Architectural Specification

Nordock SUPER-DUTY™ Series – Model SD Hydraulic Docklevelers

Available Capacities: 60, 80, 100, 120 & 150,000 lbs.
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, 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 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(s) 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. SUPER-DUTY™ Series - Model NH (_____) 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 6” high structural I beams with a minimum 4” wide flange for maximum 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.

2. Lip: 50-55,000-psi yield tread plate and lugs. Lugs to be 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.

3. Subframe: Welded assembly to have a rear structural angle welded to hinge tubes and seven 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.

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. 80,000 and higher capacity models to have dual ramp cylinders. Ramp cylinder housing to be connected to deck with rod extending downward to prevent debris from collecting and allow self-bleeding. Ramp cylinder(s) 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 1/2 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.