

Customized Seals and Critical Components for Completion and Production Systems

Precision. Engineered. Performance.



Solutions don't just happen. They are engineered.

CDI Energy Products designs and manufactures customized seals and critical components to precisely address your completion and production challenges. Each project benefits from expert, hands-on support; world-class materials and manufacturing; and focused adherence to your schedule and needs.

We get the job done.

Industry-leading manufacturers and service companies depend on CDI components and seals for their onshore and offshore systems. We are collaborative partners in enhancing operational and economic performance for a wide range of tools and processes. Our products are used in:

- **Stimulation and completion**—Packers, bridge plugs, pressure pumping (including hydraulic fracturing)
- **Downhole tools**—Completion systems, cased-hole logging systems, wireline tools
- **Production optimization**—Enhanced oil recovery, artificial lift, measurement and monitoring
- **Intervention**—Coiled tubing systems, workover equipment
- **Wellhead** – Surface and subsea systems

We design for value.

CDI helps clients achieve long-term value through:

- Improved performance and operating range
- Greater efficiency and reduced downtime
- Lower operating costs

We specialize in extremes.

CDI seals and components are engineered for the challenges of completion and production applications, including such extremes as:

- High and low pressures
- Temperature
- Corrosive environments
- Abrasives

We customize for performance.

The toughest challenges rarely have off-the-shelf solutions. Performance comes from custom products and materials built for the task—and ours are built for yours. We'll design it or give shape to your design.



CDI ENERGY
PRODUCTS

We build solutions one at a time.

Your project benefits from decades of CDI experience in understanding client objectives and quickly producing the optimal solution. As a result, CDI customized seals and critical components take many forms:

Seals for downhole extremes

Downhole tools are subjected to increasingly hostile wellbore environments. To address seal failures and provide better performance in high-pressure, high-temperature applications, a major tool manufacturer collaborated with CDI to develop a new seal. We fast-tracked six sample parts that were subjected to rigorous testing by the tool company. The new design has eliminated leaking, more than doubled seal life, and significantly increased tool demand.



Packing performance

Running out of 4-inch packing will bring hydraulic fracturing operations to a standstill. So when one of the big pressure pumping companies came up short, they called CDI. We prepared the order and overnighted the Tuff Breed® WSP1 packing to Williston, North Dakota. Not only did our packing save the day, it lasted through 28 stages and was still in working condition. The customer was so pleased with CDI performance—both the delivery and the packing—that we're now their preferred supplier.



Sealing in low pressures

To increase their market share in small industrial ball valves, a large valve manufacturer teamed with CDI to develop a seal for low-pressure service. To extend the lagging low-pressure rating of their current system, the design employed an injection-molded seal with relief grooves and a seal bead on the backside of the sealing surface. The new low-pressure valve allowed the manufacturer to pursue additional business in the market and expand their product offering.





To learn how CDI Energy Products can improve performance in your operations, please visit our website at CDIproducts.com

Or talk with our experts at one of our regional locations.

In-depth Solutions

CDI Energy Products is a designer and manufacturer of custom plastic and elastomeric products, seals, and ancillary metal components. As part of the global group Fenner, our multiple locations enable us to partner with clients worldwide to produce unique, high-performance solutions for the energy industry.



DISCLAIMER: The descriptions, design and performance information, and recommended uses for the products described herein are based on our design and manufacturing experience, product testing in specific conditions, and industry standards. As such, this information is for general guidance only. Our products are accompanied with their own warranty which is given in writing at the time of sale.

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