

NIAGARA BELCO

North America's Lift & Door Solution

Product Specifications

General

Capacity:	750 and 1000 lb capacities available as standard
Speed:	30 fpm (50fpm maximum)
Pump:	Vane type hydraulic pump design
Control:	Non-proprietary control system
Stops:	2-5 levels served
Power:	115 -220V/1ph or 208-600V/3ph pump unit power supply 115V/1ph car lighting power supply
Operation:	Constant pressure floor selective operation (automatic operation available)
Travel:	7m maximum (longer travel available subject to local code requirements)
Platform:	38" x 60" nominal based on standard designs 1-4 (custom platform configurations and sizes available)
Entrances:	36" x 80" nominal entrance dimensions (custom designs and sizes readily available)
Cab:	Full platform enclosure with solid ceiling and recessed lighting
Pit Depth:	12" (305mm) standard; 10" min. (254mm)
Overhead:	100" (2540mm) standard; 96" min. (2440mm)

System Control

*The Victorian residential lift comes supplied with a CSA certified, fully code compliant **non-proprietary** control system featuring:*

- Relay logic fully field serviceable design
- Switch and cam hoistway signaling devices
- Fully code compliant for all jurisdictions in North America
- Automatic two way leveling
- Integral self monitoring emergency power device
- Enclosure is supplied as an independent fixture for remote installation
- Complete with all wiring design documents including component list for service reference
- Custom designed for each application

Options

- 2-5 landings served
- Auto door operation
- Automatic operation (with light curtain or car gate option)

Landing Entrances - Doors

Standard 36" x 80" RES-750 or HL-600 series entrance units supplied fully assembled, pre-adjusted and installation ready. All assemblies are 1 1/2 hr fire rated and fully certified as code compliant for all applications in all jurisdictions throughout North America. Standard features and hardware included in the door/frame assembly as follows:

- 2 speed adjustable hydraulic door closer.
- 4 1/2" X 4" heavy duty ball bearing hinges.
- 16 gauge zinc wipe (galvaneal) frame construction; paint ready.
- 18 gauge zinc wipe (galvaneal) door construction; paint ready.
- CSA/UL listed GAL certified interlock; concealed installation in frame assembly
- 8" aluminum **rivet mounted** kick plate at base of door
- 2" x 6", 10 gauge (1/8th") checker plate steel welded landing sill. Pre-drilled for fasteners (supplied).
- Latch-set c/w with NBL Flushcup lever handle
- Mortar guards included at various locations around frame to protect components from damage during hoistway construction.
- Welded steel frame reinforcements in frame perimeter.
- Key operated hall operating assembly complete with mushroom type pushbutton and 'in use' indicator.

Options

- Concealed door closer
- Power door operator
- Oversize door assembly up to 48" x 96" (fire rated)
- Custom assembly finishes featuring
 - Stainless steel - satin or polished
 - Solid core wooden door
- Embossed door face profile (six panel door)
- Custom vision panel designs
- Weather seal kit for exterior doors including styrene insulated doors
- RES-300 series door assembly (available only with car gate or light curtain option)

Hydraulic Drive Unit

High efficiency, continuous duty rated hydraulic drive unit is supplied fully assembled and pre-wired for ease of installation.

Features

- Industrial rated 2HP motor (208/460/575VAC-3 Phase or 110/220VAC-1 Phase).
- Blain KV-1 valve featuring
 - Bypass control for smooth start up
 - Down speed control
 - Manual lowering valve for emergency lowering
 - Pressure relief valve to prevent overloading
 - Integral check valve capable of supporting the car with 125% of rated load
- Vane type pump for ultra quiet operation
- Ball type valve
- High capacity tank for extended fluid life featuring
 - Fluid level sight gauge
 - Low oil level switch to prevent operation when there is insufficient fluid in the reservoir.
 - Fluid filter

Options

- Pump unit steel enclosure cabinet.
- 3 - 5 HP motor
- Two speed EV-100 valve

Jack Assembly

A high pressure steel pipe cylinder, true machined packing head and a polished micro finish steel piston fitted with a welded steel stop ring designed to positively prevent the piston from leaving the cylinder.

Features

- 2 3/4" Cylinder complete with 'v' packing and oil recovery system
- High pressure flexible hydraulic supply line
- An adjustable flow control valve is supplied complete with means for affixing a seal to prevent unauthorized adjustment.

The 1:2 roped type design incorporates a rail guided sheave assembly affixed to the top of the piston featuring:

- 3/8" plate steel construction
- Polished 'U' groove sheave complete with sealed precision bearings
- Two 3/8" aircraft grade suspension cables utilizing wedge type shackles

Hoistway Equipment

- 8lb guide rails
- Welded steel guide rail brackets c/w mounting hardware
- Mechanical rail mounted stops < 2" above uppermost landing
- Maintenance block capable of sustaining the car with 125% of rated load
- Pit stop switch

Car sling and platform construction

- Sling provided as welded modular design featuring:
 - Formed 1/4" steel channel construction
 - Type 'A' instantaneous safety device
 - Upper and lower metal guide shoes w/nylon inserts
- Platform provided as welded assembly featuring:
 - 1.50" x 1.50" steel tube and angle iron sub-frame construction
 - .125" plate steel sub-floor
 - 6" steel platform apron (toe guard)

Car Enclosure

The platform is supplied with a full enclosure on all non-entrance sides to a minimum height of 80" (2032mm) and comes standard with solid panel ceiling. All cabs are fully assembled during production.

Features

- Welded tube steel sub-frame utilizing an all bolted cab assembly system
- 1/2" (13mm) melamine panels
- Formed stainless steel entrance trim
- Stainless steel handrail
- Heavy duty non-skid rubber flooring
- Recessed overhead lighting
- Automatically activated emergency lighting

Options

- Stainless Steel Trim Package
- Brass Trim Package
- Custom Finish Interiors

In-car Operating Devices

The in-car operating control panel is designed and conveniently located for ease of operation whether standing or sitting. The factory pre-wired panel consists of floor designated pushbuttons, key switch, light switch and an emergency stop/alarm button. The buttons are 'mushroom head' type and suitably marked as to their function. The key switch is an on-off type and must be in the 'on' position to operate the lift. The buttons are mounted on a 1/8", 10 gauge (3mm) stainless steel plate. The in-car operation is designed to give preference to the passenger in the lift; however, the control is designed so as to enable the lift to continue to operate should the in-car key be inadvertently left in the switch in the 'on' position.

Options

- Key pad operation
- Low profile push buttons
- Flush-mount push buttons
- Brass car station
- Commercial type key switch (key non-removable in the 'on' position)

Landing Operating Devices

The hall or landing operating control devices are pre-assembled and designed to mount directly into the door frame as supplied or mounted remotely. Each control device is mounted on a stainless steel plate and includes a 'mushroom head' push button, key switch and an in use indicator light.

Options

- Key pad operation
- Low profile push buttons
- Flush-mount push buttons
- Brass hall station
- Commercial type key switch (key non-removable in the 'on' position)

Signage

All code related signage is provided including operating instructions, emergency operating instructions, caution signs and equipment specification information.