



Nordock FLEX-LIP® Series Model SHF

Hydraulic Powered Docklevelers With Automatic Adjusting Lip

Available Capacities: 25,000 to 50,000 (5,000 lb. Increments)
Available Widths: 6', 6'6" & 7'
Available Lengths (Nominal): 6', 8' & 10'

SECTION 11161
DOCKLEVELERS

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. Factory assembled dockleveler with subframe, adjustable crossover lip, hydraulic activators, electric controls, and full operating side guards.
- B. Curb angles or pour-in-pan assembly.
- C. Installation and Owner's Manual.

1.02 RELATED WORK

- A. Section 11160 - Truck Restraints.
- B. Section 11164 - Seals and Shelters.
- C. Section 11165 - Dock Bumpers.

1.03 REFERENCES

- A. ANSI/ASME MH 14.1 1987, "Loading Dock Levelers and Dockboards."

1.04 SYSTEM DESCRIPTION

- A. Hinged adjustable lip, hydraulic, recessed dockleveler to the following requirements:
 - 1. Nominal Size: () wide x () long.
 - 2. Capacity: () lbs. per ANSI/ASME MH 14.1 1987.
 - 3. Service Range: Twelve inches above dock level and twelve inches below dock level.
 - 4. Velocity Fuse: Deck lock integral with lift cylinder to activate if truck fails to support lip under load.
 - 5. Lip projection: 11 inches beyond front face of standard 4" bumpers with a 16" long lip.

1.05 SUBMITTALS

- A. Submit Manufacturer's installation instructions.
- B. Submit shop drawings showing pit dimensions, conduit positions and wiring schematics.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. FLEX-LIP® Series - Model SHF (_____) hydraulic powered dock leveler as manufactured by Nordock Inc.

2.02 EQUIPMENT

- A. Curb angles (Optional): 8-piece 3 x 3 x 1/4 inch angle iron with concrete anchors to cover all pit edges.
- B. Pour-In-Pan (Optional): 6-piece angle iron frame with concrete anchors and fully enclosed steel pan on sides, back and bottom. Dockleveler to be pre-installed in pan with rear conduit for wiring connections.
- C. Dockleveler:
 - 1. Ramp: 50-55,000 psi-yield steel tread plate, reinforced with 50,000 psi-yield steel beams. Beams to be formed channel type 6" high with 2" top and bottom flanges for additional plate support. Unitized welded ramp to allow side-to-side tilt to follow uneven truck beds. Rear hinge to run full width of deck. Lip hinge lugs and header plate to beam connections to be continuously welded. Front and rear hinge rods to be zinc plated SAE 1045 factory coated with anti-seize lubricant. Side guards to be welded to deck with hinged telescoping sections to provide full operating protection. Ramp to have center deck beam for additional plate support.
 - 2. Lip: Angle of lip relative to the ramp shall automatically adjust to maintain a horizontal position on truck bed in all ramp positions while loading. Fixed crown angle lips are unacceptable. Lip to extend automatically as deck descends and release on truck bed or at full below travel. 55,000-psi yield tread plate and 50,000-psi lugs with lugs continuously welded to lip plate. Plate to be full width of deck, non-tapered with leading edge chamfer to be milled at maximum 15 degrees. Hinge rod shall be constructed from superior shaft coated with corrosion resistant zinc.
 - 3. Subframe: Welded assembly to have a rear structural angle welded to hinge tubes and six solid steel rear supports connected to the longitudinal members. Front center section to be open for easy pit cleaning. Lip supports to act as locks to prevent illegal entry to the building when the door is closed. Continuous fixed rear hinge assembly with full width hinge rod constructed from superior shaft coated with corrosion resistant zinc.
 - 4. Hydraulic System: Ramp and lip to be powered by regenerative hydraulic cylinders with hard chrome plated and polished rod, guide bearings, and high-pressure seals. Ramp cylinder housing to be connected to deck with rod extending downward to prevent debris from collecting and allow self-bleeding. Ramp cylinder equipped with velocity fuse to stop downward deck movement within 3 inches if support is removed under load. Integral

power unit with filters, valves, pump and oil reservoir as required. Hoses to be SAE 100R2 high-pressure with factory crimped fittings.

5. Motor and Controls: Hydraulic pump powered by 1 HP totally enclosed non-ventilated type motor. Control box to have NEMA 12 dust tight enclosure containing motor starter and single push-button. Control panel to be UL/CSA approved.
6. Finish: All surfaces to be degreased and painted with high solid machinery enamel. Provide standard manufacturer's color.

PART 3 EXECUTION

3.01 PREPARATION

- A. Provide curb angles for setting pit edges. (Optional)
- B. Provide dock leveler in pour-in-pan for setting in place. (Optional)

3.02 INSTALLATION

- A. Install in prepared pit in accordance with manufacturer's instructions.
- B. Adjust installed unit for operation as specified by Manufacturer.



Dedicated People ~ Superior Products
Nordock Inc.