

Vertical Hydraulic Dock Leveler

HYDRAULIC DOCK LEVELERS 11160

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PART 1 – GENERAL

- 1.1 CONDITIONS SPECIFIED ELSEWHERE: Section 010000 - General Requirements.
- 1.2 SUBMIT SHOP DRAWINGS showing pit dimension (length, width and depth) and anchorage of curb angle and embedded plates.
- 1.3 SUBMIT 3 copies of manufacturer's owner's manual and maintenance manual to the A/E.
- 1.4 WARRANTY: Proposals submitted without the following written warranties will be considered non-responsive.
 - 1.4.1 This warranty is based on a standard fork lift truck operating procedure. A standard procedure is; no load shall exceed the rated lift capacity of the truck, and no load shall be pre-staged or stacked and pushed or pulled over the dock leveler into or out of the truck.
 - 1.4.2 Dock leveler manufacturer shall provide with his bid a written 10-year moneyback warranty on dock levelers. Warranty shall be based on the following criteria:

Gross weight of fork lift and load shall not exceed _____ lbs.

User's operation shall not exceed _____ full truckloads per 24-hour period over any one dock position.

Lift truck speed shall be no more than 5 mph. Leveler grade shall be no more than the recommended grade as determined by the material handling equipment manufacturer and never more than 7.17%.

- 1.4.3 Dock leveler parts covered under the warranty shall include:

Lip Assembly	Front Hinge Assembly
Front Hinge and Hinge Pins	Platform Assembly
Rear Hinges and Hinge Pins	Lip Cylinder
Main Lifting Cylinder	Safety Stop Fuse
Hydraulic Hoses and Fittings	Hydraulic Pump and Motor
Subframe Assembly	

- 1.4.4 Dock leveler parts not covered under the warranty include:

Bumpers	Control Box Assembly
Hydraulic Valves (Manifold)	Solenoid Valves

- 1.4.5 All parts not covered under the 10-Year Structural Warranty will have a 5 year parts, 1 year labor warranty.

PART 1 - GENERAL (continued)

- 1.4.6 In addition to all other warranties, the manufacturer shall warrant that the equipment will perform in a manner satisfactory to the Owner for a period of 12 months after date of installation. If Owner is not then satisfied with the performance of the equipment, the Owner may notify the manufacturer, and the manufacturer shall remove the equipment and refund the equipment purchase price to the Owner. This warranty shall be provided by the manufacturer in writing at the time of bid.

PART 2 - PRODUCTS

- 2.1 HYDRAULIC DOCK LEVELERS shall be manufactured by Rite-Hite, or an approved substitute. Dock levelers shall be sized by the manufacturer to meet the warranty requirements specified herein.

NOTE TO SPECIFIER: Size and operating range apply to a typical leveler. Select proper dimensions from manufacturer's literature. Length of leveler specified to be determined by specifier based on range of trucks being serviced and recommended grade as determined by material handling equipment. Grade shall not exceed 7.17%.

- 2.1.1 Vertical hydraulic dock levelers shall be 7' 0" wide by 8' 0" long with a minimum 15" lip extension beyond bumpers, and with operational range of 12" above and below dock level. Equip with 12" high x 4" deep dock bumpers for welding to angles. Bumpers to be tire laminated, not molded. Where yard jockeys are used, steel-faced bumpers shall be used. Tire laminated bumpers shall be installed so that the treads are vertical to building wall.
- 2.1.2 Dock leveler shall meet ANSI MH30.1-2000 test load specifications with proper documentation from a third party.
- 2.1.3 Platform shall have a minimum of (8) interior deck beams plus external working range toeguards with no more than 8" spacing between the beams.
- 2.1.4 Levelers shall be equipped with non-adjustable emergency stop velocity safety system to limit platform freefall in case of a hydraulic component failure.
- 2.1.5 Levelers to have power-up/ power-down feature, allowing operator full control of the leveler at all times.
- 2.1.6 Levelers shall have hydraulic cylinders for both the ramp and the lip.
- 2.1.7 Ramp shall store vertically over center and be held in place hydraulically.
- 2.1.8 Oil reservoir shall be equipped to include sight glass for fluid inspection.
- 2.1.9 Levelers shall have maintenance strut which supports the ramp.

PART 2 - PRODUCTS (continued)

- 2.1.10 Lip keepers shall be included to allow for level end load operation.
- 2.1.11 Levelers shall have ramp flex of 4" to compensate for unlevel trailer beds. Rear hinges shall be fixed and shall not raise above floor level.
- 2.1.12 Positive-acting emergency stop of leveler in any position shall be possible by releasing the "lower" button.
- 2.1.13 Dock leveler control box: All individual components, as well as the complete box unit, shall be UL-approved.
- 2.1.14 Hydraulic fluid shall be biodegradable and have a pour point of -80 degrees below zero.

PART 3 - EXECUTION

- 3.1 INSTALLER shall examine the substrate and conditions under which dock levelers and truck restraints are to be installed and notify the A/E and Contractor in writing of any conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until satisfactory conditions have been corrected in a manner acceptable to the installer.
- 3.2 DOCK LEVELER MANUFACTURER'S REPRESENTATIVE shall install dock levelers in accordance with approved shop drawings and manufacturer's recommendations. Location of dock levelers shall be indicated on drawings.
- 3.3 SHIM DOCK LEVELERS as necessary; weld into pit.
- 3.4 ADJUST UNITS to operate smoothly.
- 3.5 AFTER INSTALLATION is completed, a representative of the manufacturer shall examine the installation and require that all connections and adjustments necessary to assure proper operation of dock levelers be made. Before acceptance, a demonstration shall be conducted in the presence of the Owner's representative that all levelers operate properly in every respect. In addition, a detailed user/operator training session shall be conducted at time and place agreed upon by owner's representative and manufacturer's representative.