

PRODUCT DATA SHEET

January, 2001

POLAR TANK TRAILER (Stainless Steel)

GENERAL INFORMATION

This insulated trailer is built in full accordance with Department of Transportation regulations (DOT-407).

WEIGHTS AND MEASURES

➤ Capacity:	.....	7000 gallons
➤ Height:	.....	11'-7" overall
➤ Width:	.....	7'-10" (approx.)
➤ Length:	.....	42'-6" (overall trailer length – rear bumper to tank front) 39'-0" (shell cylinder length – not including heads)
➤ Weight:	.....	13,000 lbs. (empty, tank + trailer)
➤ Ratings:	.....	G.C.W.: 80,000lbs. Trailer: 13,000lbs.; Tractor: 18,000 lbs. Payload – 49,000lbs.

OPERATING SPECIFICATIONS

➤ Liquid Density:	.....	8.29 lbs./gal
➤ MAWP:	.....	25 psig
➤ Temperature:	.....	300°F maximum

BARREL

➤ Tank Shell:	.....	10-gauge 316 stainless steel, two piece with one circumferential weld
➤ Shell Head:	.....	10-gauge 316 stainless steel, butt-welded, seamless
➤ Baffles:	.....	None
➤ Exterior Rings:	.....	Stainless steel channel sections welded to barrel
➤ Frame:	.....	Stainless steel outriggers & crossmembers welded to stainless steel frame. Expansion joint between landing gear and upper fifth wheel.

FEATURES

➤ Manhole:	.....	Stainless steel 20" full opening, hinged to front, manhole stop, 6-holdowns, teflon gasket in cover
➤ Heat:	.....	Heat panel, 150 psi working pressure welded to bottom of vessel with standard traps and pressure relief, with ¾" NPT inlet and outlet, 18" wide panel
➤ Insulation:	.....	Fiberglass, 6" compressed to 5"
➤ Jacketing:	.....	Belly-wrapped 22-gauge bright finish jacket, lapped seams, 18-gauge heads, lock seamed to jacket
➤ Spilldam:	.....	Stainless steel, near center of trailer with polyethylene drain hoses on each side
➤ Overturns:	.....	Stainless steel box type, per D.O.T. spec., at spilldam and outboard of each cleanout.
➤ Ladder:	.....	Stainless steel tubular with grip steps, attached to walkway, curbside, with large platform step. Bolt-on top and bottom.
➤ Walkway:	.....	19" wide aluminum grip strut down center to cleanouts. 12" wide aluminum grip strut curbside of dam and connected to center walkway.

FEATURES – cont

➤ Fifth Wheel:	.....	5/16" heavy-duty upper fifth wheel plate with Holland A.A.R. style double hubbed kingpin, adjustable in 2" increments.
➤ Landing Gear:	.....	Austin "Lift-pak" round leg 2-speed, steel, sand shoes, 50,000 lb. lift capacity, curbside crank handle
➤ Suspension:	.....	TRANSPRO, Model 88 tandem, 3-leaf (11,000 lb. cap.) fabricated steel (u-bolt nuts down, 3-point mount)
➤ Axles:	.....	Rockwell, Model TN4670-Q, 5" round x ½" thick wall, 71½" track
➤ Brake System:	.....	Rockwell "Q" series, scam 16½"x7". Provisions for anti-lock includes tone rings on one axle. Brake chambers are TSE 3030. WEBB 16½"x7" heavy duty, cast, outboard mount brake drums. Ferrous hub with double cap nut mounting. ABBEX – ABB-3030-197 brake lining. Rockwell automatic slack adjuster. Midland valves. TRAMEC gladhands.
➤ Wheels:	.....	24.5x8.25 steel disc, 10-hole, 11¼" bolt circle.
➤ Tires:	.....	285/75R – 24.5 Bridgestone R-194 radials
➤ Lights:	.....	12-volt, Truck-lite, vapor proof D.O.T. lights and reflectors. Combination center marker/turn signals.
➤ Hose Carrier:	.....	One 10" x 21" aluminum hose tube, doors both ends, mounted on roadside
➤ Emergency Valve :	.....	Betts CH45613-SST 4"x3" S.S. external hydraulic valve, attached to a 4" S.S. mounting pad, attached to fluted drain with pump and hydraulic line. Pump is mounted off rear subframe with copper line to front roadside frangible mounted off jacketing.
➤ Piping:	.....	3" S.S. spool piece between emergency valve & outlet valve
➤ Outlet Valve :	.....	Betts QR713-SST 3" QRB Hydrolet valve attached to spool piece, ending in 3" NPT threads
➤ Pump:	.....	None
➤ Vents :	.....	D.O.T. 407 25-psi Girard pressure vent, with Tef-sil seat, on a 4" threaded nipple in dam area ahead of manhole on roadside. One 3" Girard magnetic vacuum breaker with viton seat and pressurizing package consisting of a pressure gauge, ball valve, and a Chicago Coupler on a 3" threaded nipple in a dam area, ahead of manhole on curbside.
➤ Vapor Recovery:	.....	None
➤ Cleanouts :	.....	(2)- 3" threaded nozzles with solid caps located 10' from each head. No sealing provisions.
➤ Thermometer :	.....	0-300°F, remote sensing, bulb type, curbside at ladder
➤ Level Indicator :	.....	None
➤ Placards :	.....	(4)- aluminum holders, front, rear and both sides
➤ Cert Holder :	.....	Betts PS-1 on landing gear frame
TESTS/CERTIFICATIONS		
➤ Tests Performed:	Scheduled D.O.T. V, I, P and K inspections

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