

CDI Seals

CDI Seals uses a combination of Technology, Innovation, and Reliability to manufacture high performance devices for the diverse applications found in the Industrial, Scientific, Consumer or Energy sectors.

CDI's Technology driven manufacturing processes provide the versatility necessary to ensure the best possible sealing solution for our customers' unique requirements.

The CDI engineers utilize Innovation in design and materials to overcome the challenges presented by strict emission standards, aggressive media, and high temperature/pressure applications.

CDI has a reputation for Reliability throughout industry by providing consistently superior sealing products for over 30 years. CDI has the experience required to manufacture reliable seals and components for all forms of industry.

With manufacturing operations in Houston, Texas, Hamburg, Germany & Hampton, UK that are supported by partners or service centers located in the North America, South America, Europe, Asia and the Pacific Rim CDI is a company of Global capabilities.

Fenner Advanced Sealing Technologies

Working closely with our customers using the most advanced materials and technology to supply sealing solutions for the most demanding performance-critical applications.

FAST (Fenner Advanced Sealing Technologies) manufactures and distributes specialist seals, and provides advanced sealing solutions for process and fluid power applications throughout Europe, North America and the Asia Pacific region.

Applications include: mining, automation, earth-moving and construction machinery, petrochemical, oil, gas and downstream activities, as well as the pharmaceutical, medical, semiconductor and aerospace sectors.

OptiSeal

www.cdiseals.com

OptiSeal is a registered trademark of CDI Seals Inc.
 Recommendations and design information are based on our experience, testing in specific conditions and industry standards; and is for general guidance. It does not constitute a guarantee or warranty of performance of any product. Customer must decide suitability for his purpose. Testing in the actual equipment and conditions of use is always recommended.

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OptiSeal

- CNC Machined for a wide range of sizes and configurations
- Extensive material choices to seal all types of media
- Available as a single seal or in sets
- Integral Back-Up for high pressure
- FireSafe or Geothermal versions available
- Used in virtually all forms of process technology

The spring energized Optiseal has been successfully designed, manufactured and marketed by CDI Seals for over two decades. CDI'S innovative CAD system helps provide designs that are coupled with high-tech thermoplastic materials to produce seals that have been proven to perform in hostile environments.

CDI's combination of materials and seal configurations is efficiently used to manage variations in temperature, pressure, and media. CNC machining and SPC manufacturing ensure a consistently superior seal for the wide spectrum of applications found in Industrial and Consumer processes.

The Optiseal can be used in a vast array of applications including valves, hot runner systems, medical equipment, food/beverage process, pharmaceutical/cosmetic process, petrochem process, semiconductor and robotics.



OPTISEAL
Technology – Innovation - Reliability

	Energy				Industrial						Consumer				Scientific				
	Fluid handling	Oil and gas	Refining	Power plants	Fluid handling	Chemical processing	Fluid power	Pulp and paper	Steel	Agriculture	Automation	Food	Pharmaceutical	Cosmetics	Beverage	Robotics	Semi Conductor	Medical Equipment	Test Equipment
OptiSeals	•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•
OptiFace	•		•		•	•						•							
Flanged OptiSeal	•	•	•		•	•	•			•		•	•	•	•	•	•	•	•
Opti-OilSeal	•				•		•	•		•		•	•		•	•	•	•	•
Pakring		•	•	•		•			•		•				•				•
Opti-Ipak		•	•	•		•													
OptiSeal with Back-Up	•	•	•	•	•	•	•	•	•	•				•	•				•
Optivee with Nipple		•	•	•		•													
Optivee		•	•	•		•													
Flat Band Coil Spring	•	•	•	•		•								•					•
Food Service Filled											•	•	•	•					
Integral Back-Up	•	•	•	•	•	•	•	•	•	•				•	•				•
Multi Springs		•	•	•		•													

OptiSeal

The Optiseal is the design of choice for applications requiring a high performance seal. CDI Optiseals are manufactured using a variety of configurations, materials, and auxiliary devices to provide maximum sealability in a broad cross section of industries and service conditions.

OptiFace Seal

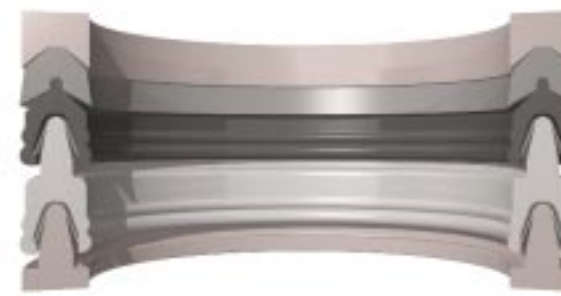
The OptiFace seal is an axially squeezed version of an OptiSeal. The high unit loading of the beveled lip design makes this seal ideal for flanges, swivel joints, and vacuum service.

Opti-Oilseal

Opti-OilSeals are designed for sealing low pressure rotary shafts in environments detrimental to elastomers.

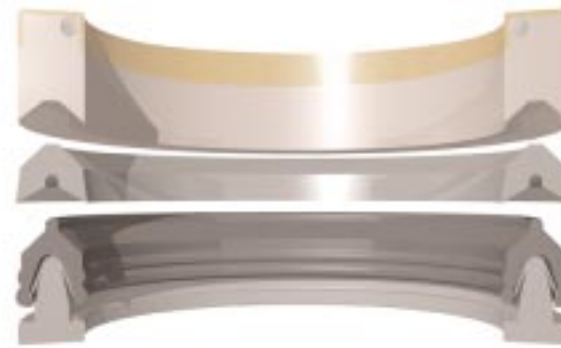
Integral Back-Up

OptiSeals may be modified to fit a diverse range of applications. The Integral Back-Up version is designed for high pressure applications where the axial gland length is limited. Individually designed variations are available for unique applications.



High performance stem packing

CDI's OptiPak assemblies combine the features of the Optiseal with those of traditional Vee packing to form a set configuration ideally suited to handle wide variations in pressure and temperature. The problems of large extrusion gaps, misalignment, and rough surface finishes are minimized by this combination of styles and materials.



High temperature stem packing

FireSafe and Geothermal applications require an OptiPak assembly utilizing high-temp materials supported by a composite top adapter manufactured using graphite filament and brass. This configuration has been successfully used at operating temperatures of 675° F.



Low Emission Valve Stem Packing

Meeting the challenges of low emission service involve the use of CDI's V3 ring to enhance sealability over the traditional VS style ring. The V3's elastomeric component provides a positive seal and resilience while the PTFE shell ensures low friction operation.