

# MUELLER

## Specification

[ **NV1406** ]

### EXPRESS 96 PETROLEUM "SYSTEM 3"

VIN #1P9A442A9ES703118

#### Barrel Description

Model	"Express 96 System 3"
Code	D.O.T. 406
Capacity	9,500 gallons (up to +5% tolerance, 90 gallons minimum).
Compartments	Four (3000//1500//2000//3000) all double bulkheads.
Shape	Elliptical, tapered, baffled.
Overall Length	Approximate 44'
Overall Width	Approximate 96"
Coupler height	49" standard
Estimated weight	10,600 lbs. (+/- 3%)
Shell Material	Aluminum, .204" (nominal) bottom, .181" (nominal) sides and top, two-piece barrel with one circumferential weld.
Head and Baffle	Aluminum, .250" (nominal) over load bearing, .250 (nominal) and .181" (nominal) as required.
Material	Grade 5454 Aluminum
Operating Pressure	3.3 PSIG
Design Temperature	180°F
Product	Petroleum products (7.5 lbs. per gallon)

#### Construction

Frame	Extruded aluminum full frame, aluminum outriggers and cross members at running gear, supports, and fifth wheel.
Dam Drain	(1) one, 4" aluminum internal drain pipe at the rear, screen over pipe.
Overturn Protection	Overturn protection, structural aluminum extrusion each side on the top of shell, full length, curbside rail doubles as vapor rail.
Manhole	(1) one per compartment, Civacon #SSWN101120, 20" zinc-plated steel covers with 10" offset fill, includes vapor and sensor holes, NV 3000, pressure/vacuum normal vent, mounted in 10" relief valve.
Gasket	Buna-N gaskets in cover.
Splash Deflector	(1) one per compartment, aluminum deflectors installed over emergency valve.
Capacity Indicator	None

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Page 1 of 6



Static Cable	(1) one per compartment, 1/8" stainless steel from manhole to bottom of tank double looped top and bottom.
Bottom Retain Collar	None

### Barrel Finish

Weld Finish	W-O inside
Shell Sides	Bright polish
Shell Bottom	Mill Finish
Front Head	Bright polish
Rear Head	Bright polish

### Hose Carriers

Hose Carrier	Full length hose tray, curbside, full width, recessed center section above A.P.I. valves with front and rear wear plates, rear drain tube, front drain hole, (6) six, evenly spaced adjustable heavy duty hold down straps with straight handles.
Gauge Stick Tube	Aluminum gauge stick tube, 1 1/2" diameter x 16' long, located curbside with pin at front, spring in tube to minimize gauge stick from vibration and wear located inside outer edge of hose tray in rear portion pin facing forward.

### Lights and Wiring

Tail Lights	(6) six, 12-volt, Peterson LED flange-mount lights with security rings, (3) three red lights each side mounted in rear bumper overlay.
Mid Marker / Turns	(2) two, 12-volt, Peterson LED flange-mount lights, (1) one, each side
Work Lights	(2) two, 12-volt swivel work lights with clear lens (1) one at front of load rack and (1) one at rear of load rack, position to illuminate work area. (1) one, L.E.D. strip light mounted over A.P.I. valves.
Additional Brake Lights	12-volt Peterson L.E.D. flange mount red oval lights, (3) three, mounted in rear closeout
Cabinet Lights	12-volt Peterson L.E.D. Strip lights, (1) one, in E.V.O. cabinet, (1) one, in fitting cabinet
Additional Lights	None
Wiring	Peterson Plug-in style standard harness system.
Switching	All work lights, cabinet lights and strip light over load heads to be on (1) one, vapor proof switch mounted in E.V.O. cabinet and labeled "Cabinet / Work Lights".
Nose Box	Standard 7-way, J560 receptacle without circuit breakers, with frame ground.



### Undercarriage

Upper Fifth Wheel	5/16" heavy duty with A.A.R.-style double-hubbed kingpin, painted black acrylic enamel.
Landing Gear	Jost A400 telescopic load bearing, 2-speed, crank located roadside.
Frame	Aluminum construction, bolt on, load bearing.
Bracing	Stainless steel, with cross brace.
Tire carrier	None
Suspension	Ridewell RAR260 Air Ride 23,000 lb., tandem axle with standard 49" axle spacing, 5-3/4" diameter integrated axles.
Subframe	Stainless steel subframe, stainless steel suspension hangers.
Bumper	D.O.T. code, stainless steel, straight, weld on with full width polished aluminum overlay, recessed license plate holder with 2 L.E.D lights.
Rear Closeout	Polished aluminum with additional red oval brake lights installed in closeout.
Dump Valve	None

### Axles

Track	71-1/2"
Spindle	P spindles (parallel) same inner and outer bearing.
Wheel Seals	Stemco "HP Guardian"
Hub and Drums	Walther EMC, hub piloted, Dura-light hub with cast drum.
Hub Lubrication	80/90 gear oil
Hubometer	None
Tire Inflation System	None

### Brakes

Type	S-Cam, 16.5" x 7" "QT"
Anti-Lock	Meritor 4S/2M
Roll Stability	Meritor Roll Stability System
Brake Chambers	Ridewell supplied 3030.
Brake Lining	20K Extra Life Lining, non asbestos.
Slack Adjusters	Bendix 5-1/2" automatic.

### Air System

Air Tanks	(2) two, 2,800 cu. In., aluminum tanks system to DOT specifications.
Valves	Sealco
Gladhands	Phillips, quick release on service side



<b>Wheels</b>	Accuride, 22.5" x 8.25", aluminum, hub piloted, polished disc.
<b>Tires</b>	Goodyear G316 11R-22.5, 14-ply radials.
<b>Mud flaps</b>	Blue anti-sail with Mueller logo, mounted front and rear.
<b>Fenders</b>	
Front	Aluminum contour (smooth).
Rear	Aluminum contour (smooth).
<b>Valving and Piping</b>	
Sump	(1) one per compartment, 4" aluminum drain pockets.
Emergency Valve	(1) one per compartment Civacon, VA5162, 5" x 4", super flow, aluminum, air-operated, Tefsil seals and Victaulic outlet, attached to sump.
Emergency Valve Op.	Civacon "CivaControl" air-control panel.
Emergency Closure	Roadside front
EVO Location	Mounted at curbside in EVO cabinet.
Pipe	4" aluminum schedule 10, with radius elbows, ending near curbside center at aluminum locator bracket with flange outlet.
Discharge Location	Curbside.
Manifold	None
Pump-off Line	None
API Valve(s)	(1) one per compartment, Civacon 4", 891BA, with sight glass.
API Cap(s)	None
Sight Glass	None
Adaptor	(1) one per compartment, Civacon 4" aluminum male gravity drop adaptor(s) with caps and chains, Buna seal, #871A-AL40.
<b>Interlock</b>	
Interlock Bar	Aluminum interlock bar mounted over curbside discharge area, with interlock valve.
Interlock Valve(s)	Dixon Bayco 5000 AIHD (Heavy Duty) air interlock valve(s).
<b>Venting and Cleanouts</b>	
Venting Pressure	Betts #3686ALV, out breathing vent, aluminum body with Viton seal, mounted in vapor recovery line.
Cleanouts	None
Caps	None



### Walkway and Ladder

Walkway Top Center	Non-skid tape, full length inside of overturn rails.
Ladder	Aluminum, tubular, with grip steps and large platform step, bolt on.
Ladder Location	Mounted at front head, centered.

### Cabinet(s)

Fitting Cabinet	Aluminum cabinet, 28" high x 48" wide x 26" deep, with (2) two doors. Shelf with 1" lip turned up 16" from the floor, 16" from back of cabinet with (4) compartments toward rear approximately 8 1/2" wide for drop elbows and (1) compartment toward front approximately 14" wide for bucket, 3/4" lip affixed to floor of cabinet 14" from back of cabinet in bucket slot to retain bucket. L.E.D strip light in cabinet, outside / center. Front door to overlap rear door.
EVO Cabinet	Aluminum cabinet with L.E.D light, single door.
Additional Cabinet	None

### Vapor Recovery

Provisions	3" pipe stubs in curbside overturn rail, near manhole.
Vent	3" Civacon, T195SV, sequential vents, air operated, plumbed to emergency valve operator.
Line	4" aluminum pipe, through barrel with shear section, with (1) outlet to curbside just ahead of the suspension and (1) outlet curbside 15" to rear of discharge valve area.
Adapter	(2) two, 4" x 4" Civacon vapor recovery adaptor, 611F flanged with poppet.
Cap	(1) one, per adapter, orange, 4" Civacon vapor cap, 1711T with chain.

### Overfill System

Overfill System	Civacon, ROMLink "Plug-N-Load" system, with one top optic sensor (per compartment), includes dual socket box (optic and thermistor sockets with electronic SAF-T ground wire), built-in limit switch at controller and provision for interlock; system has complete plug-in harness, located in EVO cabinet. L.E.D. strip light in EVO Cabinet
Bottom Retain Sensors	None
SJ-6W Socket	None
Static Balls	(3) three pair, 2 balls 1-3/16" apart located: (1) curbside rear bolster, (1) curbside front bolster, (1) curbside loadrack area.



**Miscellaneous**

Decals	Standard warning and safety package.
Conspicuity Tape	Discontinuous tape.
Customer Logo	None
Placards	(4) four, 80SM slide-in holders, (1) one, each side of trailer
Document Holder	(1) one, mounted high and to the front in fitting cabinet
Calibration	Theoretical paper chart, in .25" increments based on image.
Paint	Acrylic enamel on all carbon steel parts; chrome gray.
Fire Extinguisher	None
Fire Ext. Holder	None
Product Indicators	Trucknology Roto Tag – 8 sided.
Cone / Bucket Holder	10-1/2" Cone holder mounted curbside with strap.

**Tests**

Standard Test(s)	(V) External Visual, (I) Internal Visual, (P) Hydrostatic Leak, (K) Pneumatic Leak Test, EPA Method 27
Additional Test(s)	None

**Warranty**

Mueller standard nonprorated five year warranty on barrel,  
Civacon 3 years with "System 3" package  
Walther Dura-Light Hub – Transferable lifetime warranty  
Peterson Lighting – Lifetime on Peterson L.E.D. lights  
Ridewell Suspension – 5 years  
Wheel Ends – Stemco "Platinum Plus" 5 years

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