



Architectural Specification

Nordock POSI-CHOCK™ Series – Model PC-6000 Automatic Vehicle Restraint

VEHICLE RESTRAINTS DIVISION 11160

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. Factory assembled vehicle restraint
- B. Control panel and communication system.
- C. Power unit, hoses & fittings.
- D. Installation and Owner's Manual.

1.02 RELATED WORK

- A. Section 11160 – Dock Levelers
- B. Section 11164 - Seals and Shelters.
- E. Section 11165 - Dock Bumpers.

1.03 SYSTEM DESCRIPTION

- A. Vehicle restraint provided to the following requirements:
 - 1. Restraint shall engage and restrain standard highway trailers.
 - 2. Standard engagement range to be 44" to 200" from the face of the dock bumper to engagement of the trailer tire.
 - 2. Communication system shall have red and green LED lights and instruction signs inside and outside.
 - 3. Control system to include a programmable logic controller.
 - 4. Restraint shall maintain engagement during loading.
 - 5. Activation shall be with push button controls for engage and disengage functions.
 - 6. Restraint shall be stored below grade for unobstructed driveway surface and positioning of trailer.
 - 7. Restraint shall monitor an abnormal condition and sound an alarm if proper engagement is not detected. An override shall silence alarm with red lights inside and outside until disengagement resets the system.

1.05 SUBMITTALS

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

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. POSI-CHOCK™ Series - Model PC-6000 as manufactured by Nordock Inc.

2.02 EQUIPMENT

- A. Vehicle Restraint:

1. Cast in Housing: Constructed of 3/16" welded steel structure with 3/8" guide track.
2. Chock: Large welded steel chock with engagement radius to suit trailer tires.
3. Actuator: Hydraulic cylinder to be double acting to secure and maintain contact trailer tire during all loading and unloading operations.
4. Inside Communication System: Either an LED Green light to indicate when vehicle is restrained or an LED Red light to indicate that vehicle is not restrained or when restraint is stored. Audible alarm indicates a fault condition or a malfunction has occurred. Bypass selection by attendant silences alarm and illuminates alternating Red and Green lights indicating that the vehicle is not restrained and in manual bypass mode. Include label to instruct dock attendant.
5. Outside Communication System: LED Red light to indicate when vehicle is restrained or in bypass mode. Green light to indicate restraint is stored in below grade for an unobstructed clear path for a vehicle to enter or leave the dock. Include forward and reverse lettered sign to instruct Truck Driver.
6. Controls: Solid-state logic controller with indicator lights. All controls to be in a NEMA 12 Dust Tight Enclosure. Power source requirement is 208/230/460/575 3 phase.
7. Finish: All structural steel components to be cleaned, primed and finish painted with safety yellow machine enamel.

B. Options:

1. Dock leveler stored interlock to disallow restraint storage until leveler is removed from truck.
2. Heat tracing and thermostat for northern climates.
3. Wheel guides to help position trailer.
4. Spray galvanized finish.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Inspect site conditions and report anything detrimental to the proper installation and performance of vehicle restraint. Do not proceed until unsatisfactory conditions have been corrected.
- B. Manufacturer's representative shall install vehicle restraint in accordance with manufacturer's instructions and recommendations.
- C. Adjust installed unit for operation as specified by manufacturer.
- D. Manufacturer's representative to examine finished installation to ensure proper operation and demonstrate proper use of the restraint to the owner.



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