



## 1. Product Name

■ PFlow D Series Hydraulic Vertical Lift

## 2. Manufacturer

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## 3. Product Description

PFlow Industries, Inc. has been an industry-leading provider of custom engineered vertical reciprocating conveyors (VRCs) for nearly 40 years. Today, with more than 17,000 vertical lifts sold worldwide, PFlow Industries offers a full line of custom engineered hydraulic, mechanical and fully automated VRC systems.

### Basic Use

PFlow D Series Hydraulic Vertical Lift is a high quality, cost saving vertical reciprocating conveyor that moves materials between levels — without the use of cables, chains or bearings. Manufactured to ANSI/ASME B20.1 safety standards, PFlow D Series is capable of vertical rise heights to 15' and load capacities to 4000 lbs.

PFlow D Series Hydraulic Vertical Lift can be installed within through-floor and empty elevator shafts and is easily configured for load and unload from any one of the three operating sides. It is ideal for self-storage facilities, mezzanine and balcony applications.

### Materials, Composition

Each PFlow D Series Hydraulic Vertical Lift has guide columns, a moving cantilever-style carriage, hydraulic motor/pump unit and hydraulic actuating mechanism. Both levels of the lift have an NEMA 12-compliant control station, permitting full call-and-send control from either level.

Guide columns are 6" wide flange sections, with two vertical columns and cross members at the top, middle and bottom — all pre-welded at the factory. The carriage is fabricated of 4" or 6" structural members with a steel deck plate.



Additional deck surfaces are available.

Cylinders, actuated by a remote mounted hydraulic pump, lift and lower the carriage. Transmission of the lifting force is direct from the base of the guide columns to the carriage using a Dual-Pak Ram.

Principal components are guide columns, carriage and hydraulic actuating mechanism

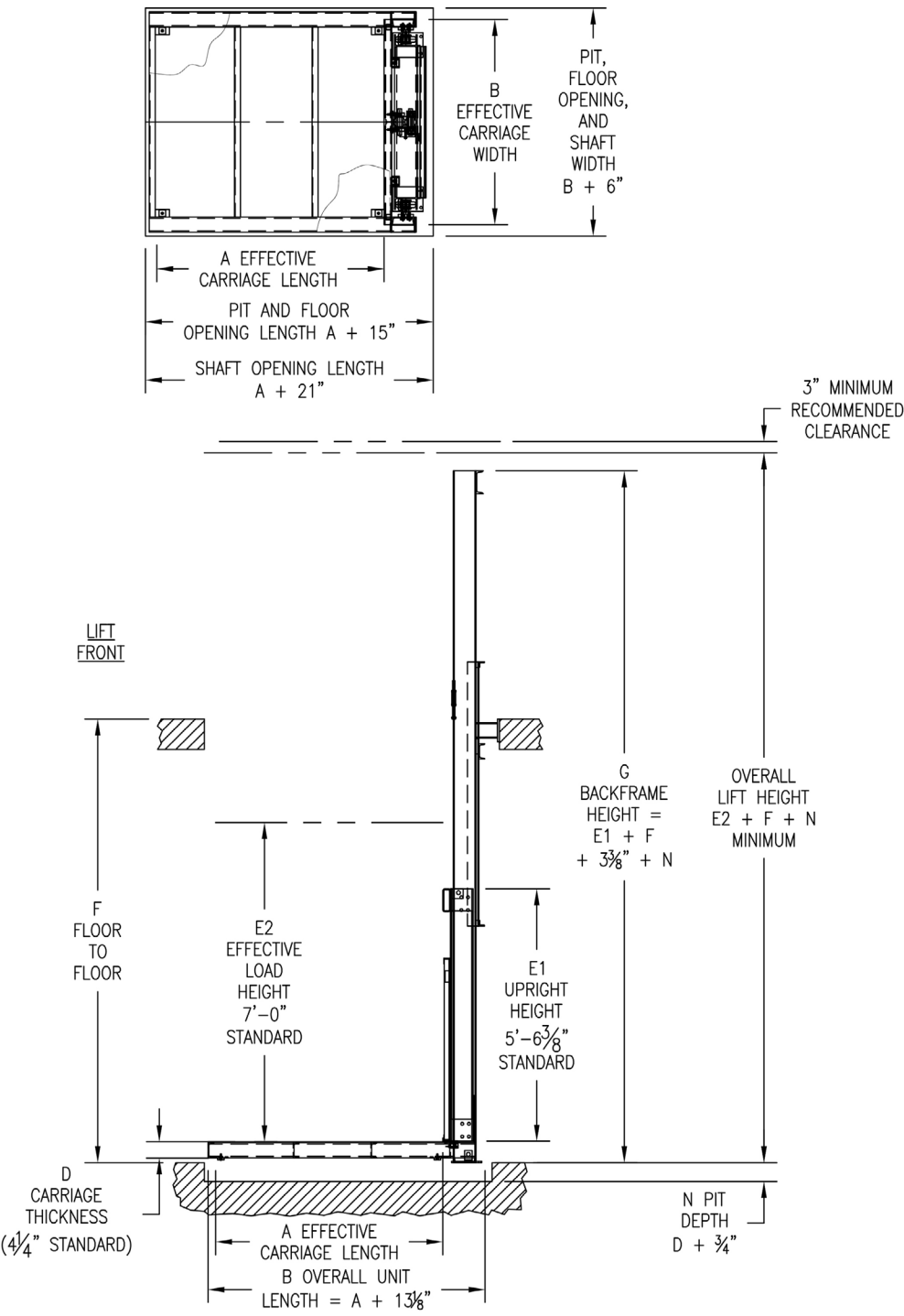
### Colors, Sizes

PFlow D Series is custom engineered to specific application and height requirements.

### Benefits

- Safely moves material from one level to another
- Pre-wired lift motor pump and controls simplify installation
- Electrical components comply with NEC requirements

PFlow Industries, Inc.



**Table 1 – Physical Properties**

Platform size	Unrestricted
Maximum capacity	4000 lbs
Carriage size	6' x 6' maximum
Maximum vertical rise	15'
Levels	2
Travel speed	17 fpm (special order to 25 fpm)
Power requirement	208V/230V/460V, 3-phase (single phase is optional)
Control voltage	24V
Maximum cycles	10 per hour

- Conforms to ANSI/ASME B20.1

### Limitations

PFlow D Series is designed for the movement of materials only and should not be used as an elevator. The rated capacity must not be exceeded.

### Accessories, Options

- Explosion proof
- Carriage gates
- Custom paint colors

### Applicable Standards

#### American National Standards Institute (ANSI)

ANSI B20.1 Safety Code for Conveyors, Cableways, and Related Equipment

#### National Electrical Manufacturer's Association (NEMA)

NEMA 12 Enclosures

#### National Electrical Code® (NEC)

NFPA 70 National Electrical Code

### Physical Properties

See Table 1.

## 5. Installation

### Preparatory Work

Perform all necessary site work, such as pit, floor opening, adequate bracing locations and shaftway openings. Ensure the site or building area has sufficient clearance to move the equipment into the storage and installation areas.

Transport products in manufacturer's original, unopened,

undamaged containers with identification labels intact.

A fork truck with a minimum 2000 lb capacity is required. Inspect upon delivery.

### Weather/Ambient Conditions

The PFlow D Series accommodates most weather conditions, and materials can be customized for climate need. Epoxy coating and galvanizing is available.

### Methods

Install in compliance with the manufacturer's D Series Installation Manual.

### Building Codes

Ensure installation complies with the requirements of all applicable local, state and federal code jurisdictions.

## 6. Availability and Cost

PFlow Industries offers a full line of VRCs, including the D Series Hydraulic Vertical Lift, throughout the U.S. and internationally. Contact PFlow Industries for pricing information and availability in specific areas.

## 7. Warranty

Used and installed as directed, PFlow Industries warrants the D Series Hydraulic Vertical Lift, beginning 30 days after shipment. PFlow components have a one-year warranty on parts and labor. Purchased components have a one-year parts warranty and a 90-day labor warranty.

## 8. Maintenance

To ensure system safety, the PFlow D Series Hydraulic Vertical Lift requires consistent minimal and basic attention. Standard preventative maintenance is within the capabilities of a plant maintenance person. See the maintenance and owner's manual for maintenance schedule details.

## 9. Technical Services

Technical assistance, including detailed information, product literature, test results, project lists, assistance in preparing project specification or installation supervision is offered by the manufacturer. For questions about specifications, code regulations, product usage or product installation, contact PFlow Industries, Inc.

## 10. Filing Systems

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- Additional product information is available from the manufacturer upon request ↗