshall Excelsior, power stroke air operated internal valve, shear bolt protected.	
<i>Pump</i>	(1) Blackmer TLGLF-4, hydraulically driven.	
<i>Piping Inlet</i>	(1) 2" S.S. pipe to curbside.	
<i>Inlet Valve</i>	(1) 2" Stainless Steel Marshall Excelsior resilient seat globe valve, curbside, stem vertical.	***



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<i>Blowdown</i>	(1) 1/2" S.S. Jomar full port resilient seat ball valves plumbed to Blowdown manifold 37 degree S.S. fittings, 1/2" S.S. Tube.
<i>End Connection</i>	(1) 3 1/4" Brass Acme adaptor with cap and stainless steel cable.
<i>Piping outlet</i>	(1) 2" S.S. product pipe tee to roadside and curbside, Base sensor port Standard.
<i>Outlet Valves</i>	(2) 2" Stainless Steel Marshall Excelsior resilient seat globe valves, (1) roadside & (1) curbside, stem vertical. ***
<i>Blowdown</i>	(2) 1/2" S.S. Jomar full port resilient seat ball valves plumbed outboard of Outlet Valves (1) roadside & (1) curbside to Blowdown manifold, 37 degree S.S. fittings, 1/2" S.S. Tube.
<i>End Connection</i>	(2) 3 1/4" Brass Acme adaptors with cap and stainless steel cables. (1) roadside & (1) curbside.
Vapor/Spray-Fill 1	Located rearward of Pump Inlet/Outlet protected within pump platform.
<i>Internal Valve</i>	(1) 3" Cadmium Steel Marshall Excelsior, Power stroke air operated internal valve, shear section protected.
<i>Piping</i>	(1) 3" product tee to roadside and curbside reduced to 2" at secondary valving.
<i>Secondary Valves</i>	(2) 2" Stainless Steel Marshall Excelsior resilient seat globe valves, (1) roadside & (1) curbside, stem vertical. ***
<i>Blowdown</i>	(2) 1/2" S.S. Jomar full port resilient seat ball valves plumbed outboard of Secondary Valves (1) roadside & (1) curbside to Blowdown manifold, 37 degree S.S. fittings, 1/2" S.S. Tube.
<i>End Connection</i>	(2) 3 1/4" x 1 3/4" Brass Acme adaptors with caps and stainless steel cables. (1) roadside & (1) curbside.
Liquid Inlet/Outlet	Located rearward of Vapor/Spray-Fill 1 protected within pump platform.
<i>Internal Valve</i>	(1) 3" Cadmium Steel Marshall Excelsior, Power stroke air operated internal valve, shear section protected.
<i>Piping</i>	(1) 3" product tee to roadside and curbside reduced to 2" at secondary valving.
<i>Secondary Valves</i>	(2) 2" Stainless Steel Marshall Excelsior resilient seat globe valves, (1) roadside & (1) curbside, stem vertical. ***
<i>Blowdown</i>	(2) 1/2" S.S. Jomar full port resilient seat ball valves plumbed outboard of Secondary Valves (1) roadside & (1) curbside to Blowdown manifold, 37 degree S.S. fittings, 1/2" S.S. Tube.
<i>End Connection</i>	(2) 3 1/4" Brass Acme adaptors with caps and stainless steel cables. (1) roadside & (1) curbside.



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Vapor/Spray-Fill 2	S.S Blind Flange and Gasket for future Vapor/Spray-fill upgrade.
<i>Internal Valve</i>	None.
<i>Piping</i>	None.
<i>Secondary Valves</i>	None.
<i>Blowdown</i>	None.
<i>End Connection</i>	None.
Blowdown Manifold	1" S.S. manifold located within pump platform and plumbed to rear top centerline of the vessel directed rearward and downward for preventing ice/water from entering the line. 37 degree S.S. fittings, 1/2" S.S. tube.
Internal Valve Operator	Open/close air switches housed in an aluminum enclosure.
<i>Location</i>	Roadside at rear of pump platform.
Miscellaneous	None.

Pump Drive

Pump Operator	Charlynn hydraulic motor coupled to pump.
Pump Control	Flow Control Valve, curbside. ***
Plumbing	High pressure hydraulic hose coupled to S.S. hard piping to the front centerline of the trailer terminating in male and female Pioneer quick connections.
Hydraulic Hose Hanger	None.

Hose Carriers

Hose Carrier	(2) Tube, alum. 8" x 21' long, door at front hinged down.
<i>Carrier Location</i>	Mounted (1) curbside & (1) roadside positioned rearward of pump platform.

Ladder

Ladder	None.
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Miscellaneous

Fasteners	All stainless steel fasteners where practical.
Decals	Standard warning and safety package.
Conspicuity Tape	continuous tape installed per FMVSS requirements.
Customer Logo	None.
Document holder	Truck Lite #97960.
Placards	Four Aluminum slide-in brackets, one mounted each side of trailer.
Fire Extinguisher	(1) 20# mounted at roadside rear.
Eye Wash Station	None.
Static Strap	(1) roadside (1) curbside mounted at rear of Pump Platform.
Ground Lugs	(2) grounding lugs mounted roadside at rear of pump platform.
Chock Block	(1) set Marshall Excelsior Chock blocks located front roadside of sub frame.
Remote Emergency Shutoff	Air switch with fusible plug located at roadside front and curbside rear.
Passive Device	Smart Hose, Model# CG-LPG-32-R-20-3.
Warranty	Jarco standard two year.
Tests	100% X-ray of all pressure welds required by ASME Code. Stress relieved per ASME Code and D.O.T. Specifications. Wet magnetic particle inspection per DOT Specifications. DOT & FMVSS Standard Safety Tests and Inspections.
Add'l Misc.	None.