

# All Pumps Deserve Great Sealing Components

## Providing Products For Optimal Performance

All pumps, whether they are direct lift, displacement, or gravity designs require sealing components. The mechanism of action responsible for the production of pressure, either reciprocal or rotary, presents its own unique design considerations and challenges when implementing reliable sealing solutions. Seals are critical to providing longevity and integrity to all components within a pump, an important factor in the generation of pressure, and protect against environmental contamination. Hi-Tech Seals offers a broad array of products, including, but not limited to:

### Mechanical Seals

A device that helps join systems or mechanisms together by preventing pressure leakage and excluding contamination. They create a seal when the two flat seal faces are pushed together by axial force from the closing mechanism. When the seal is in operation, the pumped fluid lubricates the two seal faces. Hi-Tech Seals offers a wide variety of mechanical seal configurations to meet the needs of various applications.

### Braided Packing

A braided, rope like material, custom cut to accurate diameters and installed in stacks around the rod. Once installed, the compression force generated by tightening an adjustable gland produces radial pressure. The mechanical expansion of braided packing when compressed allows the gland tolerances to be more flexible in comparison to more rigid versions of packing. Hi-Tech Seals distributes an extensive range of braided packing materials and sizes designed for a variety of service conditions.

### Excluder Seals

Designed for the prevention of contaminants entering critical pump components, such as the primary sealing element or bearing assembly. Excluder seals can include a pressure handling feature



or can be used in conjunction with oil seals or V seals if contamination exclusion and lubricant retention are required.

### Injectable Packing

Re-energizes worn packing through injection at the lantern ring, extending equipment life, decreasing friction, and reducing down-times associated with the disassembly of the pump for component rebuild or replacement.

### Custom Molded Rubber Products

Unique, non-standard elastomeric items designed specifically for their application, such as rubber check balls, flapper valve components, and fabric impregnated diaphragms.

Along with our standard product offering, Hi-Tech Seals offers customers access to our rubber and plastic machining, gasket manufacturing, and cast urethane division. For more information on our full line of pump components and our manufacturing capabilities contact a Hi-Tech Seals representative or visit us online at [hitechseals.com](http://hitechseals.com).