Predator® Liquid Vacuum Tanker Equipment Specifications

Total Tank Capacity

The total tank capacity is 3,000 gallons. A primary shut-off system with a 6" stainless steel float ball and buna seat are located in the front top center of the tank. A liquid level indicator with stainless steel one-piece shaft and 8" stainless steel float ball are provided in the rear head with an exterior indicator arrow. The liquid level assembly includes a quad seal bushing with viton o-ring seal and is replaceable from the outside of the tank. Baffle assemblies are bolted in place to protect against anti-surge of liquid or slurry when transporting. Large top and bottom clearance is provided for easy flow of product when unloading. An automatic pressure relief valve is provided on the tank and set to the tank design pressure.

Tank Material

The tank is constructed with carbon steel and is rated for continuous maximum vacuum operation and 15 PSI working pressure. All horizontal and longitudinal seams are submerge arc welded.

Hydraulic Tank Lift

A three (3) stage double acting hydraulic cylinder is mounted to the front head to lift the tank and provides an automatic lock when the tank is in the lowered transport position. Trunions installed on each side of the lift cylinder include grease zerks for periodic lubrication. The tank hinges at the rear on two solid bar pins, with grease zerks, which are integral with the main body 4"x 4" main support rails. The hydraulic lift cylinder requires hydraulic power to raise or lower the tank.

Code Type

The tank is built and stamped in accordance with Section VIII of the ASME (American Society of Mechanical Engineers) boiler code. This is a prerequisite before it can be in accordance with the US Department of Transportation for hauling hazardous materials on the highway. This tank is built in accordance with the US Department of Transportation specification DOT412. A plaque must be attached to the tank which displays data of compliance to this specification. Additional components including self closing discharge valve(s), roll-over protection, increased pressure relief system, isolation valve(s), complete rear valve protection and placards are required and included.

Number of Compartments

The tank is a single compartment type.

Rear Head Type

The rear head is ASME flanged and dished type, hinged at the top with 1½" diameter bronze oillite bushings and sealed with a 1½" neoprene rubber gasket. The full opening rear head opens by gravity when the tank is raised. Forged "T" bolt wing nut type fasteners with thread protectors and grease zerk fittings are used to secure the rear head. One rear 6" nozzle and one rear 4" nozzle are flanged with bolted piston type valves and dust caps. The 4" nozzle includes an internal standpipe with exit elbow that terminates at the top of the tank. A 30/30 liquid filled vacuum/pressure gauge is located at the upper rear portion of the tank and registers the "inches of mercury" (Hg) or "pounds per square inch (PSI) inside the debris tank.

Top Manways

The tank is equipped with one top 20" manway which includes an access ladder and non-skid platform. An o-ring seal is matched to a dome cover lid with four (4) easy opening fasteners. The cover dome is equipped with a handle and rest pad for safe opening and closing of the hatch. The top manway is located in the debris tank.

Vacuum Pump Power Source

Power to run the vacuum pump is provided through a Power Take Off (PTO) mounted to the truck transmission.

Vacuum Pump Cooling or Type

The vacuum pump is our industrial duty air-cooled rotary vane type. An oil tank is provided to store lubrication oil which is automatically dispensed inside the pump. A muffler is provided to catch the consumed oil and includes a drain valve.

Vacuum Pump CFM

412 CFM Free Air; 310CFM @18"Hg; 310 CFM@18"Hg; 27-29"Hg Maximum

Vacuum Pump Drive

The vacuum pump is driven by a direct coupled hydraulic motor which receives power from a transmission mounted direct coupled hydraulic pump.

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