



**CLOCK  
SPRING**

**NRI**<sup>®</sup>

**The High-Performance Critical Infrastructure Company**



## Who We Are

ClockSpring|NRI is your best resource for high-performance critical infrastructure solutions. We simplify asset and environmental stewardship and help drive global economies, delivering safe, sustainable solutions for the construction, maintenance, and emergency repair of critical infrastructure, including oil, gas, product, and water pipelines, natural gas distribution lines, high-consequence industrial pipework, electrical grids, and civil infrastructure. We support our products with best-in-class design, engineering, testing, and training services to ensure proper installation and optimal performance.

Our composite construction and repair solutions and inline insertion valves have been deployed in 75 countries and include industry standard products such as Clock Spring™, Syntho-Glass® XT, Scar-Guard®, Thermo-Wrap™ Inspectable, Contour, and DiamondWrap® composite products, as well as the award-winning AVT EZ Valve™ for water and gas lines.

Our industry-leading products are easy to install, cost-effective to deploy, and durable for decades.

## Industry-Leading Products for Construction and Repair

Our offering is second to none, and we are continuing to add capabilities to both our metallic and composite product lines, delivering even more superior solutions for constructing and maintaining high-performance critical infrastructure.

Representative products in the ClockSpring|NRI portfolio of industry-leading solutions:

### Clock Spring™

Verified through the most comprehensive pipeline repair study ever commissioned, the Clock Spring™ composite repair sleeve and reinforcement system is uniquely designed for high-pressure transmission pipelines. Classified as a permanent repair, Clock Spring™ has been tested to 8,000 psi and is considered a permanent repair by regulators.



### Contour

This engineered wet-applied repair system features bi-axial or quad-axial stitched fiberglass cloth applied in a wet-lay system with two-part epoxy and a filler material.

Contour is ideal for repairs that involve complicated geometry such as tees, flanges, and varying diameter pipe.



### Syntho-Glass® XT

Our unique pre-impregnated, bi-directional composite repairs and reinforces lines with internal and external corrosion. The wet-applied pre-impregnated system ensures the proper fiber-to-resin content ratios that are essential for reliable performance on transmission and distribution pipelines, oil and gas risers, process piping, and girth welds, elbows, tees, and flanges on vessels and pipelines.



### Scar-Guard®

This composite abrasion resistant overcoat of fiberglass cloth and pre-impregnated specialty resin is water activated. It cures in minutes, protecting field joint and mainline coatings from the mechanical stresses and scarring associated with HDD, boring and micro-tunneling of pipelines.



## Delivering on our Reputation

Our innovative solutions are reliable and robust because product development is underpinned by experience and expertise.

ClockSpring|NRI products are vetted, tested, and proven in exacting conditions, validating their quality and efficacy in both construction and repair applications.

## Services

- Validated product and solution offerings
- Manufacturing capabilities
- Strategic global inventory locations to ensure rapid, reliable delivery
- Installation training
- Project site support
- Engineering and design services
- Sales support

### Leak Stop Products

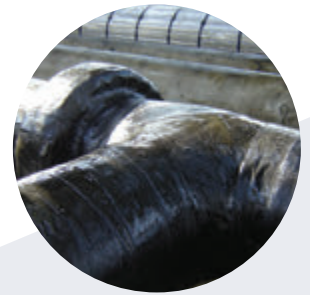
Our unique Leak Stopper™ can be installed in seconds to contain active leaks, creating a low-profile repair that can be overwrapped with one of our industry-leading composite solutions for a longer-term solution. It is ideal for oil and gas pipelines, refineries and petrochemical plants, and municipal water and gas distribution lines.

We also provide custom repair and maintenance clamps and fittings manufactured by the recently acquired ATM Machine Works.



### DiamondWrap®

The DiamondWrap® system includes a bidirectional weave of carbon fiber and a 100% solids epoxy, that form a composite system that is stronger than steel. The structural system forms a pipe around a pipe, and each successive wrap increases the pressure rating. Its bidirectional weave allows for strength in both the hoop and axial directions, and its low profile makes it perfect for tees and elbows, straight runs of pipe, confined spaces, and irregular surfaces. Our specialty epoxies include three high-temperature systems and an acid system for use with harsh chemicals. The adhesive properties of our epoxies are unmatched in range, quality, and performance.



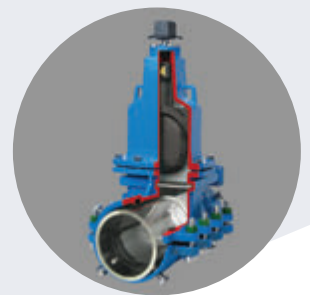
### Thermo-Wrap™ Inspectable

This custom-engineered repair system uses a fiberglass, composite-reinforced coating with a thick, non-crimped, glass fiber architecture and resin that delivers higher strength with fewer layers. Thermo-Wrap™ Inspectable is ideal for corroded or damaged piping with harsh chemical service and elevated temperatures.



### AVT EZ Valve™

Ranked among the industry's most innovative solutions, the light and compact EZ Valve™ is designed with a built-in isolation gate that allows the valve to be installed under pressure. It is easy to install in emergency conditions, maintaining line integrity throughout the installation to deliver a durable and safe repair.



# What it Means to be a Technology Leader

ClockSpring|NRI delivers an unequalled range of solutions for high-performance critical infrastructure.

We are committed to safety, sustainability, and environmental stewardship for our customers and ourselves, and that commitment is reflected in the design of every product and the attitude of every employee.

Our goal is to expand our offering through relentless innovation to deliver the best solutions, developed with safety and environmental sustainability as the foundation and manufactured using the safest and most reliable processes.

We believe every industry challenge presents an opportunity for improvement. We welcome those opportunities and look forward to helping our clients build and maintain high-performance critical infrastructure.

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