



TL3 & TL4 Bid Specifications

6/14/04

Functional Intent

- 1) The Locker shall safely lock and hold a rearload commercial container to the back of a rearload waste collection vehicle during the container dumping process.
- 2) The Locker will be compatible with all styles/brands of rearload commercial containers from 1 cubic yard to 10 cubic yards, that have been designed to meet ANSI code for rearload commercial collection containers (containers that have a trunnion bar)
- 3) The design of The Locker will allow for the easy engagement/disengagement of commercial containers.
- 4) The Locker will have a locking capacity of 2,000 lbs.
- 5) The pressure required to operate The Locker will be between 1500-1900 PSI..
- 6) Complete cycle time to lock or unlock a container will be 4 seconds @ 4 GPM .
- 7) The Locker will be rated for usage of 200 times a day.
- 8) Operating temperatures will be between -30° F to $+120^{\circ}$ F.
- 9) Overall design shall provide for the maximum possible safety for the operator.

Performance

- 1) The unit shall feature a single lever that hydraulically locks/unlocks both sides of a container's trunnion bar to the rear of the waste collection vehicle.
- 2) The Locker is strong enough to help pull mis-aligned containers into the locking area for greater efficiency and convenience.
- 3) The Locker has an optional safety valve that prevents the tipper bar or winch from working unless The Locker is safely closed.
- 4) The Locker shall be a compact design that does not interfere with hand-loading or cart dumping functions.
- 5) The TL3 Locker uses a cylinder to perform the locking function. The TL4 uses a more compact rack & pinion system. For trucks equipped with a tipper-bar/kick-bar the TL4 is recommended.
- 6) The design of the Locker shall not adversely effect the truck's ground clearance.

Construction

- 1) All structural components of the Locker will be AISI A36 HRS.
- 2) All hardware, such as bolts, nuts, washers will be Grade 8.
- 3) The locking plate will be 1" thick HRS.
- 4) The supporting side members will be ¾" thick HRS.
- 5) The main pivot of The Locker will be 1" Dia.
- 6) All nuts will be Nylock Locknuts for secure assembly.

Hydraulics

- 1) The hydraulic system does not require any electrical wiring or solenoids.
- 2) The Locker is locked in place using a P.O. Check valve that prevents motion unless hydraulic pressure is applied.
- 3) Tap-In Kit shall include Diverter Valve, hand valve/s, and hoses and fittings required to make most installations. Some installations may require additional fittings not provided. Care should be taken to order the correct kit for your model truck at the time the order is placed.
- 4) The Diverter Valve is a priority flow control with an adjustable relief made from a single block of steel or aluminum. The valve can accept full system pressure/flow through it's body with minimum back pressure or heat. The valve will send the specified amount of flow to the hand valve and allow the rest of the flow to continue to the packer valve.
- 5) The Hand Valve has a built in adjustable relief valve and a dead-man stop feature. Release the handle and all motion to the lifter stops.
- 6) All hoses, fittings and valves are rated for use in high-pressure, 3,000 PSI systems.
- 7) Provided in the Tap-In kit are hose clamps for managing the proper hose placement.

Maintenance

- 1) The locker utilizes only four (4) grease zerk nipples, allowing monthly greasing to be quick and easy.
- 2) Intervals for required adjustments to the Locker shall not be less than 6 months.
- 3) Most parts are kept in stock and will ship the same, or the following day, depending on availability.

Finishing

- 1) All metal surfaces will be prepared and power washed prior to painting, to remove oils, rust, welding slag and grease.
- 2) The Locker will have an initial primer coating and one top-coat that will be “Safety Yellow” unless otherwise specified.
- 3) Completed unit will have all appropriate safety decals.
- 4) The Locker will come with an identification tag permanently affixed to the side that has the serial number necessary for warranty purposes.
- 5) All shipments will be inside a durable cardboard box mounted atop a pallet, with plastic wrap/steel strapping to secure the Locker to the pallet and prevent exposure to the elements.
- 6) The lifter will come packaged with an instruction manual that contains detailed instructions on the proper mounting and care for the lifter, as well as a spare parts key and ordering information.

Warranty

- 1) The Locker shall be warranted against manufactures defects for a period of 1year. Standard warranty does not cover labor. See Warranty Page for complete details.