



The Clock Spring Leak Stopper™ works fast! It is designed for quick and safe temporary leak containment, with an optimized strapping method that achieves efficient and secure composite placement using teeth that are part of the band. Using the low-profile buckles makes executing repairs less cumbersome and time consuming than alternative methods and produces a finished profile that is only 1 inch thick.

Tested and validated product performance guarantees dependable results.

Conditioned samples of the band have been verified by third-party labs to have limited creep and high break strength values, giving confidence that a Clock Spring Leak Stopper™ repair is a reliable repair.

#### APPLICATIONS

Leak Stopper™ is ideal for onshore oil and gas pipelines, refineries and petrochemical plants, and municipal water and gas distribution lines, replacing bulky bolt-on products that require more time to install and introduce greater risk.

Installing the Clock Spring Leak Stopper™ is simple. The process requires a trained installer using a gauged clamping device to tension the specialized band securely over the leak with a low-profile buckle. The result is a reliable and durable temporary repair within seconds. Once the Leak Stopper™ is installed and the leak is stopped, Clock Spring engineers can design an engineered composite solution as an overwrap to prolong the life of the piping system.

#### PROTECTION AND SUPPORT

Being able to execute a small installation delivers savings on multiple levels - operators can prepare the pipe closer to the defect using less material, achieving a faster repair that reduces open ditch time along with associated safety risks.

#### BENEFITS:

- Rapid repair process prevents environmental exposure to hydrocarbons within seconds
- Teeth designed into the tightening band improve strength, safety, and repair speed
- Low-profile repair simplifies installation and composite overwrap application
- Not diameter specific - The band can be used for various pipe diameters
- Third-party verification of materials performance in aged samples
- Certified SGS tensile strength certificate

#### Manufacturer's Recommendation

- Maximum working pressure for leak sealing moment 17 bar (250 psi)
- Maximum diameter of sealable through-wall defect 12 mm (0.5 inch)
- Pipe diameter range 101.5 mm to 508 mm (4-20 inches)

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## SIMPLE INSTALLATION

A full and thorough risk assessment should be completed before approaching any leak.



Fit the band loosely onto the pipe with the Leak Stopper™ parallel to the pipe to allow it to slide into place. The band should be just loose enough to allow easy movement to maneuver the stopper over the leak.



Slide the center of the stopper “sphere” onto the center of the leak and apply pressure to maintain the position of the Leak Stopper™ while its tightened.



Being mindful of the pinch points along the edges of the stopper, use the ratchet to tighten the band, resetting the metal bracket onto the teeth and closing the ratchet until no more pressure can be applied, and the leak has stopped.



Verify the leak is plugged properly.



Use the back of the tool to trim the excess slack from the band and provide a smooth profile across the pipe.

## CHEMICAL COMPATIBILITY WITH COMMON PROCESS MATERIALS

Chemical	Swelling	Degradation
<b>Ammonia, Anhydrous</b>	No Effect	No Effect
<b>Boric Acid</b>	No Effect	No Effect
<b>Gasoline</b>	No Effect	No Effect
<b>Glycol Ether</b>	No Effect	No Effect
<b>Hexane</b>	No Effect	No Effect
<b>Jet Fuel (JP-5)</b>	No Effect	No Effect
<b>Methanol</b>	No Effect	No Effect
<b>Naphtha</b>	No Effect	No Effect
<b>Sodium Hydroxide 50%</b>	No Effect	No Effect
<b>Triethylamine</b>	No Effect	No Effect

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