

VBR-300 Dok-Lok® Vehicle Restraint

Dependable Hydraulic Restraint and Communication System.



The Original, Always Improving Trailer Restraint

Rite-Hite® created the restraint industry in 1980 and is trusted by more customers worldwide than any other brand. The VBR Series Dok-Lok® offers dependable rear impact guard (RIG) engagement with a large angled vertical barrier.

Reliable Performance

Optimal in live loading environments, the VBR-300 offers a budget-friendly ANSI MH30.3 standard compliant solution while also helping to address early departure, trailer creep and dock walk.

Positive Engagement Notification

Truck presence bar is depressed upon positive engagement with RIG signaling safe engagement. Exclusive Rite-Hite® magnetic-resistive switch design will not come out of adjustment insuring proper communication whether engaged or disengaged.

Safe, Constant Contact

Continuous upward force maintains engagement as trailer bed height fluctuates during loading and unloading. Automatic re-fire technology if barrier loses contact with RIG.

Rite-Vu™ Hazard Recognition and Communication System

Interior/exterior LED Rite-Vu™ light communication system, includes Approach-Vu™, Pedestrian-Vu™, Corner-Vu™, Leveler-Vu™ and Lok-Vu™. Each component can be ordered with the Lok® or added at any time to optimize loading dock safety.



Truck presence bar



Ground Stored

Industry Leading Warranty

Backed by Rite-Hite's 12-Month Limited Money-Back Guarantee of Customer Satisfaction, standard 1 year parts/1 year labor warranty can be extended to industry-leading 2 year parts/2 year labor warranty.

Smart, Connected Capabilities

Rite-Hite provides Smart, Connected Capabilities as part of the Rite-Hite Extended Warranty. Facilities gain visibility into their Dok-Lok® vehicle restraint's productivity and maintenance, helping to increase safety at an Enterprise scale through the Rite-Hite Digital Platform.

Specifications

General Description

The VBR-300 Dok-Lok® Vehicle Restraint is designed to secure a trailer to a loading dock by engaging the rear impact guard (RIG) with a large, ground-stored vertical barrier. The barrier mechanism is operated from an interior control panel mounted inside the building.

Operation

1. After the truck is backed into the dock, the dock attendant pushes the lock button on the control panel which hydraulically raises the barrier to secure the trailer to the dock. **2.** Outside red communication lights and inside green communication lights signal that the trailer is engaged. The barrier provides a holding force in excess of 32,000 lbs (14,500 kg). **3.** Barrier maintains constant contact with the RIG and adjusts automatically with trailer float motion to ensure proper engagement at all times during loading and unloading operation. **4.** If the hook is pushed down while operating, automatic re-fire technology restores safe and secure engagement. **5.** After servicing is completed, the dock attendant releases the barrier by pressing the unlock button on the control panel. **6.** The light communication system automatically adjusts to the proper operational mode as the barrier stores.

Construction

Exclusive barrier design offers 4.25" (108 mm) high barrier with reverse taper design providing the highest and widest coverage of RIGs. The steel housing protects all components from damage by weather, dirt and debris. The following components are zinc-plated: base housing, mounting plate, covers and hardware. The large steel barrier has a yellow dichromate finish.

Installation

The VBR-300 Dok-Lok® Vehicle Restraint is mounted to a steel plate secured by 8 anchor bolts plus 15" (381 mm) welded to the pit curb angle. Modification of the dock leveler is not required. Mounting force is in excess of 70,000 lbs (31,750 kg).

Electrical/Controls

Mounted in an interlock capable, NEMA 4X, gasketed control panel and enclosure assembly. The control panel is fully operational and contains solid state components. Barrier, sensor and magnetic-resistive switches are enclosed in structural steel housing. Electrical components and wiring are UL listed or recognized. VBR-300 restraints require a power source of: 110-120/1/60 or 208-240/1/50 (Int'l).

Extra length hoses: 10' 20' 30'

- Ship Controls with Restraint:** Existing RH Controls
- Dok-Commander® Ordered Special CB Ordered
- Control Box Shipping Separately
- Keyed Power On/Off Switch** **Power Unit Enclosure**

Warranty

Standard Warranty includes 1 year parts / 1 year labor warranty Rite-Hite Extended Warranty includes 2 year parts / 2 labor warranty and smart, connected capabilities.

Rite-Vu™ Hazard Recognition and Control

Approach-Vu™: Detects a backing trailer on the drive approach and presents a clear visual and audible warning to pedestrians.

- Yes (Shelter Proj. > 36") Yes (Shelter Proj. <= 36")
- Pedestrian-Vu™:** Detects and signals when there is activity inside of the trailer. An audible alarm sounds when an unsecured trailer is entered.
 - Drive-Through RHV Pedestrian-Vu™
- Corner-Vu™:** Provides clear immediate line-of-sight light communication system status to dock personnel before entering the trailer.
- Leveler-Vu™:** Confirms light communication system status to dock personnel while exiting the trailer.
 - Vertical Leveler Leveler-Vu™

Interlock Options

Inside Green Light to Operate Equipment:

- ITL (APB or Comp. LVLR) ITL (EOD) ITL (OHD)
- ITL (RHH/RHJ/H1-3/HV) ITL (RHV41/HDVHL)

Equipment Stored to Unlock Restraint:

- ITL (LVLR STRD/EOD) switch by Rite-Hite®
- ITL (LVLR STRD/PIT) switch by Rite-Hite®
- ITL (LVLR STRD/RHJ5/HJ22/HJ32) switch by RH®
- ITL (OHD STRD) switch by Rite-Hite®
- ITL (LVLR STRD/HDVHL) switch by Rite-Hite®
- ITL (OHD OPPTR/UNLK) switch by others
- ITL (OHD STRD/PHOTOEYE) switch by Rite-Hite®
- ITL (LVLR STRD/RHV41) switch by RH®/New Leveler
- ITL (LVLR STRD/RHV4) Field/Existing Leveler

Dok-Guardian™ Stored to Operate Restraint Engage Dok-Lok®:

- ITC (Mechanical Leveler) ITC (Photoeye)
- ITC (Powered Leveler)

» **Outside Truck Driver Communication System:** Flashing red or green lights and signs indicate when it is safe to back in or pull out. Signs/decals languages:

- French Canadian English (Standard)
- Portuguese Spanish

» **Inside Dock Attendant Communication System:**

Flashing red or green lights indicate when it is safe to perform loading/unloading operations.

» **Audible Alarm:** An inside alarm provides a positive signal and red light when a RIG has not been properly engaged.

» **Audible Alarm Override:** Push-button controls allow personnel to override the audible alarm, causing inside lights to flash red and green in alternating pattern.

- Keyed Horn Override (NEMA 4)

Application Guidelines

All Dok-Lok® orders must include field application survey. Dok-Loks mounted directly to the dock face require a minimum 6" solid concrete wall. Consult Rite-Hite® Applications for additional mounting options.



Milwaukee, Wisconsin, USA

www.ritehite.com

P 414-355-2600 (800-456-0600)

F 414-355-9248

Please note: Unless specifically noted on quotation, all electrical, including hook-up, is the responsibility of others. Rite-Hite®, Dok-Lok®, Dok-Guardian™, Rite-Vu™, Approach-Vu™, Pedestrian-Vu™, Corner-Vu™, Leveler-Vu™ and Lok-Vu™ are trademarks of Rite-Hite Holding Corporation. Rite-Hite products are covered by one or more U.S. patents with other U.S. and foreign patents pending. The information herein is provided as a general reference only regarding the use of the applicable products. The specifications stated here are subject to change. Manufactured by Rite-Hite® Products Corporation