

VBR-100 Dok-Lok[®] Vehicle Restraint

Durable mechanical restraint provides safety, reliability and economy.

Provides trailer separation protection

Helps protect against early departure, trailer creep, and dock walk. Accommodates virtually any rear impact guard (RIG), securing the widest range of trailers.

Positions automatically

Utilizes energy of backing trailer and adjusts easily to varying RIG heights. No external power source required as positioning is manually activated.

Engineered to withstand loading dock environment

Stores above ground away from snow, ice, debris and standing water to ensure reliable performance. Resists damage by backing trailers. Corrosion resistant finish for all-weather performance.

Easy to operate

- » Simple control rod is used to manually activate barrier
- » A manual “lock/unlock” push button changes the inside and outside lights to indicate a locked or unlocked status.

Safe, constant contact

Mechanical springs provide superior upward force and constant tension against rear impact guard. Unit maintains consistent engagement as trailer bed height fluctuates during loading and unloading. Especially important with air-ride suspension trailers.

Simple design, low maintenance

Fewer moving parts means high reliability, for maximum productivity. E-Z-Lube™ axle design makes occasional lubrication quick and simple.

Exclusive, full-time communication system

Interior/exterior LED light communication system, including Corner-Vu and Leveler-Vu.



Easy to operate: Simple control rod is used to raise and lower barrier.



Automatic light system: includes durable touch-pad controls that allow user to communicate if trailer cannot be effectively engaged due to damaged or missing RIG.

Specifications

General description

Mechanical Dok-Lok® Vertical Barrier Restraint (VBR-100) is designed to secure a semi-trailer to a loading dock by engaging the trailer's rear impact guard with a solid steel barrier. Engagement range extends from 12" to 30" above the ground. A spring-loaded, structural steel housing automatically positions the unit when contacted by a backing truck. The barrier is activated with the use of an operator control rod.

Operation

After the truck is backed into the dock, the dock attendant reaches down with the operation rod and inserts it into a barrier lifting fork. The attendant raises the barrier to secure the trailer to the dock. When the RIG is secured the inside signal light remains flashing RED and an inside horn begins to pulse, notifying the operator that an unsafe condition may exist. Outside, the signal light transitions from flashing GREEN to Flashing RED, alerting the truck driver not to move. Once the RIG is obstructed by the barrier (and after visual verification) the LOCK button can be pressed. Now the inside signal lights transition from flashing RED to flashing GREEN and the inside horn is silenced. This signals a safe condition for the fork lift operator. Outside, the signal light remains RED warning the truck driver not to move.

Barrier provides a holding force in excess of 32,000 lbs (14,500 kg). Base of barrier maintains constant contact with the rear impact guard and adjusts automatically with trailer float to ensure proper engagement at all times during loading and unloading operation. After servicing is complete, the dock attendant reaches down with the operation rod and pulls the de-latch ring, allowing the barrier to return to the stored position. The attendant then pushes the unlock button, changing the inside lights to RED and the outside lights to GREEN.

Construction

The fully enclosed, welded structural steel housing is constructed is 5/16" steel and is designed to receive the impact of trailers backing into position. The housing protects all components from damage by weather, dirt and debris. The solid steel barrier has a yellow dichromate finish.

Installation

Mechanical Dok-Lok restraint is mounted to a steel plate that is embedded in the dock face or secured by 15 anchor bolts plus 22" of weld to the dock curb angle. Installation does not require modification to the dock leveler. Mounting force is in excess of 100,000 lbs.

Electrical/controls

Mechanical Dok-Lok restraint requires a power source of 120Volts, single phase, 60Hz, and 1 amp of current to operate properly. Ten (10) VBR-100 vehicle restraints can be hooked into one (1) 20amp branch circuit. *Please note: Unless specifically noted on quotation, all electrical, including hook-up, is the responsibility of others.*

Communication system

» **Outside Communication System:** Full-time flashing red or green lights with signs instruct the truck driver when it is safe to back in or pull out. Low-profile light box design helps avoid damage from backing trailers



- » **Inside Communication System:** Full-time flashing red or green lights with signs help the dock attendant know when it is safe to perform loading/unloading operations. The inside lights are in the opposing mode to the outside light monitor
- » **Corner-Vu and Leveler-Vu are standard:** Corner-Vu provides clear, immediate Dok-Lok status to the forklift driver before entering the trailer. Leveler-Vu confirms Dok-Lok status to the forklift driver while inside the trailer

Warranty

One-year parts and labor from date of shipment. All warranties are subject to standard limitation on liability.



Available Features

- Rite-Vu™ Light Communication System
- Corner-Vu
- Leveler-Vu
- LED Light Box with Toggle Switch

Client Info

Company Name _____

Date _____



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