

# HOW IT WORKS



The NOJAK Pumping System Consists of Two Main Components

1. A pump placed in the well
2. A control system on the surface

The control system includes a compressor and a microprocessor-controlled valve to direct fluid flow. Line assemblies connect a series of fluid chambers spaced about 250 feet apart in the well. Compressed gas is used to apply pressure to the chambers, lifting fluid from one chamber to the next until it reaches the surface.

## Less Downtime and Lower Operating Costs for Greater Output and Profit

Our system has no downhole components or precision parts to wear out. Routine maintenance on the surface equipment is minimal and no downhole maintenance is required. Everything is made of corrosive resistant materials and typical fines have no affect on the pump.

The NOJAK Pumping System is designed to reduce or eliminate downtime and lower your operating expenses, resulting in greater output and more profit from your wells.



### STEP 1

Fluid is raised through line assemblies that contain compressed gas or air. The lines are connected to alternate chambers using a closed design that assures no gas/air is released into the wellbore. Typically, a NOJAK installation in a 1,000-ft well will require compressed air/gas flow rates of about 30 to 50 cfm.

### STEP 2

The control panel first applies gas at a pre-set pressure (150 psi) to the top of odd-numbered chambers through the internal control lines. It simultaneously vents the pressure from the even-numbered chambers through the other internal control lines.

### STEP 3

- The pressurized gas in the odd chambers displaces the fluid, causing it to flow to the even chambers directly above them, with check valves preventing any downward flow.
- The control panel directs pressurized gas/air to the top of even-numbered chambers, and simultaneously vents the pressure on odd-numbered chambers, causing fluid to rise from the even chambers to the odd chambers above them.

### STEP 4

The lowest fluid chamber empties and vents. Then the combination of gravity and reservoir pressure from the well cause more fluid to flow back into this chamber preparatory to repeat the process. Fluid reaching the surface flows into the production facility.

Go to [www.nojakkpumps.com](http://www.nojakkpumps.com)  
to see full animation of the system.

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