



Pricing Administration Use Only				
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Quote Number	Quote Revision	Shop Order Number	Serial Number(s)	Date

**Customer** **Troy Hradsky**  
Werts Welding & Tank Service  
Ccardinal Stock - Drum

**Base Model Part Number** 38328.1

**Specified Model Description** AVB6 9500-4D6 ST 21,3000//1500//2000//3000,3.3 PSI, 180 F, Standard Duty Petroleum Trailer (Can replace 2 BFLs with T-rings) 43'6"

**A. Vessel**

**1) Design** AVB6 9500-4 ST 21, Aluminum, Elliptical, Baffled, D.O.T. 406 trailer, Standard Duty Petroleum Trailer.

Code: DOT 406

Capacity: 9500 gallons plus 3% outage. (Capacities are nominal unless stated otherwise.) 60 gallons is the minimum outage for any size compartment.

Compartments: Four Compartments, front to rear. (3000//1500//2000//3000)

Shape: Elliptical, 20.83 GPI

Shell Material: Aluminum - 5454- alloy. All size / gauges are nominal.  
Top: 0.180  
Sides: 0.180  
Bottom: 0.206

Head and Baffle Material: Double heads between all compartments. 0.201 stiffened and shoed front and rear heads. 0.201 stiffened and shoed heads / baffles over kingpin. 0.186 stiffened and shoed baffles over rungear. 0.201 unstiffened compartment heads and 0.186 unstiffened surge heads between compartments.

Operating Pressure: Tested at 5 PSI, rated 3.3 PSIG

Design Temperature: -20 Degrees F. to 180 Degrees F.

Overall Length: 43'6"

Product: Gas, Diesel Fuel, or similar (Customer Responsibility)

**B. Construction**

**1) Frame** \* Front to rear aluminum framing. 44" Wide. Outriggers and pads at front and rear, outrigger at landing gear, outriggers as needed to mount accessories.

**2) Dam**

Dam Drains: Drains through ladder rails.

Overturn Protection: Overturn Protection, full length structural aluminum extrusion each side on top, dams front and rear with transverse, curbside rail doubles as vapor rail.

**3) Manhole** 4 \* Betts PPVL816AX, 16" aluminum cover with 10" offset fill. Includes vapor and sensor holes. Includes 6496ALB, pressure / vacuum vent mounted in 10" relief valve cover.

Gasket: 4 Buna-N gasket in cover



#### 4) Fill

Gasket: 4 Buna-N gasket in 10" fill

#### 5) Splash deflector

4 Splash shield-vortex breaker over each emergency valve.

#### 6) Capacity indicator

None

#### 7) Static cable

4 1/8" stainless steel ground wire from manhole to bottom of tank.

#### 8) Rings

No Rings installed.

### C. Other Barrel Information

#### 1) Weld finish

W-0 inside

#### 2) Material Finish

Shell Material Finish: Buffed/Polished finish on shell sides.

Front Head Finish: Buffed/Polished finish on front head.

Rear Head Finish: Buffed/Polished finish on rear head.

### D. Venting and cleanouts

#### 1) Venting

DOT-406 venting in manhole.

#### 2) Cleanouts

None

### E. Vapor Recovery

#### 1) Provisions

3" black nylon vapor recovery nipples connected to flashing rail. A hose connects the vapor recovery vent to the nylon vapor recovery nipple.

#### 2) Vent

\* 3.5" Bayco #VR6030SQ sequential vents, air operated for 16" manhole. Plumbed to Emergency valve operator. Threaded.

#### 3) Line

\* 4" aluminum pipe, at rear of overturn rail down with one outlet to curbside over rear of rear fender, one outlet curbside 15" to rear and 15" to front of discharge valve area, 4" outlet.

#### 4) Adaptor

2 \* Bayco 4" x 4", vapor recovery adaptor, without poppet and interlock mount. Threaded. #VR4100NP.

\* Bayco 4" x 4", vapor recovery adaptor, with poppet and interlock mount. Threaded. #VR4100.

Rear VR outlet.

#### 5) Cap

3 \* Bayco 4" orange nylon vapor cap, with chain. #VR4050PL.



## F. Valving and Piping

- |                                    |                    |   |
|------------------------------------|--------------------|---|
| <b>1) Seal provisions</b>          |                    | None  |
| <b>2) Sump</b>                     | 4                  | 4" aluminum drain pocket  |
|                                    | 4                  | * Aluminum sump trough.<br>in each compartment  |
| <b>3) Emergency Valve</b>          | 4                  | * Betts EV46911ALTS 4" x 4" 90 degree, internal, hi flow, aluminum, air operated, Teflon seals and Victaulic outlet, attached to sump. Internal Air Cylinder.   |
| <b>4) Emergency Valve Operator</b> |                    | * Betts Air Control kit includes master control push/pull incorporated into air distributor. One emergency trip located roadside, front of tank.<br><br>Mounted in enclosure cabinet.<br><br>EVO Lines: Air tubing.<br>EVO Location: Mounted in separate EVO cabinet. |
| <b>5) Pipe</b>                     |                    | 4" aluminum schedule 10 pipe, with large radius elbows, ending center at aluminum locator bracket with flanged outlet.  |
|                                    | Flanged Gaskets: 4 | All gaskets in discharge piping to be Viton.  |
|                                    | Couplings:         | Aluminum coupler on groove-groove connections with Baylast gaskets.   |
| <b>6) Outlet valve</b>             | 4                  | * Dixon/Bayco openable API adaptor with alum handle and no sight bubble. #5204NG.   |
| <b>7) Sight glass</b>              | 4                  | * Jikoh sight glass, mounted prior to outlet. #JDG-105. Compatible with ethanol.  |
| <b>8) Adaptor</b>                  | 4                  | * Dixon Bayco 4" aluminum male gravity drop adaptor(s) with cap(s) and chain(s), Baylast seal. #4540.   |

## G. Walkway and Ladder

- |                   |                  |   |
|-------------------|------------------|---|
| <b>1) Walkway</b> |                  |   |
|                   | Top center:      | Non-skid tape, full length of barrel between overturn rails.<br>Walkway drains through ladder hand rails at rear. |
| <b>2) Ladder</b>  |                  | Aluminum tubular walk through, with serrated rungs and large platform step, and integral grab handles.            |
|                   | Ladder Location: | Mounted at rear head, centered. With step below bumper.<br>Walkway drains through ladder hand rails at rear.      |



## H. Cabinet

### 1) Cabinet

- \* Aluminum cabinet 30" high X 48" wide X 28" deep, two door cabinet without center post.  
curbside in front of rungear  
Includes Betts light
- \* Aluminum cabinet 30" high X 20" wide X 9" deep, one door cabinet.  
Mounted in front of, and flush with 48" cabinet.  
This enclosure cabinet contains overfill monitor, receptacles, EV operator.

## I. Hose Carriers

### 1) Hose Carrier

Carrier Location:

- \* Aluminum trough 4" high x max width x full length of barrel with reduced center section above discharge area; with brackets. Hose trough doubles as fenders on one side of trailer. Includes straps.  
Mounted curbside

### 2) Gauge Stick Tube

- \* Aluminum gauge stick tube 2" diameter x 16' long.  
Mounted inside hose tray, protruding 2" into the recessed section. tube to be welded to tray where it protrudes. Front of tube open with removable pin, rear capped with small drain hole.

## J. Lights and Wiring

### 1) Lights

12-volt, Truck-Lite flange mount LED lamp system complying to FMVSS.  
Combination center marker / turn signals, one each side.

### 2) Wiring

7-way wiring, with junction boxes.

### 3) Rear Lights

Enclosed in Aluminum light boxes, one each side of tank.

### 4) Stop Light

Truck-Lite flange mount, 60 series, 26 diode LED, oval stop light mounted on rear head.

### 5) Extra Lights

- \* Betts 325503 swivel LED floodlight(s) with 20 amp toggle switch.  
on front of enclosure cabinet to illuminate work area.

### 6) Nose box

Location:

Standard 7 way, J560 receptacle without circuit breakers.  
Nose box mounted lower roadside of front head.

## K. Overfill system

### 1) Overfill system

- \* Dixon Bayco, Flo-tech FT2804 Checkmate two wire system, one top optic sensor (per compartment) with one optic and one thermistor socket.  
monitor and dual sockets all located in enclosure cabinet.



## L. Interlock

- 1) Interlock bar** Aluminum safety bar with lock pin; over centralized discharge and vapor outlets. Activates (1) brake interlock valve
- 2) Interlock valve** \* Brake interlock Bayco 5000AIHD valve mounted at outlet. at rearmost vapor outlet

## M. Pump System

- 1) Hydraulic Lines** None
- 2) Meter** None
- 3) Meter Installation** None

## N. Chassis

- 1) Upper 5th Wheel** 5/16" Heavy duty with A.A.R. style double hubbed kingpin.
- 2) Skid Plate** Aluminum skid plate.
- 3) Landing Gear** SAF Holland Atlas 55, 2-speed, load bearing, sealed gear box, 55,000 lbs. rated lift capacity with 10"x10" swivel type sand shoes. Black Armour coating. No Lube, 5 year Warranty.
- Bracing: Stainless steel, with cross brace.
- Crank location: Crank handle located on roadside
- Tire carrier: None.
- 4) Suspension** Hendrickson Intraax AANT23K, 23000 lb., tandem axle with standard 49" axle spacing. 5.75" diameter Hendrickson integrated axles.
- Suspension Hangers: Galvanized hangers with soft coat applied to axle and trailing arm.
- Dump valve: None
- Subframe: \* Extruded aluminum sub frame, 44 wide, with aluminum fender supports.
- Bumper: Aluminum, straight, weld-on. D.O.T. code, per FMVSS223
- Bumper Overlay: \* Bright mill finish aluminum bumper overlay, full width DOT compliance per FMVSS223
- Under-ride Protection: None (no under ride required, Wheels back exempt.)
- 5) Axles**
- Beam: Straight
- Track: \* 77-1/2" track (Requires 44" Wide Subframe.)
- Spindle: OEM Standard P spindles (parallel) same inner and outer bearing
- Wheel seals: OEM Standard



Hub & drums: Ready to Roll, Duralite Hub with Centifuse Drum.  
Miscellaneous: None

## 6) Brakes

OEM Standard  
Anti-lock / Roll stability: OEM Standard 4S/2M with tandem axle roll stability for air-ride suspension.  
Brake chambers: OEM type 30-30 long stroke parking-emergency spring brake.  
Brake lining: OEM Standard Extended service, non-asbestos  
Slack adjusters: OEM automatic slack adjuster.  
Valves: OEM Standard  
Gladhands: Gladhand, Phillips, Quick Release  
Air system: Two aluminum tank system. 2800 cu. in. each, or equivalent, meeting FMVSS 121 D.O.T. specifications

## 7) Wheels

Alcoa Ultra One with clean buff finish, 22.5 x 8.25 aluminum.

## 8) Tires

\* 11R-22.5 Marathon LHT 14-ply radials.

## 9) Fenders

Front: Single contour ribbed front fender. Mounted one side of trailer, hose trough doubles as fender.  
Rear: Double contour ribbed rear fender. Mounted one side of trailer, hose trough doubles as fender.

## 10) Mud flaps

White with Heil logo. Front and rear, HEIL, anti-sail, anti-spray flaps.

## 10) Axles

\* Chevron Delo synthetic grease, SF. (Semifluid)

## O. Miscellaneous

### 1) Decals

Standard warning and safety package, Complying to FMVSS. HM-183, Vapor and Chevron exhibit "C" Form. Decals in English. Heil nameplate on front end dam and rear bumper.

### 2) Conspicuity Tape

Discontinuous tape

### 3) Customer Logo

None

### 4) Document holder

\* Betts PS-1 document holder.  
Mounted streetside on landing leg bracket.

### 5) Calibration

Computer generated theoretical calibration chart, 1/2" increments. Based on innage.



**6) Placards**

\* Four Aluminum slide-in on brackets, one mounted each side of trailer.  
and one each mounted front and rear

**7) Paint**

None. No paint or primer installed on trailer.

**8) Product Indicator**

4 \* 8 sided product indicator, no aluminum cover.  
Belknap: Empty, Prem Unlead, Unlead Plus, Reg Unlead, Diesel, AvGas, Jet Fuel,  
Ethanol

**9) Fire Extinguisher**

None

**10) Cone holder**

\* Aluminum, combination cone and bucket holder with straps to secure both cones and  
bucket.  
Curbside in front of piping.

**11) Warranty**

Heil Trailer Silver Warranty Package.

**12) Tests**

Vapor tested and certified to EPA Method 27-CA Air Resources Board standards and  
manholes sealed.  
send 2 sets of test paperwork with each trailer.