

### Pit Equipment / Related Components



Whether you are replacing an existing jack unit or supplying new, Custom Elevator offers a full line of new pit equipment including pit channels, spring buffers, platen plates, shut off valves and pipe rupture valves. From standard assemblies, to customized to suit job conditions, we can offer you a complete elevator pit package.



### Standard Jack Specifications

Model	Nominal Piston Diameter	Piston Wall	Cylinder Diameter	Cylinder Wall Thickness	Cylinder Coupling Diameter	PVC O.D.	PVC Wall Thickness	PVC Coupling Diameter	Oil Inlet
CIK-4	4"	.250	6 5/8"	.280	7 1/2"	8 5/8" O.D. (8" Nominal I.D.)	.322	N/A	2" or 2 1/2" x 3" lg. Male
		.375							
		.500							
CIK-4.5	4 1/2"	.250	8 5/8"	.322	9 1/2"	10 1/2" O.D. (10" Nominal I.D.)	.365	N/A	Threaded or VIC
		.375							
		.500							
CIK-5	5"	.250	8 5/8"	.322	9 1/2"	10 1/2" O.D. (10" Nominal I.D.)	.365	N/A	Threaded or VIC
		.375							
		.500							
CIK-5.5	5 1/2"	.250	8 5/8"	.322	9 1/2"	10 1/2" O.D. (10" Nominal I.D.)	.365	N/A	Threaded or VIC
		.375							
		.500							
CIK-6	6"	.250	8 5/8" or 10 1/4"	.322 or .365	11 1/2"	12 1/2" O.D. (12" Nominal I.D.)	.406	N/A	Threaded or VIC
		.375							
		.500							
CIK-6.5	6 1/2"	.250	8 5/8" or 10 1/4"	.322 or .365	11 1/2"	12 1/2" O.D. (12" Nominal I.D.)	.406	N/A	Threaded or VIC
		.375							
		.500							
CIK-7	7"	.250	10 1/4"	.365	11 1/2"	12 1/2" O.D. (12" Nominal I.D.)	.406	N/A	Threaded or VIC
		.375							
		.500							
CIK-7.5	7 1/2"	.250	10 1/4"	.365	11 1/2"	12 1/2" O.D. (12" Nominal I.D.)	.406	N/A	Threaded or VIC
		.375							
		.500							
CIK-8	8"	.250	10 1/4"	.365	11 1/2"	12 1/2" O.D. (12" Nominal I.D.)	.406	N/A	Threaded or VIC
		.375							
		.500							
CIK-8	8"	.625	10 1/4"	.365	11 1/2"	12 1/2" O.D. (12" Nominal I.D.)	.406	N/A	Threaded or VIC
		.375							
		.500							

**Custom  
ELEVATOR**  
manufacturing  
company, inc.

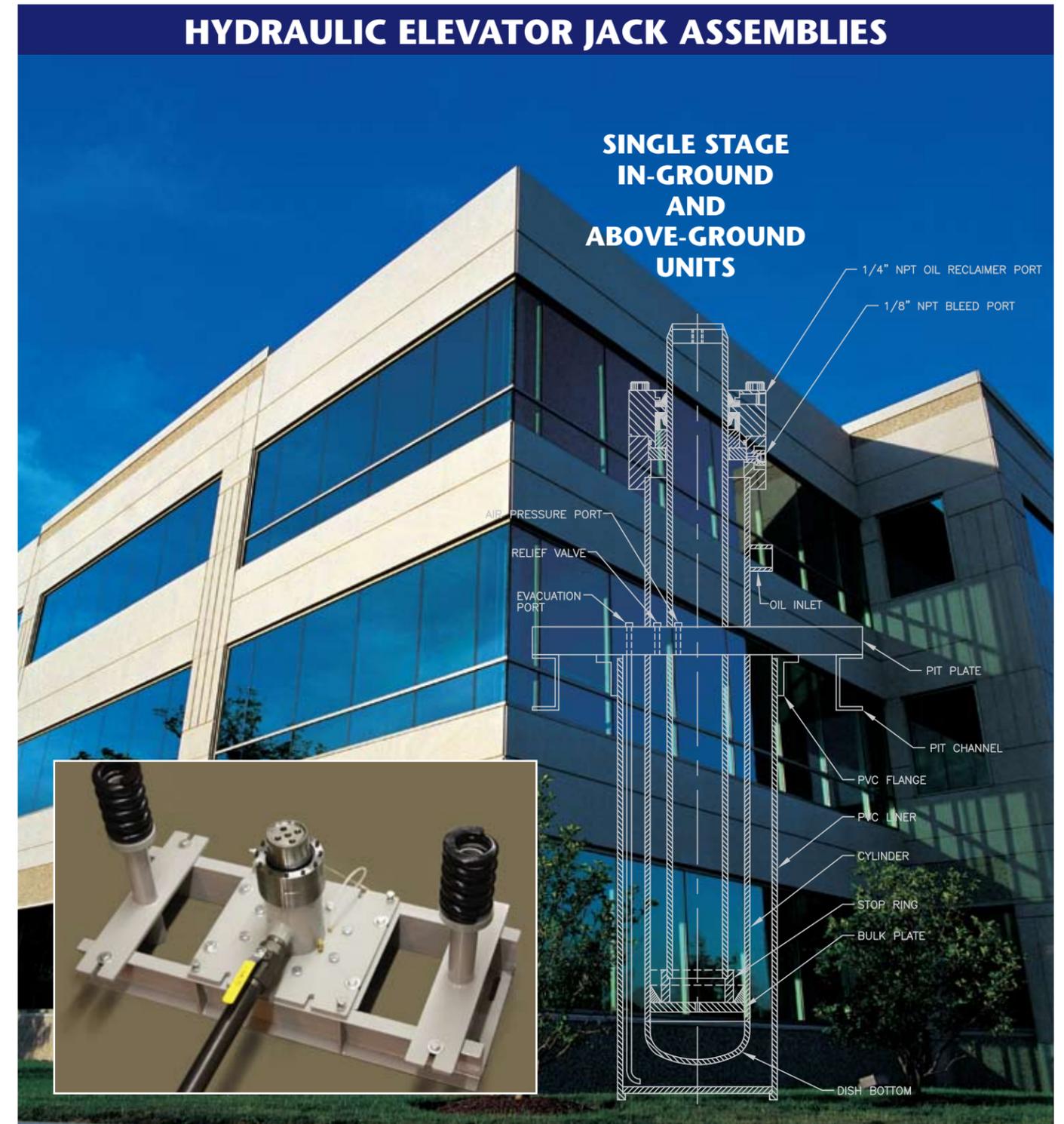
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WWW.CUSTOMELEVATORINC.COM

**Custom  
ELEVATOR**

## HYDRAULIC ELEVATOR JACK ASSEMBLIES

### SINGLE STAGE IN-GROUND AND ABOVE-GROUND UNITS



...NEW EQUIPMENT...REPLACEMENT JACKS  
**THE MODERNIZATION EXPERTS**

## About Us

The partners of this family-owned business are recognized throughout the industry for their commitment to supplying the highest quality products available with optimum reliability. The founders of Custom Elevator Manufacturing Company were responsible for designing, manufacturing and marketing over 12,000 pistons and cylinders annually for several major elevator suppliers.

Our facility, located just 40 miles north of Philadelphia, PA, has evolved over the years to meet our customers ever-increasing market demands. All of our administrative and manufacturing operations are consolidated into a modern 68,000 sq. ft. facility located in Plumsteadville, PA.



## General

Custom Elevator can manufacture jack assemblies to your specifications, or we can engineer a unit from your field survey that best suits job conditions. We utilize (2) center-less piston grinders and state of the art CNC machine technology to assure consistent quality parts within allowable tolerance every time.



## Inventory

Understanding the demand for short lead-times on replacement jacks, Custom Elevator maintains a large inventory of common size components which enables us to cut our manufacturing lead time to a minimum.



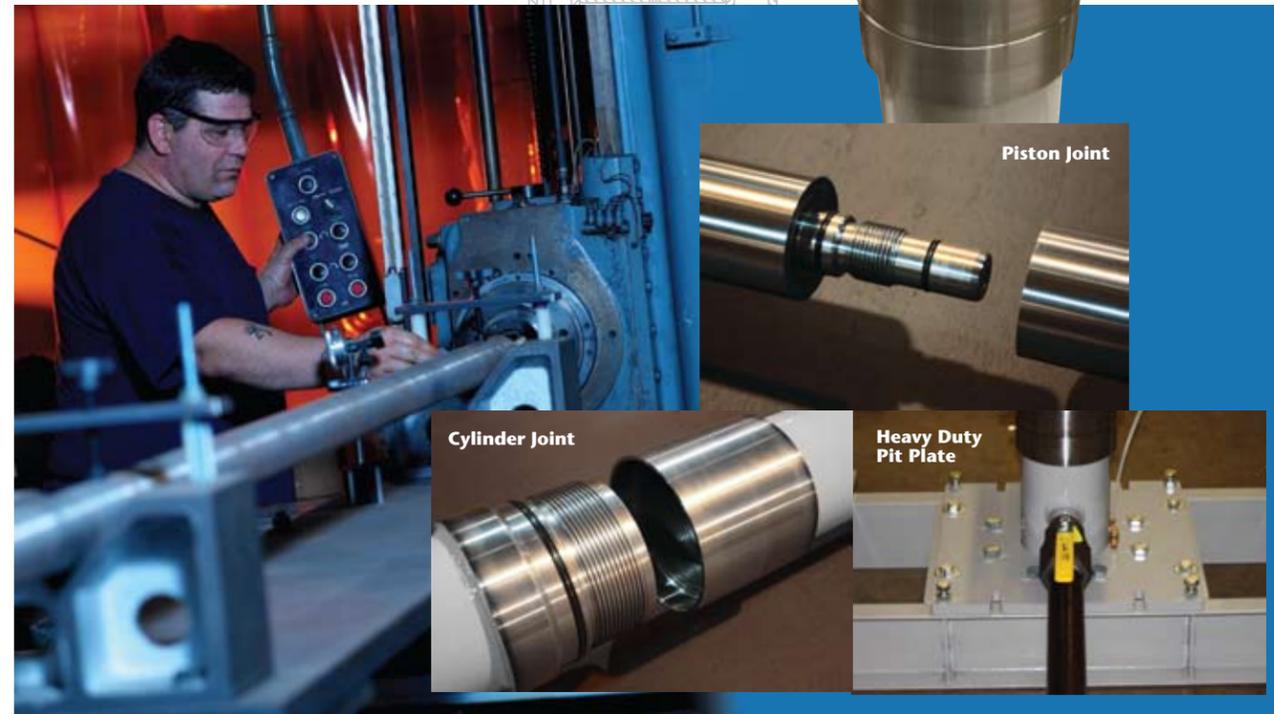
## Product

**All Hydraulic Jack Units** are designed and manufactured in accordance with ASME A17.1 safety code for elevators and escalators.

**Cylinders** are manufactured from either ASTM-A53 Grade B or ASTM-A106 pipe. A safety bulkplate with an orifice and a forged steel dished bottom cap are standard on all in-ground installations. All cylinders are thoroughly cleaned, inspected and pressure tested at the factory prior to assembly.

**Plungers** are machined from seamless DOM steel tubing. They are ground and polished to a 12-16 micro-inch finish with the diameter held to a +/- of .005 inches over the full length. The bottom of the plungers are fitted with a stop ring to prevent the plunger from leaving the cylinder and are designed to center the piston within the cylinder by means of a unique centering taper on the bottom bulkplate when the plunger is fully collapsed. Plungers are shipped cradled in the cylinders with an exclusive end cap design that eliminates the need for packing materials. Packing materials must be removed and discarded which sometimes are inadvertently left on and contaminate the system.

**Cylinder Heads** are designed to be almost maintenance free, incorporating a non-adjustable and pressure balanced seal, phenolic bearing and a wiper ring that prevents foreign materials from entering the packing gland. Retainer caps are flange-mounted which can be readily removed for service and re-packing.



# Custom ELEVATOR

**Piston and Cylinder Joints** are made of threaded male and female connections that ease assembly during installation. Our unique piston couplings are precision machined with three pilots plus a blunt lead thread to assure concentricity and angular alignment. Pistons are ground in one long length to assure accurate joint alignment during assembly. Threaded cylinder couplings are machined with heavy square ACME threads and double o-ring seal (welding recommended for in-ground installations). A long pilot and blunt lead thread is provided making cross-threading during assembly almost impossible.

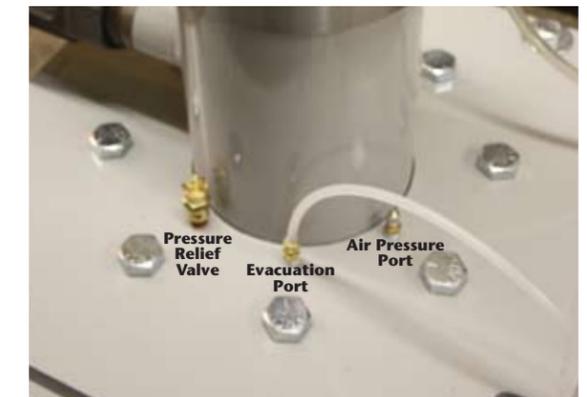
**A Heavy Duty Pit Plate** is provided at the top of the cylinder for attaching to our optional pit channel assembly. Leveling bolts are furnished on the pit plate to simplify plumbing of the hydraulic cylinder during installation. Threaded or grooved oil line inlets are provided and sized to suit your job specifications.

**Jack Assemblies** from Custom Elevator Mfg. Co. are easier to install, easier to service and provide optimum reliability and safety.

## PVC Cylinder Corrosion Protection

Buried hydraulic cylinders are subject to corrosion and electrolysis. This could lead to leaks and ultimate failure of your hydraulic cylinder which could create potentially unsafe operating conditions and/or environmental contamination. Additionally, visual inspection of an underground cylinder is not possible, making a method of fluid monitoring and evacuation essential to any system.

At Custom Elevator Mfg. Co. we offer a rigid PVC (polyvinyl chloride) liner capped at the bottom. All joints are solvent-welded and sealed with a flange to the cylinder pit plate to assure water tightness. This prevents cylinder contact with any underground contaminates. This liner is also designed to contain any hydraulic fluid in the event that a cylinder leak should ever occur. The cylinder pit plate is fitted with an evacuation and monitoring system that can be utilized during normal maintenance procedures.



Our PVC liner is designed with the smallest outside diameter possible. We utilize flush-threaded joint connections in lieu of couplings. This flush thread connector decreases the overall outside diameter of the liner, making our system ideal for installations in existing hole casings where they may not have been originally over-sized for an extra liner.



A sealed PVC cylinder protection system from Custom Elevator complies with the most stringent code requirements for monitoring, containment and evacuation of oil exceeding most industry standards.