



**Series D Mezzanine Lift**  
(Shown without upper-level safety gates)

*As an option, the Pflow Series D Lift can be shipped as a self-contained unit equipped to service in-plant mezzanines. The Pflow Series D Mezzanine Lift is pre-assembled and shipped with lower-level enclosures and code-approved safety gates. The lift motor pump and controls are pre-wired for fast, easy, one-day installation.*



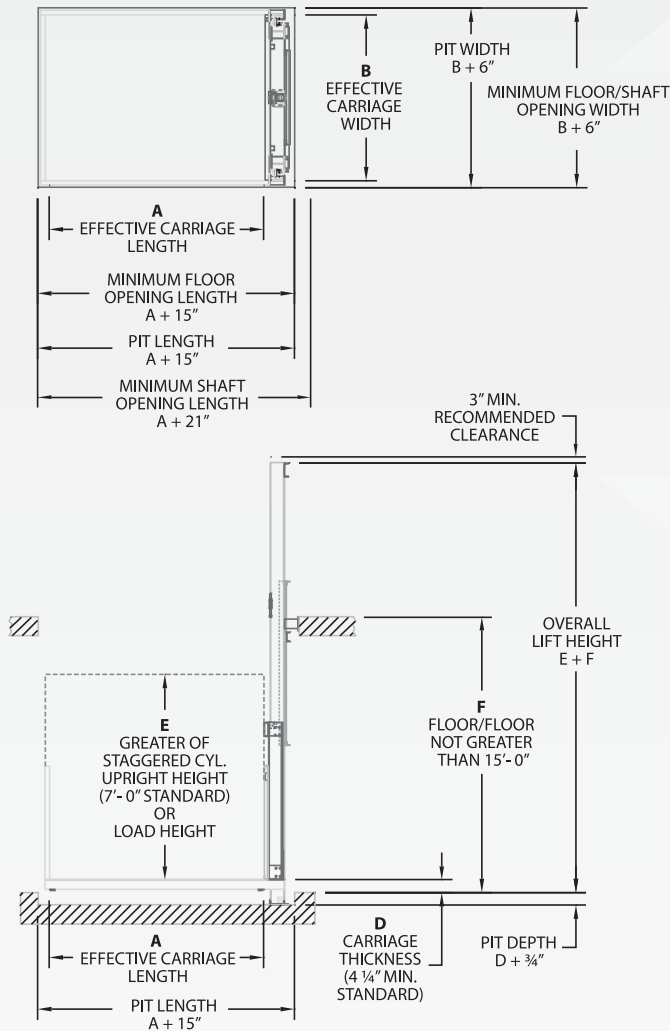
**SERIES D LIFT OFFERS HIGH QUALITY, SAFETY, AND LOW MAINTENANCE. ALSO FEATURES EXCLUSIVE DUAL-PAK DESIGN.**

- Guided Dual-Pak design has no cables, chains, bearings or other components that can break or require lubrication.
- Carriage is lifted and lowered by dual 2" ram direct-acting hydraulic cylinders.
- Lifts loads up to 3,000 lbs. Carriage sizes to 6' x 6'. Vertical rise heights to 15'. Ideal for mezzanine and balcony applications.
- Pressure-compensated control valve regulates flow of hydraulic oil to ensure smooth, constant lowering speed under any load.
- Ultra-high, molecular weight, polyethylene cylinder guide prevents cylinders from twisting during operation—improving cylinder life.
- Pressure switch prevents the carriage from drifting or sinking to ensure smoother, safer loading and unloading operations.
- Quick-connect cabling for push-button stations and gate interlocks is an available option which significantly reduces field-wiring costs. (Check local codes for conformity.)
- Remote mounted control panel and motor are pre-wired and ready for immediate installation.
- Durable, high-quality construction ensures safe, reliable, long-term performance.
- Meets ANSI/ASME B20.1 code.

For immediate answers to your application questions, Call Pflow at 414-352-9000, or visit: [www.pflow.com](http://www.pflow.com)

# SERIES D

## DIMENSIONS & DATA



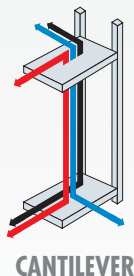
- A. Effective Carriage Length
- B. Effective Carriage Width
- D. Carriage Thickness
- E. Upright Height or Load Height
- F. Vertical Rise

**Note:** The dimensions shown are illustrative. Request a job-specific drawing before making any building modifications.

### SERIES D HYDRAULIC LIFT LOADING/UNLOADING PATTERNS:

- C-Pattern
- Z-Pattern
- 90°-Pattern

**Note:** All Patterns Are Reversible.



## SPECIFICATIONS

### GENERAL

Pflow Series D Vertical Lifts move materials between two levels. Principal components are guide columns, carriage and hydraulic actuating mechanism.

### APPLICATION DATA

Pflow Series D Vertical Lifts are available with: Lifting capacities up to 3,000 lbs.; carriage sizes to 6' x 6'; vertical rise to 15'. Standard travel speed is 17 fpm. Speeds to 25 fpm are available on special order.

### STRUCTURE

Guide columns are 6" wide flange sections. Carriage is fabricated of 4" or 6" structural members with steel deck plate. Other deck surfaces can be supplied. Carriage is cantilever style and may be loaded from any one of three operating sides depending on application.

### OPERATION

Carriage is lifted and lowered by direct-acting hydraulic cylinders. Cylinders are actuated by a remote mounted hydraulic pump. Transmission of the lifting force is direct from the base of the columns to the carriage using a Dual-Pak ram.

### ELECTRICAL

Standard power requirements are 208V/230V/460V, 3-phase. Single-phase is an available option. Control voltage is 24V. Control stations and remote mounted control panel are NEMA 12. Control stations, provided for each level, include self-maintaining push buttons with mushroom-head E-Stop button. Quick-connect cabling is available as an option.

### SAFETY FEATURES

Upward travel of the carriage is limited by positive mechanical stops that ensure positive leveling with the upper deck. Redundant overload protection is provided to positively prevent raising of the carriage if loaded to more than 120% of rated capacity. Velocity fuses prevent uncontrolled descent in case of hydraulic hose rupture. NO RIDER signs are posted at each point of operation.

### CARRIAGE SIDE GUARDS

Carriage is equipped with safety rails on non-operating sides and safety chains or diagonal drop bars on operating ends. Optional expanded metal or sheet metal carriage side guards are available.

### SAFETY ENCLOSURES

Safety codes (ANSI/ASME B20.1) require gates and enclosures on all sides of the lift. Enclosures must be a minimum of 8' high and reject a ball 2" in diameter. Pflow manufactures gates and enclosures with 1/2" expanded metal in a structural angle frame. Gates are accessible during loading/unloading and are electrically and mechanically interlocked with carriage movement. Interlocks prevent gates from being opened unless the carriage is at the designated level and also prevent carriage movement if any gates are not fully closed and locked.



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Pflow is a member of MHIA, CEMA, NAEC, and MHEDA.