

# PFlow

Industries, Inc.

## D SERIES | HYDRAULIC LIFT

High quality design with low maintenance - ideal for mezzanine and balcony applications.

- ↓↑ Lifts loads up to 4,000 lbs. Carriage sizes up to 6' x 6'. Vertical rise to 15'. Standard travel speed is 17 FPM (up to 25 FPM available).
- ↓↑ Carriage is lifted and lowered by dual 2" direct-acting hydraulic cylinders mounted between 6" guide columns.
- ↓↑ Guided Dual-Pak design is direct action and has no cables, chains, bearings or other components that can break or require lubrication for a long-term performance.
- ↓↑ Pressure switch prevents the carriage from drifting or sinking to ensure smoother, safer loading and unloading operations. Velocity fuses prevent uncontrolled descent in the event of hose rupture. Pressure-compensated control valve regulates flow of hydraulic oil to ensure smooth, constant lowering speed under any load.
- ↓↑ Quick-connect cabling for push-button stations and gate interlocks are available, but not standard. This significantly reduces field-wiring costs.
- ↓↑ Remote mounted control panel and motor are pre-wired and ready for immediate installation.
- ↓↑ Ultra-high molecular weight, polyethylene cylinder guide prevents cylinders from twisting during operation - improving cylinder life.
- ↓↑ Suitable for indoor or outdoor use. Optional hot-dipped galvanized or epoxy finish; available for outdoor, chemical, caustic wash-down, or explosion proof environments
- ↓↑ Conforms to ASME B20.1 Safety Standards.



**Optional Design:** Can be shipped as a modular, self-contained unit equipped to service in-plant mezzanines. The lift is pre-assembled and shipped with enclosures and code-approved safety gates. The lift motor pump and controls are pre-wired for fast, easy installation.

**GENERAL**

The D Series moves materials between two levels. Principal components are guide columns, carriage and hydraulic actuating mechanism.

**APPLICATION DATA**

Lifts loads up to 4,000 lbs. Carriage sizes up to 6' x 6'. Vertical rise to 15'. Standard travel speed is 17 FPM (up to 25 FPM available).

**STRUCTURE**

Guide columns are 6" wide flange sections. Carriage is fabricated of heavy-duty 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 guide columns to the carriage using a Dual-Pak ram.

**ELECTRICAL**

Standard power requirements are 208/230/460VAC, 3-phase (single-phase available). Control voltage is 24VAC. Push button stations are NEMA 12 rated. Pump mounted, pre-wired control panel is NEMA 12 rated. Push button stations are provided for each level and include call/send operators and a mushroom-head emergency stop. Quick connect pre-wiring is available (optional).

**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 / GATES**

Safety codes (ASME B20.1) require interlocked gates and enclosures on all sides of the lift. Enclosures must be a minimum of 8' high and reject a ball 2" in diameter.

